



STATE OF MICHIGAN  
DEPARTMENT OF HEALTH AND HUMAN SERVICES  
LANSING

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July 10, 2018

Jennifer Kostasich, Project Officer  
Centers for Medicare and Medicaid Services  
7500 Security Boulevard  
Mail Stop S2-01-16  
Baltimore, Maryland 21244-1850

Dear Ms. Kostasich,

Re: Project Number 11-W-00245/5 – Healthy Michigan Plan

Enclosed is the quarterly report for Healthy Michigan Plan. It covers the second quarter of federal fiscal year 2018. The report provides operational information, program enrollment, and policy changes related to the waiver as specified in the Special Terms and Conditions.

Should you have any questions related to the information contained in this report, please contact Jacqueline Coleman by phone at (517) 284-1190, or by e-mail at [colemanj@michigan.gov](mailto:colemanj@michigan.gov).

Sincerely,

A black rectangular box redacting the signature of Penny Rutledge.

Penny Rutledge, Director  
Actuarial Division

cc: Ruth Hughes  
Angela Garner

Enclosure (9)

Michigan Adult Coverage Demonstration  
Section 1115 Quarterly Report

Demonstration Year: 9 (01/01/2018 – 12/31/2018)  
Federal Fiscal Quarter: 2 (01/01/2018 – 03/31/2018)

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## Introduction

On April 1, 2014, Michigan expanded its Medicaid program to include adults with income up to 133 percent of the Federal Poverty Level (FPL). To accompany this expansion, the Michigan Adult Benefits Waiver (ABW) was amended and transformed to establish the Healthy Michigan Plan, through which the Michigan Department of Health & Human Services (MDHHS) will test innovative approaches to beneficiary cost sharing and financial responsibility for health care for the new adult eligibility group. Organized service delivery systems will be utilized to improve coherence and overall program efficiency. The overarching themes used in the benefit design are increasing access to quality health care, encouraging the utilization of high-value services, and promoting beneficiary adoption of healthy behaviors and using evidence-based practice initiatives. The Healthy Michigan Plan provides a full health care benefit package as required under the Affordable Care Act including all of the Essential Health Benefits as required by federal law and regulation. The new adult population with incomes above 100 percent of the FPL are required to make contributions toward the cost of their health care. In addition, all newly eligible adults from 0 to 133 percent of the FPL are subject to copayments consistent with federal regulations.

State law requires MDHHS to partner with the Michigan Department of Treasury to garnish state tax returns and lottery winnings for members consistently failing to meet payment obligations associated with the Healthy Michigan Plan. Prior to the initiation of the garnishment process, members are notified in writing of payment obligations and rights to a review. Debts associated with the MI Health Account are not reported to credit reporting agencies. Members non-compliant with cost-sharing requirements do not face loss of eligibility, denial of enrollment in a health plan, or denial of services.

On December 17, 2015, CMS approved the state's request to amend the Healthy Michigan Section 1115 Demonstration to implement requirements of state law ([MCL 400.105d \(20\)](#)). With this approval, non-medically frail individuals above 100 percent of the FPL with 48 cumulative months of Healthy Michigan Plan coverage will have the choice of one of two coverage options:

1. Select a Qualified Health Plan offered on the Federal Marketplace. These individuals will pay premiums but can enroll in the Healthy Michigan Plan when a healthy behavior requirement is met; or
2. Remain in the Healthy Michigan Plan with increased cost-sharing and contribution obligations. These individuals are also required to meet a healthy behavior requirement.

MDHHS's goals in the demonstration are to:

- Improve access to healthcare for uninsured or underinsured low-income Michigan citizens;
- Improve the quality of healthcare services delivered;
- Reduce uncompensated care;
- Encourage individuals to seek preventive care and encourage the adoption of healthy behaviors;
- Help uninsured or underinsured individuals manage their health care issues;
- Encourage quality, continuity, and appropriate medical care; and

- Study the effects of a demonstration model that infuses market-driven principles into a public healthcare insurance program by examining:
  - The extent to which the increased availability of health insurance reduces the costs of uncompensated care borne by hospitals;
  - The extent to which availability of affordable health insurance results in a reduction in the number of uninsured/underinsured individuals who reside in Michigan;
  - Whether the availability of affordable health insurance, which provides coverage for preventive and health and wellness activities, will increase healthy behaviors and improve health outcomes; and
  - The extent to which beneficiaries feel that the Healthy Michigan Plan has a positive impact on personal health outcomes and financial well-being.

## Enrollment and Benefits Information

MDHHS began enrolling new beneficiaries into the program beginning April 1, 2014. Beneficiaries who were enrolled in the ABW were automatically transitioned into the Healthy Michigan Plan effective April 1, 2014. Potential enrollees can apply for the program via the MDHHS website, by calling a toll-free number or by visiting their local MDHHS office. At this time, MDHHS does not anticipate any changes in the population served or the benefits offered. The following tables display new enrollment and disenrollment by month:

| <b>Table 1: Healthy Michigan Plan New Enrollments by Month</b> |               |            |        |
|--|---------------|------------|--------|
| January 2018   | February 2018 | March 2018 | Total  |
| 33,133   | 28,276        | 28,802     | 90,211 |

| <b>Table 2: Healthy Michigan Plan Disenrollments by Month</b> |               |            |        |
|---|---------------|------------|--------|
| January 2018  | February 2018 | March 2018 | Total  |
| 29,117  | 28,347        | 29,424     | 86,888 |

Most Healthy Michigan Plan beneficiaries choose a health plan as opposed to automatic assignment to a health plan. As of March 2018, 366,439 or, 70 percent, of the State's 521,349 Healthy Michigan Plan health plan enrollees selected a health plan. The remaining managed care enrolled beneficiaries were automatically assigned to a health plan. All Medicaid Health Plan members have an opportunity to change their plan within 90 days of enrollment into the plan. Changes in the State's Medicaid enrollment system unexpectedly delayed the State's ability to report the number of automatically assigned Healthy Michigan Plan health plan beneficiaries with plan changes. MDHHS is working with its enrollment broker to retrieve the data for the next quarterly report.

Healthy Michigan Plan members have the opportunity to reduce cost-sharing requirements through the completion of Health Risk Assessments and engaging in healthy behaviors. MDHHS has developed a standard Health Risk Assessment form to be completed annually. Health Risk Assessment forms and reports are located on the [MDHHS website](#). The Health Risk Assessment document is completed in two parts. The member typically completes the first

section of the form with the assistance of the Healthy Michigan Plan enrollment broker. Members that are automatically assigned to a health plan are not surveyed. The remainder of the form is completed at the member's initial primary care visit. Completion of the remaining Health Risk Assessment sections (beyond those completed through the State's enrollment broker) requires beneficiaries to schedule an annual appointment, select a Healthy Behavior, and have member results completed by their primary care provider. The primary care provider securely sends the completed Health Risk Assessment to the appropriate Medicaid Health Plan.

Healthy Michigan Plan members that successfully complete the Health Risk Assessment process and agree to address or maintain healthy behaviors may qualify for reduction in copayments and/or contributions and gift cards. The following opportunities are available to Healthy Michigan Plan beneficiaries:

- Reduction in copayments: A 50 percent reduction in copayments is available to members that have agreed to address or maintain healthy behaviors and have paid 2 percent of their income in copayments.
- Reduction in contributions: A 50 percent reduction in contributions can be earned by members that have agreed to address or maintain healthy behaviors and have completed a Health Risk Assessment with a Primary Care Practitioner attestation.
- Gift card incentives: A \$50.00 gift card is available to beneficiaries at or below 100 percent FPL that have agreed to address or maintain healthy behaviors and have completed a Health Risk Assessment with a Primary Care Practitioner attestation.

The initial assessment questions section of the Health Risk Assessments completed through the MDHHS enrollment broker had a completion rate of 91 percent this quarter. MDHHS is encouraged by the high level of participation by beneficiaries at the initial point of contact. The details of Health Risk Assessment completion can be found in the enclosed March 2018 Health Risk Assessment Report. The following table details the Health Risk Assessment data collected by the enrollment broker for the quarter:

| <b>Table 3: Health Risk Assessment Enrollment Broker Data</b> |                          |                  |                        |                  |                        |
|---|--------------------------|------------------|------------------------|------------------|------------------------|
| Month   | Number of Completed HRAs | Percent of Total | Number of Refused HRAs | Percent of Total | Total Enrollment Calls |
| January 2018  | 6,745                    | 99.9%            | 1                      | .01%             | 6,746                  |
| February 2018   | 6,360                    | 96.7%            | 218                    | 3.3%             | 6,578                  |
| March 2018  | 5,465                    | 99.8%            | 10                     | .20%             | 5,475                  |
| Total   | 18,570                   | 98.8%            | 229                    | 1.2%             | 18,799                 |

The following table details Health Risk Assessment data collected by the Medicaid Health Plans for the quarter:

| <b>Table 4: Health Risk Assessment Health Plan Data</b> |              |               |            |        |
|---|--------------|---------------|------------|--------|
|   | January 2018 | February 2018 | March 2018 | Total  |
| Health Risk Assessments Submitted                       | 3,337        | 4,081         | 3,458      | 10,876 |
| Gift Cards Earned                                       | 2,560        | 3,112         | 2,522      | 8,194  |
| Reductions Earned                                       | 769          | 957           | 923        | 2,649  |
| Reductions Applied                                      | 997          | 860           | 995        | 2,852  |

## Enrollment Counts for Quarter and Year to Date

Healthy Michigan Plan enrollment in this quarter has remained consistent with previous quarters. In addition to stable Healthy Michigan Plan enrollment, MDHHS saw the typical number of disenrollments from the plan as reported in the Monthly Enrollment Reports to CMS. Healthy Michigan disenrollment reflects individuals who were disenrolled during a redetermination of eligibility or switched coverage due to eligibility for other Medicaid program benefits. In most cases beneficiaries disenrolled from the Healthy Michigan Plan due to eligibility for other Medicaid programs. Movement between Medicaid programs is not uncommon and MDHHS expects that beneficiaries will continue to shift between Healthy Michigan and other Medicaid programs as their eligibility changes. Enrollment counts in the table below are for unique members for identified time periods. The unique enrollee count will differ from the March 2018 count from the Beneficiary Month Reporting section as a result of disenrollment that occurred during the quarter.

**Table 5: Enrollment Counts for Quarter and Year to Date**

| Demonstration Population | Total Number of Demonstration Beneficiaries Quarter Ending – 03/2018 | Current Enrollees (year to date) | Disenrolled in Current Quarter |
|--------------------------|--|----------------------------------|--------------------------------|
| ABW Childless Adults     | N/A  | N/A                              | N/A                            |
| Healthy Michigan Adults  | 764,030  | 764,030                          | 86,888                         |

## Outreach/Innovation Activities to Assure Access

MDHHS utilizes the [Healthy Michigan Program website](#) to provide information to both beneficiaries and providers. The Healthy Michigan Plan website contains information on eligibility, how to apply, services covered, cost sharing requirements, frequently asked questions, Health Risk Assessment completion, and provider information. The site also provides a link for members to make MI Health Account payments. MDHHS also has a mailbox, [healthymichiganplan@michigan.gov](mailto:healthymichiganplan@michigan.gov), for questions or comments about the Healthy Michigan Plan.

MDHHS continues to work closely with provider groups through meetings, Medicaid provider policy bulletins, and various interactions with community partners and provider trade associations. Progress reports are provided by MDHHS to the Medical Care Advisory Council (MCAC) at regularly scheduled quarterly meetings. These meetings provide an opportunity for attendees to provide program comments or suggestions. The February 2018 MCAC meeting occurred during the quarter covered by this report. The minutes for this meeting have been attached as an enclosure. MCAC meeting agendas and minutes are also available on the [MDHHS website](#).

## Collection and Verification of Encounter Data and Enrollment Data

As a mature managed care state, all Medicaid Health Plans submit encounter data to MDHHS for the services provided to Healthy Michigan Plan beneficiaries following the existing MDHHS data submission requirements. MDHHS continues to utilize encounter data to prepare MI Health Account statements with a low volume of adjustments. MDHHS works closely with the plans in reviewing, monitoring and investigating encounter data anomalies. MDHHS and the Medicaid

Health Plans work collaboratively to correct any issues discovered as part of the review process.

## Operational/Policy/Systems/Fiscal Developmental Issues

MDHHS regularly meets with the staff of Medicaid Health Plans to address operational issues, programmatic issues, and policy updates and clarifications. Updates and improvements to the Community Health Automated Medicaid Processing System (CHAMPS), the State's Medicaid Management Information System (MMIS) happen continually, and MDHHS strives to keep the health plans informed and functioning at the highest level. At these meetings, Medicaid policy bulletins and letters that impact the program are discussed, as are other operational issues. Additionally, these operational meetings include a segment of time dedicated to the oversight of the MI Health Account contactor. MDHHS and the health plans receive regular updates regarding MI Health Account activity and functionality. The following policies with Healthy Michigan Plan impact were issued by MDHHS during the quarter covered by this report:

| Issue Date | Subject  | Link                      |
|------------|--|---------------------------|
| 01/30/2018 | Home Help Travel Time Payment for Shopping and Laundry Services  | <a href="#">MSA 17-39</a> |
| 01/30/2018 | Current Procedural Terminology (CPT) and Healthcare Common Procedure Coding System (HCPCS) Code Updates        | <a href="#">MSA 18-01</a> |
| 01/30/2018 | Update to the Coverage of Physician-Administered Drugs and Biological Products                                 | <a href="#">MSA 18-02</a> |
| 01/30/2018 | Clarification to Age Limitations for Durable Medical Equipment, Prosthetics, Orthotics and Supplies            | <a href="#">MSA 18-03</a> |
| 03/01/2018 | MI Marketplace Option and Healthy Michigan Plan Updates  | <a href="#">MSA 18-05</a> |
| 03/01/2018 | Updates to the Medicaid Provider Manual; MDHHS Wrap Around Code List Format Change                             | <a href="#">MSA 18-06</a> |
| 03/05/2018 | Managed Care Network Provider Enrollment in the Community Health Automated Medicaid Processing System (CHAMPS) | <a href="#">MSA 18-07</a> |

## Financial/Budget Neutrality Development Issues

Healthy Michigan Plan expenditures for all plan eligible groups are included in the budget neutrality monitoring table below as reported in the CMS Medicaid and Children's Health Insurance Program Budget and Expenditure System. Expenditures include those that both occurred and were paid in the same quarter in addition to adjustments to expenditures paid in quarters after the quarter of service. The State will continue to update data for each demonstration quarter as it becomes available.

|             | Approved HMP PMPM | Actual HMP PMPM (YTD) | Total Expenditures (YTD) | Total Member Months (YTD) |
|-------------|-------------------|-----------------------|--------------------------|---------------------------|
| DY 5 - PMPM | \$667.36          | \$477.88              | \$1,784,907,155.00       | 3,735,041                 |
| DY 6 - PMPM | \$602.21          | \$478.97              | \$3,481,174,707.00       | 7,268,065                 |
| DY 7 - PMPM | \$569.80          | \$498.59              | \$3,869,334,529.00       | 7,760,550                 |
| DY 8 - PMPM | \$598.86          | \$463.45              | \$3,859,613,732.00       | 8,328,051                 |
| DY 9 - PMPM | \$629.40          | \$349.43              | \$742,637,282.00         | 2,125,306                 |



## Beneficiary Month Reporting

The beneficiary counts below include information for each of the designated months during the quarter, and include retroactive eligibility through March 31, 2018.

**Table 8: Healthy Michigan Plan Beneficiary Month Reporting**

| Eligibility Group       | January 2018 | February 2018 | March 2018 | Total for Quarter Ending 03/18 |
|-------------------------|--------------|---------------|------------|--------------------------------|
| Healthy Michigan Adults | 708,690      | 708,619       | 707,997    | 2,125,306                      |

## Consumer Issues

This quarter, the total number of Healthy Michigan Plan complaints reported to MDHHS was 41. Complaints reported to MDHHS are detailed by category in the table below. Overall, with over 2.1 million member months during the quarter, MDHHS is encouraged by its low rate of contacts related to Healthy Michigan Plan complaints. MDHHS will continue to monitor calls to the Beneficiary Helpline to identify issues and improve member experiences.

**Table 9: Healthy Michigan Plan Complaints Reported to MDHHS**

**January 2018 – March 2018**

|         | Obtaining Prescriptions | Other Covered Services | Transportation | Total |
|---------|-------------------------|------------------------|----------------|-------|
| Count   | 28                      | 10                     | 3              | 41    |
| Percent | 68%                     | 24%                    | 8%             |       |

## Quality Assurance/Monitoring Activity

MDHHS completes Performance Monitoring Reports (PMR) specific to the Medicaid Health Plans that are licensed and approved to provide coverage to Michigan's Medicaid beneficiaries. These reports are based on data submitted by the health plans. Information specific to the Healthy Michigan Plan are included in these reports. The measures for the Healthy Michigan Plan population mirrors those used for the traditional Medicaid population. MDHHS continues to collect data and assist health plans with deliverables for the purpose of PMR completion. The most recently published Bureau of Medicaid Program Operations & Quality Assurance quarterly PMR with Healthy Michigan Plan specific measures is included as an enclosure.

## Managed Care Reporting Requirements

MDHHS has established a variety of reporting requirements for the Medicaid Health Plans, many of which are compiled, analyzed and shared with the plans in the PMRs described in the Quality Assurance/Monitoring Activity section of this report. MDHHS and the Medicaid Health Plans continue to monitor MI Health Account call center and payment activity.

The MI Health Account Call Center handles questions regarding the MI Health Account welcome letters and MI Health Account quarterly statements. MDHHS' Beneficiary Help Line number is listed on all MI Health Account letters. Staff are cross trained to provide assistance on a variety of topics. Commonly asked questions by callers contacting the MI Health Account Call Center relate to general MI Health Account information and payment amounts. Members calling

regarding the quarterly statements have asked about amounts owed, requested clarification on the contents of the statement, and reported an inability to pay amounts owed. During this quarter, Healthy Michigan Plan members continued making payments for contributions and copays to the MI Health Account. Detailed MI Health Account activity is included in the attached November 2017 MI Health Account Executive Summary Report.

MDHHS has refined the Managed Care Organization grievance and appeal reporting process to collect Healthy Michigan Plan specific data. Grievances are defined in the MDHHS Medicaid Health Plan Grievance/Appeal Summary Reports as an expression of dissatisfaction about any matter other than an action subject to appeal. Appeals are defined as a request for review of the Health Plan’s decision that results in any of the following actions:

- The denial or limited authorization of a requested service, including the type or level of service;
- The reduction, suspension, or termination of a previously authorized service;
- The denial, in whole or in part, of a payment for a properly authorized and covered service;
- The failure to provide services in a timely manner, as defined by the State; or
- The failure of the Health Plan to act within the established timeframes for grievance and appeal disposition.

From January 2018 to March 2018, there were 253 total appeals among all the Medicaid Health Plans. Medicaid Health Plan decisions were upheld in 35 percent of the appeals. From January 2018 to March 2018 there were a total of 1,048 grievances. The greatest number of grievances came from the transportation category. Access grievances can include a primary care physician not accepting new patients, limited specialist availability, the refusal of a primary care physician to complete a referral or write a prescription, a lack of services provided by the primary care physician, long wait times for appointments and denied services. Transportation grievances relate to issues with the transportation benefit and often mirror the complaints members directly reported to MDHHS. Grievances related to quality of care pertain to the level of care issues experienced by beneficiaries. Administrative/Service grievances can range from issues with claims, enrollment, eligibility, out-of-network providers and benefits not covered. Issues reported under the Billing category pertain to billing issues. MDHHS will continue to monitor the Medicaid Health Plans Grievance/Appeal Summary Reports to ensure levels of grievances remain low and resolution of grievances is completed in a timely manner. MDHHS has included grievance and appeals data reported by the Medicaid Health Plans from this quarter in the following tables:

| <b>Table 10: Managed Care Organization Appeals</b> |                 |           |                            |       |
|--|-----------------|-----------|----------------------------|-------|
| <b>January 2018 – March 2018</b>                   |                 |           |                            |       |
|  | Decision Upheld | Overtured | Undetermined/<br>Withdrawn | Total |
| Count  | 89              | 137       | 27                         | 253   |
| Percent  | 35%             | 54%       | 11%                        |       |

| <b>Table 11: Managed Care Organization Grievances</b> |              |                |
|---|--------------|----------------|
| <b>January 2018 – March 2018</b>                      |              |                |
| <b>Category</b>                                       | <b>Count</b> | <b>Percent</b> |
| Transportation  | 431          | 41%            |
| Access  | 206          | 20%            |
| Administrative/Service                                | 206          | 20%            |
| Quality of Care                                       | 105          | 10%            |
| Billing   | 102          | 9%             |
| Total   | 1,048        |                |

## Lessons Learned

MDHHS continues to learn from the experience of launching a program the size and scope of the Healthy Michigan Plan. In January 2018, the University of Michigan's Institute for Healthcare Policy and Innovation (IHPI) published several Healthy Michigan specific reports. These reports on primary care practitioner and enrollee views of the program have been included as enclosures to this report. IHPI conducted surveys and telephone interviews with primary care practitioners caring for Healthy Michigan Plan patients. The report's findings indicated that the Healthy Michigan Plan has improved access to care and better detection and management of chronic conditions. In this report, primary care practitioners reported an increase in new patients and hiring clinicians and staff as a result. Primary care practitioners also reported that access to some services such as, specialty care and mental health care, remains a challenge. Additionally, providers noted that the Healthy Michigan Plan Health Risk Assessment process was administratively burdensome.

This quarter, IHPI also published a report and supplemental analyses on the 2016 Healthy Michigan Voices Enrollee Survey. These reports, based on surveys of individuals enrolled in the Healthy Michigan Plan, are attached as enclosures. Surveyed enrollees reported greater access to care, decreased financial burden from health care, and a better awareness of enrollee cost of care through the MI Health Account statements. IHPI also identified education for enrollees on coverage and cost-sharing as areas to improve. For example, many respondents were unaware of the Healthy Michigan Plan dental benefit. MDHHS will employ these findings and stakeholder feedback to continue to support enrollee wellbeing.

## Demonstration Evaluation

MDHHS has commissioned the University of Michigan's Institute for Healthcare Policy and Innovation (IHPI) to serve as the Healthy Michigan Plan independent evaluator. The IHPI has developed a comprehensive plan to address the needs of the State and CMS. Demonstration evaluation activities for the Healthy Michigan Plan are utilizing an interdisciplinary team of researchers from the IHPI. The activities of the evaluation will carry in seven domains over the course of the five year evaluation period:

Demonstration evaluation activities for the Healthy Michigan Plan are utilizing an interdisciplinary team of researchers from the IHPI. The activities of the evaluation will be carried out in seven domains over the course of the 5-year evaluation period:

- I. An analysis of the impact the Healthy Michigan Plan on uncompensated care costs borne by Michigan hospitals;

- II. An analysis of the effect of Healthy Michigan Plan on the number of uninsured in Michigan;
- III. The impact of Healthy Michigan Plan on increasing healthy behaviors and improving health outcomes;
- IV. The viewpoints of beneficiaries and providers of the impact of Healthy Michigan Plan;
- V. The impact of Healthy Michigan Plan's contribution requirements on beneficiary utilization;
- VI. The impact of the MI Health Accounts on beneficiary healthcare utilization; and
- VII. An analysis on the cost effectiveness of the Healthy Michigan Marketplace Option.

Below is a summary of the key activities for the Fiscal Year (FY) 2018 second quarterly report:

### **Domain I**

Domain I examines the impact of reducing the number of uninsured individuals on uncompensated care costs to hospitals in Michigan through Medicaid expansion. During this quarter, IHPI prepared updates to the baseline, 2014 and 2015 results with 2016 data for hospital cost reports and Internal Revenue Service filings from Michigan and other states. IHPI's expectation is to have more than a full year of post-implementation data for all hospitals in Michigan and up to two years of post-implementation data for some of the hospitals. Additionally, IHPI conducted a preliminary analysis of Medicare and Medicaid Cost Report data. Afterwards, IHPI prepared a data extract of Michigan hospital discharge data to use in a supplementary analysis. Finally, a report was created to present findings on multi-year data on uncompensated care from Michigan and other states.

### **Domain II**

Domain II evaluates the insured/uninsured rates, in general and more specifically by select population groups (e.g., income levels, geographic areas, age, gender, and race/ethnicity). This quarter, IHPI continued to analyze data from Michigan and other states from two U.S. Census Bureau Surveys (American Community and the Current Population Surveys) to compare trends in uninsurance rates across time, within state and across states. IHPI is experimenting with alternative analytic methods, specific, synthetic control techniques, to construct a comparison group against which trends in coverage in Michigan can be compared.

### **Domain III**

Domain III assesses healthy behaviors, utilization and health outcomes for individuals enrolled in the Healthy Michigan Plan. During this quarter, IHPI calculated measures on emergency department utilization, healthy behaviors/preventive health service and hospital admissions for final year of the Healthy Michigan demonstration. Moreover, IHPI submitted a revised Domain III report presenting selected measures. IHPI began data processing related to additional measures to include in the final report.

### **Domain IV**

Domain IV examines beneficiary and provider viewpoints of the Healthy Michigan Plan through survey data. IHPI continued to analyze the 2016 Healthy Michigan Voices (HMV) Beneficiary Survey of current enrollees by completing subgroup and multivariate analyses. IHPI finalized all revisions to the 2016 HMV Beneficiary Survey of current enrollees report based on MDHHS feedback. Further, IHPI conducted analyses of the Eligible But Unenrolled (EBU) interviews, analyses of 2017 HMV survey data and longitudinal analyses of 2016 and 2017 HMV survey data. Initial coding of the 2017 EBU interviews were completed in Dedoose and data analysis begun. IHPI began coding and analyzing the 2017 New Enrollee Survey data, along with data coding began for the 2017 HMV Current Enrollee Cohort 1 Follow-Up 1 Survey. Additionally,

IHPI programmed CATI system for the HMV Current Enrollee Cohort 2 Survey and Follow-Up Survey for the No Longer Enrolled Survey, as well as, trained interviewers and conducted sample selection and verification for both surveys. IHPI is in the process of data collection for the HMV Current Enrollee Cohort 2. Finally, IHPI completed the 2018 EBU interview guide, in addition to developing the 2018 EBU interview protocols.

### **Domains V/VI**

Domains V and VI entail analyzing data to assess the impacts of contribution requirements and the MI Health Account statements on beneficiary utilization of health care services, respectively. This quarter, IHPI completed revisions to the Domain V/VI report which incorporated additional analyses using the HMV survey data. Further, IHPI conducted the remaining analyses on the impacts of monthly contributions and MI Health Accounts. These analyses separated costs associated with monthly contributions and copays.

### **Domain VII**

Domain VII will evaluate the cost effectiveness of the HMP Marketplace Option (Marketplace Option). The Marketplace Option will not be implemented until April 2018. IHPI participated in monthly calls with MDHHS to keep abreast of the Marketplace Option implementation. Additionally, IHPI engaged in discussions regarding the utilization of the EDGE server data, as a potential source for member-level claims/encounter data for Marketplace Option enrollees. Thus, IHPI reviewed the EDGE server data dictionary to identify which tables would be needed for their analysis.

## **Enclosures/Attachments**

1. March 2018 Health Risk Assessment Report
2. February 2018 MCAC Minutes
3. April 2018 Performance Monitoring Report
4. April 2018 Performance Monitoring Report: Dental
5. April 2018 MI Health Account Executive Summary
6. Report on the 2016 Health Michigan Voice Enrollee Survey
7. Report on the 2016 Health Michigan Voice Enrollee Survey: Supplemental Analyses
8. Primary Care Practitioners' Views of the Impact of the Healthy Michigan Plan Report

## **State Contacts**

If there are any questions about the contents of this report, please contact one of the following people listed below.

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## **Date Submitted to CMS**

July 10, 2018

Michigan Department of Health and Human Services  
Medical Services Administration  
Bureau of Medicaid Care Management and Quality Assurance

*Healthy Michigan Plan - Health Risk Assessment Report*



March 2018

Produced by:

Quality Improvement and Program Development - Managed Care Plan Division

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| Selection of Health Risk Behaviors to Address                | 16 |



## Introduction

Pursuant to PA 107 of 2013, sections 105d(1)e and 105d(12), a Health Risk Assessment has been developed for the Healthy Michigan Plan (form DCH-1315). It is designed as a two part document, where the beneficiary completes the first three sections and the primary care provider completes the last section. It includes questions on a wide range of health issues, a readiness to change assessment, an annual physical exam and a discussion about behavior change with their primary care provider. The topics in the assessment cover all of the behaviors identified in PA 107 including alcohol use, substance use disorders, tobacco use, obesity and immunizations. It also includes the recommended healthy behaviors identified in the Michigan Health and Wellness 4X4 Plan, which are annual physicals, BMI, blood pressure, cholesterol and blood sugar monitoring, healthy diet, regular physical exercise and tobacco use.

## Health Risk Assessment Part 1

### Health Risk Assessments completion through Michigan ENROLLS

In February 2014, the enrollment broker for the Michigan Department of Health and Human Services (Michigan ENROLLS) began administering the first section of the Health Risk Assessment to Healthy Michigan Plan beneficiaries who call to enroll in a health plan. In addition to asking new beneficiaries all of the questions in Section 1 of the Health Risk Assessment, call center staff inform beneficiaries that an annual preventive visit, including completion of the last three sections of the Health Risk Assessment, is a covered benefit of the Healthy Michigan Plan.

Completion of the Health Risk Assessment is voluntary; callers may refuse to answer some or all of the questions. Beneficiaries who are auto-assigned into a health plan are not surveyed. Survey results from Michigan ENROLLS are electronically transmitted to the appropriate health plan on a monthly basis to assist with outreach and care management.

The data displayed in Part 1 of this report reflect the responses to questions 1-9 of Section 1 of the Health Risk Assessment completed through Michigan ENROLLS. As shown in Table I, a total of 374,331 Health Risk Assessments were completed through Michigan ENROLLS as of March 2018. This represents a completion rate of 95.15%. Responses are reported in Tables 1 through 9. Beneficiaries who participated in the Health Risk Assessment but refused to answer specific questions are included in the total population and their answers are reported as "Refused". Responses are also reported by age and gender.

# Health Risk Assessment Completion through Michigan ENROLLS

**Table I. Count of Health Risk Assessments (HRA) Questions 1-9 Completed with MI Enrolls**

| MONTH          | COMPLETE | DECLINED       |
|----------------|----------|----------------|
| April 2017     | 319,185  | 15,340 (4.59%) |
| May 2017       | 324,288  | 15,755 (4.63%) |
| June 2017      | 329,836  | 16,298 (4.71%) |
| July 2017      | 334,087  | 16,698 (4.76%) |
| August 2017    | 338,369  | 17,141 (4.82%) |
| September 2017 | 342,855  | 17,568 (4.87%) |
| October 2017   | 346,575  | 17,948 (4.92%) |
| November 2017  | 350,758  | 18,337 (4.97%) |
| December 2017  | 355,761  | 18,837 (5.03%) |
| January 2018   | 362,506  | 18,838 (4.94%) |
| February 2018  | 368,866  | 19,056 (4.91%) |
| March 2018     | 374,331  | 19,066 (4.85%) |

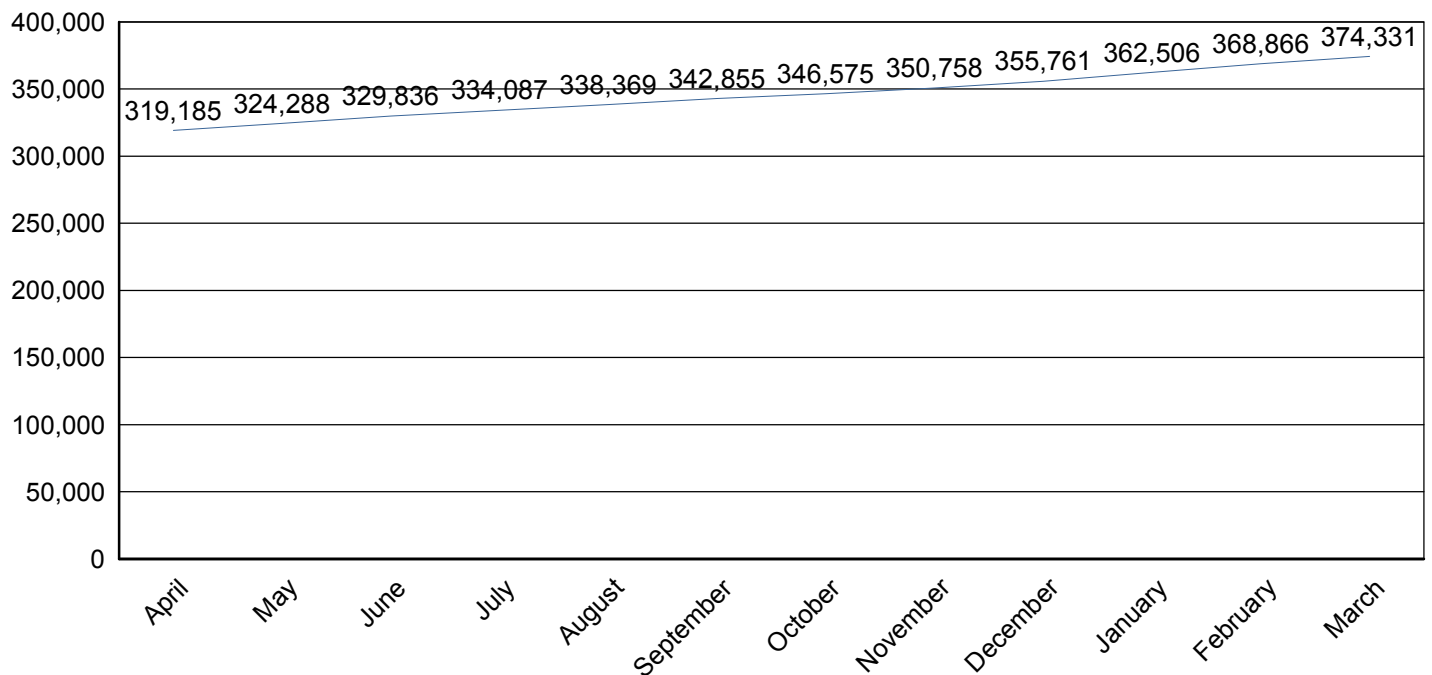
**Table 11. Demographics of Population that Completed HRA Questions 1-9 with MI ENROLLS**

January 2014 - March 2018

| AGE GROUP      | COMPLETED HRA  |                |
|----------------|----------------|----------------|
| 19 - 29        | 81,518         | 21.78%         |
| 30 - 39        | 83,045         | 22.19%         |
| 40 - 49        | 73,400         | 19.61%         |
| 50 - 59        | 88,958         | 23.77%         |
| 60 +           | 47,410         | 12.67%         |
| <b>GENDER</b>  |                |                |
|                | 828            | 0.22%          |
| F              | 200,514        | 53.57%         |
| M              | 172,989        | 46.21%         |
| <b>FPL</b>     |                |                |
| < 100% FPL     | 314,329        | 83.97%         |
| 100 - 133% FPL | 60,002         | 16.03%         |
| <b>TOTAL</b>   | <b>374,331</b> | <b>100.00%</b> |

**Figure I-1. Health Risk Assessments Completed with MI ENROLLS**

March 2018



## Question 1. General Health Rating

Question 1. In general, how would you rate your health? This question is used to assess self-reported health status. Healthy Michigan Plan enrollees were given the answer options of excellent, very good, good, fair or poor. Table 1 shows the overall answers to this question for March 2018. Among enrollees who completed the survey, this question had a 0.16% refusal rate. Figures 1-1 through 1-3 show the health rating reported for the total population, and by age and gender.

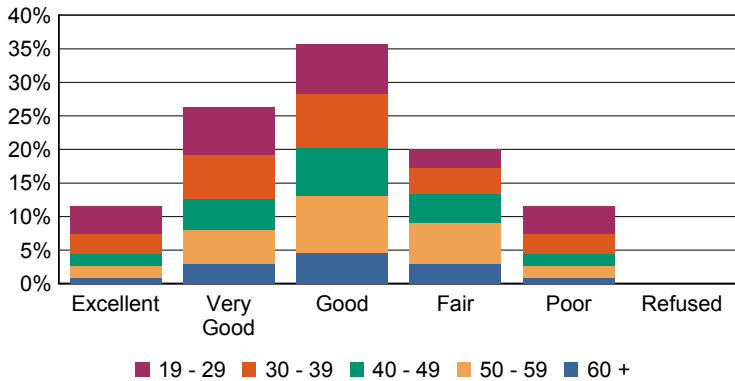
**Table 1. Health Rating for Total Population  
March 2018**

| HEALTH RATING | TOTAL          | PERCENT        |
|---------------|----------------|----------------|
| Excellent     | 43,183         | 11.54%         |
| Very Good     | 98,252         | 26.25%         |
| Good          | 133,571        | 35.68%         |
| Fair          | 74,870         | 20.00%         |
| Poor          | 23,859         | 6.37%          |
| Refused       | 596            | 0.16%          |
| <b>TOTAL</b>  | <b>374,331</b> | <b>100.00%</b> |

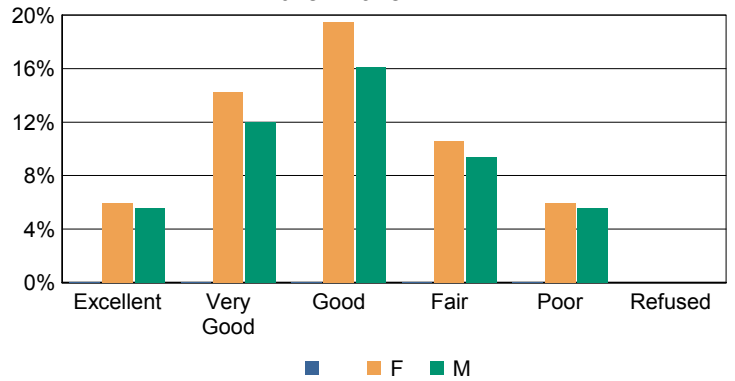
**Figure 1-1. Health Rating for Total Population  
March 2018**



**Figure 1-2. Health Rating by Age  
March 2018**



**Figure 1-3. Health Rating by Gender  
March 2018**

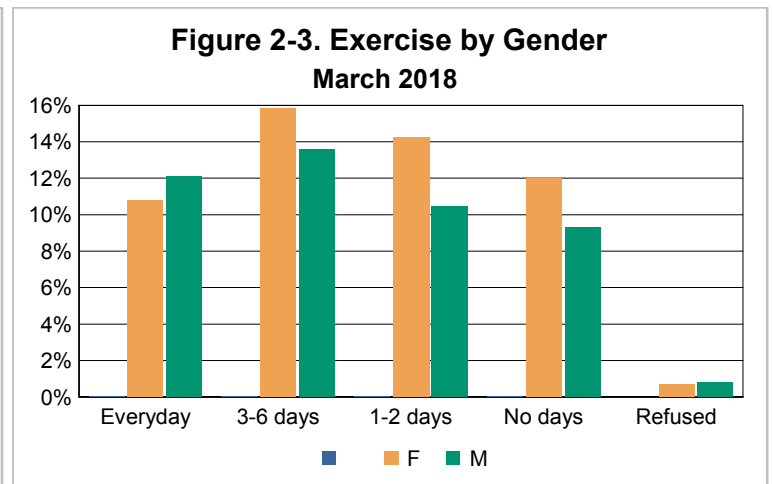
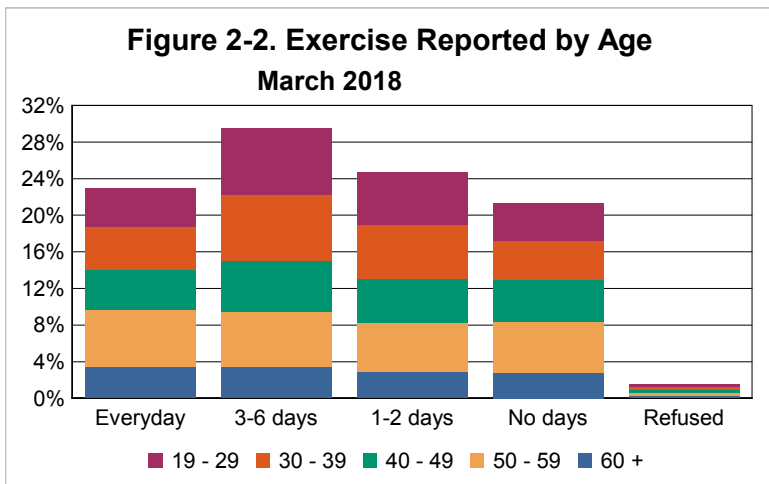
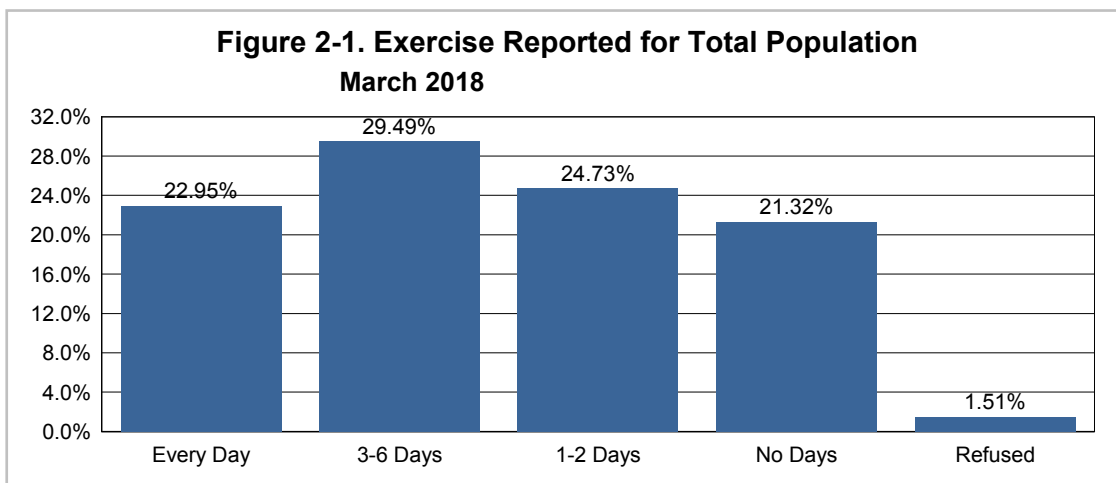


## Question 2. Exercise

Question 2. In the last 7 days, how often did you exercise for at least 20 minutes a day? This question is used to assess self-reported exercise frequency as an important component of maintaining a healthy weight. Healthy Michigan Plan enrollees were given the answer options of every day, 3-6 days, 1-2 days or 0 days. Table 2 shows the overall answers to this question for March 2018. Among enrollees who participated in the survey, there was a 1.51% refusal rate for this question. Figures 2-1 through 2-3 show the exercise frequency reported for the total population, by age and gender.

**Table 2. Exercise Reported for Total Population  
March 2018**

| EXERCISE     | TOTAL          | PERCENT        |
|--------------|----------------|----------------|
| Every Day    | 85,891         | 22.95%         |
| 3-6 Days     | 110,393        | 29.49%         |
| 1-2 Days     | 92,586         | 24.73%         |
| No Days      | 79,813         | 21.32%         |
| Refused      | 5,648          | 1.51%          |
| <b>TOTAL</b> | <b>374,331</b> | <b>100.00%</b> |

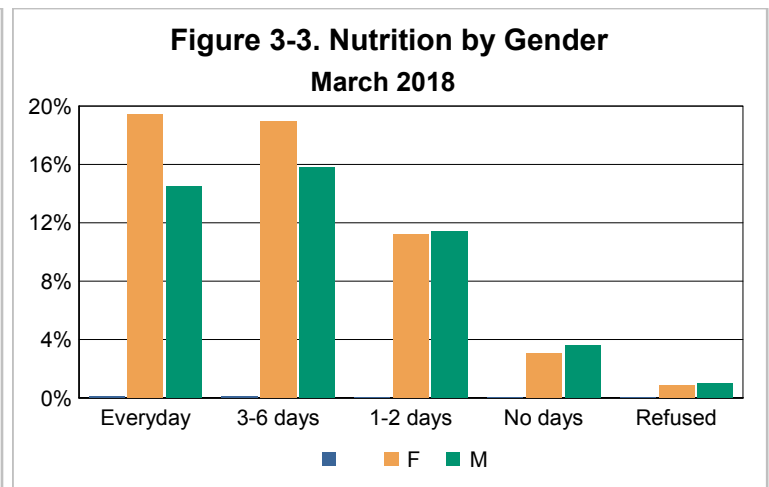
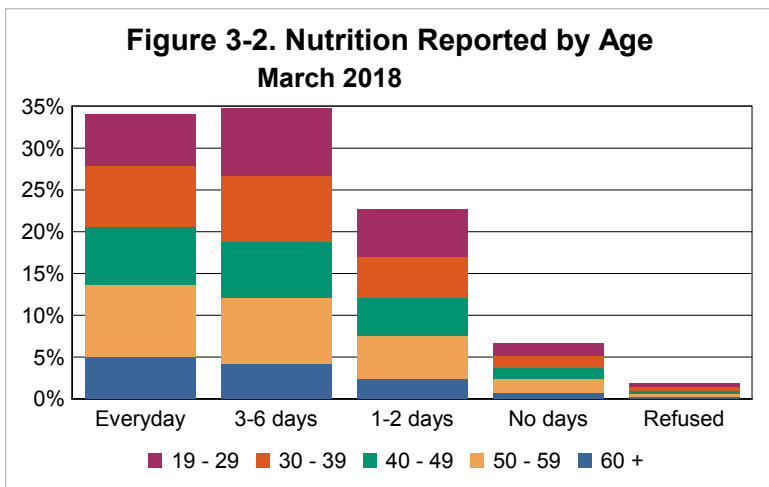
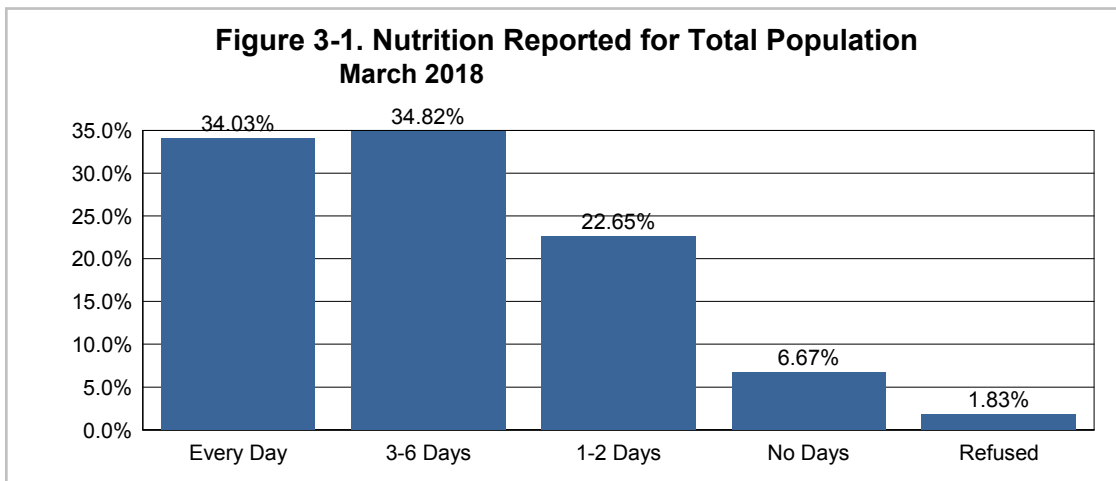


## Question 3. Nutrition (Fruits and Vegetables)

Question 3. In the last 7 days, how often did you eat 3 or more servings of fruits or vegetables in a day? This question is used to assess self-reported nutrition as an important component of maintaining a healthy weight. Healthy Michigan Plan enrollees were given the answer options of every day, 3-6 days, 1-2 days or 0 days. Table 3 shows the overall answers to this question for March 2018. Among enrollees who participated in the survey, there was a 1.83% refusal rate for this question. Figures 3-1 through 3-3 show the nutrition reported for the total population, and by age and gender.

**Table 3. Nutrition Reported for Total Population  
March 2018**

| NUTRITION    | TOTAL          | PERCENT        |
|--------------|----------------|----------------|
| Every Day    | 127,381        | 34.03%         |
| 3-6 Days     | 130,344        | 34.82%         |
| 1-2 Days     | 84,783         | 22.65%         |
| No Days      | 24,961         | 6.67%          |
| Refused      | 6,862          | 1.83%          |
| <b>TOTAL</b> | <b>374,331</b> | <b>100.00%</b> |

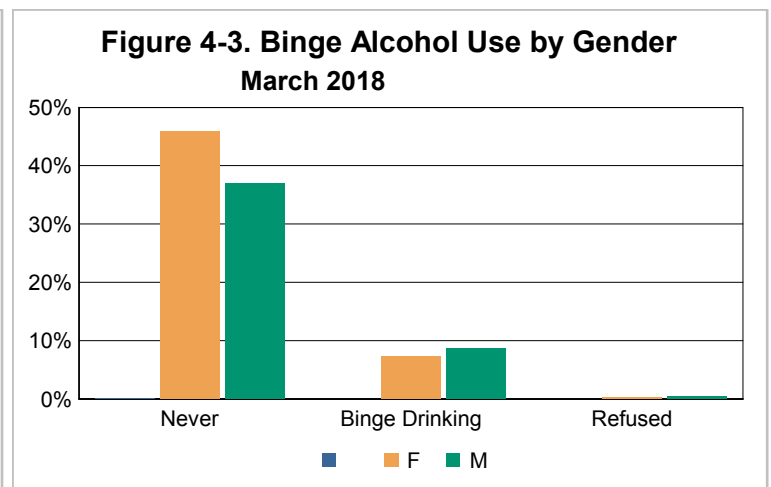
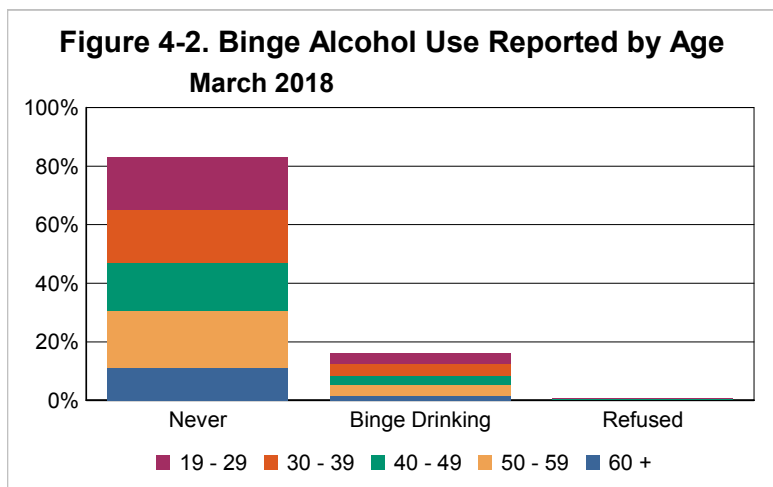
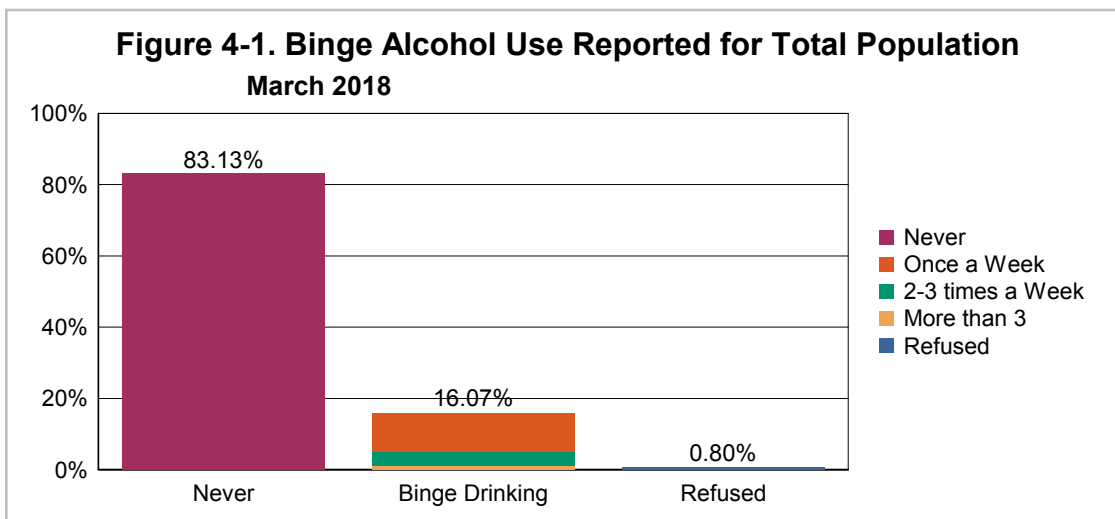


## Question 4. Binge Alcohol Use

Question 4. In the last 7 days, how often did you have (5 or more for men, 4 or more for women) alcoholic drinks at one time? This question is used to assess self-reported binge alcohol use. Healthy Michigan Plan enrollees were given the answer options of never, once a week, 2-3 a week and more than 3 times during the week. Table 4 shows the combined overall answers to these questions for March 2018. Among enrollees who participated in the survey, there was a 0.80% refusal rate for this question. Figures 4-1 through 4-3 show binge alcohol use status reported for the total population, and by age and gender.

**Table 4. Binge Alcohol Use Reported for Total Population  
March 2018**

| ALCOHOL          | TOTAL          | PERCENT        |
|------------------|----------------|----------------|
| Never            | 311,185        | 83.13%         |
| Once a Week      | 40,880         | 10.92%         |
| 2-3 times a Week | 15,641         | 4.18%          |
| More than 3      | 3,621          | 0.97%          |
| Refused          | 3,004          | 0.80%          |
| <b>TOTAL</b>     | <b>374,331</b> | <b>100.00%</b> |

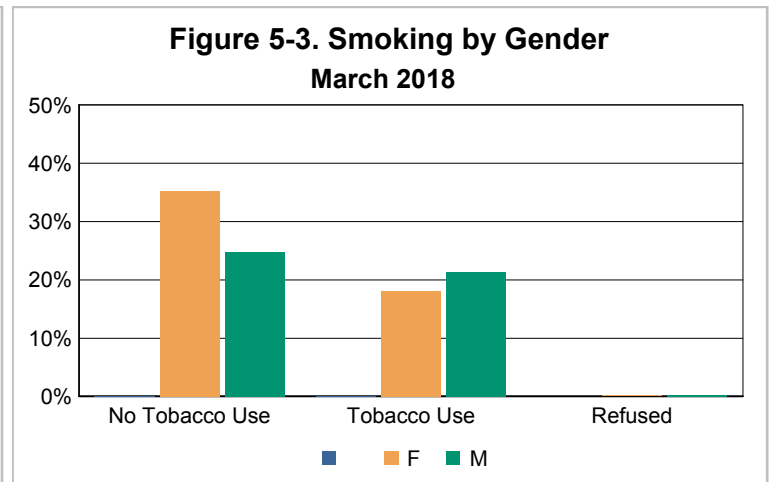
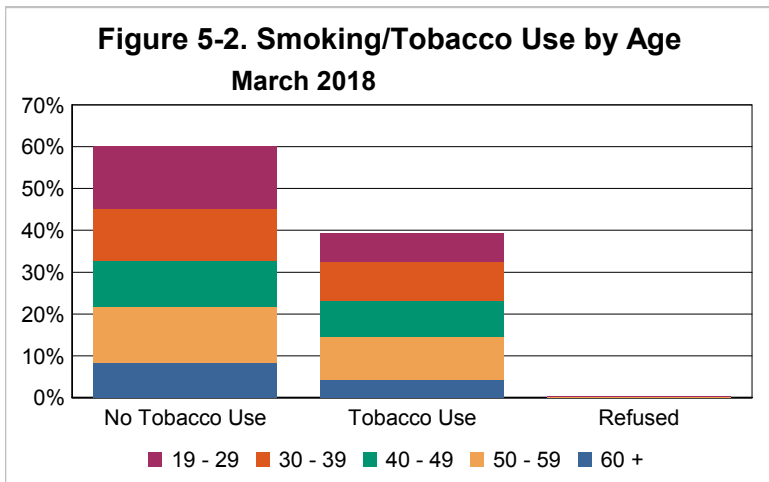
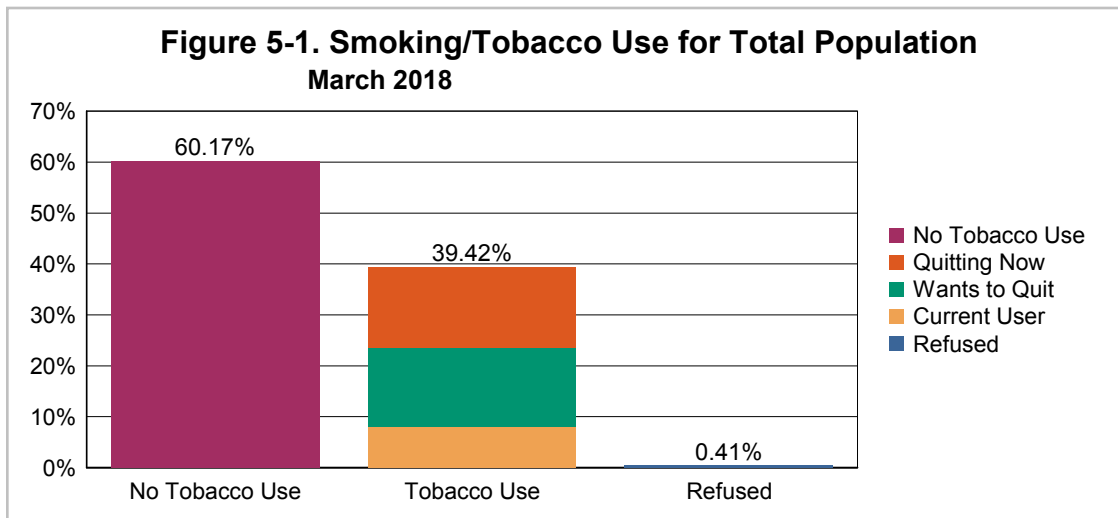


## Question 5. Smoking/Tobacco Use

Question 5. In the last 30 days, have you smoked or used tobacco? This question is used to assess self-reported smoking/tobacco use. Healthy Michigan Plan enrollees were given the answer options of yes or no. Enrollees who answered yes, were asked a follow-up question: If YES, do you want to quit smoking or using tobacco? For this follow-up question, enrollees were given the answer options of yes, I am working on quitting or cutting back right now and no. Table 5 shows the combined overall answers to these questions for March 2018. Question 5 had a 0.41% refusal rate. Figures 5-1 through 5-3 show smoking/tobacco use reported for the total population, and by age and gender.

**Table 5. Smoking/Tobacco Use Reported for Total Population  
March 2018**

| TOBACCO USE    | TOTAL          | PERCENT        |
|----------------|----------------|----------------|
| No Tobacco Use | 225,221        | 60.17%         |
| Quitting Now   | 59,127         | 15.80%         |
| Wants to Quit  | 58,487         | 15.62%         |
| Current User   | 29,963         | 8.00%          |
| Refused        | 1,533          | 0.41%          |
| <b>TOTAL</b>   | <b>374,331</b> | <b>100.00%</b> |



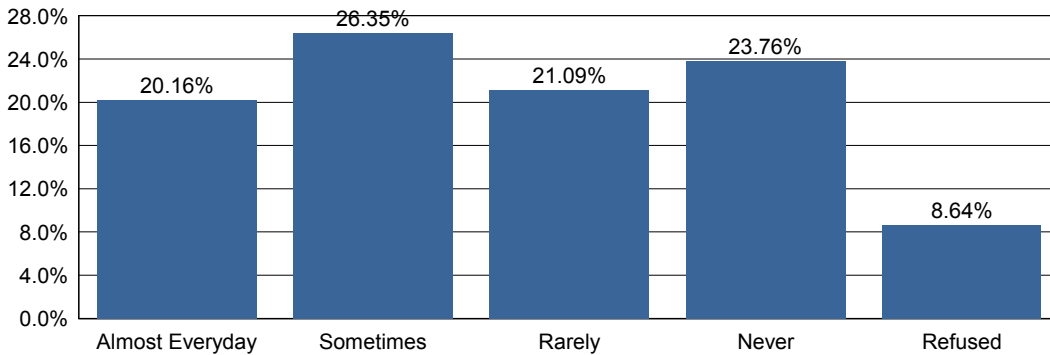
## Question 6. Anxiety and Depression

Question 6. In the last 30 days, how often have you felt tense, anxious or depressed? This question is used to assess self-reported mental health status. Healthy Michigan Plan enrollees were given the answer options of almost every day, sometimes, rarely and never. Table 6 shows the overall answers to this question for March 2018. Among enrollees who participated in the survey, there was a 8.64% refusal rate for this question. Figures 6-1 through 6-3 show anxiety and depression reported for the total population, and by age and gender.

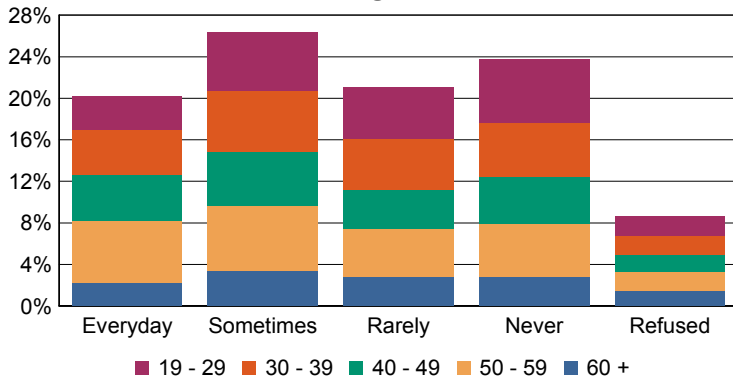
**Table 6. Anxiety and Depression Reported for Total Population  
March 2018**

| DEPRESSION       | TOTAL          | PERCENT        |
|------------------|----------------|----------------|
| Almost Every day | 75,463         | 20.16%         |
| Sometimes        | 98,621         | 26.35%         |
| Rarely           | 78,965         | 21.10%         |
| Never            | 88,928         | 23.76%         |
| Refused          | 32,354         | 8.64%          |
| <b>TOTAL</b>     | <b>374,331</b> | <b>100.00%</b> |

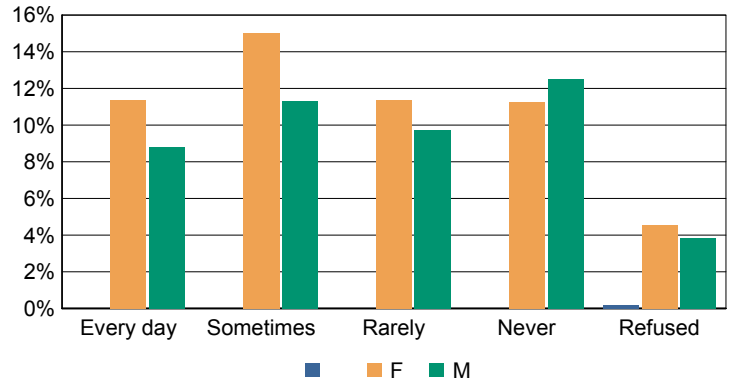
**Figure 6-1. Anxiety and Depression Reported for Total Population  
March 2018**



**Figure 6-2. Anxiety and Depression Reported by  
March 2018 Age**



**Figure 6-3. Anxiety and Depression by Gender  
March 2018**



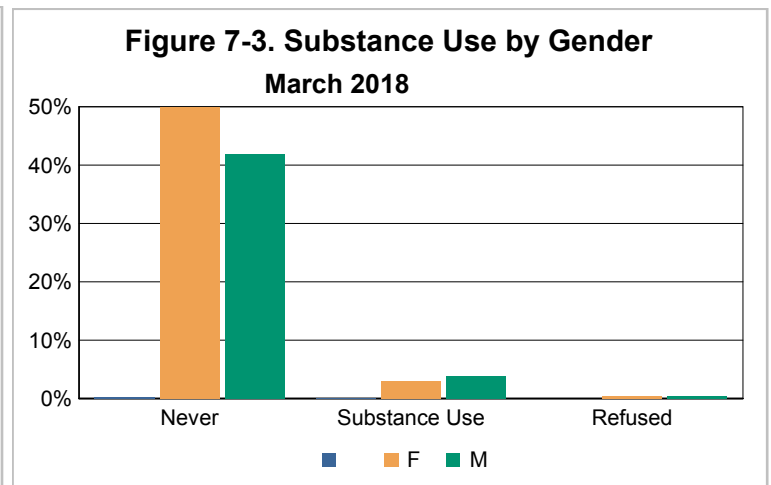
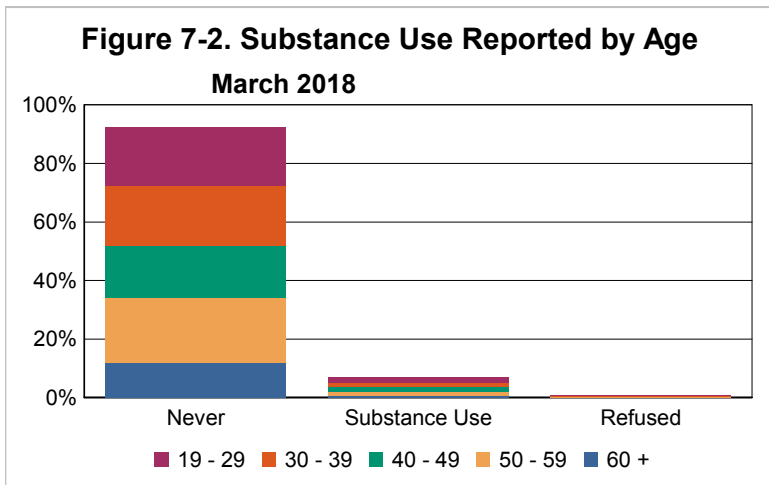
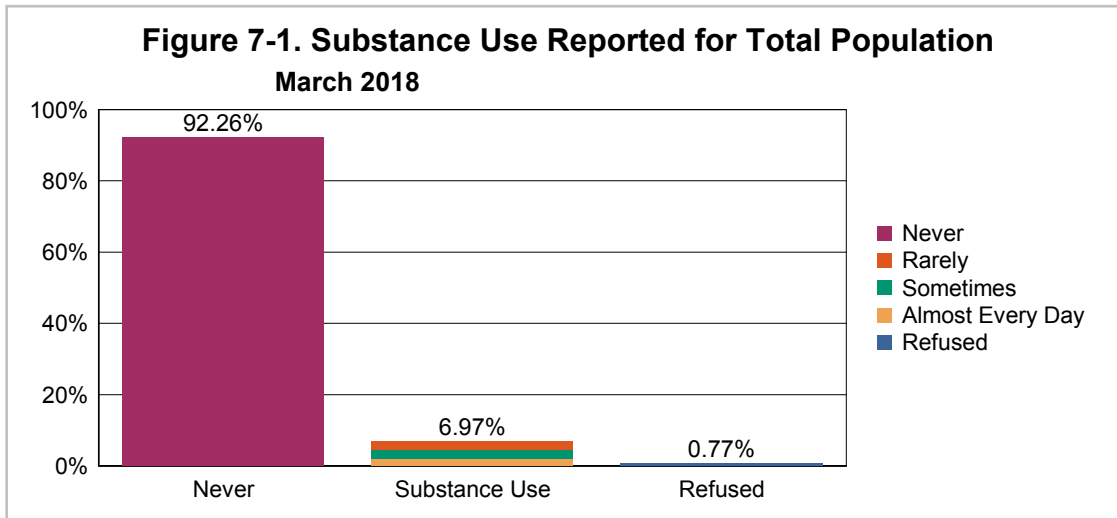


## Question 7. Drugs and Substance Use

Question 7. Do you use drugs or medications (other than exactly as prescribed for you) which affect your mood or help you to relax? This question is used to assess self-reported substance use. Healthy Michigan Plan enrollees were given the answer options of almost every day, sometimes, rarely and never. Table 7 shows the overall answers to this question for March 2018. Among enrollees who participated in the survey, there was a 0.77% refusal rate for this question. Figures 7-1 through 7-3 show substance use reported for the total population, and by age and gender.

**Table 7. Substance Use Reported for Total Population  
March 2018**

| SUBSTANCE USE    | TOTAL          | PERCENT        |
|------------------|----------------|----------------|
| Almost Every Day | 7,303          | 1.95%          |
| Sometimes        | 9,724          | 2.60%          |
| Rarely           | 9,080          | 2.43%          |
| Never            | 345,350        | 92.26%         |
| Refused          | 2,874          | 0.77%          |
| <b>TOTAL</b>     | <b>374,331</b> | <b>100.00%</b> |



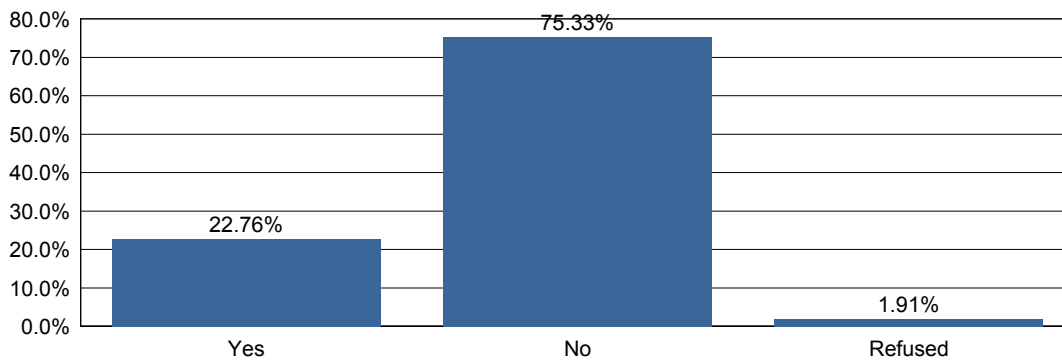
## Question 8. Immunization Status (Annual Flu Vaccine)

Question 8. The flu vaccine can be a shot in the arm or a spray in the nose. Have you had a flu shot or flu spray in the last year? This question is used to assess self-reported annual flu vaccine as an indicator of immunization status. Healthy Michigan Plan enrollees were given the answer options of yes or no. Table 8 shows the overall answers to this question for March 2018. Among enrollees who participated in the survey, there was a 1.91% refusal rate for this question. Figures 8-1 through 8-3 show immunization status reported for the total population, and by age and gender.

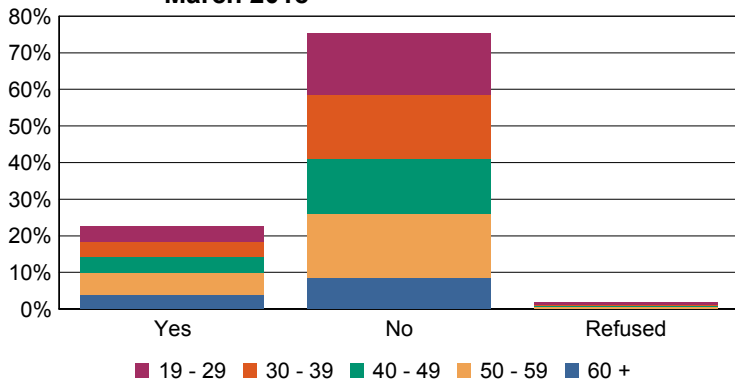
**Table 8. Immunization Status Reported for Total Population  
March 2018**

| IMMUNIZATION | TOTAL          | PERCENT        |
|--------------|----------------|----------------|
| Yes          | 85,195         | 22.76%         |
| No           | 281,975        | 75.33%         |
| Refused      | 7,161          | 1.91%          |
| <b>TOTAL</b> | <b>374,331</b> | <b>100.00%</b> |

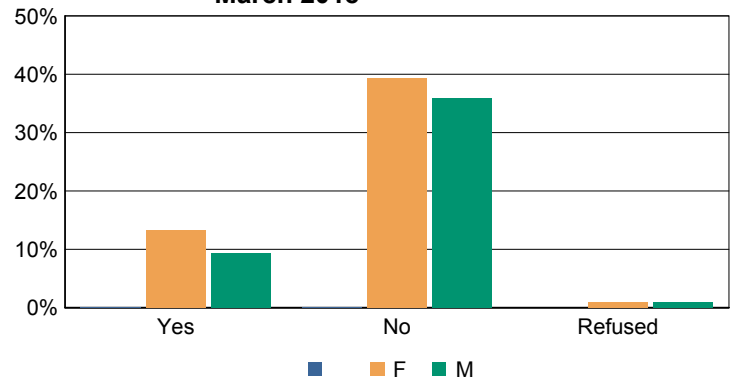
**Figure 8-1. Immunization Status Reported for Total Population  
March 2018**



**Figure 8-2. Immunization Status Reported by Age  
March 2018**



**Figure 8-3. Immunization Status by Gender  
March 2018**

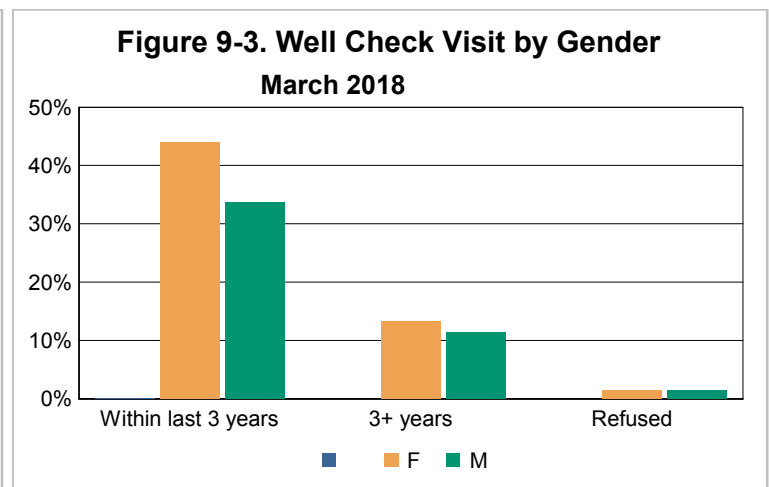
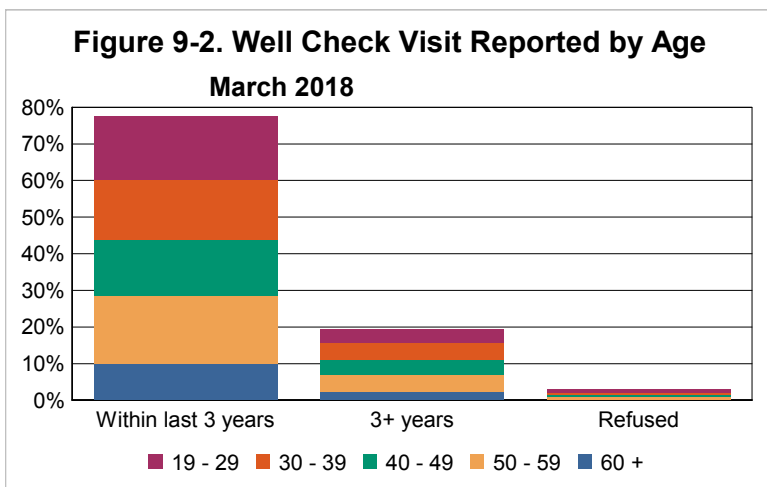
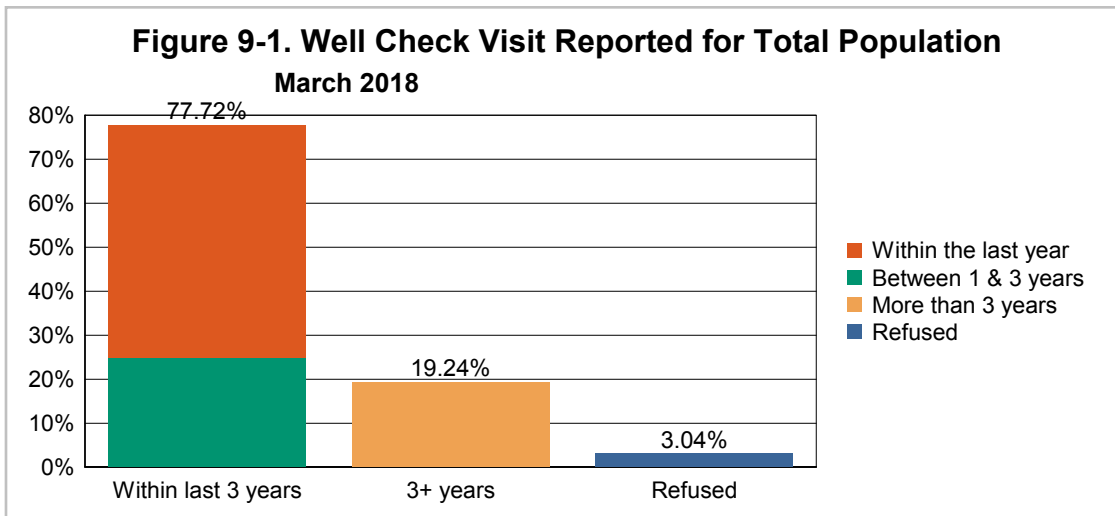


## Question 9. Well Check Visit

Question 9. A checkup is a visit to a doctor's office that is NOT for a specific problem. How long has it been since your last check-up? This question is used to assess self-reported well check visit. Healthy Michigan Plan enrollees were given the answer options of within the last year, between 1-3 years and more than 3 years. Table 9 shows the overall answers to this question for March 2018. Among enrollees who participated in the survey, there was a 3.04% refusal rate for this question. Figures 9-1 through 9-3 show well check visit reported for the total population, and by age and gender.

**Table 9. Well Check Visit Reported for Total Population  
March 2018**

| CHECK-UP             | TOTAL          | PERCENT        |
|----------------------|----------------|----------------|
| Within the last year | 198,252        | 52.96%         |
| Between 1 & 3 years  | 92,681         | 24.76%         |
| More than 3 years    | 72,031         | 19.24%         |
| Refused              | 11,367         | 3.04%          |
| <b>TOTAL</b>         | <b>374,331</b> | <b>100.00%</b> |



## Health Risk Assessment Part 2

### Health Risk Assessments completion with Primary Care Provider

In April 2014, the Healthy Michigan Plan was launched, and an initial preventive health visit to a primary care provider was promoted for all new beneficiaries. Beneficiaries were also encouraged to complete the last section of the Health Risk Assessment at this initial appointment. This final section of the Health Risk Assessment is completed jointly by beneficiaries and their primary care provider. It is designed as a tool for identifying annual health behavior goals.

Completion of this section of the Health Risk Assessment is also voluntary. Healthy Michigan Plan Beneficiaries who complete a Health Risk Assessment with a primary care provider attestation and agree to maintain or address healthy behaviors are eligible for an incentive. Of the 974,306 beneficiaries who have been enrolled in a health plan for at least six months, 181,656 or 18.6% have completed the Health Risk Assessment with their primary care provider as of March 2018.

The data displayed in Part 2 of this report reflect the healthy behavior goals selected jointly by Healthy Michigan Plan beneficiaries and their primary care provider in the final section of the Health Risk Assessment. As shown in Table 10, a total of 243,239 Health Risk Assessments were completed with primary care providers as of March 2018. Health Risk Assessment completion is reported by age, gender and Federal Poverty Level in Table 11.

Among beneficiaries who completed the Health Risk Assessment, 208,651 or 85.8% of beneficiaries agreed to address health risk behaviors. In addition, 32,506 or 13.4% of beneficiaries who completed the Health Risk Assessment chose to maintain current healthy behaviors, meaning that 99.1% of beneficiaries are choosing to address or maintain healthy behaviors. The healthy behaviors goal statements selected are reported in Table 12. Healthy behavior goal statements are also reported by age and gender in Figures 10-3 and 10-4.

Of the 208,651 beneficiaries who agreed to address health risk behaviors, 60.3% chose to address more than one healthy behavior. Tables 13 and 14 report the most frequently selected health risk behaviors to address, alone and in combination. Figure 10-5 is a Venn diagram representing the overlapping nature of the multiple healthy behaviors selected.

## Health Risk Assessment Completion with Primary Care Provider

**Table 10. Count of Health Risk Assessments (HRA) Completed with Primary Care Provider by Attestation**

| MONTH          | COMPLETE | TOTAL   |
|----------------|----------|---------|
| April 2017     | 5,770    | 191,699 |
| May 2017       | 6,008    | 197,786 |
| June 2017      | 4,983    | 202,845 |
| July 2017      | 4,700    | 207,594 |
| August 2017    | 5,871    | 213,527 |
| September 2017 | 4,682    | 218,264 |
| October 2017   | 5,110    | 223,420 |
| November 2017  | 4,503    | 227,952 |
| December 2017  | 4,434    | 232,435 |
| January 2018   | 5,361    | 237,857 |
| February 2018* | 3,436    | 241,359 |
| March 2018*    | 1,876    | 243,239 |

\*Many completed HRAs for this month have not yet been submitted.

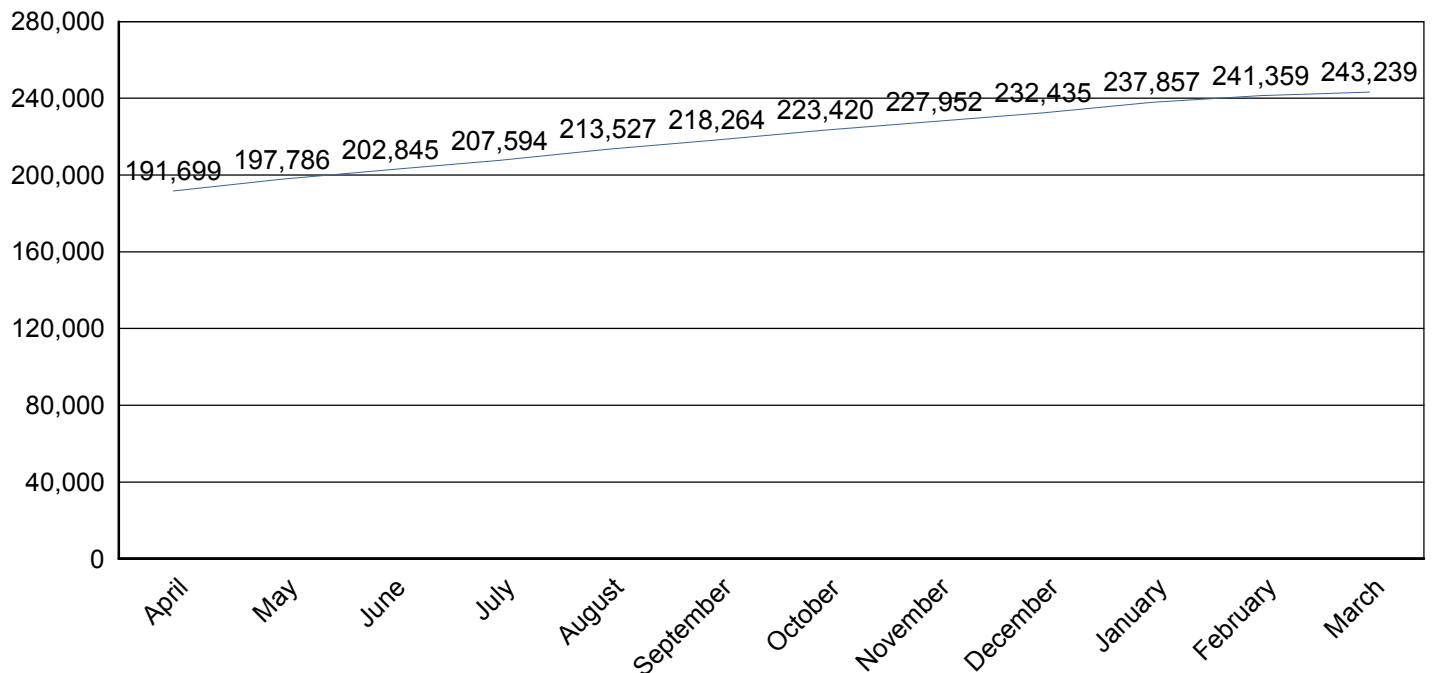
**Table 11. Demographics of Population that Completed HRA with Primary Care Provider**

September 2014 - March 2018

| AGE GROUP      | COMPLETED HRA  |                |
|----------------|----------------|----------------|
| 19 - 29        | 46,232         | 19.01%         |
| 30 - 39        | 44,205         | 18.17%         |
| 40 - 49        | 45,256         | 18.61%         |
| 50 - 59        | 67,689         | 27.83%         |
| 60 +           | 39,857         | 16.39%         |
| GENDER         |                |                |
| F              | 139,573        | 57.38%         |
| M              | 103,666        | 42.62%         |
| FPL            |                |                |
| < 100% FPL     | 201,351        | 82.78%         |
| 100 - 133% FPL | 41,888         | 17.22%         |
| TOTAL          | <b>243,239</b> | <b>100.00%</b> |

**Figure 10-1. Health Risk Assessments Completed with Primary Care Provider**

March 2018



## Healthy Behaviors Statement Selection

Section 4. Healthy Behaviors: In discussion with the beneficiary, primary care providers choose between 4 statements to attest to the healthy behaviors goals that the beneficiary will strive for this year. The 4 statements are:

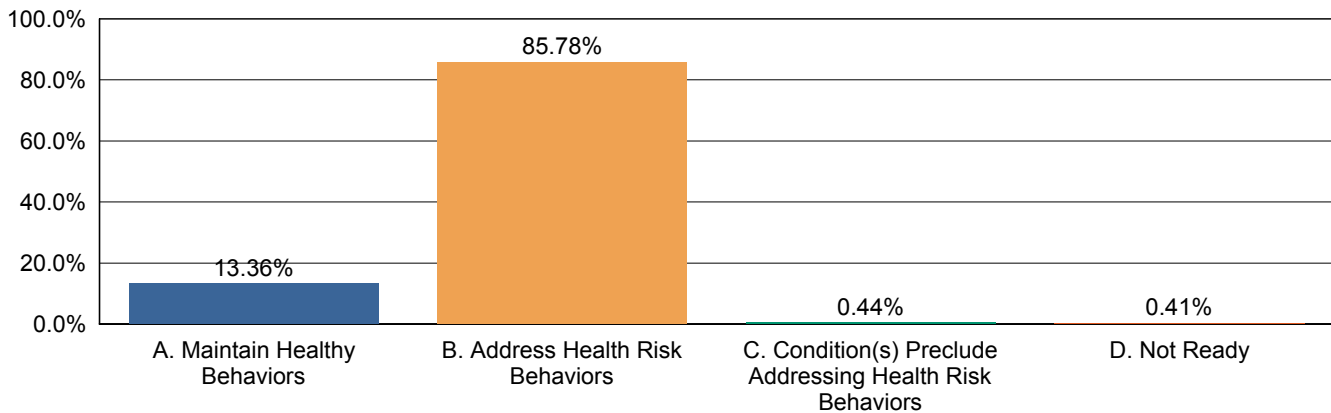
- A. Patient does not have health risk behaviors that need to be addressed at this times
- B. Patient has identified at least one behavior to address over the next year to improve their health
- C. Patient has a serious medical, behavioral or social condition or conditions which precludes addressing unhealthy behaviors at this time.
- D. Unhealthy behaviors have been identified, patient’s readiness to change has been assessed, and patient is not ready to make changes at this time.

Figures 10-2 through 10-4 show Healthy Behaviors Statement Selections for the total population, and by age and gender.

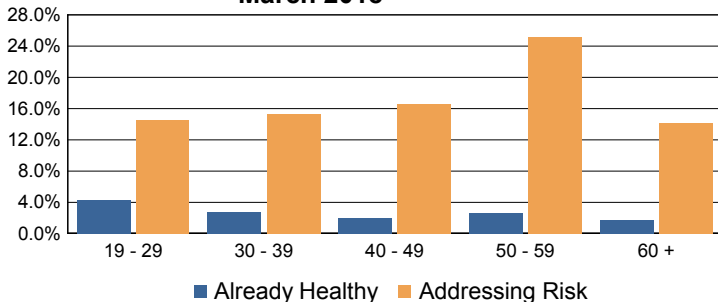
**Table 12. Healthy Behaviors Statement Selection  
March 2018**

| CHECK-UP  | TOTAL          | PERCENT        |
|---|----------------|----------------|
| A. Maintain Healthy Behaviors                             | 32,506         | 13.36%         |
| B. Address Health Risk Behaviors                          | 208,651        | 85.78%         |
| C. Condition(s) Preclude Addressing Health Risk Behaviors | 1,075          | 0.44%          |
| D. Not Ready  | 1,007          | 0.41%          |
| <b>TOTAL</b>  | <b>243,239</b> | <b>100.00%</b> |

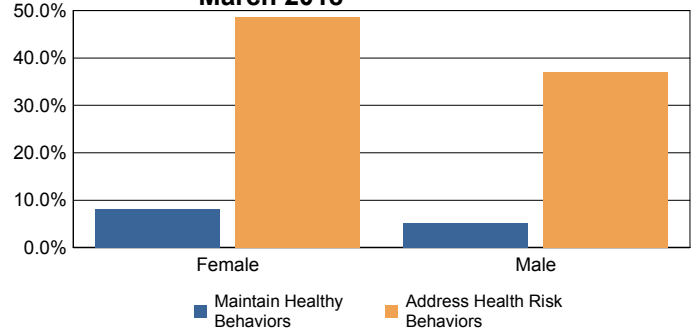
**Figure 10-2. Healthy Behaviors Statement Selection  
March 2018**



**Figure 10-3. Maintain or Addressing Health Risk Behaviors Statement Selection by Age  
March 2018**



**Figure 10-4. Statement Selection by Gender  
March 2018**



## Selection of Health Risk Behaviors to Address

Section 4. Healthy Behaviors: In discussion with the beneficiary, when Statement B, "Patient has identified at least one behavior they intend to address over the next year to improve their health" is selected, providers choose one or more of the following 7 statements to identify the healthy behaviors the beneficiary has chosen to address for the year:

1. Increase physical activity, Learn more about nutrition and improve diet, and/or weight loss
2. Reduce/quit tobacco use
3. Annual Influenza vaccine
4. Agrees to follow-up appointment for screening or management (if necessary) of hypertension, cholesterol and/or diabetes
5. Reduce/quit alcohol consumption
6. Treatment for Substance Use Disorder
7. Other: explain \_\_\_\_\_

Of the 208,651 HRAs submitted through March 2018 where the beneficiary chose to address health risk behaviors, 60.27% of beneficiaries chose more than one healthy behavior to address. The top 7 most selected behavior combinations and the rate that each behavior was selected in combination and alone are presented in the tables below:

**Table 13. Top 7 Most Selected Health Risk Behavior Combinations**

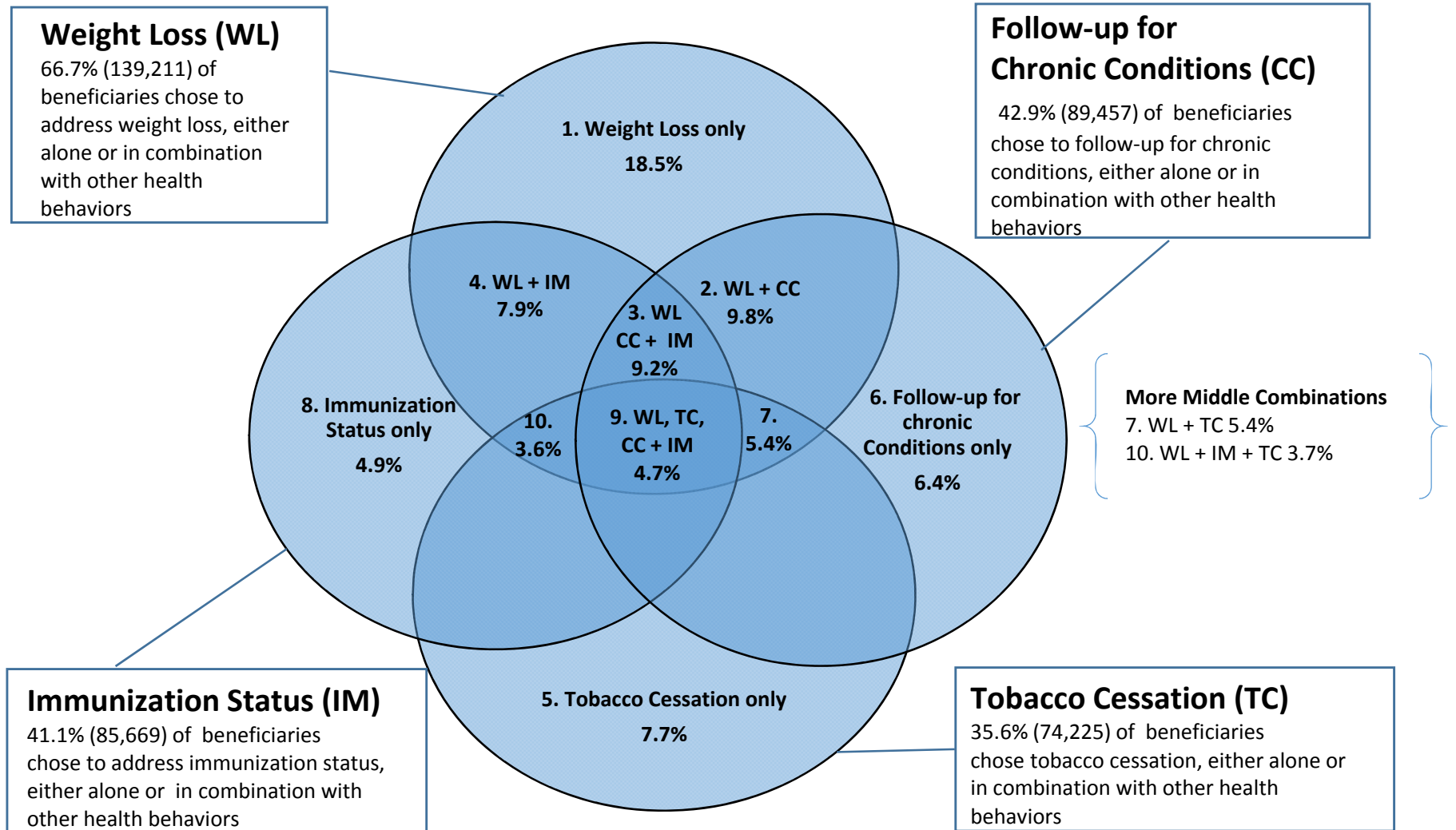
| Health Risk Behavior Combination                                      | Count          | Percent        |
|---|----------------|----------------|
| 1. Weight Loss ONLY   | 38,676         | 18.54%         |
| 2. Weight Loss, Follow-up for Chronic Conditions                      | 20,456         | 9.80%          |
| 3. Weight Loss, Immunization Status, Follow-up for Chronic Conditions | 19,196         | 9.20%          |
| 4. Weight Loss, Immunization Status                                   | 16,431         | 7.88%          |
| 5. Tobacco Cessation ONLY   | 16,100         | 7.72%          |
| 6. Follow-up for Chronic Conditions                                   | 13,294         | 6.37%          |
| 7. Weight Loss, Tobacco Cessation                                     | 11,172         | 5.35%          |
| Total for Top 7   | 135,325        | 64.86%         |
| Total for All Other Combinations                                      | 73,326         | 35.14%         |
| <b>Total</b>  | <b>208,651</b> | <b>100.00%</b> |

**Table 14. Health Risk Behaviors Selected in Combination and Alone**

| Health Risk Behavior                     | Chose this behavior and at least one more | Chose ONLY this behavior |
|--|---|--------------------------|
| Weight Loss                              | 66.72%                                    | 18.54%                   |
| Tobacco Cessation                        | 35.57%                                    | 7.72%                    |
| Immunization Status (Annual Flu Vaccine) | 41.06%                                    | 4.93%                    |
| Follow-up for Chronic Conditions         | 42.87%                                    | 6.37%                    |
| Addressing Alcohol Abuse                 | 4.21%                                     | 0.34%                    |
| Addressing Substance Abuse               | 1.12%                                     | 0.10%                    |
| Other                                    | 4.32%                                     | 1.73%                    |

## Health Risk Assessment Completion with Primary Care Provider

Representation of the overlapping nature of top 10 health risk behavior selections March 2018







Michigan Department of  
Health & Human Services

RICK SNYDER, GOVERNOR  
NICK LYON, DIRECTOR

Michigan Department of Health and Human Services  
Medical Services Administration

## Medical Care Advisory Council

### Meeting Minutes

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**Date:** Thursday, February 22, 2018

**Time:** 1:00 p.m. – 4:30 p.m.

**Where:** Michigan Public Health Institute (MPHI)  
2436 Woodlake Circle, Suite 380  
Okemos, MI 48864

**Attendees:** **Council Members:** Emily Schwarzkopf, Deb Brinson, Barry Cargill, Mark Klammer, Alison Hirschel, Amy Zaagman, Bill Mayer, Meghan Swain, Jeff Towns, April Stopczynski, Dan Thompson, Michelle Best (on behalf of Amy Hundley), Travar Pettway, Marion Owen, Dianne Haas, Linda Vail, Vicki Kunz (on behalf of Marilyn Litka-Klein), Melissa Samuel, Karlene Ketola, Lisa Dedden Cooper, Kim Singh, Jane Phillips (on behalf of Jim Milanowski), Bobbi Kuyers (on behalf of Dave Herbel), Stacie Saylor (on behalf of Rebecca Blake)

**Staff:** Kathy Stiffler, Farah Hanley, Lynda Zeller, Erin Emerson, Dick Miles, Brian Keisling, Jackie Prokop, Marie LaPres, Dave Schneider, Philip Bergquist, Phil Kurdunowicz

**Other Attendees:** Jane Pilditch, Salli Pung, Mario Azzi, Kelly Bidelman

### **Welcome, Introductions, Announcements**

Emily Schwarzkopf opened the meeting and introductions were made.

### **Federal Update**

#### **Children's Health Insurance Program (CHIP) Reauthorization**

Kathy Stiffler announced that congress has reauthorized CHIP for an additional 10 years.

### **Federal Budget**

President Trump has released his FY19 federal budget recommendation, which includes a proposed 22.5% reduction in funding for Medicaid and the provisions of the Affordable Care Act (ACA) by 2028 and a proposed 28% reduction in funding for the Supplemental Nutrition Assistance Program (SNAP), as well as several other proposed reductions in non-defense discretionary spending. Meeting attendees were advised that approval for the proposed budget is a lengthy process, and that the Michigan Department of Health and Human Services (MDHHS) will not take any action on proposed funding levels until they are finalized.

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### **Centers for Medicare & Medicaid Services (CMS) State Medicaid Director Letter – Opportunities to Promote Work and Community Engagement Among Medicaid Beneficiaries**

CMS has issued a letter to State Medicaid Directors to indicate that states now have the option to submit Section 1115 waiver requests to implement work requirements as a condition of Medicaid eligibility, a copy of which was distributed to meeting attendees. Ten states have submitted Section 1115 waiver requests under this guidance to date, though MDHHS has no plans to do so at this time pending further direction from department leadership and the state legislature. MDHHS staff and meeting attendees discussed at length the many potential implications of implementing Medicaid work requirements, including concerns about the large staff and resource commitment that would be needed to monitor the employment status of Medicaid beneficiaries.

### **Budget Update**

#### **2019 Budget Update**

The FY 2019 executive budget recommendation was released on February 7, 2018 and reflects a 0.6% increase in total statewide spending from FY 2018, including a 0.1% increase in general fund (GF) expenditures. The FY19 executive budget recommendation for MDHHS includes \$177 million GF, most of which is allocated to existing programs. The FY19 executive budget recommendation for MDHHS includes:

- \$72 million to address Federal Matching Assistance Percentage (FMAP) costs departmentwide;
- \$42 million for departmentwide caseload costs;
- \$63 million for actuarial soundness costs;
- \$29 million for fund shifts;
- \$20 million for various Department investments;
- An actuarial soundness increase of 2% for the Prepaid Inpatient Health Plans (PIHPs);
- \$1.4 million to increase base salaries for psychiatrists at state psychiatric hospitals;
- Actuarial soundness increases of 1.5% for Medicaid;
- \$56 million to account for an FMAP change that reflects a Healthy Michigan Plan adjustment of \$30 million GF;
- \$7 million GF to support rural hospitals;
- Funding for additional Medical Services Administration support staff;
- \$8 million in additional funding for the Department's per- and polyfluoroalkyl substances (PFAS) initiative;
- \$4.8 million ongoing funding for local public health departments to address emerging public health threats;
- \$2 per person per month increase (1.2%) in the family independence program cash allowance;

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- \$4.6 million in funding for information technology in support of the Integrated Service Delivery (ISD) initiative; and
- Funding to support MDHHS' Flint initiatives.

Overall, the FY19 executive budget recommendation for MDHHS includes \$19 million in new funding, and \$55 million in proposed reductions. In response to a question from a meeting attendee asking how the Medical Care Advisory Council (MCAC) can best show support for the proposed budget, Farah Hanley encouraged council members to contact their legislators to indicate their organization's support for the proposal and emphasize the importance of maintaining proposed funding levels to support the department's programs.

### **Provider Enrollment Requirements**

Kathy Stiffler provided an update on Medicaid provider enrollment requirements by noting that while all providers who render services to Michigan Medicaid fee-for-service (FFS) beneficiaries were required to enroll in CHAMPS beginning in 2009, in May 2016 CMS issued a rule requiring all Managed Care Organization (MCO) providers to enroll with Medicaid beginning for rating periods on or after July 1, 2018. While MDHHS was working to implement this rule by the start of Michigan's fiscal year on October 1, 2018, the federal government enacted the 21<sup>st</sup> Century Cures Act, which requires that MCO providers be enrolled with their states' Medicaid programs by January 1, 2018. However, CMS has indicated that states may apply the 120-day grace period allowed by the Managed Care Rule for this change, which would extend Michigan's deadline for compliance with the 21<sup>st</sup> Century Cures Act to May 1, 2018. In addition, MDHHS is also working to require all prescribing providers to enroll with Medicaid.

The department had planned to begin denying claims for non-enrolled MCO providers on March 1, 2018, and for non-enrolled prescribing providers on May 1, 2018. However, due to many providers submitting enrollment applications as these dates approach, MDHHS has decided to indefinitely postpone these actions to allow staff the time to process the new applications. The department is also working to release communication to providers regarding this change, although staff emphasized that while the deadlines for enrollment have been postponed indefinitely, providers should still enroll as soon as possible. MDHHS staff and meeting attendees discussed this issue at length.

### **Integrated Service Delivery**

MDHHS staff provided the following updates on the implementation of ISD:

- On January 22, 2018, the department began using a new paper public benefits application for individuals to apply for multiple MDHHS program benefits with a single form.
- Following a pilot demonstration of the new MI Bridges Self-Service Portal in Muskegon county, MDHHS has expanded the new system to Jackson, Genesee, Clinton and Eaton counties to further test its functionality before beginning to make it available statewide on March 19, 2018. The statewide rollout process is expected to be

## **Medical Care Advisory Council**

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completed by April 6, 2018.

- The universal caseload pilot in Gratiot and Shiawassee counties that was discussed at the previous MCAC meeting began on February 20, 2018.

### **Medicaid Managed Care**

#### **Healthy Kids Dental Bid Update**

MDHHS has completed the process for selecting new vendors to provide services under the **Healthy Kids Dental** program, and has awarded statewide contracts to Blue Cross Blue Shield of Michigan, which will work with DentaQuest to provide dental benefits, and Delta Dental. As part of the new contract, MDHHS has included quality metrics to measure each plan's performance and is working to develop an algorithm to auto-assign new beneficiaries to a plan based on these quality measures. The new contracts will begin on October 1, 2018, and the plans may begin drafting marketing materials for MDHHS approval on April 1, 2018. In response to an inquiry regarding reimbursement rates for dental services, MDHHS staff indicated that no changes have been made, and that the department expects to finalize rates for FY19 by July 1, 2018.

#### **Pregnancy Dental Benefit**

MDHHS has received funding to provide dental services for pregnant women through the Medicaid Health Plans (MHPs) and is continuing to work on developing a process to identify Medicaid beneficiaries who are pregnant.

### **Healthy Michigan Plan**

#### **Transition to Marketplace for Healthy Michigan Plan Members**

##### **Letters sent out February 16, 2018**

On February 16, 2018, MDHHS sent letters to approximately 13,500 Healthy Michigan Plan beneficiaries to inform them that they meet the criteria to transition to health coverage in the Marketplace beginning April 1, 2018 under the terms of the second waiver for the Healthy Michigan Plan. As outlined in the letter, MDHHS staff explained that beneficiaries who receive the letter have the right to appeal the decision and may also stay enrolled in the Healthy Michigan Plan if they attest to being medically frail, are pregnant, or complete a Health Risk Assessment (HRA) and engage in a healthy behavior. Beneficiaries who do not follow these steps and are required to transition to the Marketplace will receive an enrollment packet with information about each Marketplace health plan by early April 2018, and will be required to enroll by May 1, 2018. Those who do not choose a health plan will be auto-assigned. Copies of the letter were distributed to meeting attendees, and MDHHS staff and meeting attendees discussed at length the process for transitioning Healthy Michigan Plan beneficiaries to the Marketplace. Additional information about this process is available on the web at [www.michigan.gov/mimarketplaceoption](http://www.michigan.gov/mimarketplaceoption). MDHHS staff also indicated that the department worked with the University of Michigan Institute for Health Policy & Innovation to conduct surveys of beneficiaries and providers involved with the Healthy Michigan Plan. The reports from these surveys can be accessed on the web at [www.michigan.gov/healthymichiganplan](http://www.michigan.gov/healthymichiganplan) >>

## **Medical Care Advisory Council**

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Healthy Michigan Plan Program Information and History, under “CMS Correspondence.”

### Pregnant Women

Under the terms of the second waiver for the Healthy Michigan Plan, women who become pregnant after transitioning to the Marketplace from the Healthy Michigan Plan may either choose to stay in the Marketplace or receive coverage through regular Medicaid. MDHHS staff and meeting attendees discussed at length ideas for improving this process, including a suggestion for the department to consider allowing pregnant women to enroll directly into an MHP from the Marketplace.

### Aged, Blind and Disabled Eligibility Category

Kathy Stiffler shared that MDHHS is continuing to investigate reports that individuals eligible for coverage under the Aged, Blind and Disabled category are being incorrectly classified for coverage by the department, and as a result, the Prepaid Inpatient Health Plans (PIHPs) do not receive the higher capitation rate for providing services to these beneficiaries. However, data indicate that these beneficiaries are instead voluntarily applying for Healthy Michigan Plan coverage, which is a beneficiary decision. Many are also losing coverage completely.

### **Healthy MI Waiver Renewal Update**

On December 12, 2017, MDHHS submitted a renewal application for the Section 1115 Demonstration Waiver for the Healthy Michigan Plan to CMS, which has been posted on the CMS website at [www.medicaid.gov](http://www.medicaid.gov) for public comment.

### Behavioral Health Updates

#### **Section 298 Update**

The Michigan legislature directed MDHHS to conduct up to three pilots to test publicly integrated behavioral health and physical health services, which will focus on financial integration. The department issued a Request for Information (RFI) in December 2017 to select the pilot sites and has received responses from five Community Mental Health Services Programs (CMHSPs) wishing to participate. MDHHS is currently working to evaluate the responses to the RFI with the goal of selecting the location of the three pilot sites by March 9, 2018. To be considered for inclusion in the pilot, a CMHSP must have letters of support from 50% of the MHPs in their region and demonstrate full financial integration of behavioral health and physical health services in their application. MDHHS is also exploring options for how best to serve those with specialty behavioral health needs. The targeted implementation date for the pilot programs is October 1, 2018.

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The demonstration model for the Stakeholder 298 Initiative will maintain the current funding mechanism in which physical health services are funded through the Medicaid Health Plans and behavioral health services are funded through the PIHPs. The demonstration will be established in Kent County through the local CMHSP, Network180, in partnership with Priority Health. MDHHS has been actively engaged in discussions with Network180 and Priority Health on the implementation of the demonstration model and expects to receive a detailed project plan from the two entities in mid-March.

Additionally, the University of Michigan Institute for Health Policy & Innovation IHPI is in the process of developing a plan to put together an evaluation of the demonstration model, and will identify comparison sites for their study once the pilot begins. MDHHS is also continuing to work toward implementing the 76 policy recommendations for the integration of behavioral health and physical health services proposed by the Section 298 work group. Updates on this process will be posted on the web at [www.michigan.gov/stakeholder298](http://www.michigan.gov/stakeholder298) as they become available.

### **1115 Waiver Update**

MDHHS is continuing to communicate with CMS regarding the Section 1115 waiver application to provide all behavioral health services under a single waiver authority. No action has been taken by CMS on the waiver application since the previous MCAC meeting in December, although MDHHS staff have a call scheduled with CMS on Monday, February 26 to further discuss the waiver.

### **Other**

The Behavioral Health and Developmental Disabilities Administration (BHDDA) is also working with other areas of MDHHS to implement the federal Home and Community Based Services (HCBS) Final Rule and the Electronic Visit Verification (EVV) system for personal care service providers.

### **Mental Health Parity Update**

MDHHS staff provided an update on the department's efforts to comply with the Mental Health Parity and Addiction Equity Act of 2008, which requires that states place no more restrictions on behavioral health/substance use disorder benefits than on medical/surgical benefits. To comply with the law, MDHHS will require that, on a statewide basis, PIHPs can place no greater restrictions in any classification of behavioral health/substance use disorder services than the least restrictive restriction in that classification for medical/surgical benefits. Following the last update on mental health parity at the June 2017 MCAC meeting, MDHHS distributed surveys to all Medicaid Health Plans and PIHPs operating in the State of Michigan to gather data on their coverage standards and is in the process of compiling their findings into an assessment and developing a plan for corrective action. The issues the department will seek to address include: prescription drug copays; inpatient and outpatient prior authorization for behavioral health/substance use disorder services; and services for beneficiaries with intellectual and developmental disabilities. MDHHS plans to complete the assessment and

## **Medical Care Advisory Council**

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plan for corrective action by the end of April 2018, at which time it will be submitted to CMS and be made publicly available. In response to an inquiry, MDHHS staff indicated that the state does not anticipate a significant increase in costs as a result of compliance with the Mental Health Parity and Addictions Act of 2008.

### **Long Term Care Updates**

Dick Miles provided an update on the following items related to Long Term Care:

- MDHHS is working to submit a renewal application for the MI Choice Waiver to CMS by October 1, 2018.
- Approximately 39,300 individuals are currently enrolled in the MI Health Link demonstration program for individuals who are dually eligible for Medicare and Medicaid. Enrollment in the demonstration has stabilized, and MDHHS is working to secure approval from CMS for waiver applications related to MI Health Link.
- The department is working to implement an EVV system for providers of in-home personal care services, which must be in place by January 1, 2019 per the 21<sup>st</sup> Century Cures Act.

### **Managed Long Term Care Services and Supports**

A report containing data on long term care services and supports programs in Michigan and other states was distributed to meeting attendees and the document was discussed.

### **Policy Updates**

A policy bulletin handout was distributed to attendees and several updates were discussed.

**4:30 – Adjourn**

Medical Services Administration  
Bureau of Medicaid Care Management and Quality Assurance

***PERFORMANCE MONITORING REPORT***

**Composite – All Plans**



**April 2018**

Produced by:  
Quality Improvement and Program Development – Managed Care Plan Division



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## Performance Monitoring Report

### Executive Summary

This Performance Monitoring Report (PMR) is produced by the Quality Improvement and Program Development (QIPD) Section of the Managed Care Plan Division (MCPD) to track quality, access, and utilization in the Michigan Medicaid program to better support high quality care for beneficiaries.

The Michigan Department of Health and Human Services (MDHHS) monitors the performance of the State’s Medicaid Health Plans (MHPs) through twenty-eight (28) key performance measures aimed at improving the quality and efficiency of health care services provided to the Michigan residents enrolled in a Medicaid program. These measures include Medicaid Managed Care specific measures, Healthy Michigan Plan (HMP) measures, and HEDIS measures. **This report focuses only on the Healthy Michigan Plan (HMP) measures.** The following HMP measures will be included in this report:

| <b>Healthy Michigan Plan</b>                                   |   |  |
|--|---|--|
| <i>Adults’ Generic Drug Utilization</i>                        | <i>Timely Completion of Initial HRA</i>             | <i>Completion of Annual HRA</i>                              |
| <i>Outreach &amp; Engagement to Facilitate Entry to PCP</i>    | <i>Adults’ Access to Ambulatory Health Services</i> | <i>Transition into Consistently Fail to Pay (CFP) Status</i> |
| <i>Transition out of Consistently Fail to Pay (CFP) Status</i> |   |  |

Data for these measures are represented on a quarterly basis. The body of the report contains a cross-plan analysis of the most current data available for each of these measures. Measurement Periods may vary and are based on the specifications for that individual measure. Appendix A contains specific three letter codes identifying each of the MHPs. Appendix B contains the one-year plan specific analysis for each measure.

MHPs are contractually obligated to achieve specified standards for most measures. The following table displays the number of MHPs meeting or exceeding the standards for the performance measure versus total MHPs, as reported in the Performance Monitoring Report, during the listed quarter for fiscal year 2018 unless otherwise noted.

**Table 1: Fiscal Year 2018<sup>1</sup>**

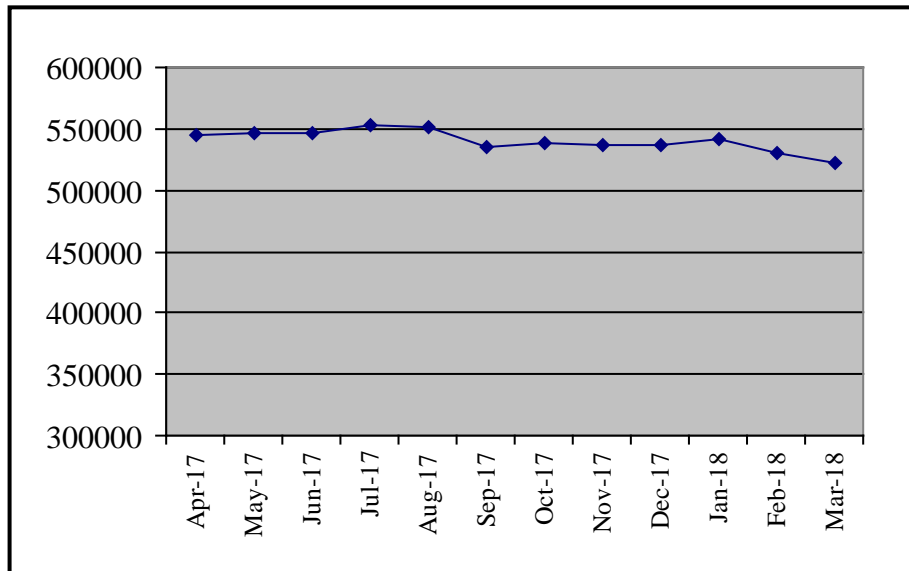
| Quarterly Reported Measures                      | Reported in 1 <sup>st</sup> Quarter | Reported in 2 <sup>nd</sup> Quarter | Reported in 3 <sup>rd</sup> Quarter | Reported in 4 <sup>th</sup> Quarter |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Adults’ Generic Drug Utilization                 | 10/11                               | 10/11                               |                                     |                                     |
| Timely Completion of Initial HRA                 | 5/9                                 | 4/9                                 |                                     |                                     |
| Completion of Annual HRA                         | N/A                                 | N/A                                 |                                     |                                     |
| Outreach & Engagement to Facilitate Entry to PCP | 7/11                                | 6/11                                |                                     |                                     |
| Adults’ Access to Ambulatory Health Services     | 0/11                                | 0/11                                |                                     |                                     |
| Transition into CFP Status                       | N/A                                 | N/A                                 |                                     |                                     |
| Transition out of CFP Status                     | N/A                                 | N/A                                 |                                     |                                     |

<sup>1</sup> N/A will be shown for measures where the standard is Informational Only.

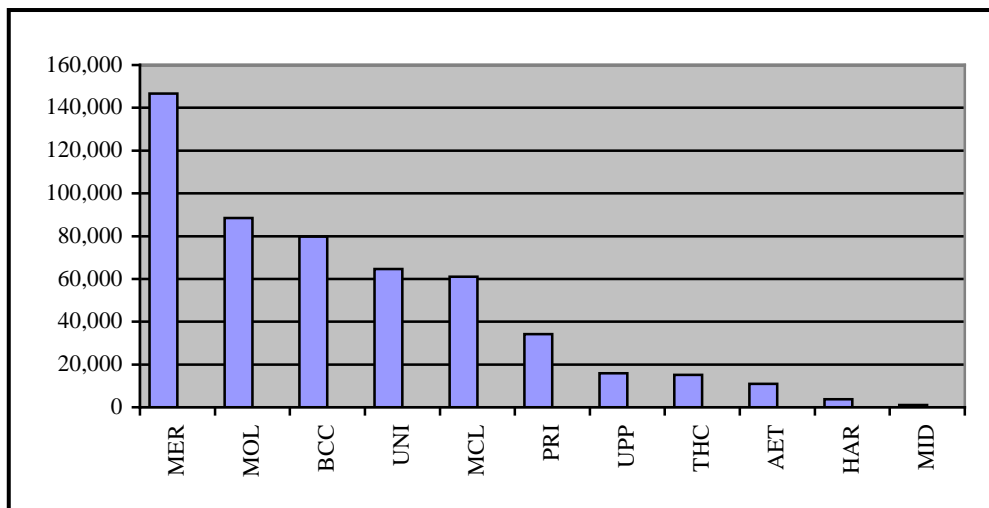
## Healthy Michigan Plan Enrollment

The Healthy Michigan Plan (HMP-MC) enrollment has decreased slightly over the past year. In March 2018, enrollment was 521,660, down 22,894 enrollees (4.2%) from April 2017. A decrease of 9,044 enrollees (1.7%) was realized between February 2018 and March 2018.

**Figure 1: HMP-MC Enrollment, April 2017 – March 2018**



**Figure 2: HMP-MC Enrollment by Medicaid Health Plan, March 2018**



## **Medicaid Health Plan News**

The Performance Monitoring Report contains data for all Healthy Michigan Medicaid Health Plans, where data is available. Eleven Medicaid Health Plans are contracted with the State of Michigan to provide comprehensive health care services.

Results for the Transition into Consistently Fail to Pay Status, Transition out of Consistently Fail to Pay Status and the Completion of Annual Health Risk Assessment measures will be reported as “Informational Only” until a standard has been set.

Due to a change in methodology the Plan All-Cause Acute 30-Day Readmission measure has been taken out of this report and will be put into a separate PMR.

## **Cross-Plan Performance Monitoring Analyses**

The following section includes a cross-plan analysis for each performance measure. An analysis of the most current data available for each performance measure is included. For detailed questions regarding measurement periods or standards, see the Performance Monitoring Specifications.

**Adults' Generic Drug Utilization**

**Measure**

The percentage of generic prescriptions filled for adult members of health plans during the measurement period.

**Standard**

At or above 84% (as shown on bar graph below)

**Measurement Period**

July 2017 –September 2017

**Data Source**

MDHHS Data Warehouse

**Measurement Frequency**

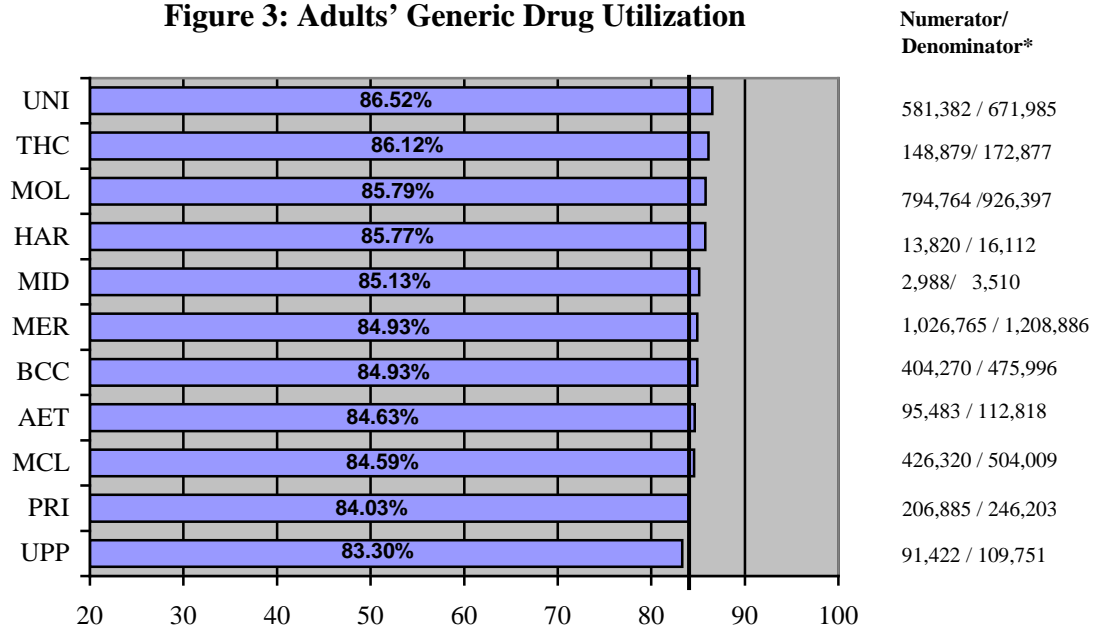
Quarterly

**Summary:** Ten plans met or exceeded the standard, while one plan (UPP) did not. Results ranged from 83.30% to 86.52%.

**Table 2: Comparison across Medicaid Programs**

| Medicaid Program           | Numerator | Denominator | Percentage |
|----------------------------|-----------|-------------|------------|
| Michigan Medicaid All      | 3,884,176 | 4,583,870   | 84.74%     |
| Fee For Service (FFS) only | 14,290    | 38,976      | 36.66%     |
| Managed Care only          | 3,809,427 | 4,467,854   | 85.26%     |
| MA-MC                      | 1,930,288 | 2,273,003   | 84.92%     |
| HMP-MC                     | 1,839,311 | 2,148,619   | 85.60%     |

**Figure 3: Adults' Generic Drug Utilization**



Adult's Generic Drug Utilization Percentages

\*Numerator depicts the number of eligible beneficiaries who had generic prescriptions filled. Denominator depicts the total number of eligible beneficiaries.

**Timely Completion of Initial Health Risk Assessment (HRA)**

**Measure**

The percentage of Healthy Michigan Plan beneficiaries enrolled in a health plan who had a Health Risk Assessment (HRA) completed within 150 days of enrollment in a health plan.

**Standard**

At or above 9% (as shown on bar graph below)

**Enrollment Dates**

April 2017 – June 2017

**Data Source**

MDHHS Data Warehouse

**Measurement Frequency**

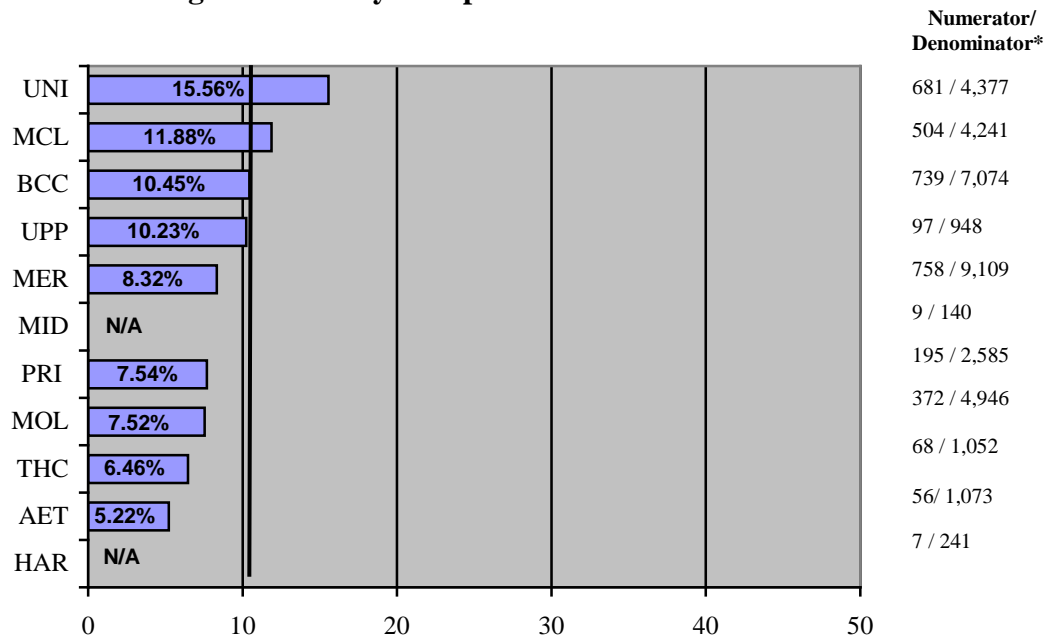
Quarterly

**Summary:** Four plans met or exceeded the standard, while four plans (AET, HAR, MER, MID, MOL, PRI, and THC) did not. Results ranged from 5.22% to 15.56%.

**Table 3: Program Total<sup>2</sup>**

| Medicaid Program | Numerator | Denominator | Percentage |
|------------------|-----------|-------------|------------|
| HMP-MC           | 3,486     | 35,786      | 9.74%      |

**Figure 4: Timely Completion of Initial HRA<sup>3</sup>**



**Timely Completion of Initial HRA Percentages**

\*Numerator depicts the number of eligible beneficiaries who completed an HRA within 150 days of enrollment in a health plan. Denominator depicts the total number of eligible beneficiaries.

<sup>2</sup> This includes HRAs completed during the HMP FFS period prior to enrollment in a Medicaid health plan.

<sup>3</sup> A rate was not calculated for plans with a numerator under 5 or a denominator under 30.

**Completion of Annual Health Risk Assessment (HRA)**

**Measure**

The percentage of new Healthy Michigan Plan beneficiaries enrolled in a health plan who had a second Health Risk Assessment (HRA) completed within one year (defined as 11-15 months) of their first HRA.

**Standard**

N/A – Informational Only

**First Attestation Dates**

October 2015 – September 2016

**Second Attestation Dates**

September 2016 – December 2017

**Data Source**

MDHHS Data Warehouse

**Measurement Frequency**

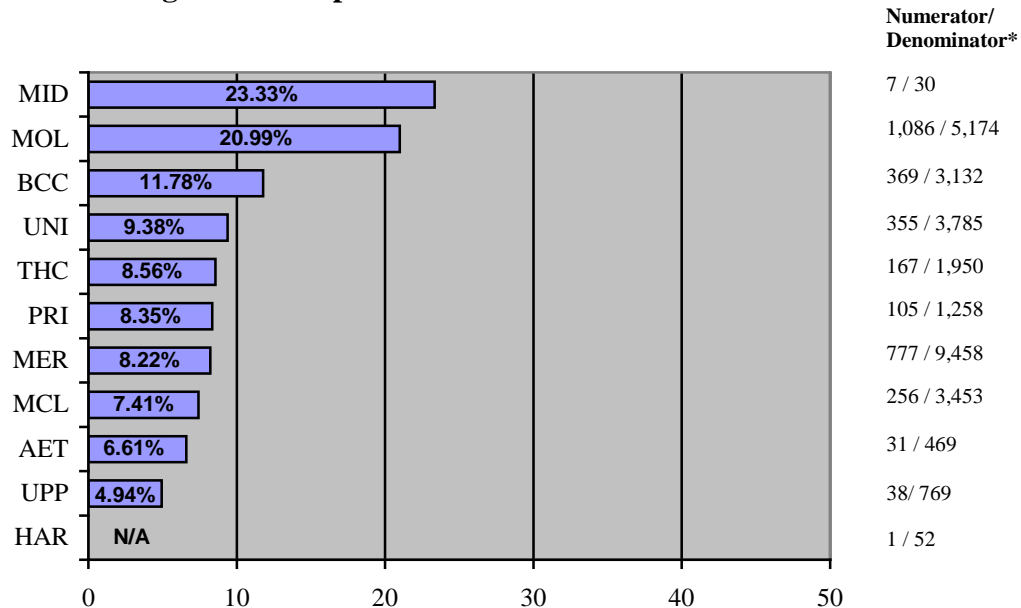
Quarterly

**Summary:** *Data for this measure will not be reported this year.*

**Table 4: Program Total**

| Medicaid Program | Numerator | Denominator | Percentage |
|------------------|-----------|-------------|------------|
| HMP-MC           | 3,239     | 30,857      | 10.50%     |

**Figure 5: Completion of Annual HRA<sup>4</sup>**



Completion of Annual HRA Percentages

\*Numerator depicts the number of eligible beneficiaries who completed a second HRA within one year (defined as 11-15 months) of their first HRA. Denominator depicts the total number of eligible beneficiaries.

<sup>4</sup> A rate was not calculated for plans with a numerator under 5 or a denominator under 30.

**Outreach and Engagement to Facilitate Entry to Primary Care**

**Measure**

The percentage of Healthy Michigan Plan health plan enrollees who have an ambulatory or preventive care visit within 150 days of enrollment into a health plan who had not previously had an ambulatory or preventive care visit since enrollment in Healthy Michigan Plan.

**Standard**

At or above 50% (as shown on bar graph below)

**Enrollment Dates**

April 2017 – June 2017

**Data Source**

MDHHS Data Warehouse

**Measurement Frequency**

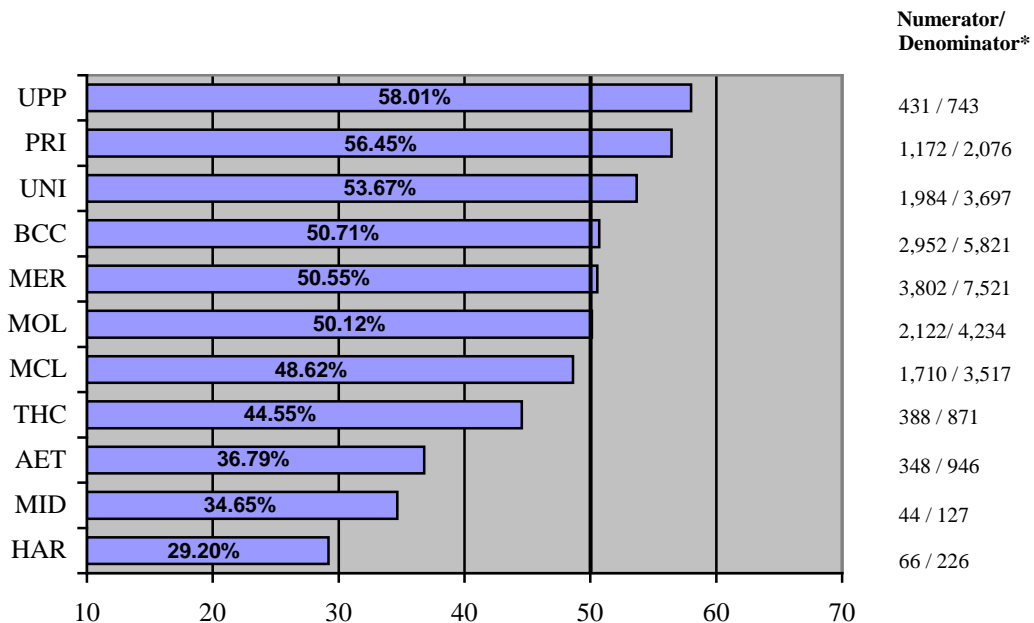
Quarterly

**Summary:** Six plans met or exceeded the standard, while five plans (AET, HAR, MCL, MID, and THC) did not. Results ranged from 29.20% to 58.01%.

**Table 5: Program Total<sup>5</sup>**

| Medicaid Program | Numerator | Denominator | Percentage |
|------------------|-----------|-------------|------------|
| HMP-MC           | 21,026    | 35,786      | 58.75%     |

**Figure 6: Outreach & Engagement to Facilitate Entry to Primary Care**



**Outreach & Engagement to Facilitate Entry to Primary Care Percentages**

\*Numerator depicts the number of eligible beneficiaries who had an ambulatory or preventive care visit within 150 days of enrollment in a health plan. Denominator depicts the total number of eligible beneficiaries.

<sup>5</sup> This includes visits during the HMP FFS period prior to enrollment in a Medicaid health plan.



**Adults' Access to Ambulatory Health Services**

**Measure**

The percentage of adults 19 to 64 years old who had an ambulatory or preventive care visit during the measurement period.

**Standard**

At or above 83% (as shown on bar graph below)

**Measurement Period**

October 2016 – September 2017

**Data Source**

MDHHS Data Warehouse

**Measurement Frequency**

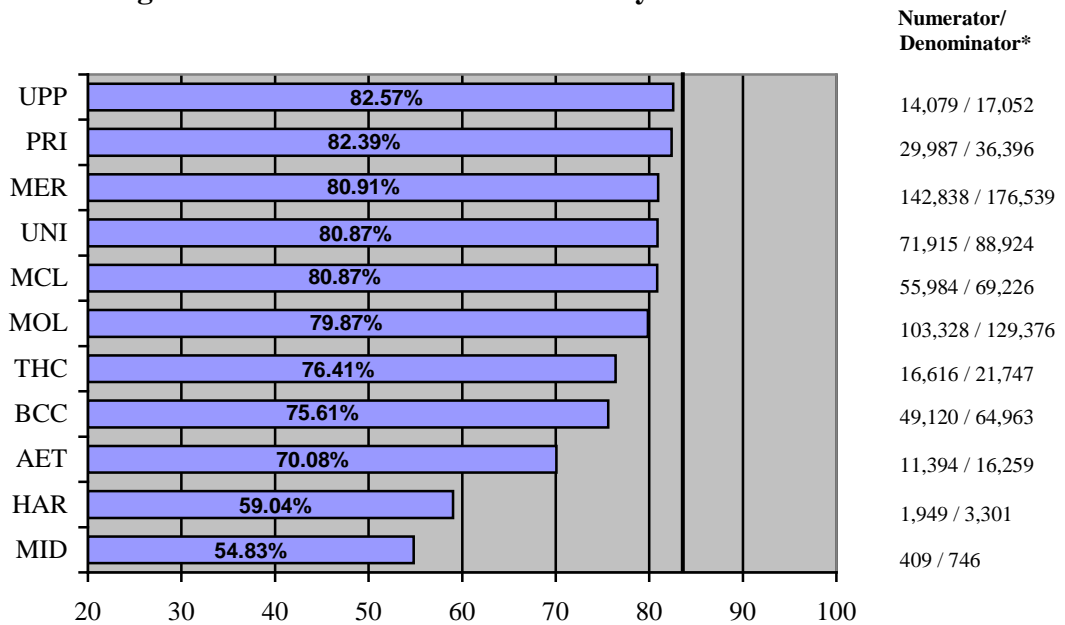
Quarterly

**Summary:** None of the plans met or exceeded the standard. Results ranged from 54.83% to 82.57%.

**Table 6: Comparison across Medicaid Programs**

| Medicaid Program           | Numerator | Denominator | Percentage |
|----------------------------|-----------|-------------|------------|
| Michigan Medicaid All      | 615,972   | 779,398     | 79.03%     |
| Fee For Service (FFS) only | 10,004    | 16,820      | 59.48%     |
| Managed Care only          | 511,439   | 640,118     | 79.90%     |
| MA-MC                      | 226,496   | 274,619     | 82.48%     |
| HMP-MC                     | 231,170   | 301,246     | 76.74%     |

**Figure 7: Adults' Access to Ambulatory Health Services**



Adult's Access to Ambulatory Health Services Percentages

\*Numerator depicts the number of eligible beneficiaries who had an ambulatory or preventive care visit. Denominator depicts the total number of eligible beneficiaries.

**Transition into Consistently Fail to Pay (CFP) Status**

**Measure**

The percentage of Healthy Michigan Plan beneficiaries who transitioned from non-CFP status into CFP status during the last quarter of the measurement period.

**Standard**

N/A – Informational Only

**Measurement Period**

February 2017 –March 2018

**Data Source**

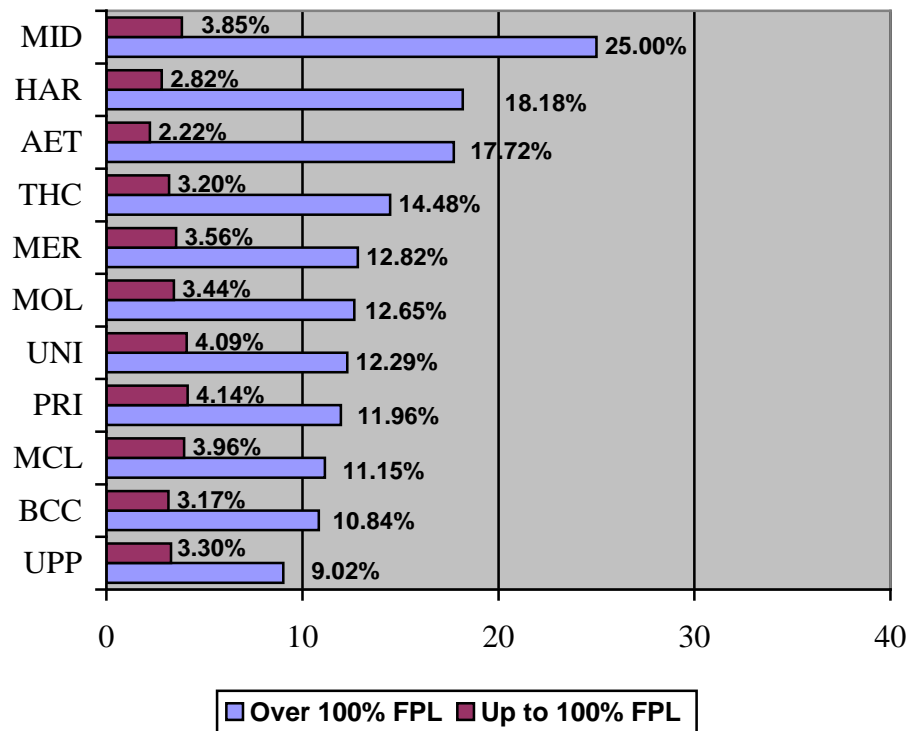
MDHHS Data Warehouse

**Measurement Frequency**

Quarterly

**Summary:** The results shown are informational only. In Cohort 1, the results ranged from 9.02% to 25.00% for beneficiaries with income over 100% FPL. The results ranged from 2.22% to 4.14% for beneficiaries with income that never exceeded 100% FPL. In Cohort 2, the results ranged from 5.00% to 50.00% for beneficiaries with income over 100% FPL. The results ranged from 1.23% to 3.47% for beneficiaries with income that never exceeded 100% FPL. In Cohort 3, the results ranged from 9.21% to 28.57% for beneficiaries with income over 100% FPL. The results ranged from 0.00% to 3.58% for beneficiaries with income that never exceeded 100% FPL.

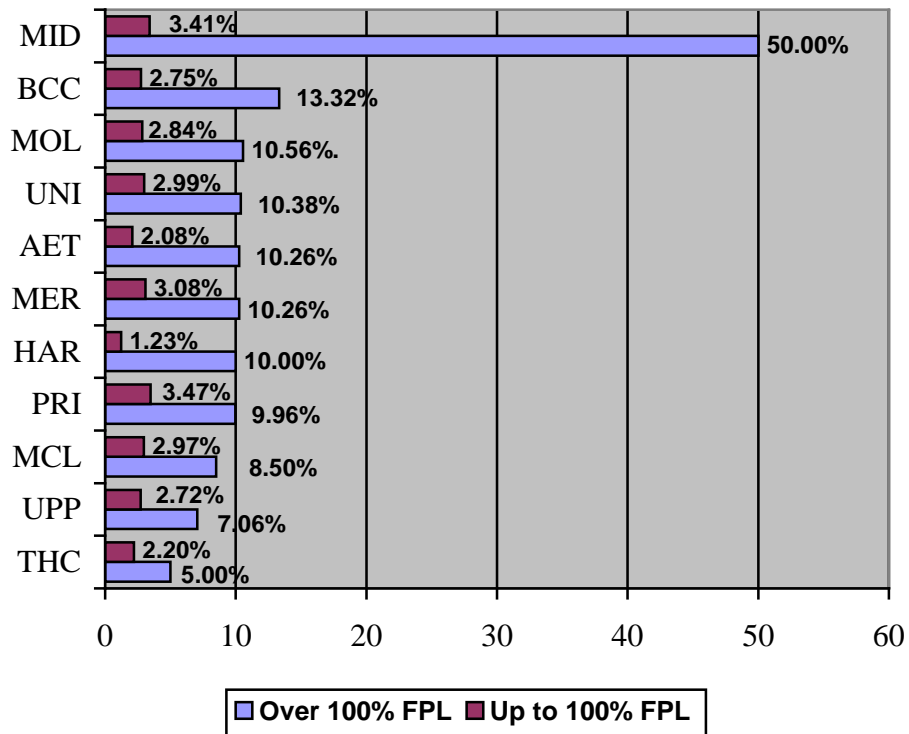
**Figure 8: Transition into CFP Status - Cohort 1**



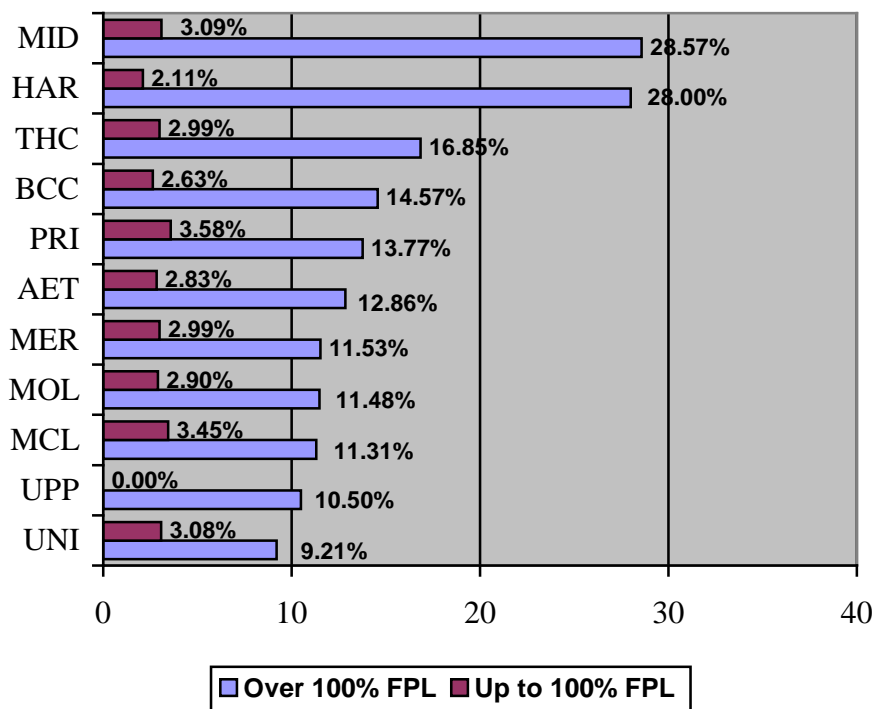
Transition in to CFP Status Percentages

\*In the graphs represented for this measure, FPL represents the Federal Poverty Level.

**Figure 9: Transition into CFP Status - Cohort 2**



**Figure 10: Transition into CFP Status - Cohort 3**



**Transition out of Consistently Fail to Pay (CFP) Status**

**Measure**

The percentage of Healthy Michigan Plan beneficiaries who transitioned from CFP status to non-CFP status during the last quarter of the measurement period.

**Standard**

N/A – Informational Only

**Measurement Period**

February 2017 – March 2018

**Data Source**

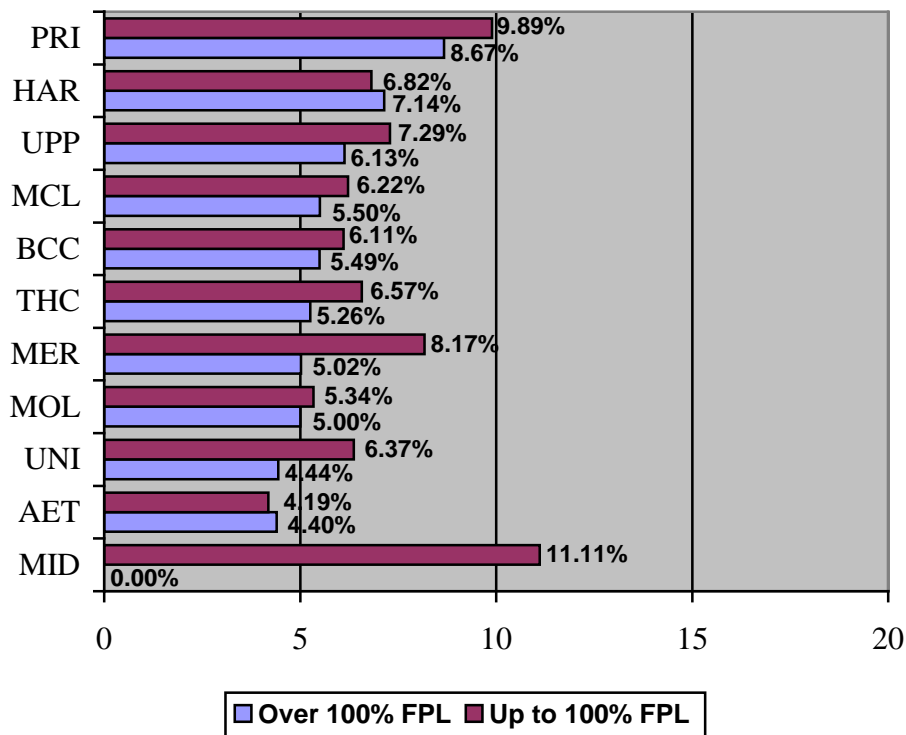
MDHHS Data Warehouse

**Measurement Frequency**

Quarterly

**Summary:** The results shown are informational only. In Cohort 1, the results ranged from 0.00% to 8.67% for beneficiaries with income over 100% FPL. The results ranged from 4.19% to 11.11% for beneficiaries with income that never exceeded 100% FPL. In Cohort 2, the results ranged from 0.00% to 16.67% for beneficiaries with income over 100% FPL. The results ranged from 0.00% to 100.00% for beneficiaries with income that never exceeded 100% FPL. In Cohort 3, the results ranged from 1.26% to 28.57% for beneficiaries with income over 100% FPL. The results ranged from 0.00% to 7.46% for beneficiaries with income that never exceeded 100% FPL.

**Figure 11: Transition out of CFP Status - Cohort 1**



Transition out of CFP Status Percentages

\*In the graphs represented for this measure, FPL represents the Federal Poverty Level.

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Figure 12: Transition out of CFP Status - Cohort 2

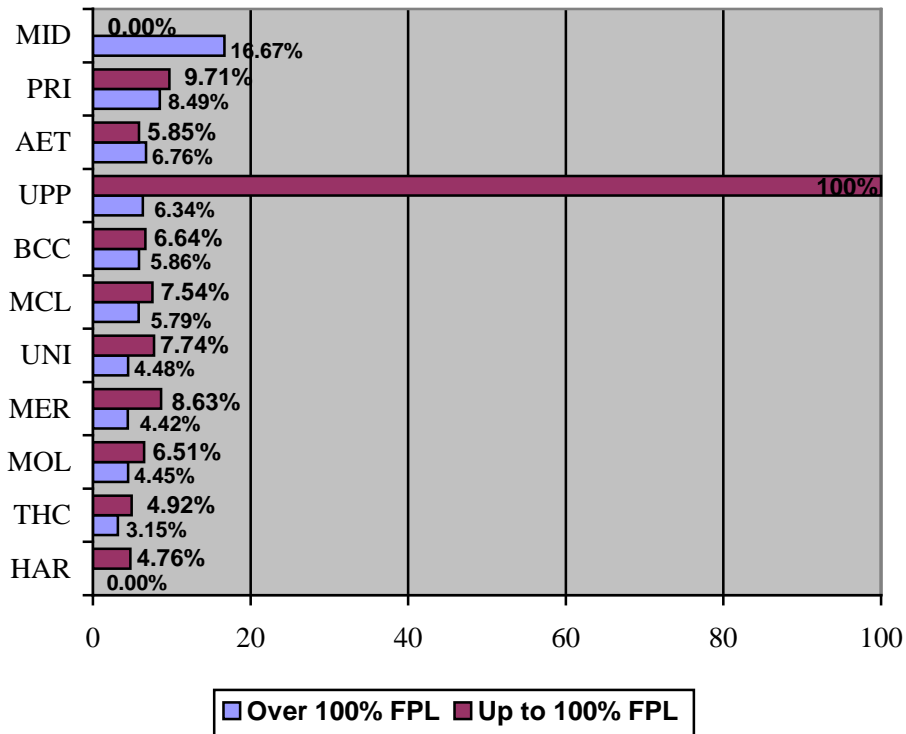
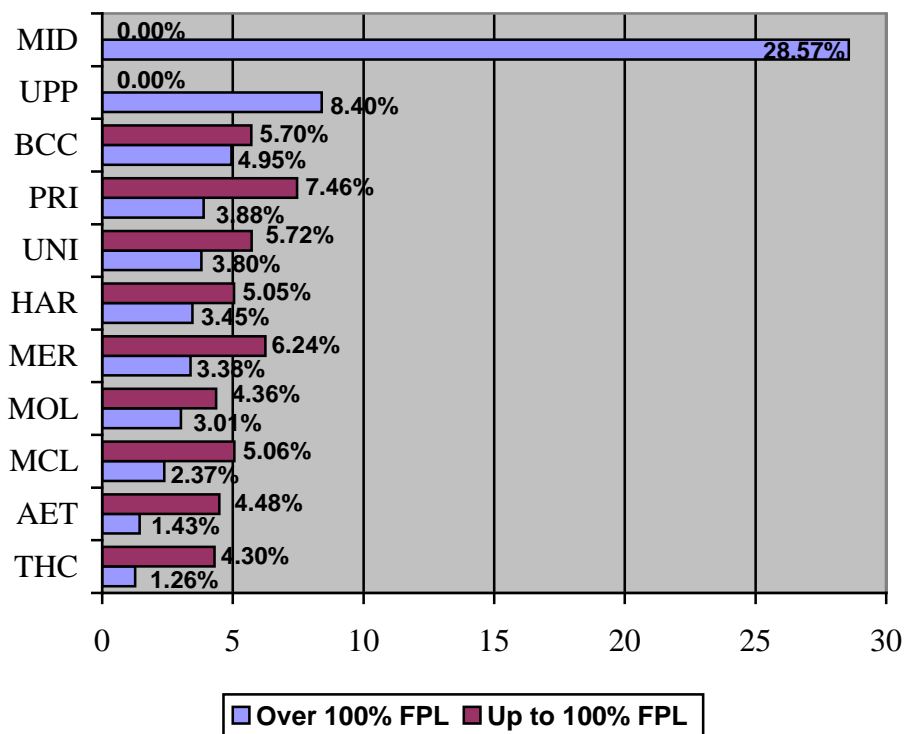


Figure 13: Transition out of CFP Status - Cohort 3



**Appendix A: Three Letter Medicaid Health Plan Codes**

Below is a list of three letter codes established by MDHHS identifying each Medicaid Health Plan.

|     |                                  |
|-----|----------------------------------|
| AET | Aetna Better Health of Michigan  |
| BCC | Blue Cross Complete of Michigan  |
| HAR | Harbor Health Plan               |
| MCL | McLaren Health Plan              |
| MER | Meridian Health Plan of Michigan |
| MID | HAP Midwest Health Plan          |
| MOL | Molina Healthcare of Michigan    |
| PRI | Priority Health Choice           |
| THC | Total Health Care                |
| UNI | UnitedHealthcare Community Plan  |
| UPP | Upper Peninsula Health Plan      |

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**Appendix B: One Year Plan-Specific Analysis**

**Aetna Better Health of Michigan – AET**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period | Standard | Plan Result | Standard Achieved |
|----------------------------------|--------------------|----------|-------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17    | 84%      | 84.64%      | Yes               |
|                                  | Jul 17 – Sep 17    | 84%      | 84.63%      | Yes               |

|                          |                 |    |       |    |
|--------------------------|-----------------|----|-------|----|
| Timely Completion of HRA | Jan 17 – Mar 17 | 9% | 7.45% | No |
|                          | Apr 17 – Jun 17 | 9% | 5.22% | No |

|                          |                 |                    |       |     |
|--------------------------|-----------------|--------------------|-------|-----|
| Completion of Annual HRA | Jun 16 – Sep 17 | Informational Only | 7.16% | N/A |
|                          | Sep 16 – Dec 17 | Informational Only | 6.61% | N/A |

|   |                 |     |        |    |
|---|-----------------|-----|--------|----|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17 | 50% | 38.78% | No |
|   | Apr 17 – Jun 17 | 50% | 36.79% | No |

|  |                 |     |        |    |
|--|-----------------|-----|--------|----|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17 | 83% | 71.03% | No |
|  | Oct 16 – Sep 17 | 83% | 70.08% | No |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 22.22%           | 3.80%            | N/A               | Info Only         | 16.92%           | 2.82%            | N/A               | Info Only         | 27.63%           | 4.11%            | N/A               |
| Info Only   | 13.85%           | 3.91%            | N/A               | Info Only         | 4.69%            | 3.01%            | N/A               | Info Only         | 16.92%           | 2.20%            | N/A               |
| Info Only   | 15.71%           | 2.32%            | N/A               | Info Only         | 8.70%            | 2.69%            | N/A               | Info Only         | 24.24%           | 1.18%            | N/A               |
| Info Only   | 17.72%           | 2.22%            | N/A               | Info Only         | 10.26%           | 2.08%            | N/A               | Info Only         | 12.86%           | 2.83%            | N/A               |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 0.00%            | 0.00%            | N/A               | Info Only         | 0.00%            | 1.89%            | N/A               | Info Only         | 0.00%            | 3.64%            | N/A               |
| Info Only   | 2.33%            | 5.30%            | N/A               | Info Only         | 2.56%            | 2.72%            | N/A               | Info Only         | 0.00%            | 3.57%            | N/A               |
| Info Only   | 6.82%            | 7.91%            | N/A               | Info Only         | 5.26%            | 8.57%            | N/A               | Info Only         | 2.52%            | 2.65%            | N/A               |
| Info Only   | 4.40%            | 4.19%            | N/A               | Info Only         | 6.76%            | 5.85%            | N/A               | Info Only         | 1.43%            | 4.48%            | N/A               |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

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**Appendix B: One Year Plan-Specific Analysis**

**Blue Cross Complete of Michigan – BCC**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period     | Standard   | Plan Result   | Standard Achieved |
|----------------------------------|------------------------|------------|---------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17        | 84%        | 84.78%        | Yes               |
|                                  | <b>Jul 17 – Sep 17</b> | <b>84%</b> | <b>84.93%</b> | <b>Yes</b>        |

|                          |                        |           |               |            |
|--------------------------|------------------------|-----------|---------------|------------|
| Timely Completion of HRA | Jan 17 – Mar 17        | 9%        | 10.80%        | Yes        |
|                          | <b>Apr 17 – Jun 17</b> | <b>9%</b> | <b>10.45%</b> | <b>Yes</b> |

|                          |                        |                           |               |            |
|--------------------------|------------------------|---------------------------|---------------|------------|
| Completion of Annual HRA | Jun 16 – Sep 17        | Informational Only        | 12.34%        | N/A        |
|                          | <b>Sep 16 – Dec 17</b> | <b>Informational Only</b> | <b>11.78%</b> | <b>N/A</b> |

|   |                        |            |               |            |
|---|------------------------|------------|---------------|------------|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17        | 50%        | 54.26%        | Yes        |
|   | <b>Apr 17 – Jun 17</b> | <b>50%</b> | <b>50.71%</b> | <b>Yes</b> |

|  |                        |            |               |           |
|--|------------------------|------------|---------------|-----------|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17        | 83%        | 75.93%        | No        |
|  | <b>Oct 16 – Sep 17</b> | <b>83%</b> | <b>75.61%</b> | <b>No</b> |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 16.32%           | 3.70%            | N/A               | Info Only         | 19.88%           | 4.14%            | N/A               | Info Only         | 18.76%           | 4.16%            | N/A               |
| Info Only   | 15.69%           | 4.39%            | N/A               | Info Only         | 14.63%           | 3.09%            | N/A               | Info Only         | 19.13%           | 2.95%            | N/A               |
| Info Only   | 13.90%           | 3.92%            | N/A               | Info Only         | 14.86%           | 2.92%            | N/A               | Info Only         | 11.44%           | 2.56%            | N/A               |
| <b>Info Only</b>  | <b>10.84%</b>    | <b>3.17%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>13.32%</b>    | <b>2.75%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>14.57%</b>    | <b>2.63%</b>     | <b>N/A</b>        |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 1.09%            | 2.63%            | N/A               | Info Only         | 1.15%            | 2.52%            | N/A               | Info Only         | 0.64%            | 2.80%            | N/A               |
| Info Only   | 1.08%            | 3.91%            | N/A               | Info Only         | 2.04%            | 3.16%            | N/A               | Info Only         | 5.71%            | 8.15%            | N/A               |
| Info Only   | 7.93%            | 12.13%           | N/A               | Info Only         | 6.70%            | 8.39%            | N/A               | Info Only         | 4.78%            | 7.38%            | N/A               |
| <b>Info Only</b>  | <b>5.49%</b>     | <b>6.11%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>5.86%</b>     | <b>6.64%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>4.95%</b>     | <b>5.70%</b>     | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications



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**Appendix B: One Year Plan-Specific Analysis**

**Harbor Health Plan – HAR**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period     | Standard   | Plan Result   | Standard Achieved |
|----------------------------------|------------------------|------------|---------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17        | 84%        | 85.45%        | Yes               |
|                                  | <b>Jul 17 – Sep 17</b> | <b>84%</b> | <b>85.77%</b> | <b>Yes</b>        |

|                          |                        |           |            |            |
|--------------------------|------------------------|-----------|------------|------------|
| Timely Completion of HRA | Jan 17 – Mar 17        | 9%        | N/A        | N/A        |
|                          | <b>Apr 17 – Jun 17</b> | <b>9%</b> | <b>N/A</b> | <b>N/A</b> |

*N/A in the "Plan Result" column indicates that the plan had a numerator less than 5 or a denominator less than 30.*

|                          |                        |                           |            |            |
|--------------------------|------------------------|---------------------------|------------|------------|
| Completion of Annual HRA | Jun 16 – Sep 17        | Informational Only        | N/A        | N/A        |
|                          | <b>Sep 16 – Dec 17</b> | <b>Informational Only</b> | <b>N/A</b> | <b>N/A</b> |

*N/A in the "Plan Result" column indicates that the plan had a numerator less than 5 or a denominator less than 30.*

|   |                        |            |               |           |
|---|------------------------|------------|---------------|-----------|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17        | 50%        | 27.02%        | No        |
|   | <b>Apr 17 – Jun 17</b> | <b>50%</b> | <b>29.20%</b> | <b>No</b> |

|  |                        |            |               |           |
|--|------------------------|------------|---------------|-----------|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17        | 83%        | 59.35%        | No        |
|  | <b>Oct 16 – Sep 17</b> | <b>83%</b> | <b>59.04%</b> | <b>No</b> |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 12.50%           | 2.15%            | N/A               | Info Only         | 0.00%            | 2.17%            | N/A               | Info Only         | 28.00%           | 1.54%            | N/A               |
| Info Only   | 14.29%           | 2.24%            | N/A               | Info Only         | 12.50%           | 1.60%            | N/A               | Info Only         | 19.23%           | 1.46%            | N/A               |
| Info Only   | 25.00%           | 3.72%            | N/A               | Info Only         | 25.00%           | 1.36%            | N/A               | Info Only         | 11.11%           | 1.91%            | N/A               |
| <b>Info Only</b>  | <b>18.18%</b>    | <b>2.82%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>10.00%</b>    | <b>1.23%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>28.00%</b>    | <b>2.11%</b>     | <b>N/A</b>        |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 0.00%            | 0.00%            | N/A               | Info Only         | 0.00%            | 3.45%            | N/A               | Info Only         | 0.00%            | 0.00%            | N/A               |
| Info Only   | 0.00%            | 0.00%            | N/A               | Info Only         | 0.00%            | 0.00%            | N/A               | Info Only         | 6.73%            | 9.57%            | N/A               |
| Info Only   | 0.00%            | 6.67%            | N/A               | Info Only         | 0.00%            | 2.22%            | N/A               | Info Only         | 0.00%            | 1.15%            | N/A               |
| <b>Info Only</b>  | <b>7.14%</b>     | <b>6.82%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>0.00%</b>     | <b>4.76%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>3.45%</b>     | <b>5.05%</b>     | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**McLaren Health Plan – MCL**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period     | Standard   | Plan Result   | Standard Achieved |
|----------------------------------|------------------------|------------|---------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17        | 84%        | 84.43%        | Yes               |
|                                  | <b>Jul 17 – Sep 17</b> | <b>84%</b> | <b>84.59%</b> | <b>Yes</b>        |

|                          |                        |           |               |            |
|--------------------------|------------------------|-----------|---------------|------------|
| Timely Completion of HRA | Jan 17 – Mar 17        | 9%        | 10.83%        | Yes        |
|                          | <b>Apr 17 – Jun 17</b> | <b>9%</b> | <b>11.88%</b> | <b>Yes</b> |

|                          |                        |                           |              |            |
|--------------------------|------------------------|---------------------------|--------------|------------|
| Completion of Annual HRA | Jun 16 – Sep 17        | Informational Only        | 5.65%        | N/A        |
|                          | <b>Sep 16 – Dec 17</b> | <b>Informational Only</b> | <b>7.41%</b> | <b>N/A</b> |

|   |                        |            |               |           |
|---|------------------------|------------|---------------|-----------|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17        | 50%        | 54.59%        | Yes       |
|   | <b>Apr 17 – Jun 17</b> | <b>50%</b> | <b>48.62%</b> | <b>No</b> |

|  |                        |            |               |           |
|--|------------------------|------------|---------------|-----------|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17        | 83%        | 81.11%        | No        |
|  | <b>Oct 16 – Sep 17</b> | <b>83%</b> | <b>80.87%</b> | <b>No</b> |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 13.91%           | 6.42%            | N/A               | Info Only         | 15.63%           | 5.88%            | N/A               | Info Only         | 18.73%           | 5.08%            | N/A               |
| Info Only   | 13.89%           | 5.14%            | N/A               | Info Only         | 10.57%           | 3.63%            | N/A               | Info Only         | 11.53%           | 2.78%            | N/A               |
| Info Only   | 10.29%           | 3.55%            | N/A               | Info Only         | 11.33%           | 3.17%            | N/A               | Info Only         | 9.86%            | 2.82%            | N/A               |
| <b>Info Only</b>  | <b>11.15%</b>    | <b>3.96%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>8.50%</b>     | <b>2.97%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>11.31%</b>    | <b>3.45%</b>     | <b>N/A</b>        |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 2.34%            | 3.25%            | N/A               | Info Only         | 2.18%            | 3.56%            | N/A               | Info Only         | 2.36%            | 3.05%            | N/A               |
| Info Only   | 3.32%            | 4.97%            | N/A               | Info Only         | 1.94%            | 5.77%            | N/A               | Info Only         | 5.13%            | 8.18%            | N/A               |
| Info Only   | 9.59%            | 12.58%           | N/A               | Info Only         | 6.52%            | 12.95%           | N/A               | Info Only         | 5.95%            | 7.16%            | N/A               |
| <b>Info Only</b>  | <b>5.50%</b>     | <b>6.22%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>5.79%</b>     | <b>7.54%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>2.37%</b>     | <b>5.06%</b>     | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Meridian Health Plan of Michigan – MER**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period     | Standard   | Plan Result   | Standard Achieved |
|----------------------------------|------------------------|------------|---------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17        | 84%        | 84.55%        | Yes               |
|                                  | <b>Jul 17 – Sep 17</b> | <b>84%</b> | <b>84.93%</b> | <b>Yes</b>        |

|                          |                        |           |              |           |
|--------------------------|------------------------|-----------|--------------|-----------|
| Timely Completion of HRA | Jan 17 – Mar 17        | 9%        | 12.42%       | Yes       |
|                          | <b>Apr 17 – Jun 17</b> | <b>9%</b> | <b>8.32%</b> | <b>No</b> |

|                          |                        |                           |              |            |
|--------------------------|------------------------|---------------------------|--------------|------------|
| Completion of Annual HRA | Jun 16 – Sep 17        | Informational Only        | 8.10%        | N/A        |
|                          | <b>Sep 16 – Dec 17</b> | <b>Informational Only</b> | <b>8.22%</b> | <b>N/A</b> |

|   |                        |            |               |            |
|---|------------------------|------------|---------------|------------|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17        | 50%        | 55.12%        | Yes        |
|   | <b>Apr 17 – Jun 17</b> | <b>50%</b> | <b>50.55%</b> | <b>Yes</b> |

|  |                        |            |               |           |
|--|------------------------|------------|---------------|-----------|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17        | 83%        | 81.15%        | No        |
|  | <b>Oct 16 – Sep 17</b> | <b>83%</b> | <b>80.91%</b> | <b>No</b> |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 15.87%           | 4.94%            | N/A               | Info Only         | 13.34%           | 5.18%            | N/A               | Info Only         | 19.84%           | 4.28%            | N/A               |
| Info Only   | 14.52%           | 4.61%            | N/A               | Info Only         | 14.19%           | 4.26%            | N/A               | Info Only         | 14.73%           | 3.35%            | N/A               |
| Info Only   | 11.23%           | 3.63%            | N/A               | Info Only         | 12.25%           | 3.51%            | N/A               | Info Only         | 10.69%           | 3.20%            | N/A               |
| <b>Info Only</b>  | <b>12.82%</b>    | <b>3.56%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>10.26%</b>    | <b>3.08%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>11.53%</b>    | <b>2.99%</b>     | <b>N/A</b>        |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 0.94%            | 3.37%            | N/A               | Info Only         | 2.28%            | 3.03%            | N/A               | Info Only         | 1.80%            | 3.13%            | N/A               |
| Info Only   | 2.19%            | 4.75%            | N/A               | Info Only         | 2.11%            | 4.59%            | N/A               | Info Only         | 0.00%            | 0.00%            | N/A               |
| Info Only   | 7.72%            | 11.14%           | N/A               | Info Only         | 5.68%            | 10.61%           | N/A               | Info Only         | 5.68%            | 8.54%            | N/A               |
| <b>Info Only</b>  | <b>5.02%</b>     | <b>8.17%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>4.42%</b>     | <b>8.63%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>3.38%</b>     | <b>6.24%</b>     | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**HAP Midwest Health Plan – MID**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period     | Standard   | Plan Result   | Standard Achieved |
|----------------------------------|------------------------|------------|---------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17        | 84%        | 84.73%        | Yes               |
|                                  | <b>Jul 17 – Sep 17</b> | <b>84%</b> | <b>85.13%</b> | <b>Yes</b>        |

|                          |                        |           |            |            |
|--------------------------|------------------------|-----------|------------|------------|
| Timely Completion of HRA | Jan 17 – Mar 17        | 9%        | N/A        | N/A        |
|                          | <b>Apr 17 – Jun 17</b> | <b>9%</b> | <b>N/A</b> | <b>N/A</b> |

*N/A in the "Plan Result" column indicates that the plan had a numerator less than 5 or a denominator less than 30.*

|                          |                        |                           |               |            |
|--------------------------|------------------------|---------------------------|---------------|------------|
| Completion of Annual HRA | Jun 16 – Sep 17        | Informational Only        | N/A           | N/A        |
|                          | <b>Sep 16 – Dec 17</b> | <b>Informational Only</b> | <b>23.33%</b> | <b>N/A</b> |

*N/A in the "Plan Result" column indicates that the plan had a numerator less than 5 or a denominator less than 30.*

|   |                        |            |               |           |
|---|------------------------|------------|---------------|-----------|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17        | 50%        | 29.46%        | No        |
|   | <b>Apr 17 – Jun 17</b> | <b>50%</b> | <b>34.65%</b> | <b>No</b> |

|  |                        |            |               |           |
|--|------------------------|------------|---------------|-----------|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17        | 83%        | 53.19%        | No        |
|  | <b>Oct 16 – Sep 17</b> | <b>83%</b> | <b>54.83%</b> | <b>No</b> |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 25.00%           | 3.33%            | N/A               | Info Only         | 25.00%           | 0.00%            | N/A               | Info Only         | 0.00%            | 0.00%            | N/A               |
| Info Only   | 10.00%           | 4.17%            | N/A               | Info Only         | N/A              | 2.90%            | N/A               | Info Only         | 16.67%           | 2.99%            | N/A               |
| <b>Info Only</b>  | <b>18.18%</b>    | <b>3.23%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>0.00</b>      | <b>2.70%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>0.00%</b>     | <b>1.35%</b>     | <b>N/A</b>        |
| <b>Info Only</b>  | <b>25.00%</b>    | <b>3.85%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>50.00%</b>    | <b>3.41%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>28.57%</b>    | <b>3.09%</b>     | <b>N/A</b>        |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 0.00%            | 0.00%            | N/A               | Info Only         | 0.00%            | 11.11%           | N/A               | Info Only         | 0.00%            | 0.00%            | N/A               |
| Info Only   | 0.00%            | 0.00%            | N/A               | Info Only         | 0.00%            | 11.11%           | N/A               | Info Only         | 5.36%            | 8.62%            | N/A               |
| Info Only   | 14.29%           | 12.50%           | N/A               | Info Only         | 0.00%            | 7.14%            | N/A               | Info Only         | 0.00%            | 0.00%            | N/A               |
| <b>Info Only</b>  | <b>0.00%</b>     | <b>11.11%</b>    | <b>N/A</b>        | <b>Info Only</b>  | <b>16.67%</b>    | <b>0.00%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>28.57%</b>    | <b>0.00%</b>     | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Molina Healthcare of Michigan – MOL**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period | Standard | Plan Result | Standard Achieved |
|----------------------------------|--------------------|----------|-------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17    | 84%      | 85.83%      | Yes               |
|                                  | Jul 17 – Sep 17    | 84%      | 85.79%      | Yes               |

|                          |                 |    |       |    |
|--------------------------|-----------------|----|-------|----|
| Timely Completion of HRA | Jan 17 – Mar 17 | 9% | 8.04% | No |
|                          | Apr 17 – Jun 17 | 9% | 7.52% | No |

|                          |                 |                    |        |     |
|--------------------------|-----------------|--------------------|--------|-----|
| Completion of Annual HRA | Jun 16 – Sep 17 | Informational Only | 21.85% | N/A |
|                          | Sep 16 – Dec 17 | Informational Only | 20.99% | N/A |

|   |                 |     |        |     |
|---|-----------------|-----|--------|-----|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17 | 50% | 50.59% | Yes |
|   | Apr 17 – Jun 17 | 50% | 50.12% | Yes |

|  |                 |     |        |    |
|--|-----------------|-----|--------|----|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17 | 83% | 80.15% | No |
|  | Oct 16 – Sep 17 | 83% | 79.87% | No |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 16.04%           | 4.90%            | N/A               | Info Only         | 14.48%           | 4.99%            | N/A               | Info Only         | 20.16%           | 4.67%            | N/A               |
| Info Only   | 14.35%           | 4.91%            | N/A               | Info Only         | 13.00%           | 4.10%            | N/A               | Info Only         | 13.60%           | 3.00%            | N/A               |
| Info Only   | 12.21%           | 3.55%            | N/A               | Info Only         | 12.00%           | 2.89%            | N/A               | Info Only         | 10.66%           | 2.73%            | N/A               |
| Info Only   | 12.65%           | 3.44%            | N/A               | Info Only         | 10.56%           | 2.84%            | N/A               | Info Only         | 11.48%           | 2.90%            | N/A               |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 1.20%            | 2.41%            | N/A               | Info Only         | 1.75%            | 2.66%            | N/A               | Info Only         | 1.30%            | 2.52%            | N/A               |
| Info Only   | 1.67%            | 2.82%            | N/A               | Info Only         | 2.35%            | 3.47%            | N/A               | Info Only         | 7.56%            | 11.04%           | N/A               |
| Info Only   | 7.06%            | 9.16%            | N/A               | Info Only         | 5.00%            | 9.34%            | N/A               | Info Only         | 4.72%            | 5.25%            | N/A               |
| Info Only   | 5.00%            | 5.34%            | N/A               | Info Only         | 4.45%            | 6.51%            | N/A               | Info Only         | 3.01%            | 4.36%            | N/A               |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Priority Health Choice – PRI**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period | Standard | Plan Result | Standard Achieved |
|----------------------------------|--------------------|----------|-------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17    | 84%      | 84.09%      | Yes               |
|                                  | Jul 17 – Sep 17    | 84%      | 84.03%      | Yes               |

|                          |                 |    |        |     |
|--------------------------|-----------------|----|--------|-----|
| Timely Completion of HRA | Jan 17 – Mar 17 | 9% | 11.97% | Yes |
|                          | Apr 17 – Jun 17 | 9% | 7.54%  | No  |

|                          |                 |                    |       |     |
|--------------------------|-----------------|--------------------|-------|-----|
| Completion of Annual HRA | Jun 16 – Sep 17 | Informational Only | 7.89% | N/A |
|                          | Sep 16 – Dec 17 | Informational Only | 8.35% | N/A |

|   |                 |     |        |     |
|---|-----------------|-----|--------|-----|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17 | 50% | 59.94% | Yes |
|   | Apr 17 – Jun 17 | 50% | 56.45% | Yes |

|  |                 |     |        |    |
|--|-----------------|-----|--------|----|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17 | 83% | 82.59% | No |
|  | Oct 16 – Sep 17 | 83% | 82.39% | No |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 11.93%           | 5.24%            | N/A               | Info Only         | 15.37%           | 4.87%            | N/A               | Info Only         | 14.40%           | 4.99%            | N/A               |
| Info Only   | 13.57%           | 6.90%            | N/A               | Info Only         | 13.01%           | 5.75%            | N/A               | Info Only         | 12.42%           | 4.90%            | N/A               |
| Info Only   | 11.36%           | 4.29%            | N/A               | Info Only         | 10.13%           | 3.37%            | N/A               | Info Only         | 8.18%            | 3.23%            | N/A               |
| Info Only   | 11.96%           | 4.14%            | N/A               | Info Only         | 9.96%            | 3.47%            | N/A               | Info Only         | 13.77%           | 3.58%            | N/A               |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 2.16%            | 2.53%            | N/A               | Info Only         | 2.68%            | 4.14%            | N/A               | Info Only         | 1.37%            | 3.41%            | N/A               |
| Info Only   | 1.15%            | 5.61%            | N/A               | Info Only         | 1.59%            | 7.66%            | N/A               | Info Only         | 6.79%            | 5.61%            | N/A               |
| Info Only   | 9.45%            | 12.48%           | N/A               | Info Only         | 8.03%            | 10.93%           | N/A               | Info Only         | 8.98%            | 10.49%           | N/A               |
| Info Only   | 8.67%            | 9.89%            | N/A               | Info Only         | 8.49%            | 9.71%            | N/A               | Info Only         | 3.88%            | 7.46%            | N/A               |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Total Health Care – THC**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period | Standard | Plan Result | Standard Achieved |
|----------------------------------|--------------------|----------|-------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17    | 84%      | 86.01%      | Yes               |
|                                  | Jul 17 – Sep 17    | 84%      | 86.12%      | Yes               |

|                          |                 |    |       |    |
|--------------------------|-----------------|----|-------|----|
| Timely Completion of HRA | Jan 17 – Mar 17 | 9% | 6.43% | No |
|                          | Apr 17 – Jun 17 | 9% | 6.46% | No |

|                          |                 |                    |       |     |
|--------------------------|-----------------|--------------------|-------|-----|
| Completion of Annual HRA | Jun 16 – Sep 17 | Informational Only | 8.86% | N/A |
|                          | Sep 16 – Dec 17 | Informational Only | 8.56% | N/A |

|   |                 |     |        |    |
|---|-----------------|-----|--------|----|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17 | 50% | 47.10% | No |
|   | Apr 17 – Jun 17 | 50% | 44.55% | No |

|  |                 |     |        |    |
|--|-----------------|-----|--------|----|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17 | 83% | 76.45% | No |
|  | Oct 16 – Sep 17 | 83% | 76.41% | No |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 12.50%           | 3.80%            | N/A               | Info Only         | 19.70%           | 3.73%            | N/A               | Info Only         | 19.46%           | 3.02%            | N/A               |
| Info Only   | 16.92%           | 3.43%            | N/A               | Info Only         | 9.76%            | 3.55%            | N/A               | Info Only         | 15.11%           | 2.85%            | N/A               |
| Info Only   | 12.50%           | 2.87%            | N/A               | Info Only         | 11.76%           | 2.37%            | N/A               | Info Only         | 12.23%           | 2.37%            | N/A               |
| Info Only   | 14.48%           | 3.20%            | N/A               | Info Only         | 5.00%            | 2.20%            | N/A               | Info Only         | 16.85%           | 2.99%            | N/A               |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 0.00%            | 2.60%            | N/A               | Info Only         | 1.71%            | 3.30%            | N/A               | Info Only         | 2.42%            | 2.71%            | N/A               |
| Info Only   | 2.10%            | 1.68%            | N/A               | Info Only         | 3.33%            | 3.13%            | N/A               | Info Only         | 7.79%            | 7.62%            | N/A               |
| Info Only   | 6.06%            | 12.24%           | N/A               | Info Only         | 3.03%            | 7.84%            | N/A               | Info Only         | 10.37%           | 5.66%            | N/A               |
| Info Only   | 5.26%            | 6.57%            | N/A               | Info Only         | 3.15%            | 4.92%            | N/A               | Info Only         | 1.26%            | 4.30%            | N/A               |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**UnitedHealthcare Community Plan – UNI**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period     | Standard   | Plan Result   | Standard Achieved |
|----------------------------------|------------------------|------------|---------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17        | 84%        | 86.38%        | Yes               |
|                                  | <b>Jul 17 – Sep 17</b> | <b>84%</b> | <b>86.52%</b> | <b>Yes</b>        |

|                          |                        |           |               |            |
|--------------------------|------------------------|-----------|---------------|------------|
| Timely Completion of HRA | Jan 17 – Mar 17        | 9%        | 17.94%        | Yes        |
|                          | <b>Apr 17 – Jun 17</b> | <b>9%</b> | <b>15.56%</b> | <b>Yes</b> |

|                          |                        |                           |              |            |
|--------------------------|------------------------|---------------------------|--------------|------------|
| Completion of Annual HRA | Jun 16 – Sep 17        | Informational Only        | 7.43%        | N/A        |
|                          | <b>Sep 16 – Dec 17</b> | <b>Informational Only</b> | <b>9.38%</b> | <b>N/A</b> |

|   |                        |            |               |            |
|---|------------------------|------------|---------------|------------|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17        | 50%        | 53.75%        | Yes        |
|   | <b>Apr 17 – Jun 17</b> | <b>50%</b> | <b>53.67%</b> | <b>Yes</b> |

|  |                        |            |               |           |
|--|------------------------|------------|---------------|-----------|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17        | 83%        | 80.94%        | No        |
|  | <b>Oct 16 – Sep 17</b> | <b>83%</b> | <b>80.87%</b> | <b>No</b> |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [ <b>Feb 17 – Dec 18</b> ] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|--|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard  | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only  | 13.25%           | 4.07%            | N/A               | Info Only         | 13.74%           | 3.83%            | N/A               | Info Only         | 17.84%           | 4.15%            | N/A               |
| Info Only  | 13.59%           | 4.44%            | N/A               | Info Only         | 12.04%           | 3.88%            | N/A               | Info Only         | 13.46%           | 4.93%            | N/A               |
| Info Only  | 14.35%           | 5.37%            | N/A               | Info Only         | 14.70%           | 4.98%            | N/A               | Info Only         | 10.85%           | 3.18%            | N/A               |
| <b>Info Only</b>   | <b>12.29%</b>    | <b>4.09%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>10.38%</b>    | <b>2.99%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>9.21%</b>     | <b>3.08%</b>     | <b>N/A</b>        |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [ <b>Feb 17 – Dec 18</b> ] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|--|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard  | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only  | 1.33%            | 3.05%            | N/A               | Info Only         | 1.83%            | 3.95%            | N/A               | Info Only         | 2.75%            | 3.61%            | N/A               |
| Info Only  | 3.14%            | 5.19%            | N/A               | Info Only         | 2.70%            | 5.62%            | N/A               | Info Only         | 7.66%            | 12.39%           | N/A               |
| Info Only  | 7.18%            | 12.86%           | N/A               | Info Only         | 7.09%            | 9.13%            | N/A               | Info Only         | 5.08%            | 7.77%            | N/A               |
| <b>Info Only</b>   | <b>4.44%</b>     | <b>6.37%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>4.48%</b>     | <b>7.74%</b>     | <b>N/A</b>        | <b>Info Only</b>  | <b>3.80%</b>     | <b>5.72%</b>     | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications



Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Upper Peninsula Health Plan – UPP**

**HEALTHY MICHIGAN PLAN:**

| Performance Measure              | Measurement Period | Standard | Plan Result | Standard Achieved |
|----------------------------------|--------------------|----------|-------------|-------------------|
| Adults' Generic Drug Utilization | Apr 17 – Jun 17    | 84%      | 83.22%      | No                |
|                                  | Jul 17 – Sep 17    | 84%      | 83.30%      | No                |

|                          |                 |    |        |     |
|--------------------------|-----------------|----|--------|-----|
| Timely Completion of HRA | Jan 17 – Mar 17 | 9% | 8.41%  | No  |
|                          | Apr 17 – Jun 17 | 9% | 10.23% | Yes |

|                          |                 |                    |       |     |
|--------------------------|-----------------|--------------------|-------|-----|
| Completion of Annual HRA | Jun 16 – Sep 17 | Informational Only | 4.02% | N/A |
|                          | Sep 16 – Dec 17 | Informational Only | 4.94% | N/A |

|   |                 |     |        |     |
|---|-----------------|-----|--------|-----|
| Outreach/Engagement to Facilitate Entry to Primary Care | Jan 17 – Mar 17 | 50% | 55.06% | Yes |
|   | Apr 17 – Jun 17 | 50% | 58.01% | Yes |

|  |                 |     |        |    |
|--|-----------------|-----|--------|----|
| Adults' Access to Ambulatory Health Services | Jul 16 – Jun 17 | 83% | 82.94% | No |
|  | Oct 16 – Sep 17 | 83% | 82.57% | No |

| Transition into CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 10.00%           | 6.90%            | N/A               | Info Only         | 13.95%           | 6.75%            | N/A               | Info Only         | 9.55%            | 5.92%            | N/A               |
| Info Only   | 11.70%           | 5.00%            | N/A               | Info Only         | 10.21%           | 4.41%            | N/A               | Info Only         | 9.15%            | 3.95%            | N/A               |
| Info Only   | 5.45%            | 3.41%            | N/A               | Info Only         | 7.48%            | 4.52%            | N/A               | Info Only         | 8.57%            | 2.62%            | N/A               |
| Info Only   | 9.02%            | 3.30%            | N/A               | Info Only         | 7.06%            | 2.72%            | N/A               | Info Only         | 10.50%           | 0.00%            | N/A               |

| Transition out of CFP Status: [May 16 – Jun 17] [ Aug 16 – Sep 17] [ Nov 16 – Dec 17] [Feb 17 – Dec 18] |                  |                  |                   |                   |                  |                  |                   |                   |                  |                  |                   |
|---|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|
| Cohort 1 Standard   | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 2 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved | Cohort 3 Standard | >100% FPL Result | ≤100% FPL Result | Standard Achieved |
| Info Only   | 1.09%            | 2.25%            | N/A               | Info Only         | 4.32%            | 2.83%            | N/A               | Info Only         | 1.79%            | 3.74%            | N/A               |
| Info Only   | 2.28%            | 4.69%            | N/A               | Info Only         | 3.14%            | 5.21%            | N/A               | Info Only         | 2.70%            | 7.03%            | N/A               |
| Info Only   | 10.22%           | 12.30%           | N/A               | Info Only         | 7.38%            | 13.70%           | N/A               | Info Only         | 6.48%            | 9.79%            | N/A               |
| Info Only   | 6.13%            | 7.29%            | N/A               | Info Only         | 6.34%            | 100.00%          | N/A               | Info Only         | 8.40%            | 0.00%            | N/A               |

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 - For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Medical Services Administration  
Bureau of Medicaid Care Management and Quality Assurance

***PERFORMANCE MONITORING REPORT***

***HEALTHY MICHIGAN PLAN – DENTAL MEASURES***

**Composite – All Plans**



**April 2018**

Produced by:  
Quality Improvement and Program Development – Managed Care Plan Division

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## Performance Monitoring Report

### Executive Summary

This Dental Performance Monitoring Report (PMR) is produced by the Quality Improvement and Program Development (QIPD) Section of the Managed Care Plan Division (MCPD) to track quality, access, and utilization in the Michigan Medicaid program to better support high quality care for beneficiaries.

The Michigan Department of Health and Human Services (MDHHS) monitors the performance of the State’s Medicaid Health Plans (MHPs) through three (3) key performance measures aimed at improving the quality and efficiency of dental services provided to the Michigan residents enrolled in the Healthy Michigan Plan. The following HMP-Dental measures will be included in this report:

| <b>Healthy Michigan Plan</b>      |                                   |  |
|-----------------------------------|-----------------------------------|--|
| <i>Diagnostic Dental Services</i> | <i>Preventive Dental Services</i> | <i>Restorative (Dental Fillings) Dental Services</i> |

Data for these measures will be represented on a quarterly basis. The body of the report contains a cross-plan analysis of the most current data available for each of these measures. Measurement Periods may vary and are based on the specifications for that individual measure. Appendix A contains specific three letter codes identifying each of the MHPs. Appendix B contains the one-year plan specific analysis for each measure.

The following table displays the number of MHPs meeting or exceeding the standards for the performance measure versus total MHPs, as reported in the Performance Monitoring Report, during the listed quarter for fiscal year 2018 unless otherwise noted.

**Table 1: Fiscal Year 2018<sup>1</sup>**

| Quarterly Reported Measures                   | Reported in 1 <sup>st</sup> Quarter | Reported in 2 <sup>nd</sup> Quarter | Reported in 3 <sup>rd</sup> Quarter | Reported in 4 <sup>th</sup> Quarter |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Diagnostic Dental Services                    | N/A                                 | N/A                                 |                                     |                                     |
| Preventive Dental Services                    | N/A                                 | N/A                                 |                                     |                                     |
| Restorative (Dental Fillings) Dental Services | N/A                                 | N/A                                 |                                     |                                     |

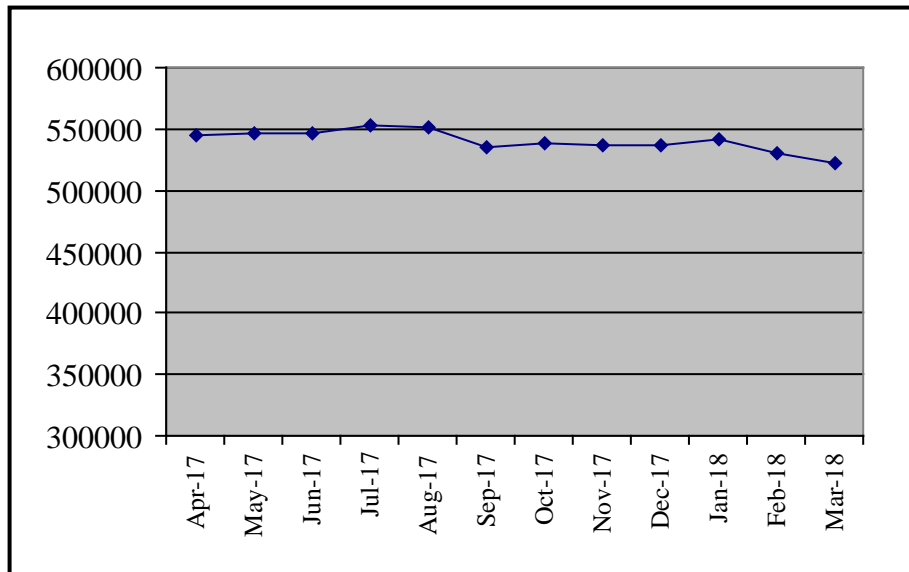
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<sup>1</sup> N/A will be shown for measures where the standard is Informational Only.

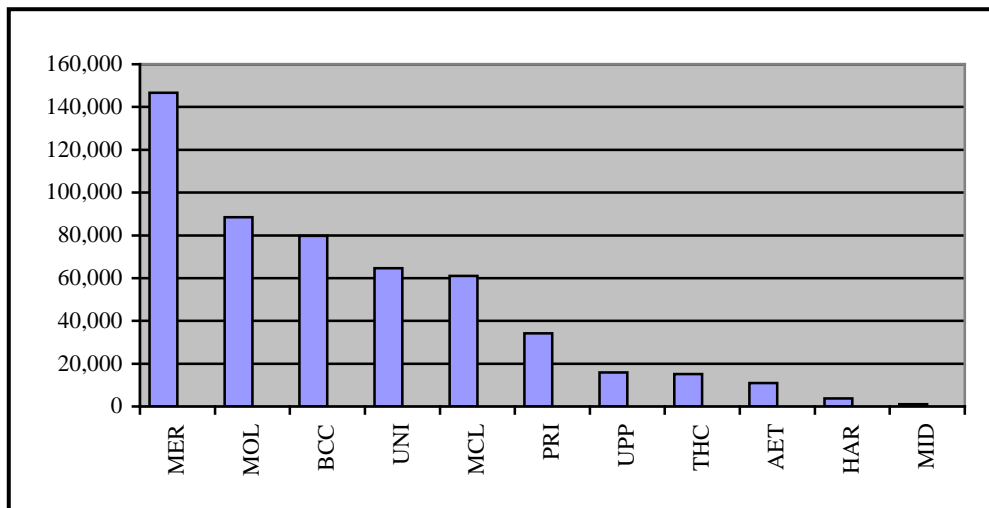
## Healthy Michigan Plan Enrollment

The Healthy Michigan Plan (HMP-MC) enrollment has decreased slightly over the past year. In March 2018, enrollment was 521,660, down 22,894 enrollees (4.2%) from April 2017. A decrease of 9,044 enrollees (1.7%) was realized between February 2018 and March 2018.

**Figure 1: HMP-MC Enrollment, April 2017 – March 2018**



**Figure 2: HMP-MC Enrollment by Medicaid Health Plan, March 2018**



## **Medicaid Health Plan News**

The Performance Monitoring Report contains data for all Healthy Michigan Medicaid Health Plans, where data is available. Eleven Medicaid Health Plans are contracted with the State of Michigan to provide comprehensive health and services.

## **Cross-Plan Performance Monitoring Analyses**

The following section includes a cross-plan analysis for each performance measure. An analysis of the most current data available for each performance measure is included.

**Diagnostic Dental Services**

**Measure**

The percentage of Healthy Michigan Plan enrollees between the ages of 19 and 64 who received at least one diagnostic dental service within the measurement period.

**Standard**

N/A – Informational Only

**Measurement Period**

October 2016 –September 2017

**Data Source**

MDHHS Data Warehouse

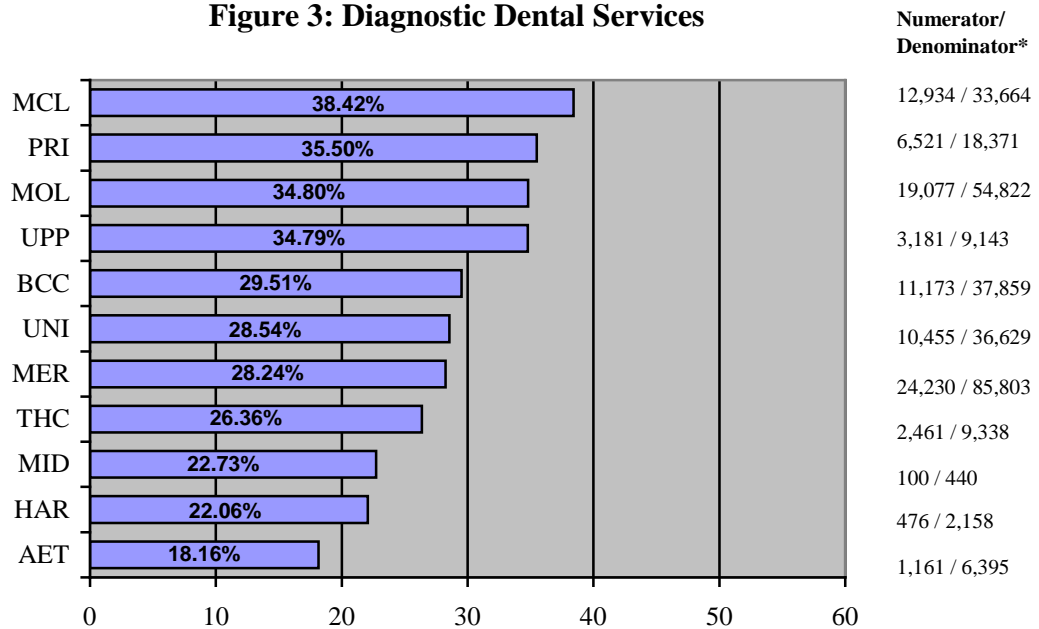
**Measurement Frequency**

Quarterly

**Table 2: Comparison across Medicaid Programs**

| Medicaid Program               | Numerator | Denominator | Percentage |
|--------------------------------|-----------|-------------|------------|
| HMP Fee For Service (FFS) Only | 929       | 7,045       | 13.19%     |
| HMP Managed Care (MC) Only     | 94,690    | 301,246     | 31.43%     |

**Figure 3: Diagnostic Dental Services**



**Diagnostic Dental Services Percentages**

\*Numerator depicts the number of eligible beneficiaries between the ages of 19 and 64 who had at least one diagnostic dental service. Denominator depicts the total number of eligible beneficiaries.

**Preventive Dental Services**

**Measure**

The percentage of Healthy Michigan Plan enrollees between the ages of 19 and 64 who received at least one preventive dental service within the measurement period.

**Standard**

N/A – Informational Only

**Measurement Period**

October 2016 –September 2017

**Data Source**

MDHHS Data Warehouse

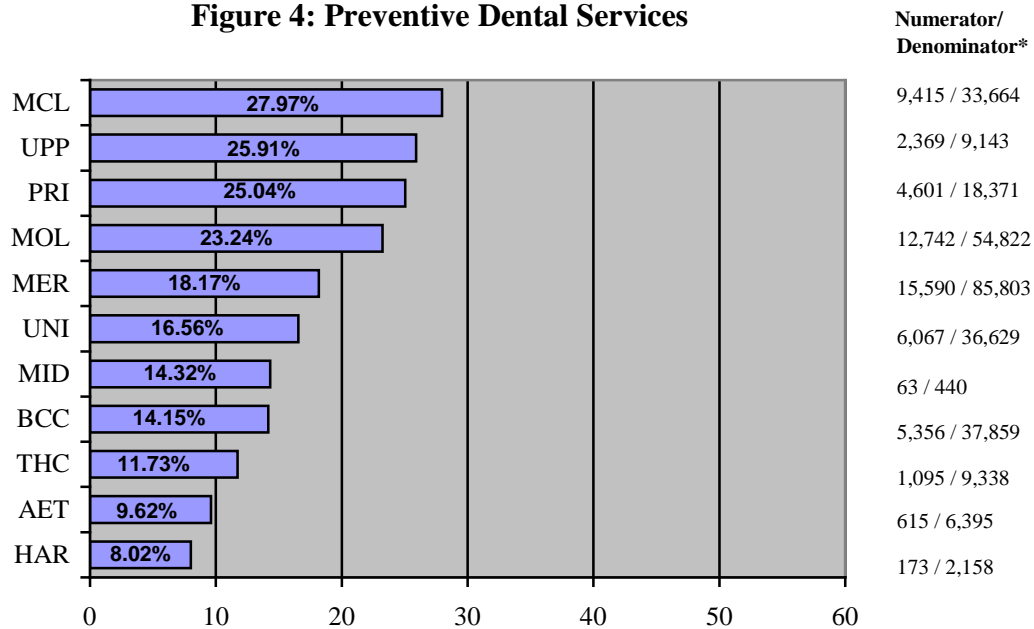
**Measurement Frequency**

Quarterly

**Table 3: Comparison across Medicaid Programs**

| Medicaid Program               | Numerator | Denominator | Percentage |
|--------------------------------|-----------|-------------|------------|
| HMP Fee For Service (FFS) Only | 465       | 7,045       | 6.60%      |
| HMP Managed Care (MC) Only     | 59,879    | 301,246     | 19.88%     |

**Figure 4: Preventive Dental Services**



**Preventive Dental Services Percentages**

\*Numerator depicts the number of eligible beneficiaries between the ages of 19 and 64 who had at least one preventive dental service. Denominator depicts the total number of eligible beneficiaries.



**Restorative (Dental Fillings) Services**

**Measure**

The percentage of total eligible Healthy Michigan Plan enrollees between the ages of 19 and 64 who received at least one restorative (dental fillings) dental service within the measurement period.

**Standard**

N/A – Informational Only

**Measurement Period**

October 2016 –September 2017

**Data Source**

MDHHS Data Warehouse

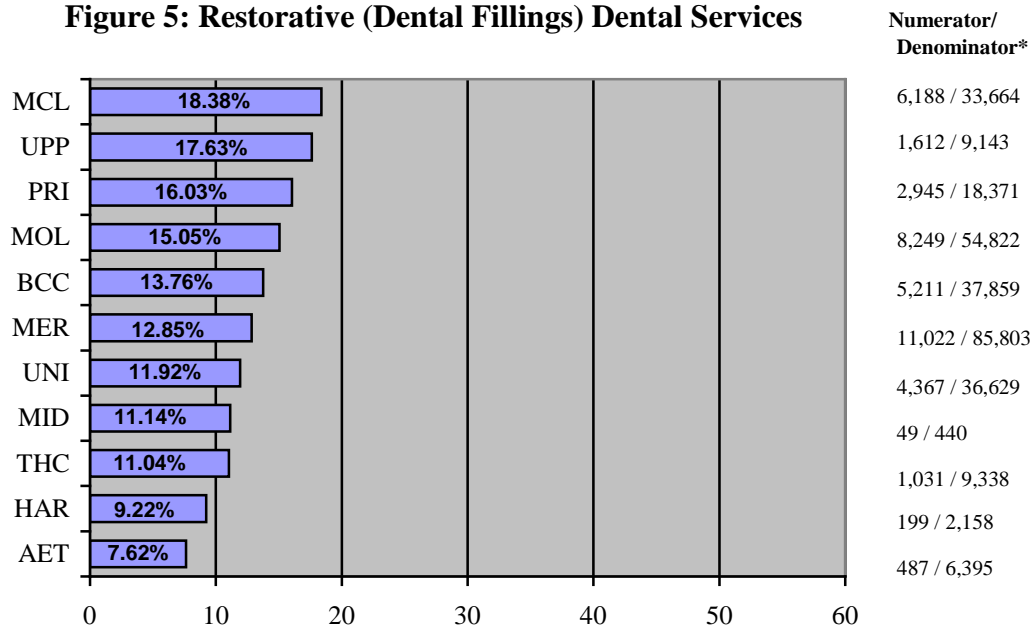
**Measurement Frequency**

Quarterly

**Table 4: Comparison across Medicaid Programs**

| Medicaid Program               | Numerator | Denominator | Percentage |
|--------------------------------|-----------|-------------|------------|
| HMP Fee For Service (FFS) Only | 396       | 7,045       | 5.62%      |
| HMP Managed Care (MC) Only     | 42,716    | 301,246     | 14.18%     |

**Figure 5: Restorative (Dental Fillings) Dental Services**



**Restorative (Dental Fillings) Dental Services Percentages**

\*Numerator depicts the number of eligible beneficiaries between the ages of 19 and 64 who had at least one restorative dental service. Denominator depicts the total number of eligible beneficiaries.

## Appendix A: Three Letter Medicaid Health Plan Codes

Below is a list of three letter codes established by MDHHS identifying each Medicaid Health Plan.

|     |                                  |
|-----|----------------------------------|
| AET | Aetna Better Health of Michigan  |
| BCC | Blue Cross Complete of Michigan  |
| HAR | Harbor Health Plan               |
| MCL | McLaren Health Plan              |
| MER | Meridian Health Plan of Michigan |
| MID | HAP Midwest Health Plan          |
| MOL | Molina Healthcare of Michigan    |
| PRI | Priority Health Choice           |
| THC | Total Health Care                |
| UNI | UnitedHealthcare Community Plan  |
| UPP | Upper Peninsula Health Plan      |

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Aetna Better Health of Michigan – AET**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure        | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|----------------------------|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services | Apr 16 – Mar 17        | Informational Only        | 19.14%        | N/A               |
|                            | Jul 16 – June 17       | Informational Only        | 18.47%        | N/A               |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>18.16%</b> | <b>N/A</b>        |

|                            |                        |                           |              |            |
|----------------------------|------------------------|---------------------------|--------------|------------|
| Preventive Dental Services | Apr 16 – Mar 17        | Informational Only        | 19.45%       | N/A        |
|                            | Jul 16 – June 17       | Informational Only        | 9.13%        | N/A        |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>9.62%</b> | <b>N/A</b> |

|  |                        |                           |              |            |
|--|------------------------|---------------------------|--------------|------------|
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 7.61%        | N/A        |
|  | Jul 16 – June 17       | Informational Only        | 7.38%        | N/A        |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>7.62%</b> | <b>N/A</b> |

- Shaded areas represent data that are newly reported this month.
- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Blue Cross Complete – BCC**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure                              | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|--|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 30.47%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 29.69%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>29.51%</b> | <b>N/A</b>        |
| Preventive Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 30.97%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 13.80%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>14.15%</b> | <b>N/A</b>        |
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 14.76%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 14.35%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>13.76%</b> | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.  
 - For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Harbor Health Plan – HAR**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure        | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|----------------------------|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services | Apr 16 – Mar 17        | Informational Only        | 19.50%        | N/A               |
|                            | Jul 16 – June 17       | Informational Only        | 21.64%        | N/A               |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>22.06%</b> | <b>N/A</b>        |

|                            |                        |                           |              |            |
|----------------------------|------------------------|---------------------------|--------------|------------|
| Preventive Dental Services | Apr 16 – Mar 17        | Informational Only        | 19.96%       | N/A        |
|                            | Jul 16 – June 17       | Informational Only        | 8.02%        | N/A        |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>8.02%</b> | <b>N/A</b> |

|  |                        |                           |              |            |
|--|------------------------|---------------------------|--------------|------------|
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 7.03%        | N/A        |
|  | Jul 16 – June 17       | Informational Only        | 8.29%        | N/A        |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>9.22%</b> | <b>N/A</b> |

- Shaded areas represent data that are newly reported this month.  
 - For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**McLaren Health Plan – MCL**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure                              | Measurement Period      | Standard                  | Plan Result   | Standard Achieved |
|--|-------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services                       | Apr 16 – Mar 17         | Informational Only        | 40.09%        | N/A               |
|  | Jul 16 – June 17        | Informational Only        | 38.99%        | N/A               |
|  | <b>Oct 16 – Sep 17</b>  | <b>Informational Only</b> | <b>38.42%</b> | <b>N/A</b>        |
| Preventive Dental Services                       | Apr 16 – Mar 17         | Informational Only        | 40.82%        | N/A               |
|  | Jul 16 – June 17        | Informational Only        | 28.27%        | N/A               |
|  | <b>Oct 16 – Sep 17</b>  | <b>Informational Only</b> | <b>27.97%</b> | <b>N/A</b>        |
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17         | Informational Only        | 19.46%        | N/A               |
|  | <b>Jul 16 – June 17</b> | <b>Informational Only</b> | <b>18.84%</b> | <b>N/A</b>        |
|  | <b>Oct 16 – Sep 17</b>  | <b>Informational Only</b> | <b>18.38%</b> | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Meridian Health Plan of Michigan – MER**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure        | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|----------------------------|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services | Apr 16 – Mar 17        | Informational Only        | 34.65%        | N/A               |
|                            | Jul 16 – June 17       | Informational Only        | 31.29%        | N/A               |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>28.24%</b> | <b>N/A</b>        |

|                            |                        |                           |               |            |
|----------------------------|------------------------|---------------------------|---------------|------------|
| Preventive Dental Services | Apr 16 – Mar 17        | Informational Only        | 35.71%        | N/A        |
|                            | Jul 16 – June 17       | Informational Only        | 20.41%        | N/A        |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>18.17%</b> | <b>N/A</b> |

|  |                        |                           |               |            |
|--|------------------------|---------------------------|---------------|------------|
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 15.99%        | N/A        |
|  | Jul 16 – June 17       | Informational Only        | 14.20%        | N/A        |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>12.85%</b> | <b>N/A</b> |

- Shaded areas represent data that are newly reported this month.
- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**HAP Midwest Health Plan – MID**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure        | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|----------------------------|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services | Apr 16 – Mar 17        | Informational Only        | 26.38%        | N/A               |
|                            | Jul 16 – June 17       | Informational Only        | 24.62%        | N/A               |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>22.73%</b> | <b>N/A</b>        |

|                            |                        |                           |               |            |
|----------------------------|------------------------|---------------------------|---------------|------------|
| Preventive Dental Services | Apr 16 – Mar 17        | Informational Only        | 26.38%        | N/A        |
|                            | Jul 16 – June 17       | Informational Only        | 15.23%        | N/A        |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>14.32%</b> | <b>N/A</b> |

|  |                        |                           |               |            |
|--|------------------------|---------------------------|---------------|------------|
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 12.88%        | N/A        |
|  | Jul 16 – June 17       | Informational Only        | 12.44%        | N/A        |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>11.14%</b> | <b>N/A</b> |

- Shaded areas represent data that are newly reported this month.  
 - For questions regarding measurement periods or standards, see the Performance Monitoring Specifications



Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Molina Healthcare of Michigan – MOL**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure        | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|----------------------------|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services | Apr 16 – Mar 17        | Informational Only        | 38.01%        | N/A               |
|                            | Jul 16 – June 17       | Informational Only        | 37.26%        | N/A               |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>34.80%</b> | <b>N/A</b>        |

|                            |                        |                           |               |            |
|----------------------------|------------------------|---------------------------|---------------|------------|
| Preventive Dental Services | Apr 16 – Mar 17        | Informational Only        | 38.59%        | N/A        |
|                            | Jul 16 – June 17       | Informational Only        | 25.12%        | N/A        |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>23.24%</b> | <b>N/A</b> |

|  |                        |                           |               |            |
|--|------------------------|---------------------------|---------------|------------|
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 17.57%        | N/A        |
|  | Jul 16 – June 17       | Informational Only        | 17.15%        | N/A        |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>15.05%</b> | <b>N/A</b> |

- Shaded areas represent data that are newly reported this month.

- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Priority Health Choice – PRI**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure                              | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|--|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 36.31%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 36.02%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>35.50%</b> | <b>N/A</b>        |
| Preventive Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 37.57%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 25.78%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>25.04%</b> | <b>N/A</b>        |
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 17.37%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 16.86%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>16.03%</b> | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.  
 - For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Total Health Care – THC**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure                              | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|--|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 24.91%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 26.36%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>26.36%</b> | <b>N/A</b>        |
| Preventive Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 25.33%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 11.83%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>11.73%</b> | <b>N/A</b>        |
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 11.09%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 11.60%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>11.04%</b> | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.  
 - For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**UnitedHealthcare Community Plan – UNI**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure                              | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|--|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 28.29%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 28.12%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>28.54%</b> | <b>N/A</b>        |
| Preventive Dental Services                       | Apr 16 – Mar 17        | Informational Only        | 28.54%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 16.12%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>16.56%</b> | <b>N/A</b>        |
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 12.13%        | N/A               |
|  | Jul 16 – June 17       | Informational Only        | 11.77%        | N/A               |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>11.92%</b> | <b>N/A</b>        |

- Shaded areas represent data that are newly reported this month.  
 - For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

Performance Monitoring Report

**Appendix B: One Year Plan-Specific Analysis**

**Upper Peninsula Health Plan – UPP**

**HEALTHY MICHIGAN PLAN – DENTAL MEASURES:**

| Performance Measure        | Measurement Period     | Standard                  | Plan Result   | Standard Achieved |
|----------------------------|------------------------|---------------------------|---------------|-------------------|
| Diagnostic Dental Services | Apr 16 – Mar 17        | Informational Only        | 34.08%        | N/A               |
|                            | Jul 16 – June 17       | Informational Only        | 34.62%        | N/A               |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>34.79%</b> | <b>N/A</b>        |

|                            |                        |                           |               |            |
|----------------------------|------------------------|---------------------------|---------------|------------|
| Preventive Dental Services | Apr 16 – Mar 17        | Informational Only        | 34.67%        | N/A        |
|                            | Jul 16 – June 17       | Informational Only        | 25.57%        | N/A        |
|                            | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>25.91%</b> | <b>N/A</b> |

|  |                        |                           |               |            |
|--|------------------------|---------------------------|---------------|------------|
| Restorative (Dental Fillings)<br>Dental Services | Apr 16 – Mar 17        | Informational Only        | 17.45%        | N/A        |
|  | Jul 16 – June 17       | Informational Only        | 17.51%        | N/A        |
|  | <b>Oct 16 – Sep 17</b> | <b>Informational Only</b> | <b>17.63%</b> | <b>N/A</b> |

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- For questions regarding measurement periods or standards, see the Performance Monitoring Specifications

# MI HEALTH ACCOUNT



## EXECUTIVE SUMMARY REPORT

**MARCH 2018**



## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

MAXIMUS contracts with each Healthy Michigan Plan health plan to operate the MI Health Account (MIHA). The MIHA documents health care costs and payments for health plan members eligible for the Healthy Michigan Plan. Any amount the beneficiary owes to the MIHA is reflected in the quarterly statement that is mailed to the beneficiary. The MIHA quarterly statement shows the total amount owed for co-pays and/or contributions.

A co-pay is a fixed amount beneficiaries pay for a health care service. Before a beneficiary is enrolled in managed care, the beneficiary will pay any co-pays directly to their provider at the time of service. Once enrolled in managed care, co-pays for health plan covered services will be paid into the MIHA.

A contribution is the amount of money that is paid toward health care coverage. **Beneficiaries with incomes at or below 100% of the Federal Poverty Level (FPL) will NOT have a contribution.** Beneficiaries above 100% FPL are required to pay contributions that are based on income and family size. The quarterly statement informs beneficiaries what to pay for co-pays and contributions each month for the next three months, includes payment coupons with instructions on how to make a payment, as well as tips on how to reduce costs (Healthy Behavior incentives). The statement lists the services the beneficiary has received, the amount the beneficiary has paid, what amount they still need to pay, and the amount the health plan has paid.

### Quarterly Statement Mailing Guidelines

- The first quarterly statement is mailed six months after a beneficiary joins a health plan. After that, quarterly statements are sent every three months.
- A beneficiary follows his or her own enrollment quarter based on their enrollment effective date.
- Quarterly statements are mailed by the 15<sup>th</sup> calendar day of each month
- Statements are not mailed to beneficiaries if there are no health care services to display or payment due for a particular quarter.

Chart 1 displays the statement mailing activity for the past three months. It also displays the calendar year totals since January 2017 and the program totals from October 2014 to December 2017.

| <b>Chart 1: Account Statement Mailing</b> |                   |                                   |  |   |  |
|---|-------------------|-----------------------------------|--|---|--|
| Month Statement Mailed                    | Statements Mailed | Statements Requiring a Copay Only | Statements Requiring a Contribution Only | Statements Requiring a Copay and Contribution | Percentage of Statements Requiring Payment |
| <b>Oct-17</b>                             | 131,945           | 24,488                            | 11,690                                   | 13,818  | 37.89%                                     |
| <b>Nov-17</b>                             | 105,201           | 18,052                            | 9,526                                    | 10,743  | 36.43%                                     |
| <b>Dec-17</b>                             | 110,740           | 19,002                            | 9,140                                    | 10,767  | 35.14%                                     |
| <b>Calendar YTD</b>                       | <b>1,321,251</b>  | <b>262,792</b>                    | <b>109,191</b>                           | <b>151,692</b>                                | <b>39.63%</b>                              |
| <b>Program Total</b>                      | <b>3,253,030</b>  | <b>695,698</b>                    | <b>285,298</b>                           | <b>354,694</b>                                | <b>41.06%</b>                              |

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Payments for the MIHA are due on the 15<sup>th</sup> of the month following the month they were billed.

Chart 2 displays a collection history of the number of beneficiaries that have paid co-pays and contributions. Completed quarterly payment cycles are explained and reflected in Chart 3. Calendar year totals are from January 2017. Program totals are from October 2014 through December 2017. Please note that beneficiaries that pay both co-pays and contributions will show in each chart.

| <b>Copays</b>        |                              |                              |                                  |  |  |
|----------------------|------------------------------|------------------------------|----------------------------------|--|--|
| Statement Month      | Amount of copays owed        | Amount of copays paid        | Percentage of copays paid        | Number of beneficiaries who owed copays        | Number of beneficiaries who paid copays        |
| <b>Oct-17</b>        | \$385,073.56                 | \$126,469.39                 | 33%                              | 38,306   | 15,405   |
| <b>Nov-17</b>        | \$272,069.65                 | \$91,892.49                  | 34%                              | 28,795   | 11,084   |
| <b>Dec-17</b>        | \$277,156.02                 | \$86,666.73                  | 31%                              | 29,769   | 11,047   |
| <b>Calendar YTD</b>  | <b>\$3,531,180.49</b>        | <b>\$1,415,565.80</b>        | <b>40%</b>                       | <b>414,484</b>                                 | <b>188,302</b>                                 |
| <b>Program Total</b> | <b>\$8,174,659.60</b>        | <b>\$3,453,470.97</b>        | <b>42%</b>                       | <b>1,050,392</b>                               | <b>485,230</b>                                 |
| <b>Contributions</b> |                              |                              |                                  |  |  |
| Statement Month      | Amount of contributions owed | Amount of contributions paid | Percentage of contributions paid | Number of beneficiaries who owed contributions | Number of beneficiaries who paid contributions |
| <b>Oct-17</b>        | \$1,629,306.85               | \$422,623.48                 | 26%                              | 25,508   | 9,939  |
| <b>Nov-17</b>        | \$1,280,519.45               | \$335,400.20                 | 26%                              | 20,269   | 7,769  |
| <b>Dec-17</b>        | \$1,255,134.70               | \$287,135.10                 | 23%                              | 19,907   | 7,375  |
| <b>Calendar YTD</b>  | <b>\$16,421,947.01</b>       | <b>\$5,091,928.59</b>        | <b>31%</b>                       | <b>260,883</b>                                 | <b>114,819</b>                                 |
| <b>Program Total</b> | <b>\$37,756,475.28</b>       | <b>\$12,796,645.16</b>       | <b>34%</b>                       | <b>639,992</b>                                 | <b>301,728</b>                                 |



## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Chart 3 displays the total amount collected by completed quarter, by enrollment month. For example, beneficiaries who enrolled in May 2014 received their first quarterly statement in November 2014. These individuals had until February 2015 to pay in full, which constitutes a completed quarter. Please note that the Percentage Collected will change even in completed quarters because payments received are applied to the oldest invoice owed.

| <b>Chart 3: Quarterly Collection</b> |                             |                    |                         |                             |
|--------------------------------------|-----------------------------|--------------------|-------------------------|-----------------------------|
| <b>Enrollment Month</b>              | <b>Quarterly Pay Cycles</b> | <b>Amount Owed</b> | <b>Amount Collected</b> | <b>Percentage Collected</b> |
| <b>Apr-14</b>                        | Oct 2014 - Dec 2014         | \$23,538.53        | \$16,464.90             | 69.95%                      |
|                                      | Jan 2015 - Mar 2015         | \$192,895.24       | \$147,148.77            | 76.28%                      |
|                                      | Apr 2015 - Jun 2015         | \$165,224.47       | \$122,102.40            | 73.90%                      |
|                                      | Jul 2015 - Sep 2015         | \$162,747.09       | \$115,421.62            | 70.92%                      |
|                                      | Oct 2015 - Dec 2015         | \$153,149.66       | \$106,513.43            | 69.55%                      |
|                                      | Jan 2016 - Mar 2016         | \$139,418.33       | \$96,531.60             | 69.24%                      |
|                                      | Apr 2016 - Jun 2016         | \$186,402.87       | \$118,222.51            | 63.42%                      |
|                                      | Jul 2016 - Sep 2016         | \$137,793.06       | \$78,099.77             | 56.68%                      |
|                                      | Oct 2016 - Dec 2016         | \$172,453.95       | \$101,508.89            | 58.86%                      |
|                                      | Jan 2017 - Mar 2017         | \$170,680.50       | \$98,740.22             | 57.85%                      |
|                                      | Apr 2017 - Jun 2017         | \$147,490.25       | \$68,589.60             | 46.50%                      |
|                                      | Jul 2017 - Sep 2017         | \$127,637.45       | \$49,831.28             | 39.04%                      |
|                                      | Oct 2017 - Dec 2017         | \$121,339.16       | \$44,940.00             | 37.04%                      |
| Jan 2018 - Mar 2018                  | \$124,369.50                | \$38,502.97        | 30.96%                  |                             |
| <b>May-14</b>                        | Nov 2014 - Jan 2015         | \$35,660.43        | \$27,982.53             | 78.47%                      |
|                                      | Feb 2015 - Apr 2015         | \$56,561.54        | \$43,405.59             | 76.74%                      |
|                                      | May 2015 - Jul 2015         | \$45,845.47        | \$34,631.79             | 75.54%                      |
|                                      | Aug 2015 - Oct 2015         | \$41,601.21        | \$31,026.88             | 74.58%                      |
|                                      | Nov 2015 - Jan 2016         | \$39,456.66        | \$29,452.14             | 74.64%                      |
|                                      | Feb 2016 - Apr 2016         | \$37,381.78        | \$27,195.50             | 72.75%                      |
|                                      | May 2016 - Jul 2016         | \$44,816.49        | \$29,537.55             | 65.91%                      |
|                                      | Aug 2016 - Oct 2016         | \$39,386.29        | \$25,894.75             | 65.75%                      |
|                                      | Nov 2016 - Jan 2017         | \$44,982.46        | \$30,030.64             | 66.76%                      |
|                                      | Feb 2017 - Apr 2017         | \$40,345.19        | \$25,113.44             | 62.25%                      |
|                                      | May 2017 - Jul 2017         | \$35,548.59        | \$18,155.33             | 51.07%                      |
|                                      | Aug 2017 - Oct 2017         | \$34,889.23        | \$16,870.40             | 48.35%                      |
| Nov 2017 - Jan 2018                  | \$31,476.52                 | \$15,067.36        | 47.87%                  |                             |

**Chart 3 continued on page 5**

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

**Chart 3 continued from page 4**

| <b>Chart 3: Quarterly Collection</b> |                             |                    |                         |                             |
|--------------------------------------|-----------------------------|--------------------|-------------------------|-----------------------------|
| <b>Enrollment Month</b>              | <b>Quarterly Pay Cycles</b> | <b>Amount Owed</b> | <b>Amount Collected</b> | <b>Percentage Collected</b> |
| <b>Jun-14</b>                        | Dec 2014 - Feb 2015         | \$455,678.75       | \$362,594.78            | 79.57%                      |
|                                      | Mar 2015 - May 2015         | \$347,832.33       | \$276,718.60            | 79.56%                      |
|                                      | Jun 2015 - Aug 2015         | \$346,178.04       | \$272,885.66            | 78.83%                      |
|                                      | Sep 2015 - Nov 2015         | \$327,023.22       | \$250,765.74            | 76.68%                      |
|                                      | Dec 2015 - Feb 2016         | \$234,070.69       | \$177,160.42            | 75.69%                      |
|                                      | Mar 2016 - May 2016         | \$263,587.53       | \$194,606.28            | 73.83%                      |
|                                      | Jun 2016 - Aug 2016         | \$219,032.83       | \$147,879.44            | 67.51%                      |
|                                      | Sep 2016 - Nov 2016         | \$304,532.15       | \$217,869.56            | 71.54%                      |
|                                      | Dec 2016 - Feb 2017         | \$279,584.54       | \$193,464.74            | 69.20%                      |
|                                      | Mar 2017 - May 2017         | \$246,886.32       | \$155,800.01            | 63.11%                      |
|                                      | Jun 2017 - Aug 2017         | \$225,041.73       | \$124,081.48            | 55.14%                      |
|                                      | Sep 2017 - Nov 2017         | \$218,916.30       | \$115,347.50            | 52.69%                      |
| Dec 2017 - Feb 2018                  | \$195,848.26                | \$94,362.29        | 48.18%                  |                             |
| <b>Jul-14</b>                        | Jan 2015 - Mar 2015         | \$339,717.83       | \$257,784.79            | 75.88%                      |
|                                      | Apr 2015 - Jun 2015         | \$251,217.94       | \$191,119.26            | 76.08%                      |
|                                      | Jul 2015 - Sep 2015         | \$241,449.53       | \$180,485.04            | 74.75%                      |
|                                      | Oct 2015 - Dec 2015         | \$220,518.16       | \$162,528.50            | 73.70%                      |
|                                      | Jan 2016 - Mar 2016         | \$194,636.59       | \$142,395.37            | 73.16%                      |
|                                      | Apr 2016 - Jun 2016         | \$209,780.15       | \$142,978.64            | 68.16%                      |
|                                      | Jul 2016 - Sep 2016         | \$162,837.22       | \$102,156.71            | 62.74%                      |
|                                      | Oct 2016 - Dec 2016         | \$189,786.10       | \$121,711.08            | 64.13%                      |
|                                      | Jan 2017 - Mar 2017         | \$181,164.40       | \$111,748.46            | 61.68%                      |
|                                      | Apr 2017 - Jun 2017         | \$156,340.58       | \$77,532.45             | 49.59%                      |
|                                      | Jul 2017 - Sep 2017         | \$137,957.60       | \$60,036.81             | 43.52%                      |
|                                      | Oct 2017 - Dec 2017         | \$127,581.78       | \$52,845.28             | 41.42%                      |
| Jan 2018 - Mar 2018                  | \$126,732.15                | \$43,887.37        | 34.63%                  |                             |

**Chart 3 continued on page 6**

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Chart 3 continued from page 5

| Chart 3: Quarterly Collection |                      |              |                  |                      |
|-------------------------------|----------------------|--------------|------------------|----------------------|
| Enrollment Month              | Quarterly Pay Cycles | Amount Owed  | Amount Collected | Percentage Collected |
| <b>Aug-14</b>                 | Feb 2015 - Apr 2015  | \$169,632.78 | \$129,806.23     | 76.52%               |
|                               | May 2015 - Jul 2015  | \$121,489.66 | \$89,928.71      | 74.02%               |
|                               | Aug 2015 - Oct 2015  | \$111,005.72 | \$86,268.97      | 77.72%               |
|                               | Nov 2015 - Jan 2016  | \$103,188.07 | \$78,696.95      | 76.27%               |
|                               | Feb 2016 - Apr 2016  | \$96,277.24  | \$71,870.83      | 74.65%               |
|                               | May 2016 - Jul 2016  | \$103,954.06 | \$68,311.64      | 65.71%               |
|                               | Aug 2016 - Oct 2016  | \$85,298.47  | \$55,034.75      | 64.52%               |
|                               | Nov 2016 - Jan 2017  | \$100,046.99 | \$65,631.53      | 65.60%               |
|                               | Feb 2017 - Apr 2017  | \$94,328.29  | \$60,715.52      | 64.37%               |
|                               | May 2017 - Jul 2017  | \$77,940.35  | \$36,767.16      | 47.17%               |
|                               | Aug 2017 - Oct 2017  | \$71,122.99  | \$31,398.39      | 44.15%               |
|                               | Nov 2017 - Jan 2018  | \$66,335.59  | \$27,750.24      | 41.83%               |
| <b>Sep-14</b>                 | Mar 2015 - May 2015  | \$212,041.44 | \$152,688.85     | 72.01%               |
|                               | Jun 2015 - Aug 2015  | \$147,194.82 | \$106,055.18     | 72.05%               |
|                               | Sep 2015 - Nov 2015  | \$149,703.93 | \$107,992.51     | 72.14%               |
|                               | Dec 2015 - Feb 2016  | \$120,408.14 | \$86,132.59      | 71.53%               |
|                               | Mar 2016 - May 2016  | \$135,105.23 | \$90,841.36      | 67.24%               |
|                               | Jun 2016 - Aug 2016  | \$96,110.21  | \$54,841.20      | 57.06%               |
|                               | Sep 2016 - Nov 2016  | \$111,698.56 | \$69,450.69      | 62.18%               |
|                               | Dec 2016 - Feb 2017  | \$110,570.80 | \$69,335.27      | 62.71%               |
|                               | Mar 2017 - May 2017  | \$103,342.42 | \$56,053.54      | 54.24%               |
|                               | Jun 2017 - Aug 2017  | \$86,483.98  | \$38,179.15      | 44.15%               |
|                               | Sep 2017 - Nov 2017  | \$78,510.56  | \$32,104.58      | 40.89%               |
|                               | Dec 2017 - Feb 2018  | \$75,916.26  | \$28,586.09      | 37.65%               |

Chart 3 continued on page 7

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Chart 3 continued from page 6

| Chart 3: Quarterly Collection |                      |              |                  |                      |
|-------------------------------|----------------------|--------------|------------------|----------------------|
| Enrollment Month              | Quarterly Pay Cycles | Amount Owed  | Amount Collected | Percentage Collected |
| <b>Oct-14</b>                 | Apr 2015 - Jun 2015  | \$173,533.65 | \$123,226.60     | 71.01%               |
|                               | Jul 2015 - Sep 2015  | \$125,196.00 | \$92,217.55      | 73.66%               |
|                               | Oct 2015 - Dec 2015  | \$124,344.65 | \$91,483.76      | 73.57%               |
|                               | Jan 2016 - Mar 2016  | \$118,859.94 | \$86,671.15      | 72.92%               |
|                               | Apr 2016 - Jun 2016  | \$135,154.25 | \$89,651.66      | 66.33%               |
|                               | Jul 2016 - Sep 2016  | \$99,585.00  | \$57,879.01      | 58.12%               |
|                               | Oct 2016 - Dec 2016  | \$114,895.29 | \$72,330.24      | 62.95%               |
|                               | Jan 2017 - Mar 2017  | \$111,747.90 | \$69,059.63      | 61.80%               |
|                               | Apr 2017 - Jun 2017  | \$95,119.94  | \$46,434.72      | 48.82%               |
|                               | Jul 2017 - Sep 2017  | \$79,953.64  | \$33,925.92      | 42.43%               |
|                               | Oct 2017 - Dec 2017  | \$73,639.56  | \$28,972.94      | 39.34%               |
|                               | Jan 2018 - Mar 2018  | \$72,487.53  | \$24,459.48      | 33.74%               |
| <b>Nov-14</b>                 | May 2015 - Jul 2015  | \$194,437.79 | \$138,025.26     | 70.99%               |
|                               | Aug 2015 - Oct 2015  | \$125,791.12 | \$91,017.50      | 72.36%               |
|                               | Nov 2015 - Jan 2016  | \$132,415.02 | \$99,206.50      | 74.92%               |
|                               | Feb 2016 - Apr 2016  | \$133,145.59 | \$95,439.03      | 71.68%               |
|                               | May 2016 - Jul 2016  | \$153,957.10 | \$92,509.44      | 60.09%               |
|                               | Aug 2016 - Oct 2016  | \$117,021.26 | \$66,915.11      | 57.18%               |
|                               | Nov 2016 - Jan 2017  | \$137,872.18 | \$83,878.64      | 60.84%               |
|                               | Feb 2017 - Apr 2017  | \$132,792.80 | \$76,246.23      | 57.42%               |
|                               | May 2017 - Jul 2017  | \$112,615.19 | \$45,871.12      | 40.73%               |
|                               | Aug 2017 - Oct 2017  | \$89,380.79  | \$34,923.64      | 39.07%               |
|                               | Nov 2017 - Jan 2018  | \$83,816.76  | \$31,752.44      | 37.88%               |

Chart 3 continued on page 8

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Chart 3 continued from page 7

| Chart 3: Quarterly Collection |                      |              |                  |                      |
|-------------------------------|----------------------|--------------|------------------|----------------------|
| Enrollment Month              | Quarterly Pay Cycles | Amount Owed  | Amount Collected | Percentage Collected |
| <b>Dec-14</b>                 | Jun 2015 - Aug 2015  | \$105,007.89 | \$77,328.28      | 73.64%               |
|                               | Sep 2015 - Nov 2015  | \$81,559.22  | \$62,325.16      | 76.42%               |
|                               | Dec 2015 - Feb 2016  | \$67,273.11  | \$51,551.11      | 76.63%               |
|                               | Mar 2016 - May 2016  | \$80,004.82  | \$57,667.45      | 72.08%               |
|                               | Jun 2016 - Aug 2016  | \$67,617.36  | \$39,968.16      | 59.11%               |
|                               | Sep 2016 - Nov 2016  | \$71,005.98  | \$42,946.91      | 60.48%               |
|                               | Dec 2016 - Feb 2017  | \$69,403.98  | \$42,045.33      | 60.58%               |
|                               | Mar 2017 - May 2017  | \$68,788.22  | \$37,379.36      | 54.34%               |
|                               | Jun 2017 - Aug 2017  | \$57,822.52  | \$23,990.08      | 41.49%               |
|                               | Sep 2017 - Nov 2017  | \$49,172.15  | \$19,856.90      | 40.38%               |
| Dec 2017 - Feb 2018           | \$47,074.49          | \$17,437.87  | 37.04%           |                      |
| <b>Jan-15</b>                 | Jul 2015 - Sep 2015  | \$211,094.27 | \$159,827.90     | 75.71%               |
|                               | Oct 2015 - Dec 2015  | \$170,060.60 | \$127,584.04     | 75.02%               |
|                               | Jan 2016 - Mar 2016  | \$165,766.31 | \$126,157.84     | 76.11%               |
|                               | Apr 2016 - Jun 2016  | \$190,363.73 | \$132,050.49     | 69.37%               |
|                               | Jul 2016 - Sep 2016  | \$155,779.15 | \$93,336.44      | 59.92%               |
|                               | Oct 2016 - Dec 2016  | \$161,581.38 | \$101,735.76     | 62.96%               |
|                               | Jan 2017 - Mar 2017  | \$163,329.67 | \$103,010.84     | 63.07%               |
|                               | Apr 2017 - Jun 2017  | \$142,537.23 | \$72,394.34      | 50.79%               |
|                               | Jul 2017 - Sep 2017  | \$124,809.73 | \$54,543.76      | 43.70%               |
|                               | Oct 2017 - Dec 2017  | \$111,633.95 | \$45,615.08      | 40.86%               |
| Jan 2018 - Mar 2018           | \$109,121.54         | \$38,181.62  | 34.99%           |                      |
| <b>Feb-15</b>                 | Aug 2015 - Oct 2015  | \$205,825.69 | \$155,008.61     | 75.31%               |
|                               | Nov 2015 - Jan 2016  | \$132,637.64 | \$103,451.06     | 78.00%               |
|                               | Feb 2016 - Apr 2016  | \$147,066.13 | \$115,691.67     | 78.67%               |
|                               | May 2016 - Jul 2016  | \$190,224.49 | \$128,432.22     | 67.52%               |
|                               | Aug 2016 - Oct 2016  | \$152,102.19 | \$98,238.69      | 64.59%               |
|                               | Nov 2016 - Jan 2017  | \$152,261.42 | \$99,456.95      | 65.32%               |
|                               | Feb 2017 - Apr 2017  | \$151,818.44 | \$96,631.39      | 63.65%               |
|                               | May 2017 - Jul 2017  | \$135,086.70 | \$65,214.34      | 48.28%               |
|                               | Aug 2017 - Oct 2017  | \$118,704.32 | \$55,048.97      | 46.37%               |
|                               | Nov 2017 - Jan 2018  | \$100,898.27 | \$45,270.75      | 44.87%               |

Chart 3 continued on page 9

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Chart 3 continued from page 8

| Chart 3: Quarterly Collection |                      |              |                  |                      |
|-------------------------------|----------------------|--------------|------------------|----------------------|
| Enrollment Month              | Quarterly Pay Cycles | Amount Owed  | Amount Collected | Percentage Collected |
| <b>Mar-15</b>                 | Sep 2015 - Nov 2015  | \$221,242.84 | \$155,847.81     | 70.44%               |
|                               | Dec 2015 - Feb 2016  | \$100,479.39 | \$74,065.59      | 73.71%               |
|                               | Mar 2016 - May 2016  | \$109,707.83 | \$82,583.73      | 75.28%               |
|                               | Jun 2016 - Aug 2016  | \$125,071.44 | \$83,014.99      | 66.37%               |
|                               | Sep 2016 - Nov 2016  | \$129,431.15 | \$85,776.21      | 66.27%               |
|                               | Dec 2016 - Feb 2017  | \$114,228.05 | \$72,781.46      | 63.72%               |
|                               | Mar 2017 - May 2017  | \$115,388.26 | \$65,672.94      | 56.91%               |
|                               | Jun 2017 - Aug 2017  | \$106,807.70 | \$49,263.74      | 46.12%               |
|                               | Sep 2017 - Nov 2017  | \$95,723.58  | \$40,976.92      | 42.81%               |
|                               | Dec 2017 - Feb 2018  | \$80,193.73  | \$32,019.90      | 39.93%               |
| <b>Apr-15</b>                 | Oct 2015 - Dec 2015  | \$275,794.91 | \$192,520.77     | 69.81%               |
|                               | Jan 2016 - Mar 2016  | \$137,255.70 | \$101,394.51     | 73.87%               |
|                               | Apr 2016 - Jun 2016  | \$171,555.01 | \$124,933.29     | 72.82%               |
|                               | Jul 2016 - Sep 2016  | \$149,045.06 | \$98,405.01      | 66.02%               |
|                               | Oct 2016 - Dec 2016  | \$156,066.48 | \$100,258.37     | 64.24%               |
|                               | Jan 2017 - Mar 2017  | \$143,487.36 | \$90,812.76      | 63.29%               |
|                               | Apr 2017 - Jun 2017  | \$136,742.74 | \$73,676.48      | 53.88%               |
|                               | Jul 2017 - Sep 2017  | \$123,674.71 | \$59,518.44      | 48.12%               |
|                               | Oct 2017 - Dec 2017  | \$113,241.87 | \$50,957.34      | 45.00%               |
|                               | Jan 2018 - Mar 2018  | \$103,605.80 | \$38,306.49      | 36.97%               |
| <b>May-15</b>                 | Nov 2015 - Jan 2016  | \$189,797.60 | \$134,976.53     | 71.12%               |
|                               | Feb 2016 - Apr 2016  | \$124,947.36 | \$96,195.52      | 76.99%               |
|                               | May 2016 - Jul 2016  | \$166,736.30 | \$116,927.32     | 70.13%               |
|                               | Aug 2016 - Oct 2016  | \$144,075.73 | \$96,334.38      | 66.86%               |
|                               | Nov 2016 - Jan 2017  | \$140,824.34 | \$90,522.34      | 64.28%               |
|                               | Feb 2017 - Apr 2017  | \$120,630.76 | \$75,785.39      | 62.82%               |
|                               | May 2017 - Jul 2017  | \$117,777.67 | \$60,585.05      | 51.44%               |
|                               | Aug 2017 - Oct 2017  | \$108,063.26 | \$52,706.88      | 48.77%               |
|                               | Nov 2017 - Jan 2018  | \$97,020.13  | \$45,222.36      | 46.61%               |

Chart 3 continued on page 10

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

**Chart 3 continued from page 9**

| <b>Chart 3: Quarterly Collection</b> |                     |              |              |        |
|--------------------------------------|---------------------|--------------|--------------|--------|
| <b>Jun-15</b>                        | Dec 2015 - Feb 2016 | \$159,036.55 | \$105,216.82 | 66.16% |
|                                      | Mar 2016 - May 2016 | \$105,923.10 | \$73,864.87  | 69.73% |
|                                      | Jun 2016 - Aug 2016 | \$97,560.14  | \$62,429.28  | 63.99% |
|                                      | Sep 2016 - Nov 2016 | \$110,104.15 | \$69,015.72  | 62.68% |
|                                      | Dec 2016 - Feb 2017 | \$99,148.59  | \$59,954.22  | 60.47% |
|                                      | Mar 2017 - May 2017 | \$89,021.85  | \$48,768.72  | 54.78% |
|                                      | Jun 2017 - Aug 2017 | \$81,836.09  | \$38,628.64  | 47.20% |
|                                      | Sep 2017 - Nov 2017 | \$78,580.58  | \$34,479.72  | 43.88% |
|                                      | Dec 2017 - Feb 2018 | \$70,127.63  | \$27,076.46  | 38.61% |
| <b>Jul-15</b>                        | Jan 2016 - Mar 2016 | \$150,729.48 | \$104,702.16 | 69.46% |
|                                      | Apr 2016 - Jun 2016 | \$110,887.31 | \$75,379.22  | 67.98% |
|                                      | Jul 2016 - Sep 2016 | \$93,904.39  | \$58,623.90  | 62.43% |
|                                      | Oct 2016 - Dec 2016 | \$97,380.20  | \$59,080.19  | 60.67% |
|                                      | Jan 2017 - Mar 2017 | \$91,200.62  | \$53,150.36  | 58.28% |
|                                      | Apr 2017 - Jun 2017 | \$78,258.50  | \$35,832.08  | 45.79% |
|                                      | Jul 2017 - Sep 2017 | \$71,941.43  | \$30,774.87  | 42.78% |
|                                      | Oct 2017 - Dec 2017 | \$66,931.25  | \$25,581.56  | 38.22% |
| Jan 2018 - Mar 2018                  | \$65,766.13         | \$20,341.34  | 30.93%       |        |
| <b>Aug-15</b>                        | Feb 2016 - Apr 2016 | \$157,533.42 | \$100,908.94 | 64.06% |
|                                      | May 2016 - Jul 2016 | \$112,140.80 | \$66,381.12  | 59.19% |
|                                      | Aug 2016 - Oct 2016 | \$94,463.22  | \$56,852.54  | 60.18% |
|                                      | Nov 2016 - Jan 2017 | \$104,376.28 | \$61,088.85  | 58.53% |
|                                      | Feb 2017 - Apr 2017 | \$93,518.66  | \$51,930.22  | 55.53% |
|                                      | May 2017 - Jul 2017 | \$77,927.20  | \$33,002.06  | 42.35% |
|                                      | Aug 2017 - Oct 2017 | \$72,589.09  | \$28,987.93  | 39.93% |
|                                      | Nov 2017 - Jan 2018 | \$66,073.89  | \$24,229.78  | 36.67% |
| <b>Sep-15</b>                        | Mar 2016 - May 2016 | \$125,739.62 | \$80,011.60  | 63.63% |
|                                      | Jun 2016 - Aug 2016 | \$80,068.13  | \$43,552.61  | 54.39% |
|                                      | Sep 2016 - Nov 2016 | \$74,221.97  | \$45,036.35  | 60.68% |
|                                      | Dec 2016 - Feb 2017 | \$77,880.94  | \$46,284.65  | 59.43% |
|                                      | Mar 2017 - May 2017 | \$75,088.92  | \$39,411.64  | 52.49% |
|                                      | Jun 2017 - Aug 2017 | \$62,191.83  | \$24,810.03  | 39.89% |
|                                      | Sep 2017 - Nov 2017 | \$56,946.49  | \$21,385.94  | 37.55% |
|                                      | Dec 2017 - Feb 2018 | \$53,763.35  | \$18,217.99  | 33.89% |

**Chart 3 continued on page 11**

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Chart 3 continued from page 10

| Chart 3: Quarterly Collection |                     |              |              |        |
|-------------------------------|---------------------|--------------|--------------|--------|
| <b>Oct-15</b>                 | Apr 2016 - Jun 2016 | \$145,035.12 | \$76,869.77  | 53.00% |
|                               | Jul 2016 - Sep 2016 | \$88,393.17  | \$49,159.53  | 55.61% |
|                               | Oct 2016 - Dec 2016 | \$95,763.52  | \$57,477.20  | 60.02% |
|                               | Jan 2017 - Mar 2017 | \$93,710.66  | \$54,321.46  | 57.97% |
|                               | Apr 2017 - Jun 2017 | \$85,780.75  | \$37,571.67  | 43.80% |
|                               | Jul 2017 - Sep 2017 | \$69,161.73  | \$24,779.39  | 35.83% |
|                               | Oct 2017 - Dec 2017 | \$65,064.66  | \$23,016.48  | 35.37% |
|                               | Jan 2018 - Mar 2018 | \$63,669.92  | \$18,472.20  | 29.01% |
| <b>Nov-15</b>                 | May 2016 - Jul 2016 | \$171,944.68 | \$91,089.22  | 52.98% |
|                               | Aug 2016 - Oct 2016 | \$115,751.09 | \$63,131.07  | 54.54% |
|                               | Nov 2016 - Jan 2017 | \$128,648.34 | \$71,582.04  | 55.64% |
|                               | Feb 2017 - Apr 2017 | \$121,915.86 | \$63,617.02  | 52.18% |
|                               | May 2017 - Jul 2017 | \$108,732.88 | \$37,685.26  | 34.66% |
|                               | Aug 2017 - Oct 2017 | \$76,311.48  | \$27,146.58  | 35.57% |
|                               | Nov 2017 - Jan 2018 | \$67,730.10  | \$23,572.97  | 34.80% |
| <b>Dec-15</b>                 | Jun 2016 - Aug 2016 | \$157,497.96 | \$84,607.46  | 53.72% |
|                               | Sep 2016 - Nov 2016 | \$126,499.27 | \$70,403.41  | 55.66% |
|                               | Dec 2016 - Feb 2017 | \$128,836.30 | \$73,446.14  | 57.01% |
|                               | Mar 2017 - May 2017 | \$133,735.30 | \$63,233.26  | 47.28% |
|                               | Jun 2017 - Aug 2017 | \$113,654.26 | \$40,406.99  | 35.55% |
|                               | Sep 2017 - Nov 2017 | \$83,012.19  | \$28,550.33  | 34.39% |
|                               | Dec 2017 - Feb 2018 | \$78,854.72  | \$24,769.62  | 31.41% |
| <b>Jan-16</b>                 | Jul 2016 - Sep 2016 | \$203,269.86 | \$116,118.83 | 57.13% |
|                               | Oct 2016 - Dec 2016 | \$160,950.11 | \$91,221.55  | 56.68% |
|                               | Jan 2017 - Mar 2017 | \$154,524.59 | \$91,017.16  | 58.90% |
|                               | Apr 2017 - Jun 2017 | \$145,164.03 | \$68,041.49  | 46.87% |
|                               | Jul 2017 - Sep 2017 | \$121,629.53 | \$49,091.73  | 40.36% |
|                               | Oct 2017 - Dec 2017 | \$98,425.38  | \$38,182.56  | 38.79% |
|                               | Jan 2018 - Mar 2018 | \$101,592.76 | \$33,552.27  | 33.03% |

Chart 3 continued on page 12



## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

**Chart 3 continued from page 11**

| <b>Chart 3: Quarterly Collection</b> |                     |              |              |        |
|--------------------------------------|---------------------|--------------|--------------|--------|
| <b>Feb-16</b>                        | Aug 2016 - Oct 2016 | \$274,873.87 | \$169,490.58 | 61.66% |
|                                      | Nov 2016 - Jan 2017 | \$215,038.06 | \$131,284.25 | 61.05% |
|                                      | Feb 2017 - Apr 2017 | \$196,218.74 | \$118,862.86 | 60.58% |
|                                      | May 2017 - Jul 2017 | \$184,214.22 | \$87,944.11  | 47.74% |
|                                      | Aug 2017 - Oct 2017 | \$154,246.44 | \$69,951.15  | 45.35% |
|                                      | Nov 2017 - Jan 2018 | \$122,836.12 | \$52,904.49  | 43.07% |
| <b>Mar-16</b>                        | Sep 2016 - Nov 2016 | \$247,613.23 | \$146,387.66 | 59.12% |
|                                      | Dec 2016 - Feb 2017 | \$176,644.50 | \$107,263.49 | 60.72% |
|                                      | Mar 2017 - May 2017 | \$171,684.88 | \$89,637.05  | 52.21% |
|                                      | Jun 2017 - Aug 2017 | \$160,709.34 | \$66,317.72  | 41.27% |
|                                      | Sep 2017 - Nov 2017 | \$138,698.72 | \$52,527.63  | 37.87% |
|                                      | Dec 2017 - Feb 2018 | \$110,255.18 | \$36,159.90  | 32.80% |
| <b>Apr-16</b>                        | Oct 2016 - Dec 2016 | \$235,862.77 | \$129,635.20 | 54.96% |
|                                      | Jan 2017 - Mar 2017 | \$183,613.99 | \$103,071.09 | 56.13% |
|                                      | Apr 2017 - Jun 2017 | \$181,091.69 | \$78,946.59  | 43.59% |
|                                      | Jul 2017 - Sep 2017 | \$158,723.52 | \$58,809.93  | 37.05% |
|                                      | Oct 2017 - Dec 2017 | \$132,974.05 | \$46,166.93  | 34.72% |
|                                      | Jan 2018 - Mar 2018 | \$117,740.24 | \$33,718.06  | 28.64% |
| <b>May-16</b>                        | Nov 2016 - Jan 2017 | \$239,951.07 | \$126,561.64 | 52.74% |
|                                      | Feb 2017 - Apr 2017 | \$184,696.58 | \$94,520.87  | 51.18% |
|                                      | May 2017 - Jul 2017 | \$174,552.77 | \$64,900.19  | 37.18% |
|                                      | Aug 2017 - Oct 2017 | \$154,623.06 | \$52,228.16  | 33.78% |
|                                      | Nov 2017 - Jan 2018 | \$126,892.91 | \$39,364.94  | 31.02% |
| <b>Jun-16</b>                        | Dec 2016 - Feb 2017 | \$147,152.43 | \$82,724.81  | 56.22% |
|                                      | Mar 2017 - May 2017 | \$123,541.50 | \$58,349.40  | 47.23% |
|                                      | Jun 2017 - Aug 2017 | \$113,179.14 | \$44,440.85  | 39.27% |
|                                      | Sep 2017 - Nov 2017 | \$106,351.89 | \$38,859.90  | 36.54% |
|                                      | Dec 2017 - Feb 2018 | \$93,524.65  | \$28,690.11  | 30.68% |
| <b>Jul-16</b>                        | Jan 2017 - Mar 2017 | \$172,800.26 | \$93,709.70  | 54.23% |
|                                      | Apr 2017 - Jun 2017 | \$148,659.23 | \$60,772.05  | 40.88% |
|                                      | Jul 2017 - Sep 2017 | \$132,572.59 | \$44,714.97  | 33.73% |
|                                      | Oct 2017 - Dec 2017 | \$122,338.86 | \$38,163.90  | 31.20% |
|                                      | Jan 2018 - Mar 2018 | \$116,210.19 | \$31,191.21  | 26.84% |

**Chart 3 continued on page 13**

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

**Chart 3 continued from page 12**

| <b>Chart 3: Quarterly Collection</b> |                     |              |             |        |
|--------------------------------------|---------------------|--------------|-------------|--------|
| <b>Aug-16</b>                        | Feb 2017 - Apr 2017 | \$187,330.57 | \$78,573.34 | 41.94% |
|                                      | May 2017 - Jul 2017 | \$160,449.67 | \$59,135.62 | 36.86% |
|                                      | Aug 2017 - Oct 2017 | \$145,518.43 | \$51,036.12 | 35.07% |
|                                      | Nov 2017 - Jan 2018 | \$131,546.07 | \$40,612.82 | 30.87% |
| <b>Sep-16</b>                        | Mar 2017 - May 2017 | \$164,227.58 | \$65,146.44 | 39.67% |
|                                      | Jun 2017 - Aug 2017 | \$126,614.26 | \$44,289.54 | 34.98% |
|                                      | Sep 2017 - Nov 2017 | \$108,487.76 | \$37,525.10 | 34.59% |
|                                      | Dec 2017 - Feb 2018 | \$101,646.37 | \$29,847.55 | 29.36% |
| <b>Oct-16</b>                        | Apr 2017 - Jun 2017 | \$209,552.39 | \$75,421.87 | 35.99% |
|                                      | Jul 2017 - Sep 2017 | \$161,917.55 | \$52,309.81 | 32.31% |
|                                      | Oct 2017 - Dec 2017 | \$138,906.11 | \$43,039.48 | 30.98% |
|                                      | Jan 2018 - Mar 2018 | \$132,540.65 | \$32,710.83 | 24.68% |
| <b>Nov-16</b>                        | May 2017 - Jul 2017 | \$180,170.01 | \$61,814.72 | 34.31% |
|                                      | Aug 2017 - Oct 2017 | \$122,380.70 | \$37,771.15 | 30.86% |
|                                      | Nov 2017 - Jan 2018 | \$106,667.63 | \$31,928.81 | 29.93% |
| <b>Dec-16</b>                        | Jun 2017 - Aug 2017 | \$171,414.85 | \$55,144.80 | 32.17% |
|                                      | Sep 2017 - Nov 2017 | \$112,422.26 | \$34,333.66 | 30.54% |
|                                      | Dec 2017 - Feb 2018 | \$100,624.12 | \$26,833.00 | 26.67% |
| <b>Jan-17</b>                        | Jul 2017 - Sep 2017 | \$234,986.75 | \$84,745.90 | 36.06% |
|                                      | Oct 2017 - Dec 2017 | \$162,440.09 | \$53,782.26 | 33.11% |
|                                      | Jan 2018 - Mar 2018 | \$160,551.26 | \$45,218.72 | 28.16% |
| <b>Feb-17</b>                        | Aug 2017 - Oct 2017 | \$208,662.48 | \$77,824.09 | 37.30% |
|                                      | Nov 2017 - Jan 2018 | \$148,044.06 | \$50,316.41 | 33.99% |
| <b>Mar-17</b>                        | Sep 2017 - Nov 2017 | \$213,996.58 | \$85,581.37 | 39.99% |
|                                      | Dec 2017 - Feb 2018 | \$155,767.65 | \$52,272.08 | 33.56% |
| <b>Apr-17</b>                        | Oct 2017 - Dec 2017 | \$291,731.02 | \$90,955.41 | 31.18% |
|                                      | Jan 2018 - Mar 2018 | \$224,890.04 | \$58,510.96 | 26.02% |
| <b>May-17</b>                        | Nov 2017 - Jan 2018 | \$172,147.51 | \$51,581.07 | 29.96% |
| <b>Jun-17</b>                        | Dec 2017 - Feb 2018 | \$158,897.00 | \$47,251.98 | 29.74% |
| <b>Jul-17</b>                        | Jan 2018 - Mar 2018 | \$220,226.13 | \$51,744.43 | 23.50% |

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Payments for the MIHA can be made one of two ways. Beneficiaries can mail a check or money order to the MIHA payment address. The payment coupon is not required to send in a payment by mail. Beneficiaries also have the option to pay online using a bank account.

Chart 4 displays a three month history of the percentage of payments made into the MIHA.

| <b>Chart 4: Methods of Payment</b> |               |               |               |
|------------------------------------|---------------|---------------|---------------|
|                                    | <b>Oct-17</b> | <b>Nov-17</b> | <b>Dec-17</b> |
| <b>Percent Paid Online</b>         | 32.13%        | 35.16%        | 31.43%        |
| <b>Percent Paid by Mail</b>        | 67.87%        | 64.84%        | 68.56%        |

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

### Adjustment Activities

Beneficiaries are not required to pay co-pays and/or contributions when specific criteria are met. In these cases, an adjustment is made to the beneficiary's quarterly statement.

This includes populations that are exempt; beneficiaries that are under age 21, pregnant, in hospice and Native American beneficiaries. It also includes beneficiaries who were not otherwise exempt, but have met their five percent maximum cost share and beneficiaries whose Federal Poverty Level is no longer in a range that requires a contribution.

Chart 5A shows the number of beneficiaries that met these adjustments for the specified month, calendar year since January 2017 and the cumulative total for the program from October 2014 through December 2017.

**Chart 5A: Adjustment Activities**

|  | Oct-17           |                       | Nov-17         |                       | Dec-17           |                        |
|--|------------------|-----------------------|----------------|-----------------------|------------------|------------------------|
|  | #                | Total \$              | #              | Total \$              | #                | Total \$               |
| <b>Beneficiary is under age 21</b>           | 580              | \$35,872.00           | 535            | \$33,242.00           | 532              | \$32,457.00            |
| <b>Pregnancy</b>                             | 222              | \$5,344.66            | 196            | \$4,920.96            | 190              | \$5,174.43             |
| <b>Hospice</b>                               | 0                | \$0.00                | 0              | \$0.00                | 0                | \$0.00                 |
| <b>Native American</b>                       | 24               | \$2,020.67            | 20             | \$2,284.00            | 18               | \$1,709.00             |
| <b>Five Percent Cost Share Limit Met</b>     | 41,052           | \$347,063.11          | 31,130         | \$306,804.73          | 36,437           | \$385,996.48           |
| <b>FPL No longer &gt;100% - Contribution</b> | 0                | \$0.00                | 0              | \$0.00                | 0                | \$0.00                 |
| <b>TOTAL</b>                                 | <b>41,878</b>    | <b>\$390,300.44</b>   | <b>31,881</b>  | <b>\$347,251.69</b>   | <b>37,177</b>    | <b>\$425,336.91</b>    |
|  | Oct-17 to Dec-17 |                       | Calendar YTD   |                       | Program YTD      |                        |
|  | #                | Total \$              | #              | Total \$              | #                | Total \$               |
| <b>Beneficiary is under age 21</b>           | 1,647            | \$101,571.00          | 7,378          | \$455,954.00          | 19,850           | \$1,130,773.29         |
| <b>Pregnancy</b>                             | 608              | \$15,440.05           | 2,764          | \$67,209.88           | 9,414            | \$225,592.94           |
| <b>Hospice</b>                               | 0                | \$0.00                | 0              | \$0.00                | 0                | \$0.00                 |
| <b>Native American</b>                       | 62               | \$6,013.67            | 230            | \$23,073.00           | 857              | \$59,131.34            |
| <b>Five Percent Cost Share Limit Met</b>     | 108,619          | \$1,039,864.32        | 432,788        | \$4,309,074.36        | 1,076,880        | \$12,007,674.28        |
| <b>FPL No longer &gt;100% - Contribution</b> | 0                | \$0.00                | 31             | \$355.32              | 285              | \$10,404.69            |
| <b>TOTAL</b>                                 | <b>110,936</b>   | <b>\$1,162,889.04</b> | <b>443,191</b> | <b>\$4,855,666.56</b> | <b>1,107,286</b> | <b>\$13,433,576.54</b> |

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

### Healthy Behavior Incentives

Beneficiaries may qualify for reductions in co-pays and/or contributions due to Healthy Behavior incentives. All health plans offer enrolled beneficiaries financial incentives that reward healthy behaviors and personal responsibility. To be eligible for incentives a beneficiary must first complete a health risk assessment (HRA) with their primary care provider (PCP) and agree to address or maintain health behaviors.

*Co-pays* – Beneficiaries can receive a 50% reduction in co-pays once they have paid 2% of their income in co-pays AND agree to address or maintain healthy behaviors.

*Contributions* - Beneficiaries can receive a 50% reduction in contributions if they complete an HRA with a PCP attestation AND agree to address or maintain healthy behaviors.

*Gift Cards* – Beneficiaries at or below 100% FPL receive a \$50.00 gift card if they complete an HRA with a PCP attestation AND agree to address or maintain healthy behaviors.

Chart 5B shows the number of beneficiaries that qualified for a reduction in co-pays and/or contributions due to Healthy Behavior incentives for the specified month, calendar year since January 2017 and the cumulative total for the program from October 2014 through December 2017.

| <b>Chart 5B: Healthy Behaviors</b> |                  |                     |               |                     |                |                       |
|------------------------------------|------------------|---------------------|---------------|---------------------|----------------|-----------------------|
|                                    | Oct-17           |                     | Nov-17        |                     | Dec-17         |                       |
|                                    | #                | Total \$            | #             | Total \$            | #              | Total \$              |
| <b>Co-pay</b>                      | 1,171            | \$6,602.44          | 923           | \$5,021.72          | 905            | \$4,889.53            |
| <b>Contribution</b>                | 1,637            | \$54,516.50         | 1,386         | \$45,636.00         | 1,414          | \$48,114.00           |
| <b>Gift Cards</b>                  | 3,426            | n/a                 | 2,338         | n/a                 | 2,382          | n/a                   |
| <b>TOTAL</b>                       | <b>6,234</b>     | <b>\$61,118.94</b>  | <b>4,647</b>  | <b>\$50,657.72</b>  | <b>4,701</b>   | <b>\$53,003.53</b>    |
|                                    | Oct 17 to Dec-17 |                     | Calendar YTD  |                     | Program YTD    |                       |
|                                    | #                | Total \$            | #             | Total \$            | #              | Total \$              |
| <b>Co-pay</b>                      | 2,999            | \$16,513.69         | 11,330        | \$56,576.38         | 39,345         | \$225,031.15          |
| <b>Contribution</b>                | 4,437            | \$148,266.50        | 16,193        | \$552,389.88        | 72,749         | \$2,388,269.77        |
| <b>Gift Cards</b>                  | 8,146            | n/a                 | 33,516        | n/a                 | 131,949        | n/a                   |
| <b>TOTAL</b>                       | <b>15,582</b>    | <b>\$164,780.19</b> | <b>61,039</b> | <b>\$608,966.26</b> | <b>244,043</b> | <b>\$2,613,300.92</b> |

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Typically, beneficiaries will pay a co-pay for the following services:

- Physician Office Visits (including free standing Urgent Care Centers)
- Outpatient Hospital Clinic Visit
- Outpatient Non-Emergent ER Visit (co-pay not required for emergency services)
- Inpatient Hospital Stay (co-pay not required for emergency admissions)
- Pharmacy (brand name and generic)
- Vision Services
- Dental Visits
- Chiropractic Visits
- Hearing Aids
- Podiatric Visits

If a beneficiary receives any of the above services for a chronic condition, the co-pay will be waived and the beneficiary will not be billed. This promotes greater access to high value services that prevent the progression of and complications related to chronic disease.

Chart 6 shows the number of beneficiaries whose co-pays were waived and the dollar amount waived due to receiving services for chronic conditions. Co-pay adjustments for high value services are processed quarterly based on the beneficiaries' individual enrollment and statement cycles.

| <b>Chart 6: Waived Copays for High Value Services</b> |  |                                   |
|---|--|-----------------------------------|
| <b>Month</b>  | <b># of Beneficiaries with Copays Waived</b> | <b>Total Dollar Amount Waived</b> |
| <b>Oct-17</b>   | 73,463                                       | \$772,454                         |
| <b>Nov-17</b>   | 54,952                                       | \$573,970                         |
| <b>Dec-17</b>   | 61,566                                       | \$656,933                         |
| <b>Calendar YTD</b>                                   | <b>580,948</b>                               | <b>\$5,426,118</b>                |
| <b>Program Total</b>                                  | <b>838,264</b>                               | <b>\$7,655,300</b>                |

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Beneficiaries that do not pay three consecutive months they have been billed co-pays or contributions are considered “consistently failing to pay (CFP)” status. Once a beneficiary is in CFP status, the following language is added to the quarterly statement: “If your account is overdue, you may have a penalty. For example, if you have a healthy behavior reduction, you could lose it. Your information may also be sent to the Michigan Department of Treasury. They can take your overdue amount from your tax refund or future lottery winnings. Your doctor cannot refuse to see you because of an overdue amount.” Beneficiaries that are in CFP status and have a total amount owed of at least \$50 can be referred to the Department of Treasury for collection. Beneficiaries that have not paid at least 50% of their total contributions and co-pays billed to them in the past 12 months can also be referred to the Department of Treasury for collection.

Chart 7 displays the past due collection history and the number of beneficiaries that have past due balances that can be collected through the Department of Treasury. These numbers are cumulative from quarter to quarter.

| <b>Chart 7: Past Due Collection Amounts</b> |   |  |
|---|---|--|
| <b>Month</b>                                | <b># of Beneficiaries with Past Due Co-pays/Contributions</b> | <b># of Beneficiaries with Past Due Co-pays/Contributions that Can be Sent to Treasury</b> |
| <b>Oct-17</b>                               | 196,865   | 82,404   |
| <b>Nov-17</b>                               | 203,142   | 85,687   |
| <b>Dec-17</b>                               | 208,581   | 88,960   |

Chart 8 displays the total amount of past due invoices according to the length of time the invoice has been outstanding. Each length of time displays the unique number of beneficiaries for that time period. The total number of delinquent beneficiaries is also listed along with the corresponding delinquent amount owed.

| <b>Chart 8: Delinquent Copay and Contribution Amounts by Aging Category</b> |                  |                   |                   |                    |                     |                        |
|---|------------------|-------------------|-------------------|--------------------|---------------------|------------------------|
| <b>Days</b>   | <b>0-30 Days</b> | <b>31-60 Days</b> | <b>61-90 Days</b> | <b>91-120 Days</b> | <b>&gt;120 Days</b> | <b>TOTAL</b>           |
| <b>Amount Due</b>   | \$1,091,756.65   | \$1,026,095.23    | \$975,256.25      | \$906,457.43       | \$13,713,982.36     | <b>\$17,713,547.92</b> |
| <b>Number of Beneficiaries That Owe</b>                                     | 76,722           | 70,942            | 67,429            | 64,637             | 201,974             | <b>236,103</b>         |

## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

Beneficiaries are mailed a letter that informs them of the amount that could be garnished by the Department of Treasury. This pre-garnishment notice is mailed each year in July. Beneficiaries are given 30 days from the date of the letter to make a payment or file a dispute with the Department of Health and Human Services (DHHS) for the amount owed.

Chart 9 displays the beneficiary payment activity as a result of the pre-garnishment notice.

| <b>Chart 9: Pre-Garnishment Notices</b> |   |                        |   |                        |
|---|---|------------------------|---|------------------------|
| Month/Year                              | # of Beneficiaries that Received a Garnishment Notice | Total Amount Owed      | # of Beneficiaries that Paid Following Pre-Garnishment Notice | Total Amount Collected |
| <b>Jul-15</b>                           | 5,893   | \$589,770.20           | 2,981   | \$78,670.02            |
| <b>Jul-16</b>                           | 41,460  | \$5,108,153.13         | 3,832   | \$404,921.47           |
| <b>Jul-17</b>                           | 68,201  | \$10,049,454.41        | 15,844  | \$1,940,966.02         |
| <b>Calendar YTD</b>                     | <b>68,201</b>   | <b>\$10,049,454.41</b> | <b>15,844</b>   | <b>\$1,940,966.02</b>  |
| <b>Program Total</b>                    | <b>115,554</b>  | <b>\$15,747,377.74</b> | <b>17,946</b>   | <b>\$1,813,417.27</b>  |

Beneficiaries are referred to the Department of Treasury each year in November if they still owe at least \$50 following the pre-garnishment notice.

Chart 10 displays the number of beneficiaries that were referred to Treasury.

| <b>Chart 10: Garnishments Sent to Treasury</b> |   |   |
|--|---|---|
| Month  | # of Beneficiaries Sent to Treasury for Garnishment | Total Amount Sent to Treasury for Garnishment |
| <b>Nov-15</b>                                  | 4,635   | \$460,231.19                                  |
| <b>Nov-16</b>                                  | 31,932  | \$3,946,091.28                                |
| <b>Nov-17</b>                                  | 49,857  | \$7,178,042.86                                |



## HEALTHY MICHIGAN PLAN MI HEALTH ACCOUNT: MARCH 2018

The Department of Treasury may garnish tax refunds or lottery winnings up to the amount referred to them from the MI Health Account.

Chart 11 displays collection activities by the Department of Treasury.

| <b>Chart 11: Garnishments Collected by Treasury</b> |                    |                       |                      |                    |                              |                       |
|---|--------------------|-----------------------|----------------------|--------------------|------------------------------|-----------------------|
| Tax Year  | Collected by Taxes |                       | Collected by Lottery |                    | Total Garnishments Collected |                       |
|   | #                  | Total                 | #                    | Total              | #                            | Total                 |
| <b>2016</b>   | 2,151              | \$207,873.10          | 7                    | \$485.67           | <b>2,158</b>                 | <b>\$208,358.77</b>   |
| <b>2017</b>   | 19,401             | \$2,186,302.74        | 68                   | \$7,926.14         | <b>19,469</b>                | <b>\$2,194,228.88</b> |
| <b>2018</b>   | 17,118             | \$2,194,615.96        | 30                   | \$4,563.99         | <b>17,148</b>                | <b>\$2,199,179.95</b> |
| <b>Calendar YTD</b>                                 | <b>17,118</b>      | <b>\$2,194,615.96</b> | <b>30</b>            | <b>\$4,563.99</b>  | <b>17,148</b>                | <b>\$2,199,179.95</b> |
| <b>Program Total</b>                                | <b>38,670</b>      | <b>\$4,588,791.80</b> | <b>105</b>           | <b>\$12,975.80</b> | <b>38,775</b>                | <b>\$4,601,767.60</b> |

# Report on the 2016 Healthy Michigan Voices Enrollee Survey

January 17, 2018

University of Michigan  
Institute for Healthcare Policy & Innovation

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## Executive Summary

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The University of Michigan Institute for Healthcare Policy & Innovation (IHPI) is conducting the evaluation of the Healthy Michigan Plan (HMP) as required by the Centers for Medicare & Medicaid Services (CMS) through a contract with the Michigan Department of Health and Human Services (MDHHS). Domain IV of the evaluation includes a series of surveys called *Healthy Michigan Voices*. This report presents findings from the 2016 *Healthy Michigan Voices* survey of individuals who were currently enrolled in HMP and who had at least 12 months total HMP enrollment, conducted during January-November 2016.

### Methods

Sampling for the *Healthy Michigan Voices* enrollee survey was performed monthly, from January to October 2016. At time of sample selection, enrollees had to meet the following inclusion criteria:

- At least 12 months total HMP enrollment in fee for service (FFS) or managed care (MC)
- HMP enrollment (FFS or MC) in 10 of past 12 months
- Have HMP-MC enrollment in 9 of past 12 months
- HMP-MC in the month sampled
- Age between 19 years and 64 years 8 months
- Complete address, phone number, and federal poverty level (FPL) fields in the Data Warehouse
- Michigan address
- Preferred language of English, Arabic, or Spanish

Eligibility was determined independently for each month's sample, regardless of eligibility in prior months. Enrollees could be selected only once. Data extraction was performed via a secure Virtual Private Network (VPN) connection by a data analyst with specific approval from MDHHS for this purpose, using existing protocols that require two layers of password protection.

The sampling plan was based on four grouped prosperity regions in the state (Upper Peninsula/North West/North East; West/East Central/East; South Central/South West/South East; Detroit) and three FPL categories (0-35%; 36-99%; ≥100%). In total, 4,090 HMP enrollees had complete survey data. The weighted response rate for the 2016 *Healthy Michigan Voices* enrollee survey was 53.7%.

Many items on the survey were drawn from established surveys. Additional items specific to HMP (e.g., items about Health Risk Assessments, understanding of HMP) were developed based on findings from 67 semi-structured interviews with HMP enrollees conducted by the evaluation team between April and August 2015. New items underwent cognitive testing and pre-testing for timing and flow before being included in the survey instrument. Responses were recorded in a computer-assisted telephone interviewing (CATI) system.

The evaluation team generated descriptive statistics for responses to all questions, with weights calculated and applied to adjust for the probability of selection, nonresponse bias, and other factors. Statistical analyses of bivariate and multivariate relationships were also performed.

## Results

### Demographics

- Just over half (51.6%) of survey respondents were women, and three-quarters between 19 and 50 years old.
- 61.2% self-identified as white, 26.1% Black or African-American, 8.8% other and 4.0% more than one race.
- 5.2% identified as Hispanic/Latino and 6.2% Arab/Chaldean/Middle Eastern.
- At the time of the survey, 48.8% of respondents reported they were employed or self-employed, 27.6% were out of work, 11.3% were unable to work, and 2.5% were retired.
- 16.7% reported sometimes, often or always needing to have someone help them read instructions, pamphlets, or other written materials from a doctor, pharmacy, or health plan.
- 57.9% did not have insurance at any time in the year before enrolling in HMP. Of those who had insurance at any time in the year before enrolling, 50.8% had Medicaid or another state program, and 26.2% had insurance through a job or union.

### **Aim 1: Describe Healthy Michigan Plan enrollees' consumer behaviors and health insurance literacy, including knowledge and understanding about the Healthy Michigan Plan, their health plan, benefit coverage, and cost-sharing aspects of their plan**

#### Knowledge and understanding of HMP coverage

- The majority of respondents knew that HMP covers routine dental visits (77.2%), eyeglasses (60.4%), and counseling for mental or emotional problems (56.0%). Just over one-fifth (21.2%) knew that HMP covers both brand name and generic medications.

#### Knowledge and understanding of HMP cost-sharing requirements and healthy behavior rewards

- 40.0% of respondents with an income of 100-133% FPL were aware that contributions are charged monthly regardless of health care use. Just 14.4% of all respondents were aware that they could not be disenrolled from HMP for failure to pay their bill. 75.6% of respondents were aware that some kinds of visits, tests, and medicines have no copays.
- Over one-quarter (28.1%) were aware that they could get a reduction in the amount they have to pay if they complete an HRA.

#### Perspectives on cost-sharing

- 87.6% strongly agreed or agreed that the amount they pay overall for HMP seems fair.
- 88.8% strongly agreed or agreed that the amount they pay for HMP is affordable.

#### MI Health Account statement

- 68.2% said they received a MI Health Account statement.

### **Challenges using HMP coverage**

- Few (15.5%) respondents reported that they had questions or problems using their HMP coverage. Among those who did, about half (47.7%) reported getting help or advice, and most (74.2%) of those said that they got an answer or solution.

### **Forgone care prior to and with HMP**

- In the 12 months before HMP enrollment, 33.0% of enrollees reported not getting care they needed; 77.5% attributed this to concern about the cost. In the past 12 months of HMP enrollment, 15.6% reported forgone care; 25.4% attributed that to concern about the cost.
- 83.3% strongly agreed or agreed that without HMP they would not be able to go to a doctor.

### **Accessing primary care**

- Among those who had seen their PCP in the past 12 months of HMP enrollment, 83.9% said it was very easy or easy to get an appointment with their PCP.

### **Changes in access to care**

- Compared to their access before enrolling in HMP, the majority of respondents reported equal or better access to primary care (93.7%), prescription medications (85.2%), help with staying healthy or preventing health problems (84.5%), dental care (75.4%), specialty care (67.0%), and mental health care (50.8%).

### **Checking cost-sharing before seeking care**

- 71.6% reported being somewhat or very likely to find out how much they might have to pay for a health service before going to get the service.

### **Checking MI Health Account balance before seeking care**

- Among respondents who reported receiving a MI Health Account statement, 88.3% strongly agreed or agreed they carefully review each statement to see how much they owe. 88.4% strongly agreed or agreed the MI Health Account statement helps them be more aware of the cost of health care.

### **Impact of HMP on employment, education and ability to work**

- Among employed respondents, over two-thirds (69.4%) reported that getting HMP insurance helped them to do a better job at work.
- Among respondents who were out of work, 54.5% strongly agreed or agreed that HMP made them better able to look for a job.
- Among employed/self-employed respondents who had changed jobs in the past 12 months, 36.9% strongly agreed or agreed that having HMP insurance helped them get a better job.

### **Out-of-pocket healthcare spending prior to and with HMP**

- 44.7% said they had problems paying medical bills in the year before HMP. Of those, 67.1% said they or their family was contacted by a collections agency.

- 85.9% of those who reported problems paying medical bills in the 12 months prior to HMP enrollment said that their problems paying medical bills got better since enrolling in HMP.

**Aim 2: Describe Healthy Michigan Plan enrollees’ self-reported changes in health status, health behaviors (including medication use), and facilitators and barriers to healthy behaviors (e.g. knowledge about health and health risks, engaged participation in care), and strategies that facilitate or challenge improvements in health behaviors**

**Current health status and change in health status since enrolling in HMP**

- 29.7% reported fair or poor health status.
- 47.8% felt their physical health had improved.
- 38.2% said their mental and emotional health had improved.
- 39.5% said their dental health had improved.

**Chronic health conditions**

- 69.2% reported having a chronic health condition, with 60.8% reporting at least one physical health condition and 32.1% reporting at least one mental health condition.
- 30.1% of all respondents reported that a chronic health condition was newly diagnosed since they enrolled in HMP.
- 18.2% reported that their poor physical or mental health kept them from activity for 14 or more days in the last month.

**Health behaviors and health education**

- 37.7% of enrollees reported smoking or using tobacco in the last 30 days, of which 75.2% said they wanted to quit. Of these, 90.7% were working on quitting or cutting back.

**Regular source of care prior to and with HMP**

- In the 12 months before enrolling in HMP, 73.8% had a usual place they would go for health care. Of those, 16.8% said that place was an urgent care center and 16.2% reported the emergency room (ER), while 65.1% reported a doctor’s office or clinic.
- In the past 12 months of HMP enrollment, 92.2% reported having a usual place they would go for health care. Of those, 5.8% said that place was an urgent care center and 1.7% reported the emergency room, while 91.7% reported a doctor’s office or clinic.

**Primary care utilization prior to and with HMP**

- 20.6% had not had a primary care visit in more than five years before enrolling in HMP.
- 85.2% of those who reported having a PCP had a visit with their PCP in the past 12 months of HMP enrollment.

**Health risk assessment (HRA)**

- 49.3% self-reported completing an HRA. This is comparable to the proportion of HMP enrollees who have an HRA record in the MDHHS Data Warehouse (which reflects completion of any component), but higher than the proportion who have a HRA attestation (which reflects submission of the completed HRA form and physician attestation).

- 45.9% of those who said they completed an HRA did so because a primary care provider (PCP) suggested it; 33% did so because they received the form in the mail; 12.6% completed it over the phone at time of enrollment.
- Only 0.1% said they completed the HRA to save money on copays and contributions.
- Most of those who reported completing the HRA felt it was valuable for improving their health (83.7%) and was helpful for their PCP to understand their health needs (89.7%). 80.7% of those who said they completed an HRA chose to work on a health behavior.

### **Aim 3: Understand enrollee decisions about when, where and how to seek care, including decisions about emergency department utilization**

#### **Emergency room use with HMP**

- 28.0% of those who visited the ER in the past year said they called their usual provider's office first, of which three-quarters (75.7%) were advised to go to the ER by their provider.
- Of those who visited the ER in the past year who did not call their usual provider first, 75.1% said the ER was the closest place to receive care, which did not differ by region. 64.3% said it was too serious for the doctor's office, 63.6% said that their doctor's office was closed, 26.1% said they could not miss work or school, 20.3% arrived by ambulance and 19.4% said they get most of their care at the ER.
- 64.0% of all respondents said they were more likely to contact their usual doctor's office before going to the ER than before they had HMP.

#### **Subgroup Analysis - Low outpatient care utilizers**

- Low outpatient care utilizers were defined as respondents without any outpatient visits in the preceding 12 months (15.2% of all respondents) (see Appendix C).
- Low outpatient care utilizers reported less frequently needing care than other respondents when their regular provider's office was closed (10.0% vs. 24.1%). However, they were more likely to say they didn't try to contact their provider's office because they were unsure how to contact the provider (8.8% vs. 0.5%).
- Among those who didn't get the medical or dental care they needed in the 12 months since enrolling in HMP, low outpatient care utilizers were more likely to report that they didn't get the care they needed because they did not have health insurance (18.4% vs. 6.9%) or because they did not have a doctor or could not find a doctor (11.3% vs. 3.1%).
- Among those who didn't get needed care due to cost concerns, low outpatient care utilizers were more likely than other respondents to report they went without a checkup (33.9% vs. 9.8%).
- Among those who reported that they had not seen a PCP in the past 12 months, low outpatient care utilizers were more likely to report they didn't see a PCP because they were healthy or didn't need to see a doctor (71.0% vs. 56.4%).

#### **Subgroup Analysis - High ER utilizers**

- High ER utilizers were defined as those with 5 or more ER visits in the preceding 12 months (4.4% of all respondents) (see Appendix C).



- Among those who needed help or advice when their usual clinic or doctor's office was closed, high ER utilizers were more likely than other respondents to report trying to contact their provider's office after they were closed to get help or advice (64.7% vs. 45.3%).
- Among those who didn't get the medical or dental care they needed in the 12 months since enrolling in HMP, high ER utilizers were more than twice as likely to report that they didn't get the care they needed because the doctor or hospital would not accept their health insurance (53.0% vs. 22.4%).

### **Subgroup Analysis - Enrollees with complex chronic conditions**

- This subgroup includes respondents with one or more chronic conditions as defined by HEDIS criteria using claims data (25.1% of all respondents) (see Appendix C).
- Enrollees with chronic conditions were more likely to report getting flu shots, not drinking sugary drinks, exercising every day, and no unhealthy alcohol use.
- However, enrollees with chronic conditions were more likely to report tobacco use and more likely to report not exercising.
- Enrollees with chronic conditions were more likely to report choosing a healthy behavior on the HRA (87.6% vs. 78.3%), and more likely to report getting help with or counseling about health behaviors (71.8% vs. 57.2%).
- Enrollees with chronic conditions reported nearly twice as many days, on average, of limited functioning compared to those without chronic conditions.
- Enrollees with chronic conditions were more likely to report going to a hospital emergency room for care in the past 12 months (48.3% vs. 34.0%). Among respondents who did not try to contact their provider before going to the ER, those with a chronic disease were less likely to report that they get most of their care at the ER (13.8% vs. 22.1%), and more likely to report that they felt the problem was too serious for a doctor's office or clinic (71.3% vs. 60.9%).
- Those with a chronic condition were more knowledgeable about HMP coverage.

### **Subgroup Analysis - Enrollees with mental and behavioral health conditions and substance use disorders**

- This subgroup includes respondents with a mental and behavioral health condition or substance use disorder as defined by HEDIS criteria (48.3% of all respondents) (see Appendix C).
- Survey respondents with a mental and behavioral health condition or substance use disorder were more likely than other respondents to report a PCP visit in the past 12 months (91.6% vs. 79.0%), and more likely to report going to a hospital emergency room for care in the past 12 months (49.2% vs. 26.8%).
- Among respondents who tried to contact their provider before going to the ER, those with a mental and behavioral health condition or substance use disorder were more likely to report that they ended up going to the ER because they could not get an appointment soon enough (10.1% vs. 4.3%).
- Among respondents who did not try to contact their provider before going to the ER, those with a mental and behavioral health condition or substance use disorder were more likely to report that they arrived at the ER by ambulance or other emergency

vehicle (25.1% vs. 12.4%), and that they felt the problem was too serious for a doctor's office or clinic (67.6% vs. 59.0%).

- Those with a mental and behavioral health condition or substance use disorder were more knowledgeable about HMP coverage than those without a mental and behavioral health condition or substance use disorder.

### **Individual and Community Factors Analysis**

- Knowledge and understanding of HMP coverage varied by gender, health and race.
- Health behaviors varied by gender, income, health and community factors including poverty levels, proportion of residents receiving food stamps, unemployment and the presence of liquor stores. For example, men, respondents 19-35 years old, those who reported one or more poor mental health days and those living in zip codes in the top two tertiles of food stamp recipients reported greater frequency of drinking sugar-sweetened beverages.

### **Conclusions**

More than half of respondents did not have insurance at any time in the year before enrolling in HMP and half of those who did have insurance were covered by Medicaid or another state program. HMP does not appear to be replacing employment-provided health insurance for most enrollees.

HMP has greatly improved access to care for most enrollees. More than one-third of respondents reported not getting the care they needed in the year before enrolling in HMP and most respondents reported that their ability to get care had improved since enrolling in HMP. Forgone care, usually due to cost, lessened considerably after HMP enrollment. Over half of respondents reported better access to primary care, help with staying healthy, and cancer screening. A majority of respondents strongly agreed or agreed that without HMP they would not be able to go to the doctor.

Similarly, HMP lessened financial burdens from health care, with most respondents reporting that their problems paying medical bills had gotten better since enrolling in HMP. Most respondents across all income groups agreed that the amount they pay overall for HMP seems fair and is affordable.

More than two-thirds of respondents recalled receiving a MI Health Account statement, which the vast majority felt helped them be more aware of the costs of their care. Further, most respondents reported being likely to engage in a range of cost-conscious behaviors such as talking with a doctor about the costs of a service, or checking how much they would have to pay for a service before receiving it.

There were some areas in which enrollee understanding of their coverage and cost-sharing requirements could improve. For example, many respondents were not aware that HMP covers dental visits, eyeglasses, counseling for mental health problems, and brand name prescription

drugs. Additionally, most respondents were not aware that they could not be disenrolled from HMP for failing to pay their bills.

The HMP emphasis on primary care appears to have shifted much care-seeking from acute care settings to primary care settings. The percentage of enrollees who had a place they usually went for health care increased with HMP to over 90%, and naming the emergency room as a regular source of care declined significantly after enrolling in HMP (from 16.2% to 1.7%). For unscheduled health needs, some HMP enrollees sought advice from their regular source of care prior to seeking care, the majority of whom were referred to the emergency room. Two-thirds said they were more likely since enrolling in HMP to call their usual provider before going to the emergency department.

About half of respondents reported completing an HRA, bearing in mind the limits to self-reported data. They rarely reported completing it because of incentives to reduce cost-sharing. Most HMP enrollees who completed the HRA believed it was beneficial and reported receiving help from their PCP or health plan on a healthy behavior. The HMP emphasis on health risk reduction, combined with its emphasis on primary care, appears to create opportunities for improving enrollees' long-term health.

HMP may influence enrollees' ability to obtain or maintain employment, as many HMP enrollees reported improved functioning, ability to work, and job seeking after obtaining health insurance through Medicaid expansion.

Many HMP enrollees reported improved access to dental care and improved oral health, although about one-quarter of enrollees were unaware that they had HMP dental coverage, and the most common type of care forgone due to cost was dental care. Increasing enrollee awareness of coverage for dental services has the potential to improve oral and overall health.

Chronic health conditions were common among HMP enrollees. Almost half of those with chronic conditions reported a condition had been newly diagnosed since enrolling in HMP. Those with chronic health conditions had, with some exceptions, reported better health behaviors than those without and reported receiving more help with improving their health risks.

Nearly all of those with chronic conditions or mental health or substance use disorders had a PCP visit in the previous year.

Despite the relatively short duration of their enrollment in HMP at the time of the survey, nearly half of respondents said their physical health had gotten better and about 40% said their emotional and mental health and oral health had gotten better since enrolling. These improvements underscore the impact of HMP on enrollees' health and well-being in addition to its effects on their ability to access needed care.

## Introduction

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The University of Michigan Institute for Healthcare Policy & Innovation (IHPI) is conducting the evaluation of the Healthy Michigan Plan (HMP) as required by the Centers for Medicare & Medicaid Services (CMS) through a contract with the Michigan Department of Health and Human Services (MDHHS). Domain IV of the evaluation includes a series of surveys called *Healthy Michigan Voices*. This report presents findings from the 2016 *Healthy Michigan Voices* survey of individuals who were currently enrolled in HMP and who had at least 12 months total HMP enrollment. From January to November 2016, 4,090 individuals completed the *Healthy Michigan Voices* survey of enrollees. This is an update to the interim report submitted to CMS in September 2016. Results from the 2016 *Healthy Michigan Voices* survey of individuals who have disenrolled are included in the report titled 2016 *Healthy Michigan Voices: Survey of Individuals No Longer Enrolled in the Healthy Michigan Plan*. *Healthy Michigan Voices* follow-up surveys are planned for 2017 and 2018.

## Methods

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Sampling for the *Healthy Michigan Voices* survey was performed monthly, From January to October 2016. At the time of sample selection, enrollees had to meet the following inclusion criteria:

- At least 12 months total HMP enrollment in fee for service (FFS) or managed care (MC)
- HMP enrollment (FFS or MC) in 10 of past 12 months
- Have HMP-MC enrollment in 9 of past 12 months
- HMP-MC in the month sampled
- Age between 19 years and 64 years 8 months
- Complete address, phone number, and federal poverty level (FPL) fields in the Data Warehouse
- Michigan address
- Preferred language of English, Arabic, or Spanish

Eligibility was determined independently for each month's sample, regardless of eligibility in prior months. Enrollees could be selected only once. Data extraction was performed via a secure Virtual Private Network (VPN) connection by a data analyst with specific approval from MDHHS for this purpose, using existing protocols that require two layers of password protection. Each month's sample was drawn to reflect the target sampling plan, proportional to the overall population of Healthy Michigan Plan enrollees. The sampling plan was based on a combination of four grouped prosperity regions in the state (Upper Peninsula/North West/North East; West/East Central/East; South Central/South West/South East; Detroit) and three FPL categories (0-35%; 36-99%; ≥100%), resulting in 12 strata. To ensure adequate statistical power, small strata were oversampled. The table below shows the target proportion of each stratum in our monthly sample.

## Sampling plan

|                              | Prosperity Region |              |              |              |               |
|------------------------------|-------------------|--------------|--------------|--------------|---------------|
|                              | UP/NW/NE          | W/EC/E       | SC/SW/SE     | DET          | Total         |
| <b>Federal Poverty Level</b> |                   |              |              |              |               |
| 0-35%                        | 7.0%              | 12.0%        | 8.0%         | 12.8%        | 39.9%         |
| 36-99%                       | 6.0%              | 10.5%        | 7.0%         | 11.2%        | 34.8%         |
| ≥100%                        | 4.9%              | 7.5%         | 5.0%         | 8.0%         | 25.5%         |
| <b>Total</b>                 | <b>17.9%</b>      | <b>30.0%</b> | <b>20.0%</b> | <b>32.0%</b> | <b>100.0%</b> |

The 4,090 respondents with complete survey data closely mirror the sampling plan:

### Characteristics of the 4,090 HMV Survey Respondents

|                              | Prosperity Region |              |              |              |                |
|------------------------------|-------------------|--------------|--------------|--------------|----------------|
|                              | UP/NW/NE          | W/EC/E       | SC/SW/SE     | DET          | Total          |
| <b>Federal Poverty Level</b> |                   |              |              |              |                |
| 0-35%                        | 288               | 503          | 323          | 486          | 1,600          |
|                              | 7.0%              | 12.3%        | 7.9%         | 11.9%        | 39.1%          |
| 36-99%                       | 246               | 467          | 309          | 428          | 1,450          |
|                              | 6.0%              | 11.4%        | 7.6%         | 10.5%        | 35.5%          |
| ≥100%                        | 212               | 295          | 205          | 328          | 1,040          |
|                              | 5.2%              | 7.2%         | 5.0%         | 8.0%         | 25.4%          |
| <b>Total N complete</b>      | <b>746</b>        | <b>1,265</b> | <b>837</b>   | <b>1,242</b> | <b>4,090</b>   |
| <b>Total % complete</b>      | <b>18.2%</b>      | <b>30.9%</b> | <b>20.5%</b> | <b>30.4%</b> | <b>100.00%</b> |

HMP enrollees selected for the HMV enrollee survey sample were mailed an introductory packet that contained a letter explaining the project, a brochure about the project, and a postage-paid postcard that could be used to indicate a preferred time/day for interview or refusal to participate. The letter provided a toll-free number and email address for enrollees who wished to indicate a preferred time/day for interview or refusal to participate. For all sampled enrollees who did not refuse by one of those methods, *Healthy Michigan Voices* interviewers placed phone calls to sampled enrollees between the hours of 9 am and 9 pm. Surveys were conducted in English, Arabic and Spanish; enrollees who could not speak one of those languages were excluded from participation.

At the outset of the survey, enrollees were informed that their individual responses would be kept confidential; only aggregate data would be reported to the state. They were informed that completing the survey was voluntary and that they could skip questions if they wished. Those who completed the survey were mailed a \$25 gift card to compensate them for their time spent answering the survey questions. The median duration of time it took to complete the survey was 22 minutes, though survey completion ranged in duration from 12 to 96 minutes.

## Survey design

The survey included established measures of demographics, health, access, insurance status and acute care decision making drawn from national surveys, including the National Health and Nutrition Exam Survey (NHANES)<sup>1</sup>, the Health Tracking Household Survey (HTHS)<sup>2</sup>, the National Health Interview Survey (NHIS)<sup>3</sup>, the Behavioral Risk Factor Surveillance System (BRFSS<sup>4</sup>, and MiBRFSS<sup>5</sup>), the Short Form Health Survey (SF-12)<sup>6</sup>, the Food Attitudes and Behaviors Survey<sup>7</sup>, the Consumer Assessment of Healthcare Providers and Systems (CAHPS)<sup>8</sup>, the Employee Benefit Research Institute Consumer Engagement in Healthcare Survey (CEHCS)<sup>9</sup>, the Commonwealth Fund Health Care Quality Survey<sup>10</sup>, and the U.S. Census. Items and scales for which established measures were not available, or which were specific to HMP (e.g., items about Health Risk Assessments, understanding of HMP), were developed based on findings from 67 semi-structured interviews with HMP beneficiaries from five target geographic regions across the state of Michigan (Detroit, Kent County, Midland/Bay/Saginaw Counties, Alcona/Alpena/Oscoda Counties, and Marquette/Baraga/Iron Counties) conducted by the evaluation team between April and August 2015. New items underwent cognitive testing, and pre-testing for timing and clarity. Responses were recorded in a computer-assisted telephone interviewing (CATI) system programmed with the HMP survey.

Some elements of the evaluation design were modified as a result of the inability to identify existing measures or to develop new measures based on insights gathered from the literature and from interviews conducted by the evaluation team. At the time the survey was designed and fielded, we were unable to identify any survey items or scales in the literature to measure knowledge and understanding of value-based insurance design. Interviews with enrollees enabled us to create a single item asking about their knowledge that some services might have no copayment, but other comments/statements about value-based insurance design did not surface in those interviews. In regard to medical self-management behaviors, we did not measure medication adherence and monitoring directly, as self-reported adherence to medications and other medical recommendations tends to be unreliable. Instead, we asked respondents what health behavior they chose to work on after they went through the HRA, including options of taking medication regularly and monitoring their blood pressure or blood sugar. We did not measure contact with community health workers and other community resources because we found, in interviews, great difficulty in getting enrollees to clearly identify the roles of those individuals helping them (e.g., community health workers, navigators, case workers, social workers). We did not measure budgeting for health care expenses because, at the time the survey was designed and fielded, we were unable to identify any survey items or

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<sup>1</sup> [NHANES \(National Health and Nutrition Exam Survey, CDC\)](#)

<sup>2</sup> [HTHS \(Health Tracking Household Survey\)](#)

<sup>3</sup> [NHIS \(National Health Interview Survey, CDC\)](#)

<sup>4</sup> [BRFSS \(Behavioral Risk Factor Surveillance System, CDC\)](#)

<sup>5</sup> [MiBRFSS \(Michigan Behavioral Risk Factor Surveillance System, MDHHS\)](#)

<sup>6</sup> [SF-12 \(Short Form Health Survey, RAND\)](#)

<sup>7</sup> [FAB \(Food Attitudes and Behaviors Survey, NCI\)](#)

<sup>8</sup> [CAHPS \(Consumer Assessment of Healthcare Providers and Systems\)](#)

<sup>9</sup> [Consumer Engagement in Health Care Survey \(EBRI: CEHCS\)](#)

<sup>10</sup> [Commonwealth Fund Health Care Quality Survey](#)

scales in the literature to measure engagement in this behavior. Furthermore, comments or statements about budgeting for health care expenses did not arise from interviews with enrollees. We did not measure reasons for health risk assessment non-completion directly, as responses to questions about non-completion would be vulnerable to social desirability bias. Instead, we examine individual characteristics and experiences associated with HRA completion.

## Survey response characteristics

Overall, 9,350 Healthy Michigan Program enrollees were sampled throughout the data collection period. Seven cases with non-mailable addresses were excluded from the population; 100 cases were never mailed or called because data collection goals were achieved; 16 cases were never called because we did not have language-specific interviewers available. Thus, 123 of the original 9,350 were never contacted by phone.

Pre-notification letters were sent to the remaining 9,227 cases. Phone calls were made to enrollees who did not refuse. Some numbers did not work, hence, no contact was established; some numbers worked but no contact was ever established, not allowing us to ascertain eligibility; and other numbers worked and contact was established. We summarize the results briefly as follows:

**Table 1. Call results to sampled individuals**

| Description  | n     | Call Result                   |
|--|-------|-------------------------------|
| <b>Total sample</b>  | 9,350 |                               |
| Nonmailable (e.g., bad address)  | 7     | n/a                           |
| Not mailed or called - response goals achieved   | 100   | n/a                           |
| Not called   | 16    | n/a                           |
| <b>Total sample contact attempted</b>  | 9,227 |                               |
| <b>Contact never established</b>   |       |                               |
| 1) Phone number not working  | 885   | Nonworking number             |
| 2) Working but no contact made (e.g., left voicemail but never spoke with a person)  | 1,360 | Unknown eligibility (UN)      |
| <b>Contact established</b>   |       |                               |
| 3) Enrollee verified not at that number  | 583   | Ineligible                    |
| 4) Out of state  | 30    | Ineligible                    |
| 5) Deceased  | 3     | Ineligible                    |
| 6) Non-HMV language  | 36    | Ineligible                    |
| 7) Jail/Treatment facility   | 2     | Ineligible                    |
| 8) Refusal (by mail/phone)   | 945   | Refusal (R)                   |
| 9) Noncontact with enrollee (Spoke with person other than enrollee);<br>Other nonresponse (Spoke with enrollee who did not complete the survey for reasons other than clear refusal) | 1,247 | Noncontact (NC),<br>Other (O) |
| 10) Full completion  | 4,108 | Interview (I)                 |
| 11) Partial completion   | 28    | Partial Interview (P)         |

It should be noted that, at the time of response rate calculation, 4,108 cases were considered as full completion. However, after weights were computed, 18 cases that were originally considered full completion were re-designated as partial completion because they had more than 20% of items missing for analytic purposes. All analyses were based on a sample of 4,090 which excludes these 18 cases. The effect of this exclusion on weighted analyses is negligible.

There are many ways to calculate response rates as outlined by the American Association for Public Opinion Research (AAPOR, 2016<sup>11</sup>). Response rate formula 3 defined below is one of the common formulas used, particularly for telephone surveys.

$$RR3 = \frac{I}{(I + P) + (R + NC + O) + e \times UN}$$

where  $e$  is an estimate eligibility rate for the cases for which we cannot ascertain eligibility and the rest are noted as “UN” in Table 1. One way to estimate  $e$  is to use our call results among those we established contacts. Categories 3) through 7) in Table 1 are deemed ineligible, making 8) through 11) eligible among all contacted. Hence,

$$e = \frac{945 + 1247 + 4108 + 28}{9227 - (885 + 1360)} = 90.6(\%)$$

This means that the observed eligibility rate was 90.6% among the cases where we were able to ascertain eligibility. By applying  $e$  as estimated above, we obtain the following response rate:

$$RR3 = \frac{4108}{(4108 + 28) + (945 + 1247) + .906 \times 1360} = 54.1(\%)$$

The weighted response rate was calculated to ascertain the response rate that is not subject to the sample design. We used the selection weight ( $w_1$  described shortly) to the RR3 formula and used weights applicable for known eligibility cases ( $w_3$  described shortly) to  $e$ , the estimated eligibility rate. The results are as follows:

$$\begin{aligned} \text{weighted } e &= 89.9(\%) \\ \text{Weighted RR3} &= 53.7(\%) \end{aligned}$$

Thus, the weighted response rate for the 2016 *Healthy Michigan Voices* enrollee survey was 53.7%.

In order to assess potential nonresponse bias, respondents (result code, “I”, in Table 1) are compared to those who refused (“R”), were not contacted (“NC”), did not complete for other reasons (“O”) or completed partially (“P”) in Table 2 on age, gender, race/ethnicity, first month on HMP, income level and prosperity region from the Data Warehouse claims data. Technically speaking, nonrespondents include all eligible cases that did not participate (“R”, “NC”, “O” and

<sup>11</sup> The American Association for Public Opinion Research. 2016. Standard Definitions: Final Dispositions of Case Codes and Outcome Rates for Surveys. 9th edition. AAPOR. Access from [http://www.aapor.org/AAPOR\\_Main/media/publications/Standard-Definitions20169theditionfinal.pdf](http://www.aapor.org/AAPOR_Main/media/publications/Standard-Definitions20169theditionfinal.pdf)



“P”) and a portion (“e”) of unknown eligibility cases (“UN”). However, it is not possible to tease out the portion of unknown eligibility cases, so we considered those who did not participate as a proxy for nonrespondents and compare them to respondents. Further, in order to compensate for differential selection probabilities, nonworking telephone rates and ineligibility rates, this comparison used estimates weighted by  $w_3$ .

Overall, respondents and nonrespondents were not different with respect to income. However, nonrespondents were younger, more likely to be male, more likely to be non-Hispanic White or other race, more likely have enrolled in HMP less than 2 years prior to the sampled month, and more likely to be from the Detroit Metro area, compared to respondents.

**Table 2. Comparison of characteristics of enrollee survey respondents and nonrespondents using frame data**

| Characteristics           | Respondents<br>N=4,107*<br>(%) | Nonrespondents<br>N=2,220<br>(%) | <i>p</i> value |
|---------------------------|--------------------------------|----------------------------------|----------------|
| <b>Age</b>                |                                |                                  |                |
| 19-34                     | 33.8                           | 41.7                             | <0.001         |
| 35-50                     | 28.3                           | 27.9                             |                |
| 51-64                     | 37.9                           | 30.4                             |                |
| <b>Gender</b>             |                                |                                  |                |
| Male                      | 43.1                           | 50.6                             | <0.001         |
| Female                    | 56.9                           | 49.4                             |                |
| <b>Race/Ethnicity</b>     |                                |                                  |                |
| Hispanic                  | 2.8                            | 2.7                              | 0.002          |
| Non-Hispanic White        | 62.5                           | 65.4                             |                |
| Non-Hispanic Black        | 24.5                           | 19.9                             |                |
| Non-Hispanic Other        | 10.2                           | 12.0                             |                |
| <b>First month on HMP</b> |                                |                                  |                |
| Less than 2 years ago     | 54.4                           | 61.0                             | <0.001         |
| 2 years or more ago       | 45.6                           | 39.0                             |                |
| <b>Income (% FPL)</b>     |                                |                                  |                |
| 0-35% FPL                 | 49.5                           | 50.0                             | 0.681          |
| 36-99% FPL                | 29.7                           | 30.2                             |                |
| 100-133% FPL              | 20.8                           | 19.8                             |                |
| <b>Prosperity Region</b>  |                                |                                  |                |
| Northern Michigan         | 9.9                            | 9.1                              | <0.001         |
| Central Michigan          | 30.6                           | 26.6                             |                |
| Southern Michigan         | 18.8                           | 17.0                             |                |
| Detroit Metro             | 40.7                           | 47.3                             |                |

\*One case that completed the 2016 HMV Survey was over-written due to system issues. This case was considered as a respondent in the response rate calculation, but there was no data that could be used for analytic purposes.

## Weighting adjustment

Weights were calculated to adjust for the probability of selection (see Base Selection Weight, below), nonresponse bias (see Nonresponse Adjustment) and other adjustments (Nonworking Number adjustment, Unknown Eligibility adjustment, Known Eligibility adjustment).

### Base Selection Weight

An independent survey sample was drawn each month from January to October 2016 from the HMP enrollee population; once the eligible population was identified for that month, sampling was done using stratification which combines FPL and prosperity region.

Reflecting the sample design, the first step used an inverse of sampling probability and calculated selection weights for sample unit  $i$  in sampling month  $m$  in sampling stratum  $h$  as follows:

$$w_{1,hmi} = \frac{N_{hm}}{n_{hm}}$$

where  $N_{hm}$  is the population size and  $n_{hm}$  is the sample size.

We made adjustment for nonworking numbers, ineligible cases, unknown eligibility cases and nonresponse (noncontacts and refusal combined) separately as follows.

### Nonworking Number Adjustment

Nonworking numbers were considered out of our target population and removed from the sample. We used the following adjustment factor,  $f_{2,hmi}$ , for this.

$$f_{2,hmi} = \begin{cases} 0, & \text{if } i \text{ was not a working number} \\ \frac{\sum_i w_{1,hmi}}{\sum_i I_{WRi} \times w_{1,hmi}}, & \text{if } i \text{ was a working number} \end{cases}$$

where  $I_{WRi}$  was a 1/0 indicator for working number status (1: working number, 0: nonworking number). Essentially,  $f_{2,hmi}$  removed the nonworking numbers from the scope and weighted up working numbers proportionally within each sampling stratum and month. The resulting weight was:

$$w_{2,hmi} = f_{2,hmi} \times w_{1,hmi}$$

### Unknown Eligibility Adjustment

Besides the nonworking numbers, there were working numbers with whom contact was not established. With these cases, HMV eligibility could not be ascertained. Moreover, the eligibility rate may have differed systematically across strata and months. Thus, a new adjustment factor was applied to the weight from the previous stage:

$$f_{3,hmi} = \begin{cases} 0, & \text{if eligibility is unknown for } i \\ \frac{\sum_i w_{2,hmi}}{\sum_i I_{UEi} \times w_{2,hmi}}, & \text{if eligibility is known for } i \end{cases}$$

where  $I_{UE}_i$  was a 1/0 indicator for unknown eligibility status (1: known eligibility; 0: unknown eligibility). The resulting weight was:

$$w_{3,hmi} = f_{3,hmi} \times w_{2,hmi}$$

#### Known Eligibility Adjustment

Among those who were contacted, some may not have been eligible for HMV for various reasons related to the eligibility criteria described previously. These cases fell outside of the target population and, hence, were removed through the following:

$$f_{4,hmi} = \begin{cases} 0, & \text{if } i \text{ is ineligible} \\ \frac{\sum_i w_{3,hmi}}{\sum_i I_{EL}_i \times w_{3,hmi}}, & \text{if } i \text{ is eligible} \end{cases}$$

where  $I_{EL}_i$  was a 1/0 indicator for eligibility status (1: eligible; 0: ineligible). The resulting weight was:

$$w_{4,hmi} = f_{4,hmi} \times w_{3,hmi}$$

#### Nonresponse Adjustment

Those who were contacted and eligible were retained after the previous step. These included contacts with the sampled enrollee and/or others at the phone number who took messages or gave information. Some enrollees initially agreed to participate, then abandoned the survey within the first few questions. Reasons for non-participation were not recorded. These were all considered as nonresponse. Overall, there were 6,327 eligible cases; among them, 4,108 responded. One respondent's answers were accidentally over-written due to systems issues.

As examined in Table 2 above, among eligible cases, respondents and nonrespondents were different with nonrespondents being younger, more likely to be male, non-Hispanic White or other race, with a shorter amount of time after first enrolled in HMP, and more likely to be from the Detroit Metro area than respondents.

In order to compensate for potential nonresponse bias associated with these differences, we adjusted for the following characteristics available in the HMV sample frame data, which were available for both respondents and nonrespondents:

- Sex
- Age (19-34; 35-49; 50-64 years old)
- Race/ethnicity (Hispanic; Non-Hispanic White; Non-Hispanic Black; Non-Hispanic other)
- First HMP month (2 years or more ago; less than 2 years ago)

Additionally, we had the following sampling information available for both respondents and nonrespondents:

- Stratum (FPL x Region)
- FPL
- Region
- Sampling month

The nonresponse adjustment followed Lee and Valliant (2008)<sup>12</sup>, where a logistic regression model was used to predict response while controlling for differences in characteristics between respondents and nonrespondents. The predictors included age, sex, race/ethnicity, first month on HMP, sampling strata, sampling month and the interaction between sampling strata and sampling month. The adjustment factor,  $f_{5,i}$ , was the inverse of response propensity predicted from the logistic regression. The resulting weight was:

$$w_{5,imh} = w_{4,mhi} \times f_{5,i}$$

### Post-stratification

The target population of the HMV survey is HMP enrollees ever eligible for HMV between January and October 2016. There were 384,262 such persons. From the sample frame data, we had information about the characteristics of this population. Table 3 compares the population and the sample weighted by nonresponse adjustment weight ( $w_{5,imh}$ ) with respect to age, sex, race/ethnicity, first month enrolled in HMP, sampling stratum, FPL and region. Our weighted sample matched the population reasonably well across most characteristics, except for age, sex and first month on HMP. Compared to the population, our sample overrepresented enrollees who were older, females or who enrolled in HMP during the first 3 months of HMP. Hence, this known discrepancy was handled through post-stratification. All the characteristics in Table 3 were controlled for in the post-stratification using an iterative proportional fitting method (Deville et al., 1993)<sup>13</sup>. This process forced the sample to match the population with respect to the controlled characteristics.

Post-stratification may force the weights to be extreme. These extreme weights increase the variability of estimates and, in turn, lower statistical power. In order to minimize the effect of extreme weights, these weights are trimmed. To address this issue we used the Individual and Global Cap Value (IGCV) method introduced by Izrael et al. (2009)<sup>14</sup>. This method sets thresholds for minimum and maximum adjustment factors in relation to the individual weights and to all weights globally. Specifically, our procedure set the global high cap at 7, the global low cap at 0.12, the individual high cap at 5 and the individual low cap at 0.2. The trimmed weights were normalized to the population total of 384,262. The resulting weight is  $w_{6,imh}$ . Table 3 includes the sample characteristics weighted by  $w_{6,imh}$ . When using the post-stratified weight, the sample matched the eligible target population perfectly. However, compared to when using the nonresponse adjustment weight, there was a slight increase in standard error due to variability in weights introduced by post-stratification.

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<sup>12</sup> Lee S, Valliant R. 2008. Weighting telephone samples using propensity scores. *Advances in Telephone Survey Methodology*. 170-183.

<sup>13</sup> Deville JC, Särndal CE, Sautory O. 1993. Generalized raking procedures in survey sampling. *Journal of the American Statistical Association*. 88(423):1013-20.

<sup>14</sup> Izrael D, Battaglia MP, Frankel MR. 2009. Extreme survey weight adjustment as a component of sample balancing (aka raking). In Proceedings from the Thirty-Fourth Annual SAS Users Group International Conference.

**Table 3. Comparison of HMPV eligible population and HMPV sample using frame data**

| Characteristics           | Population |      | Sample            |      |                   |      |     |
|---------------------------|------------|------|-------------------|------|-------------------|------|-----|
|                           |            |      | Weighted by $w_5$ |      | Weighted by $w_6$ |      |     |
|                           | N          | %    | n                 | %    | SE                | %    | SE  |
| <b>Total</b>              | 384,262    |      | 4,107             |      |                   |      |     |
| <b>Age</b>                |            |      |                   |      |                   |      |     |
| 19-35 years old           | 163,071    | 42.4 | 1,388             | 36.9 | 0.9               | 42.4 | 1.0 |
| 36-49 years old           | 113,660    | 29.6 | 1,130             | 28.1 | 0.8               | 29.6 | 0.9 |
| 50-64 years old           | 107,531    | 28.0 | 1,589             | 34.9 | 0.9               | 28.0 | 0.8 |
| <b>Sex</b>                |            |      |                   |      |                   |      |     |
| Male                      | 186,379    | 48.5 | 1,692             | 45.9 | 0.9               | 48.5 | 1.0 |
| Female                    | 197,883    | 51.5 | 2,415             | 54.1 | 0.9               | 51.5 | 1.0 |
| <b>Race/Ethnicity</b>     |            |      |                   |      |                   |      |     |
| Non-Hispanic White        | 232,688    | 60.6 | 2,832             | 63.1 | 0.9               | 60.6 | 1.0 |
| Non-Hispanic Black        | 91,208     | 23.7 | 771               | 23.2 | 0.8               | 23.7 | 0.9 |
| Other                     | 60,366     | 15.7 | 504               | 13.7 | 0.7               | 15.7 | 0.8 |
| <b>First month on HMP</b> |            |      |                   |      |                   |      |     |
| 4-6, 2014                 | 158,983    | 41.4 | 2,153             | 49.7 | 0.9               | 41.4 | 0.9 |
| 7-12, 2014                | 89,945     | 23.4 | 1,118             | 27.6 | 0.8               | 23.4 | 0.8 |
| 2015                      | 135,334    | 35.2 | 836               | 22.7 | 0.8               | 35.2 | 1.1 |
| <b>Stratum</b>            |            |      |                   |      |                   |      |     |
| 1. UP/NW/NE, 0-35%        | 13,282     | 3.5  | 289               | 3.6  | 0.2               | 3.5  | 0.2 |
| 2. UP/NW/NE, 36-99%       | 11,835     | 3.1  | 246               | 3.3  | 0.2               | 3.1  | 0.2 |
| 3. UP/NW/NE, 100%+        | 9,291      | 2.4  | 212               | 2.6  | 0.2               | 2.4  | 0.2 |
| 4. W/EC/E, 0-35%          | 52,224     | 13.6 | 505               | 13.4 | 0.6               | 13.6 | 0.6 |
| 5. W/EC/E, 36-99%         | 33,157     | 8.6  | 468               | 8.8  | 0.4               | 8.6  | 0.4 |
| 6. W/EC/E, 100%+          | 24,248     | 6.3  | 296               | 6.5  | 0.4               | 6.3  | 0.4 |
| 7. SC/SW/SE, 0-35%        | 34,675     | 9.0  | 325               | 8.7  | 0.5               | 9.0  | 0.6 |
| 8. SC/SW/SE, 36-99%       | 20,909     | 5.4  | 310               | 5.5  | 0.3               | 5.4  | 0.3 |
| 9. SC/SW/SE, 100%+        | 15,569     | 4.1  | 205               | 4.0  | 0.3               | 4.1  | 0.3 |
| 10. DET, 0-35%            | 99,024     | 25.8 | 490               | 25.0 | 1.0               | 25.8 | 1.1 |
| 11. DET, 36-99%           | 43,569     | 11.3 | 432               | 11.7 | 0.6               | 11.3 | 0.6 |
| 12. DET, 100%+            | 26,479     | 6.9  | 329               | 6.9  | 0.4               | 6.9  | 0.4 |
| <b>Income (%FPL)</b>      |            |      |                   |      |                   |      |     |
| 0-35%                     | 199,205    | 51.8 | 1,609             | 50.7 | 0.9               | 51.8 | 1.0 |
| 36-99%                    | 109,470    | 28.5 | 1,456             | 29.3 | 0.8               | 28.5 | 0.8 |
| 100%+                     | 75,587     | 19.7 | 1,042             | 20.0 | 0.6               | 19.7 | 0.7 |
| <b>Prosperity Region</b>  |            |      |                   |      |                   |      |     |
| UP/NW/NE                  | 34,408     | 9.0  | 747               | 9.4  | 0.4               | 9.0  | 0.4 |
| W/EC/E                    | 109,629    | 28.5 | 1,269             | 28.8 | 0.8               | 28.5 | 0.8 |
| SC/SW/SE                  | 71,153     | 18.5 | 840               | 18.2 | 0.6               | 18.5 | 0.7 |
| DET                       | 169,072    | 44.0 | 1,251             | 43.6 | 1.0               | 44.0 | 1.0 |

## Analyses

We generated descriptive statistics for responses to all questions in the survey and these are highlighted in the tables in Appendix A. Weights were applied to the data to adjust for the probability of selection, nonresponse bias, and other adjustments as described above. **As a result, please note that the proportions included in this report reflect how the results we observed would apply to the eligible population of HMP enrollees** (based on inclusion and exclusion criteria described on page 11). The number of individuals who responded to each survey question is noted in the tables in Appendix A. When N is less than 4,090, this indicates that either some respondents missed that question or the question was part of a skip pattern and was therefore only asked of a subset of respondents based on their previous responses.

We conducted analyses of bivariate relationships with FPL group, region, and the four subgroups of interest outlined below:

- Low outpatient care utilizers were defined as those with no primary care or outpatient visits based on claims in the 12 months prior to HMP sampling. Bivariate analyses compared this subgroup to those with at least one primary care or outpatient visit (referred to as “low healthcare utilizers” in the tables in Appendix A).
- High ER utilizers were defined as those with five or more ER visits based on claims in the 12 months prior to HMP sampling. Bivariate analyses compared this subgroup to those with four or fewer ER visits (referred to as “high ER utilizers” in the tables in Appendix A).
- The subgroup of respondents with one or more chronic conditions (asthma, cardiovascular disease, COPD or diabetes) were defined by HEDIS criteria using claims data. Bivariate analyses compared this subgroup to all other respondents (referred to as “Chronic disease (HEDIS)” in the tables in Appendix A).
- The subgroup of respondents with a mental and behavioral health condition or substance use disorder were defined by HEDIS criteria using claims data. Bivariate analyses compared this subgroup to all other respondents (referred to as “Mental health/substance use disorder (HEDIS)” in the tables in Appendix A).

We conducted mixed effects regression analyses to identify individual and community factors associated with HMP enrollees’: health literacy; knowledge and understanding about the Healthy Michigan Plan; knowledge about health and health risks, health behaviors and engaged participation in care; and decision making about when, where and how to seek care.

The following individual factors were included in these analyses: age, gender, race, ethnicity, FPL, insurance status prior to HMP, previous Medicaid enrollment, employment status, health literacy, PCP visit in the past 12 months of HMP enrollment, self-reported chronic disease status, any days of poor physical health, and any days of poor mental health. The source for these measures were enrollee responses to the 2016 *Healthy Michigan Voices* Enrollee Survey. For this analysis, “Don’t know” responses were recoded as missing for these variables.

The following community factors, measured at the zip code level, were included in these analyses: percent of population with high school degree or equivalent, percent of population with college degree, percent of population below poverty level, percent of population

uninsured before ACA, percent of population with Medicaid coverage before ACA, percent of population with limited English proficiency, percent of population unemployed, percent of households receiving food stamps/SNAP benefits, number of liquor stores, and percent of households without car access. The sources for these measures were the American Community Survey 2013 and 2015, and the Economic Census, 2012.

The following community factors, measured at the county level, were also included in these analyses: ratio of PCPs to the population, preventable hospitalization rate, violent crime rate, injury death rate, and drug overdose mortality rate. The source for these measures was the Robert Wood Johnson Foundation County Health Rankings.

For all analyses of bivariate and multivariate relationships, the types of analysis, models, variables included and how they are defined or measured are included in Appendices A-C of this report. The specific tests are described in the table footnotes.

## Results

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The following results are presented in the order in which they were outlined in the CMS Special Terms and Conditions. First, we report findings that meet Aims 1-3; noting significant differences by FPL group and region. Results highlighting differences between the following subgroups of interest, low outpatient care utilizers, high ER utilizers, respondents with a mental and behavioral health condition or substance use disorder, and respondents with one or more chronic conditions, and all other respondents are noted for demographics and topics outlined in the Domain IV evaluation plan. Lastly, we present results from mixed effects regression analyses, to identify individual and community factors associated with Healthy Michigan Plan enrollees': health literacy, and knowledge and understanding about the Healthy Michigan Plan; knowledge about health and health risks, health behaviors and engaged participation in care; and decision making about when, where and how to seek care.

### Demographic characteristics of respondents

After weighting, demographic characteristics of respondents closely match characteristics of the broader HMP population (see Table 2, above).

**Table 4. Demographic characteristics**

| Characteristics      | Weighted % | 95% CI       |
|----------------------|------------|--------------|
| <b>FPL (n=4,090)</b> |            |              |
| 0-35% (n=1,600)      | 51.8       | [50.8, 52.8] |
| 36-99% (n=1,450)     | 28.4       | [27.6, 29.3] |
| ≥ 100% (n=1,040)     | 19.8       | [19.1, 20.4] |

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|   |      |              |
|---|------|--------------|
| <b>Region (n=4,090)</b>                         |      |              |
| UP/NW/NE (n=746)                                | 9.0  | [8.6, 9.4]   |
| W/E Central/E (n=1,265)                         | 28.6 | [27.8, 29.4] |
| S Central/SW/SE (n=837)                         | 18.6 | [17.8, 19.3] |
| Detroit Metro (n=1,242)                         | 43.8 | [42.8, 44.9] |
| <b>Age (n=4,090)</b>                            |      |              |
| 19-34 (n=1,303)                                 | 40.0 | [38.0, 42.0] |
| 35-50 (n=1,301)                                 | 34.0 | [32.1, 35.9] |
| 51-64 (n=1,486)                                 | 26.0 | [24.5, 27.6] |
| <b>Gender (n=4,090)</b>                         |      |              |
| Male (n=1,681)                                  | 48.4 | [46.5, 50.4] |
| Female (n=2,409)                                | 51.6 | [49.6, 53.5] |
| <b>Race (n=4,039)</b>                           |      |              |
| White (n=2,784)                                 | 61.2 | [59.3, 63.0] |
| Black or African American (n=807)               | 26.1 | [24.3, 27.9] |
| Other (n=306)                                   | 8.8  | [7.7, 10.0]  |
| More than one (n=142)                           | 4.0  | [3.3, 4.9]   |
| <b>Hispanic/Latino (n=4,056)</b>                |      |              |
| Yes (n=188)                                     | 5.2  | [4.4, 6.2]   |
| No (n=3,856)                                    | 94.3 | [93.3, 95.2] |
| Don't know (n=12)                               | 0.5  | [0.2, 0.9]   |
| <b>Arab, Chaldean, Middle Eastern (n=4,055)</b> |      |              |
| Yes (n=204)                                     | 6.2  | [5.3, 7.2]   |
| No (n=3,842)                                    | 93.6 | [92.5, 94.5] |
| Don't know (n=9)                                | 0.3  | [0.1, 0.6]   |
| <b>Urbanicity (n=4,090)</b>                     |      |              |
| Urban (n=2,892)                                 | 81.0 | [80.0, 82.0] |
| Suburban (n=400)                                | 8.8  | [7.9, 9.7]   |
| Rural (n=798)                                   | 10.2 | [9.7, 10.7]  |
| <b>Medicaid Health Plan (n=4,088)</b>           |      |              |
| Aetna (n=58)                                    | 1.7  | [1.2, 2.3]   |
| Blue Cross (n=356)                              | 11.6 | [10.2, 13.1] |
| Harbor (n=18)                                   | 0.7  | [0.4, 1.3]   |
| McLaren (n=633)                                 | 13.0 | [11.9, 14.2] |
| Meridian (n=1,265)                              | 29.8 | [28.1, 31.6] |
| Midwest (n=3)                                   | 0.1  | [0.0, 0.2]   |
| Molina (n=701)                                  | 18.0 | [16.5, 19.5] |
| Priority (n=268)                                | 5.9  | [5.2, 6.7]   |
| Total Health Care (n=85)                        | 2.8  | [2.2, 3.7]   |
| United (n=443)                                  | 13.2 | [11.8, 14.7] |
| Upper Peninsula Health Plan (n=258)             | 3.2  | [2.8, 3.6]   |

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|   |      |              |
|---|------|--------------|
| <b>Employment status (n=4,075)</b>                                    |      |              |
| Employed or self-employed (n=2,079)                                   | 48.8 | [47.0, 50.7] |
| Out of work ≥ 1 year (n=707)  | 19.7 | [18.1, 21.3] |
| Out of work < 1 year (n=258)  | 7.9  | [6.8, 9.1]   |
| Homemaker (n=217)   | 4.5  | [3.8, 5.3]   |
| Student (n=161)   | 5.2  | [4.3, 6.2]   |
| Retired (n=167)   | 2.5  | [2.1, 3.0]   |
| Unable to work (n=479)  | 11.3 | [10.1, 12.5] |
| Don't know (n=7)  | 0.2  | [0.1, 0.4]   |
| <b>Veteran (n=4,086)</b>  |      |              |
| Yes (n=125)   | 3.4  | [2.7, 4.2]   |
| No (n=3,958)  | 96.5 | [95.7, 97.2] |
| Don't know (n=3)  | 0.1  | [0.0, 0.5]   |
| <b>Marital status (n=4,073)</b>                                       |      |              |
| Married (n=1,008)   | 20.4 | [19.0, 21.8] |
| Partnered (n=185)   | 4.3  | [3.6, 5.1]   |
| Divorced (n=865)  | 18.2 | [16.8, 19.6] |
| Widowed (n=147)   | 2.8  | [2.3, 3.4]   |
| Separated (n=119)   | 2.8  | [2.3, 3.4]   |
| Never Married (n=1,745)   | 51.6 | [49.6, 53.5] |
| Don't know (n=4)  | 0.1  | [0.0, 0.2]   |
| <b>Any self-reported chronic health condition (n=4,090)</b>           |      |              |
| Yes (n=2,986)   | 69.2 | [67.3, 71.0] |
| No (n=1,104)  | 30.8 | [29.0, 32.7] |
| <b>At least one self-reported physical health condition (n=4,090)</b> |      |              |
| Yes (n=2,689)   | 60.8 | [58.8, 62.8] |
| No (n=1,401)  | 39.2 | [37.2, 41.2] |
| <b>At least one self-reported mental health condition (n=4,090)</b>   |      |              |
| Yes (n=1,351)   | 32.1 | [30.3, 33.9] |
| No (n=2,739)  | 67.9 | [66.1, 69.7] |
| <b>Low outpatient care utilizers (n=4,090)</b>                        |      |              |
| No PCP/OP visits (n=491)  | 15.2 | [13.7, 16.9] |
| 1+ PCP/OP visits (n=3,599)  | 84.8 | [83.1, 86.3] |
| <b>High ER utilizers (n=4,090)</b>                                    |      |              |
| 5+ ER visits (n=156)  | 4.4  | [3.6, 5.4]   |
| 0-4 ER visits (n=3,934)   | 95.6 | [94.6, 96.4] |
| <b>HEDIS Chronic disease (n=4,090)</b>                                |      |              |
| Yes (n=1,161)   | 25.1 | [23.5, 26.8] |
| No (n=2,929)  | 74.9 | [73.2, 76.5] |
| <b>HEDIS Mental health/substance use disorder (n=4,090)</b>           |      |              |
| Yes (n=2,034)   | 48.3 | [46.4, 50.3] |
| No (n=2,056)  | 51.7 | [49.7, 53.6] |

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|   |      |              |
|---|------|--------------|
| <b>Other household HMP enrollee (n=4,082)</b>   |      |              |
| Yes (n=1,592)   | 35.7 | [34.0, 37.5] |
| No (n=2,289)  | 58.0 | [56.1, 59.8] |
| Don't know (n=201)  | 6.3  | [5.3, 7.6]   |
| <b>How often do you need to have someone help you read instructions, pamphlets, or other written materials from a doctor, pharmacy, or health plan? (n=4,088)</b> |      |              |
| Never (n=3,031)   | 72.6 | [70.8, 74.3] |
| Rarely (n=413)  | 10.6 | [9.5, 12.0]  |
| Sometimes (n=390)   | 10.6 | [9.4, 11.9]  |
| Often (n=94)  | 2.4  | [1.8, 3.1]   |
| Always (n=157)  | 3.7  | [3.1, 4.5]   |
| Don't know (n=3)  | 0.0  | [0.0, 0.1]   |

At the time of the survey, 48.8% reported they were employed or self-employed, 27.6% were out of work, 11.3% were unable to work, and 2.5% were retired. The majority (83.2%) of respondents reported rarely or never needing help reading instructions, pamphlets, or other written material from a doctor, pharmacy or health plan. Respondents with an income of 0-35% FPL were more likely to report often or always needing help reading instructions, pamphlets, or other written material from a doctor, pharmacy or health plan. See Appendix A Tables 2.1-2.2.

**Table 5. Insurance coverage prior to HMP**

|  | Weighted % | 95% CI       |
|--|------------|--------------|
| <b>At any time during the 12 months BEFORE you enrolled in the Healthy Michigan Plan, did you have any type of health insurance? (n=4,087)</b> |            |              |
| Yes (n=1,667)  | 40.7       | [38.8, 42.6] |
| No (n=2,374)   | 57.9       | [55.9, 59.8] |
| Don't know (n=46)  | 1.4        | [1.0, 2.1]   |
| <b>[If Yes] Did you have health insurance for all 12 months, 6-11 months, less than 6 months, or not at all*? (n=1,667)</b>                    |            |              |
| All 12 months (n=1,235)  | 73.8       | [71.1, 76.5] |
| 6-11 months (n=245)  | 15.2       | [13.0, 17.6] |
| Less than 6 months (n=129)   | 7.6        | [6.2, 9.3]   |
| Don't know (n=58)  | 3.4        | [2.5, 4.7]   |

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\*Respondents who responded "Not at all" were included in the "No" category for the prior question and their responses dropped from this question.

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|   |      |              |
|---|------|--------------|
| <b>What type of health insurance did you have?*</b> (n=1,622)   |      |              |
| Medicaid, MiChild, or other state program (n=834)   | 50.8 | [47.7, 53.9] |
| Private insurance provided through a job or union (n=409)   | 26.2 | [23.6, 29.0] |
| Private insurance purchased by you or someone else (n=157)  | 10.2 | [8.3, 12.6]  |
| County health plan (n=127)  | 6.3  | [5.2, 7.7]   |
| Veterans Health or VA care (n=21)   | 1.4  | [0.8, 2.3]   |
| CHAMPUS, TRICARE, other military coverage (n=3)   | 0.3  | [0.1, 1.2]   |
| Medicare (n=5)  | 0.3  | [0.1, 0.7]   |
| Indian Health Service (n=3)   | 0.1  | [0.0, 0.3]   |
| Other (n=83)  | 5.6  | [4.3, 7.3]   |
| Don't know (n=23)   | 1.2  | [0.8, 1.9]   |
| <b>[If private insurance purchased by you or someone else] Was this insurance purchased on the HealthCare.gov exchange?</b> (n=152) |      |              |
| Yes (n=59)  | 31.5 | [22.6, 41.9] |
| No (n=75)   | 55.4 | [44.1, 66.2] |
| Don't know (n=18)   | 13.1 | [7.6, 21.7]  |
| <b>[If Yes] Did you receive a subsidy?</b> (n=59)   |      |              |
| Yes (n=37)  | 61.8 | [43.9, 76.9] |
| No (n=18)   | 29.0 | [18.1, 43.1] |
| Don't know (n=4)  | 9.3  | [2.2, 31.3]  |

*\*\*Respondents were able to provide more than one response for this question; As a result, percentages may exceed 100%.*

More than half (57.9%) of survey respondents did not have health insurance at any time in the 12 months prior to HMP enrollment. Of those who reported having health insurance at some point during the 12 months prior to HMP enrollment, the majority (73.8%) had health insurance for all 12 months. Approximately half (50.8%) of survey respondents who reported having health insurance at any time in the 12 months prior to HMP enrollment had Medicaid, MiChild, or health coverage through another state health program, while a quarter (26.2%) had private insurance through a job or union. Among those who reported private insurance they purchased themselves or someone else purchased (10.2%), 31.5% purchased the insurance on the healthcare.gov website, and 61.8% of those respondents who purchased health insurance on the healthcare.gov website reported receiving a subsidy. Respondents with an income of 0-35% FPL were more likely to have no health insurance in the 12 months prior to HMP enrollment. Among those who had insurance at any time in the 12 months prior to HMP enrollment, respondents from the West/East Central/East and South Central/South West/South East regions were more likely to say they had a county health plan. See Appendix A Tables 2.1-2.3.

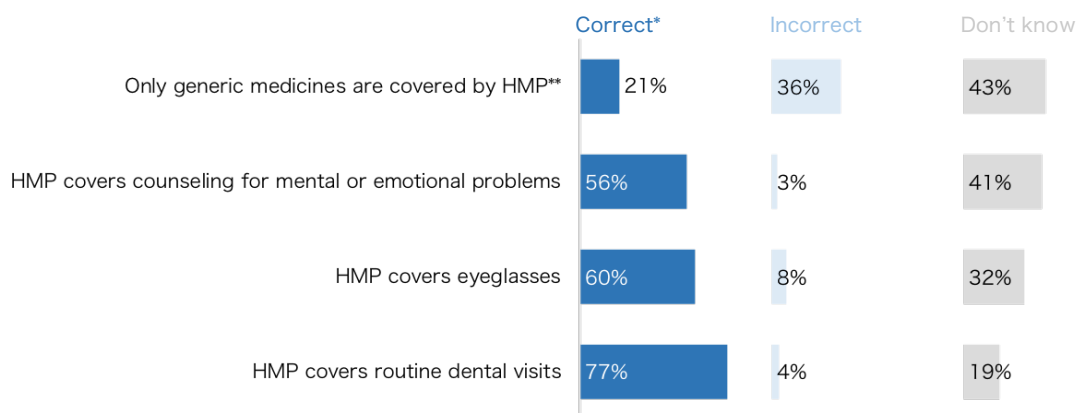
**Aim 1: Describe Healthy Michigan Plan enrollees’ consumer behaviors and health insurance literacy, including knowledge and understanding about the Healthy Michigan Plan, their health plan, benefit coverage, and cost-sharing aspects of their plan**

*Knowledge and understanding of health insurance, the Healthy Michigan Plan, cost-sharing, incentives for healthy behaviors, MI Health accounts and value-based insurance design*

**Knowledge and understanding of HMP coverage**

The majority of respondents knew that HMP covers routine dental visits (77.2%), eyeglasses (60.4%), and counseling for mental or emotional problems (56%). Just over one-fifth (21.2%) were aware that HMP covers name brand as well as generic medications, and respondents from the Detroit Metro region were more likely to incorrectly report that HMP covers only generic medications. See Appendix A Tables 3.1-3.4.

Figure 1. Enrollee understanding of HMP coverage for some services could be improved.

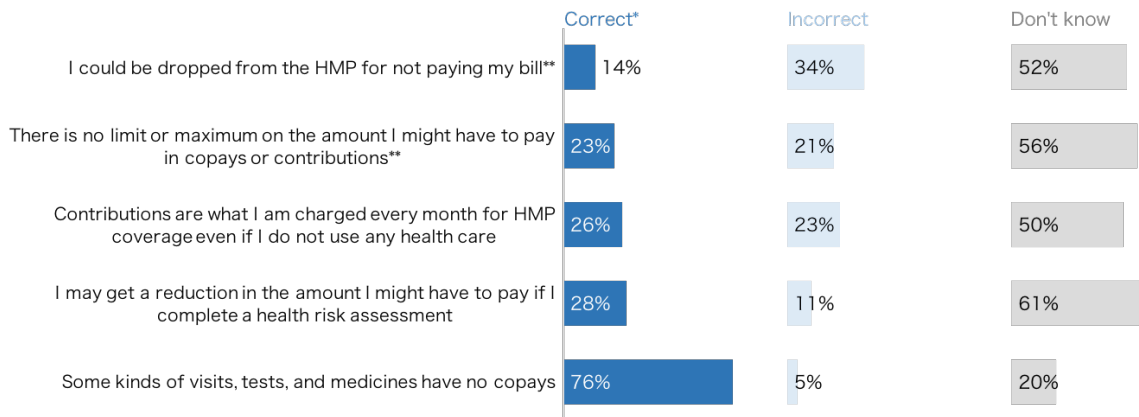


\*Percent of respondents who reported the correct answer, "yes" or "no", in responding to the statement.  
 \*\*Statement is untrue, so those who responded "yes" were considered incorrect.

**Knowledge and understanding of HMP cost-sharing requirements and healthy behavior rewards**

Just over one-quarter (26.4%) of respondents were aware that contributions are charged monthly regardless of health care use, although 40.0% of those with an income of 100-133% FPL knew this. Almost one-quarter (23.0%) of respondents were aware that there is a limit or maximum on the amount they might have to pay. The majority (75.6%) of respondents were aware that some kinds of visits, tests, and medicines have no copays. Most (85.7%) believed or were unsure if they would be disenrolled from HMP for not paying their bill; those with an income of 100-133% FPL were more likely to believe this. See Appendix A Tables 3.5-3.8.

Figure 2. Enrollees were often not aware of HMP cost-sharing features.



\*Percent of respondents who reported the correct answer, "yes" or "no", in responding to the statement.  
 \*\*Statement is untrue, so those who responded "yes" were considered incorrect.

Over one-quarter (28.1%) of respondents were aware that they could get a reduction in the amount they have to pay if they complete a health risk assessment. More (40.6%) survey respondents strongly agreed or agreed that information about healthy behavior rewards led them do something they might not have done otherwise. A quarter (26.1%) strongly disagreed or disagreed, and one-fifth (21.3%) said they did not know. See Appendix A Tables 3.9-3.10.

### Perspectives on cost-sharing

The majority (87.6%) of survey respondents strongly agreed or agreed that the amount they have to pay for HMP overall seems fair. Those with an income of 36-99% FPL were more likely to strongly agree that the amount they have to pay for HMP overall seems fair. Most (88.8%) respondents strongly agreed or agreed that the amount they pay for HMP is affordable. Almost three-quarters (72.1%) of respondents strongly agreed or agreed that they would rather take some responsibility to pay something for their health care than not pay anything. See Appendix A Tables 3.11-3.13.

### MI Health Account

The majority (68.2%) of respondents reported that they received a MI Health Account statement; those with an income of 100-133% FPL and those from the Upper Peninsula/North West/North East region more likely to report receiving a MI Health Account statement. See Appendix A Table 3.14.

### Challenges using HMP coverage

Few (15.5%) survey respondents reported that they had questions or problems using their HMP coverage. Among those who had questions or problems, about half (47.7%) reported getting help or advice; respondents from the Detroit Metro region were less likely to report getting help or advice. The most commonly reported sources of help were from a health plan hotline, someone at the doctor's office, and a source other than the provided responses. Among those who reported a source other than those provided, common responses included getting help from a case worker or someone at the pharmacy. Most (74.2%) of those who reported receiving

help said that they got an answer or solution to their question; those with an income of 0-35% FPL were more likely to report that they got an answer or solution to their question. See Appendix A Tables 3.15-3.18.

### **Perspectives on HMP coverage**

The majority of survey respondents strongly agreed or agreed that it is very important for them personally to have health insurance (97.4%), that they do not worry as much about something bad happening to their health since HMP enrollment (69.0%), that having HMP has taken a lot of stress off of them (87.9%), that without HMP they would not be able to go to the doctor (83.3%), and that having HMP has helped them live a better life (89.2%). See Appendix A Tables 3.19-3.23.

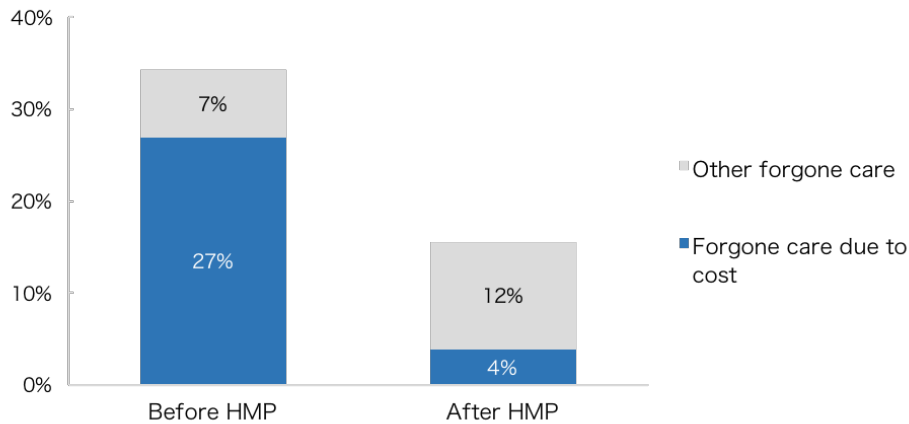
### *Health care spending, financial and nonfinancial obstacles to care*

#### **Forgone care prior to and with HMP**

One-third (33.0%) of respondents reported not getting the health care they needed in the 12 months prior to HMP enrollment; those from the South Central/South West/South East region were more likely to report this. See Appendix A Table 3.24. The most common reasons for not getting the care they needed prior to HMP were being worried about the cost (77.5%) and not having health insurance (67.4%). Those from the Upper Peninsula/North West/North East region were more likely than those in other regions to report being worried about the cost. See Appendix A Tables 3.25.1-3.25.2.

In the past 12 months of HMP enrollment, 15.6% said there was a time when they did not get the medical or dental care they needed. The most common reasons for not getting the care they needed with HMP were because their health plan would not pay for the treatment (39.6%) and being worried about the cost (25.4%). Less common reasons included not having transportation (6.1%) and because they did not have or could not find a doctor (4.3%). Those with an income of 0-35% FPL were more likely to report not having transportation and those from the South Central/South West/South East and Upper Peninsula/North West/North East regions were more likely to report that they did not have or could not find a doctor. Those who cited a reason other than the options supplied for not getting the care they needed often reported that dental procedures such as crowns and root canals are not covered and indicated that it was difficult to find a dentist who accepted their insurance. Among respondents who did not get needed care because they could not afford it, 63.2% reported that this care was dental care, those from the Detroit Metro region were more likely, and those from the South Central/South West/South East region were less likely, to report this; 21.7% reported specialty care, those from the South Central/South West/South East and Upper Peninsula/ North West/North East regions were more likely to report this; 19.9% reported prescription medications, those with an income of 0-35% FPL were more likely to report this; and 13.3% reported a checkup, physical or wellness visit, those from the South Central/South West/South East region were more likely to report this. See Appendix A Tables 3.26, 3.27.1, 3.27.4, 3.27.6, 3.27.8, 3.28.1-3.28.2, 3.28.5-3.28.6.

Figure 3. Overall forgone care and forgone care due to cost decreased after HMP enrollment.



### Accessing primary care

Among those who had seen their PCP in the past 12 months of HMP enrollment, 83.9% said it was easy or very easy to get an appointment to see their PCP. Those with an income of 100-133% FPL were more likely to report that it was difficult to get an appointment to see their PCP. For those who said it was difficult or very difficult to schedule an appointment, the most common reason for this difficulty was not getting an appointment soon enough. See Appendix A Tables 3.29 and 3.30.2.

### Perceived discrimination

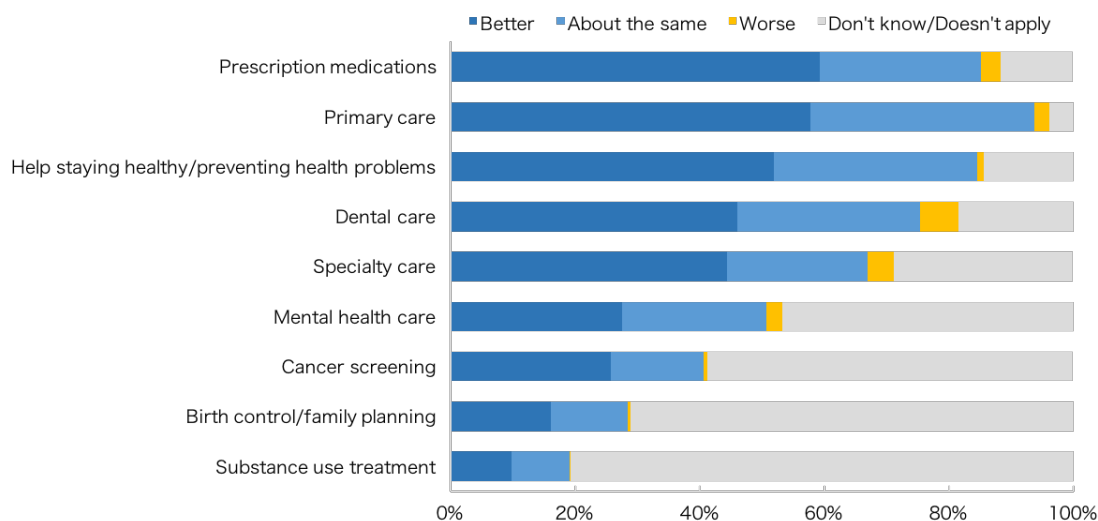
Most respondents did not report feeling judged or treated unfairly by medical staff in the past 12 months because of their race or ethnic background (96.4%) or because of how well they spoke English (97.4%). However, 11.6% of respondents felt judged or treated unfairly by medical staff in the past 12 months because of their ability to pay for care or the type of health coverage they had. See Appendix A Tables 3.31.1-3.31.3.

### Changes in access to care

Many respondents reported greater ability to get prescription medications (59.3%), primary care (57.8%), help staying healthy or preventing health problems (52%), dental care (46.1%), specialist care (44.4%), mental health care (27.5%), and cancer screening (25.7%) after enrolling in HMP compared to before they had HMP coverage. About half (46.7%) of respondents did not know if their ability to get mental health care through HMP was better, worse, or about the same as compared to before enrolling in HMP, though only 2.5% reported that it was worse. The majority (80.7%) of respondents did not know if their ability to get substance use treatment services through HMP was better, worse, or about the same compared to before enrolling in HMP though only 0.2% reported that it was worse. While most (58.6%) respondents did not know if their ability to get cancer screening through HMP was better, worse, or about the same

compared to before HMP, 25.7% said it was better. The majority (71.0%) of respondents also said they did not know if their ability to get birth control/family planning services through HMP is better, worse, or the about the same compared to before HMP. Those with an income of 0-35% FPL were more likely to report that their ability to get to primary care, mental health care, and substance use treatment services through HMP is better compared to before. See Appendix A Tables 3.32.1-3.32.9.

Figure 4. Enrollees rarely reported worse access to health services since HMP enrollment.



## Consumer behaviors

### Checking cost-sharing before seeking care

More than half (58.9%) of all survey respondents strongly agreed or agreed that the amount they might have to pay for prescriptions influences their decisions about filling prescriptions. Many (71.6%) respondents reported being somewhat or very likely to find out how much they might have to pay for a health service before going to get it. See Appendix A Tables 3.33 and 3.34.1.

### Checking MI Health Account balance before seeking care

Among respondents who reported receiving a MI Health Account statement, 88.3% strongly agreed or agreed that they carefully review each statement to see how much they owe, 88.4% strongly agreed or agreed that the statements help them be more aware of the cost of health care, and 30.8% strongly agreed or agreed that the information in the statement led them to change some of their health care decisions. See Appendix A Tables 3.35.1-3.35.3.

### Talking with doctor about treatment options and costs

Over two-thirds (67.9%) reported being somewhat or very likely to talk with their doctor about how much different health care options would cost them. Many (75.3%) reported that they were



somewhat or very likely to ask their doctor to recommend a less costly prescription drug; those with an income of 0-35% FPL and those from the Detroit Metro region were more likely to report being somewhat or very unlikely to ask their doctor to recommend a less costly prescription drug. See Appendix A Tables 3.34.2-3.34.3.

### Seeking out and using quality information in health care decisions

The majority (78.1%) of respondents reported that they were somewhat or very likely to check reviews or ratings of quality before choosing a doctor or hospital; those from the Upper Peninsula/North West/North East region were more likely to report being somewhat or very unlikely to check reviews or ratings of quality before choosing a doctor or hospital. See Appendix A Table 3.34.4.

### Reasons for health risk assessment completion and non-completion

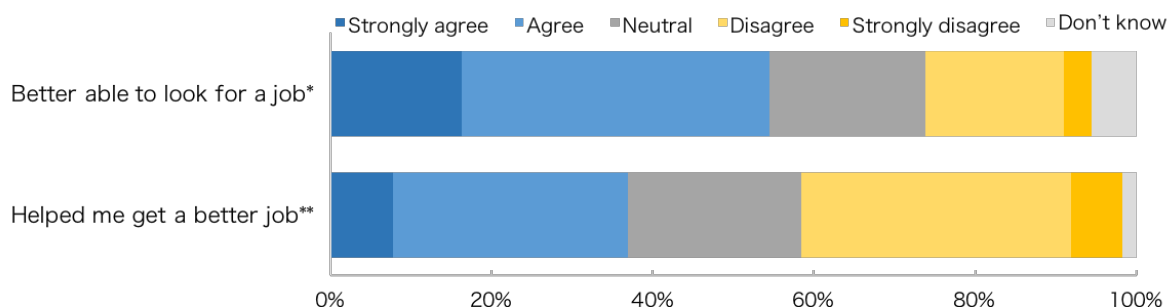
See all HRA-related results under Aim 2.

### *Work ability, medical debt and other measures of economic impact of Healthy Michigan*

#### Impact of HMP on employment, education and ability to work

Among employed, self-employed, and respondents out of work for less than one year, 16.6% indicated that they missed fewer days of work in the past year compared to the 12 months before. While most (78.3%) respondents who were students indicated that the number of days they missed school in the past year was about the same compared to the 12 months before HMP enrollment, 16.5% reported that they missed fewer days in the past year compared to the 12 months before. Among employed or self-employed respondents, 69.4% felt that getting health coverage through HMP helped them do a better job at work. Among respondents who were employed or self-employed, 27.6% reported changing jobs in the past 12 months. Among those who changed jobs in the past 12 months, 36.9% felt that having health coverage through HMP helped them get a better job. For those out of work, 54.5% of respondents felt that having HMP made them better able to look for a job. See Appendix A Tables 3.36, 3.38, 3.40-3.44.

Figure 5. Enrollees reported improved ability to work and improved job seeking ability as a result of having health insurance through HMP.



\*Among enrollees who were out of work or had a recent job change

\*\*Among employed enrollees

## **Out-of-pocket healthcare spending prior to HMP**

In the 12 months prior to HMP enrollment, almost one-quarter (23.3%) of respondents spent more than \$500 out of pocket for their own medical and dental care. Those with an income of 0-35% FPL were more likely to report spending less than \$50 out-of-pocket for their own medical or dental care in the 12 months prior to HMP enrollment. In the 12 months prior to HMP enrollment, 44.7% of respondents reported having problems paying medical bills; those with an income of 0-35% FPL were more likely to report this. Of those who reported having problems paying their medical bills, 67.1% reported being contacted by a collections agency and 30.7% thought about filing for bankruptcy. Among those who thought about it, 21.4% filed for bankruptcy, those with an income of 36-99% FPL were more likely to report that they filed for bankruptcy. See Appendix A Tables 3.47-3.51.

## **Out-of-pocket healthcare spending with HMP**

In the past 12 months, the majority (63.2%) of respondents reported spending less than \$50 out-of-pocket for their own medical or dental care; those with an income of 0-35% FPL were more likely to report this. Among survey respondents who previously had problems paying their medical bills (in the 12 months prior to HMP), most (85.9%) felt that their problems paying medical bills have gotten better since enrolling in HMP. See Appendix A Tables 3.52-3.53.

## **Reason for failure to re-enroll, when applicable**

Please see the report on the 2016 *Healthy Michigan Voices: Survey of Individuals No Longer Enrolled in the Healthy Michigan Plan*.

## **Aim 2: Describe Healthy Michigan Plan enrollees' self-reported changes in health status, health behaviors (including medication use), and facilitators and barriers to healthy behaviors (e.g. knowledge about health and health risks, engaged participation in care), and strategies that facilitate or challenge improvements in health behaviors**

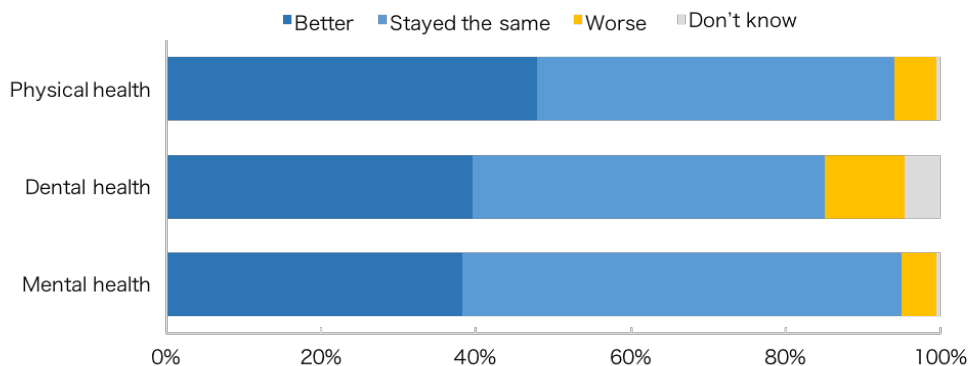
### *Health status, including physical and mental health, physical function, and the presence of chronic health conditions*

#### **Current health status and change in health status since enrolling in HMP**

More than one-third of respondents rated their health as either excellent or very good (36.3%). Those from the Detroit Metro region were more likely to report that their health is excellent or very good and those with an income of 0-35% FPL were more likely to report that their health is fair or poor. Those with an income of 0-35% FPL reported a greater number of days in the past 30 days that their physical health was not good, their mental health was not good, or poor physical or mental health kept them from doing their usual activities, compared to those with incomes of 36-99% FPL and 100-133% FPL. Since enrolling in HMP, most respondents reported their physical health had improved (47.8%) or stayed the same (46.1%), their mental health had

improved (38.2%) or stayed the same (56.8%), and their dental health had improved (39.5%) or stayed the same (45.5%). About one-third (31.7%) of survey respondents reported losing weight in the past year. See Appendix A Tables 4.1-4.7, 4.10.

Figure 6. Many enrollees reported improved physical, dental, and mental health since they enrolled in HMP.



### Chronic health conditions

More than two-thirds (69.2%) reported any chronic health condition with 60.8% reporting at least one physical health condition and 32.1% reporting at least one mental health condition. Those with an income of 0-35% FPL and those from the Upper Peninsula/North West/North East region were more likely to report a physical health condition. About one-fourth (23.7%) reported having both a physical health condition and a mental health condition. Nearly one-third (30.1%) reported that they had a chronic health condition that was newly diagnosed since enrolling in HMP; those with an income of 0-35% FPL were more likely to report this. The most common chronic conditions reported were hypertension (31.3%), mood disorder (30.4%), and other health conditions (26.9%). Almost one-fifth (18.2%) of respondents reported that poor physical or mental health kept them from activity for 14 or more days in the last month; those with an income of 0-35% FPL were more likely to report this. See Appendix A Tables 4.11, 4.19, 4.29, 4.31-4.36.

### Health behaviors and knowledge about healthy behaviors and health risks

#### Health behaviors and health education

More than one-third (36.7%) of survey respondents reported getting a flu shot last fall or winter. Almost one-third (31.9%) of survey respondents reported exercising every day for at least 20 minutes; those from the Upper Peninsula/North West/North East region were more likely to report exercising every day and 3-6 days in the past week. Almost half (48.8%) of respondents reported drinking sugary drinks two or fewer days per week, and 37.5% of respondents reported eating three or more servings of fruits or vegetables every day; those with an income of 0-35% FPL were less likely to report this. See Appendix A Tables 4.37-4.40.

About half of respondents reported talking with a health professional about exercise (48.6%) and diet and nutrition (49.8%) in the past 12 months. Few (5.1%) respondents reported unsafe

alcohol use three or more days in the past week. Among those who reported unsafe alcohol use in the past week, 30.3% reported talking to a health professional about safe alcohol use. See Appendix A Tables 4.41-4.44.

More than one-third (37.7%) of survey respondents reported smoking or using tobacco in the past 30 days; those with an income of 0-35% FPL were more likely, and those from the Detroit Metro region were less likely, to report smoking or using tobacco in the past 30 days. Among those who smoked or used tobacco in the past 30 days, 75.2% reported wanting to quit. Of those who said they would like to quit smoking or using tobacco, 90.7% reported working on quitting or cutting back, those from the Upper Peninsula/North West/North East region were less likely to report this. Among those who smoked or used tobacco in the past 30 days, over half (54%) of respondents reported receiving advice or assistance from a health professional or health plan on how to quit in the past 12 months. See Appendix A Tables 4.45-4.48.

Few (5.9%) survey respondents reported using drugs or medications in the past 30 days to affect mood or aid in relaxation; those with an income of 0-35% FPL were more likely to report this. Among those who reported using drugs or medications for mood or to aid in relaxation, 52.9% used these drugs or medications almost every day. More than one-third (37.1%) of respondents who used drugs sometimes or every day reported speaking with a health professional about the use of these drugs or medications. Those from the Detroit Metro region were less likely, and those from the South Central/South West/South East more likely, to report speaking with a health professional about the use of drugs or medications. See Appendix A Tables 4.49-4.51.

### *Medical self-management behaviors (e.g., medication adherence, self-monitoring when appropriate) and receipt of preventive care*

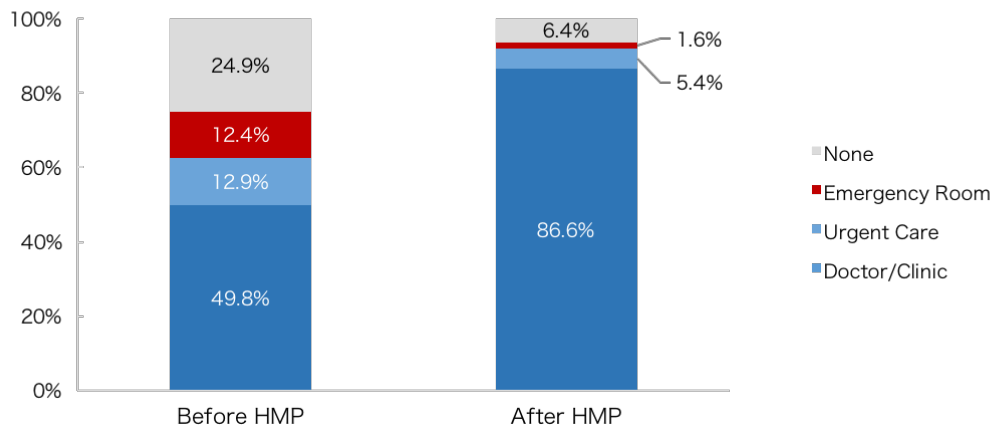
#### **Regular source of care prior to and with HMP**

In the 12 months prior to HMP enrollment, about three-quarters (73.8%) of survey respondents reported having a place they would usually go for a checkup, when they felt sick, or when they wanted advice about their health and 24% of survey respondents reported not having a regular source of care. Those with an income of 100-133% FPL group were more likely to report having a regular source of care in the 12 months prior to HMP enrollment. Among respondents who reported having a place that they would go for health care in the 12 months prior to HMP enrollment, a doctor's office (47.9%) was the most common place reported, while 16.2% reported the emergency room as their usual place for care. Those from the Upper Peninsula/North West/North East were less likely, and those with an income of 0-35% FPL were more likely, to report the emergency room as their usual source of care in the 12 months prior to HMP enrollment. See Appendix A Tables 4.52-4.53.

Most (92.2%) survey respondents indicated that in the past 12 months of HMP enrollment there is a place they usually go when they need a checkup, feel sick, or want advice about their health. There were no significant differences by FPL group or region in having a regular source of care in the past 12 months of HMP enrollment. A doctor's office (75.2%) was the most common place respondents went to for health care in the past 12 months of HMP enrollment. A clinic was reported by 16.5%, urgent care by 5.8% and just 1.7% reported the emergency room.

Those from the Upper Peninsula/North West/North East region were less likely to report urgent care or the emergency room as their usual source of care in the last 12 months of HMP enrollment. Among those who usually go to a doctor’s office or clinic for health care, 60.6% reported that this is not the same place they went prior to HMP enrollment. Among respondents who reported going to a doctor’s office or clinic for their health care, most (96.7%) respondents said this was their primary care provider (PCP) through their HMP coverage. Among the respondents who chose urgent care or the emergency room as their usual place for care while enrolled in HMP, 32.4% said they did not have a PCP through HMP. Among those respondents who used urgent care or the emergency room as their usual place of care and who did have a PCP through HMP, about half (49.1%) chose their provider and about half (49.4%) said their plan assigned one. See Appendix A Tables 4.54-4.59.

Figure 7. As compared to before HMP enrollment, more enrollees reported a usual source of care after HMP enrollment while fewer reported the emergency room as that source.



### Primary care utilization prior to and with HMP

Many (40.1%) survey respondents had a primary care visit in the year before HMP enrollment, but more than one-fifth (20.6%) had not had a primary care visit in more than five years; those with an income of 0-35% FPL were more likely to report they had not seen a PCP in more than 5 years prior to HMP enrollment. See Appendix A Table 4.60.

The majority (85.2%) of respondents who reported having a PCP indicated that they saw their PCP in the past 12 months while enrolled in HMP. For survey respondents who reported not seeing their PCP in the past 12 months, the most common reason given (63.4%) was that they were healthy and did not need to see a provider. Most (91.1%) respondents who had seen their PCP reported talking about things they can do to be healthy and prevent medical problems. See Appendix A Tables 4.61, 4.62.1, 4.63.

### *Patient activation and self-efficacy in managing health care and making healthy changes*

## Health risk assessment (HRA)

Approximately half (49.3%) of survey respondents reported that they remembered completing the HRA. This is comparable to the proportion of HMP enrollees who have an HRA record in the MDHHS Data Warehouse (which reflects completion of any component), but higher than the proportion who have a HRA attestation (which reflects submission of the completed HRA form and physician attestation). This suggests that enrollees may perceive HRA completion to mean answering health behavior questions in the initial component of the form, rather than the full attestation process, or that they answered similar questions at a primary care visit. See Appendix A Table 4.64.

Among those who reported completing the HRA, the most common reasons for completion were that their primary care provider (PCP) suggested it (45.9%), they got it in the mail (33.0%), and/or that they completed it during enrollment on the phone (12.6%). Among respondents who reported completing the HRA because they got it in the mail or because they did it during enrollment on the phone, 71.9% said they took the form to their PCP; those from the Detroit Metro region were less likely to report taking the form to their PCP. See Appendix A Tables 4.65.1-4.65.4.

A majority of those who reported completing the HRA felt that the HRA was valuable for improving their health (83.7%) and was helpful for their PCP to understand their health needs (89.7%). About one-third (31.5%) of those who said they completed the HRA felt that the HRA was not that helpful because they already knew what they needed to do to be healthy. See Appendix A Tables 4.66-4.68.

Among those who reported completing the HRA, 80.7% reported choosing to work on at least one health behavior. The most common behaviors that respondents reported selecting were related to nutrition/diet (57.2%) and exercise/activity (52.6%). See Appendix A Tables 4.69, 4.70.1-4.70.2.

Among respondents who chose to work on a health behavior, 61.3% said their health care provider or health plan helped them work on this behavior. Some (8.0%) said there was help they wanted that they did not get. See Appendix A Tables 4.71-4.72.

## *Strategies that facilitate healthy behaviors, including contact with community health workers and other community resources*

We did not measure contact with community health workers and other community resources because we found, in interviews, great difficulty in getting enrollees to clearly identify the roles of people helping them (e.g., community health workers, navigators, case workers, social workers).

## Social interactions

Two-thirds (67.6%) of respondents said that they get together socially with friends or relatives who live outside their home at least once a week. Most (79.8%) respondents reported that the

amount they are involved with their family, friends, and/or community is about the same as before they enrolled in HMP. Those with an income of 0-35% FPL were more likely to say that they get together socially with friends or relatives who live outside their home once a year or less, but more likely to report that they are more involved with their family, friends, and/or community since they enrolled in HMP. See Appendix A Tables 4.73-4.74.

### **Aim 3: Understand enrollee decisions about when, where and how to seek care, including decisions about emergency department utilization**

#### **Care needs after hours**

Over one-fifth (22.0%) of survey respondents reported that there was a time when they needed help or advice when their usual clinic or doctor's office was closed. Among these respondents, 46.8% said they tried to contact their provider's office after they were closed to get help or advice. Among those who tried to contact their provider's office after it was closed, 56.5% said they were able to talk to someone. Among respondents who did not contact their provider's office when they needed help or advice, the main reason for not contacting them was because the office was closed. See Appendix A Tables 5.1-5.3, 5.4.1.

#### **Emergency room use with HMP**

Over one-third (37.6%) of survey respondents reported going to a hospital emergency room (ER) for care in the past 12 months; those with an income of 0-35% FPL were more likely to report an ER visit. Of those who went to the ER in the past 12 months, 83.8% felt that the problem needed to be handled in the ER. Over one-quarter (28.0%) of respondents with an ER visit in the past 12 months said they tried to contact their usual provider's office to get help or advice before going to the ER; those with an income of 0-35% FPL were less likely to report this. Among those who tried to contact their provider, 76.6% reported talking to someone. Among those who talked to someone from their provider's office before going to the ER, the most common reason for going to the ER was because the provider said to go (75.7%); those from the Upper Peninsula/North West/North East and Detroit Metro regions were less likely to report that the provider said to go to the ER. See Appendix A Tables 5.5-5.8, 5.9.2.

Among respondents who did not try to contact their provider before going to the ER: 20.3% arrived to the ER by ambulance, those with an income of 0-35% FPL were more likely to report this; 75.1% went to the ER because it was the closest place to receive care, and there was no difference by region in the percent of respondents reporting this; 19.4% went because they get most of their care at the ER, those with an income of 0-35% FPL were more likely, and those from the Upper Peninsula/North West/North East region were less likely to report that they get most of their care at the ER; 64.3% felt the problem was too serious for a doctor's office or clinic, 63.6% reported their usual clinic was closed, and 26.1% said they needed to get care at a time that would not make them to miss school or work. See Appendix A Tables 5.10.1-5.10.6.

About two-thirds (64.0%) of all respondents said they are more likely to contact their usual provider before going to the ER compared to before HMP; those with an income in the 0-35%

FPL group were more likely to say that they are less likely to contact their usual provider before going to the ER compared to before HMP. See Appendix A Table 5.11.

## **Subgroup Analysis – Low outpatient care utilizers**

Below, we present results from chi-squared analyses comparing responses from the subgroup of respondents with no primary care or outpatient visits based on claims in the 12 months prior to HMP sampling (15.2% of all respondents, see Appendix A Table 2.1), referred to here as “low outpatient care utilizers”, to those with at least one primary care or outpatient visit (see Appendix C). Differences between low outpatient care utilizers and all other respondents are noted for demographics and topics outlined in the CMS Special Terms and Conditions.

Low outpatient care utilizers were more likely to be men, age 19-34, African American, out of work less than one year, and never married. They were also more likely to have an income of 0-35% FPL and to have no insurance in the 12 months prior to HMP enrollment. Low outpatient care utilizers were less likely to have a self-reported chronic condition, a self-reported physical health condition, a self-reported mental health condition, a claims-based chronic disease based on HEDIS criteria or a claims-based mental and behavioral health condition or substance use disorder based on HEDIS criteria, and are less likely to be a high ER utilizer. They were also less likely to be unable to work. See Appendix A Table 2.4.

Low outpatient care utilizers were more likely than other respondents to report excellent or very good health (60.6% vs. 32.0%). See Appendix A Table 4.1.

### ***Health insurance literacy, and knowledge and understanding about the Healthy Michigan Plan***

#### **Knowledge and understanding of HMP coverage**

Low outpatient care utilizers were less likely to report that HMP covers routine dental visits (69.7% vs. 78.5%), eyeglasses (44.3% vs. 63.3%), and counseling for mental or emotional problems (47.0% vs. 57.6%), and more likely to report that they didn’t know whether HMP covers only generic medicines (51.0% vs. 41.5%). See Appendix A Tables 3.1-3.4.

#### **Knowledge and understanding of HMP cost-sharing requirements**

Low outpatient care utilizers were less likely to report that some kinds of visits, tests, and medicines have no copays (55.9% vs. 79.1%). See Appendix A Table 3.8.

#### **MI Health Account**

Low outpatient care utilizers were less likely to report receiving a MI Health Account statement (46.4% vs. 72.1%). See Appendix A Table 3.14.



## *Financial and nonfinancial barriers to care*

### **Out-of-pocket healthcare spending prior to HMP**

Low outpatient care utilizers were less likely to report having problems paying medical bills in the 12 months prior to HMP enrollment (33.1% vs. 46.8%). See Appendix A Table 3.48.

### **Forgone care prior to and with HMP**

Low outpatient care utilizers were less likely to report that they didn't get the health care services they needed in the 12 months before enrolling in HMP (22.6% vs. 34.9%). See Appendix A Table 3.24.

We did not find a difference between low outpatient care utilizers and all other respondents reporting that they didn't get the medical or dental care they needed in the 12 months since enrolling in HMP (14.6% vs. 15.8%). Among those who didn't get the medical or dental care they needed, low outpatient care utilizers were more likely to report that they didn't get the care they needed because they did not have health insurance (18.4% vs. 6.9%), because they did not have transportation (14.6% vs. 4.7%), and because they did not have a doctor or could not find a doctor (11.3% vs. 3.1%). Among those who didn't get needed care due to cost concerns, low outpatient care utilizers were more likely to report they went without a checkup (33.9% vs. 9.8%). See Appendix A Tables 3.26, 3.27.2, 3.27.6, 3.27.8, 3.28.1.

### **Care needs after hours**

Low outpatient care utilizers were less likely to report that in the last 12 months there was a time when they needed help or advice when their usual clinic or doctor's office was closed (10.0% vs. 24.1%). Among those who did not try to contact their provider's office when they needed help or advice when their usual clinic or doctor's office was closed, low outpatient care utilizers were more likely to say they didn't try to contact their provider's office because they were unsure how to contact the provider (8.8% vs. 0.5%). See Appendix A Tables 5.1 and 5.4.4.

### **Perspectives on HMP coverage**

Low outpatient care utilizers were less likely to report that they strongly agree that it is very important to them personally to have health insurance (35.4% vs. 46.2%), to report that they strongly agree that having HMP has taken a lot of stress off them (14.9% vs. 28.0%), to report that they strongly agree that without HMP, they would not be able to go to the doctor (18.0% vs. 30.0%), and to report that they strongly agree that HMP has helped them live a better life (15.4% vs. 26.8%). See Appendix A Tables 3.19, 3.21-3.23.

## *Views about and experiences with health care providers (especially primary care practitioners)*

## **Regular source of care prior to and with HMP**

Low outpatient care utilizers were less likely to report having a place they would usually go for a checkup, when they felt sick, or when they wanted advice about their health in the 12 months prior to HMP enrollment (63.9% vs. 75.5%). Low outpatient care utilizers were more likely to report urgent care or the emergency room as their usual source of care in the 12 months prior to HMP enrollment (25.7% and 19.8%, respectively, vs. 15.5% v and 15.7%). See Appendix A Tables 4.52-4.53.

Low outpatient care utilizers were less likely to report that in the past 12 months of HMP enrollment there is a place they usually go when they need a checkup, feel sick, or want advice about their health (71.0% vs. 96.0%). Low outpatient care utilizers more likely to report urgent care or the emergency room as their usual source of care in the last 12 months of HMP enrollment (13.8% and 6.0%, respectively vs. 4.7% vs. 1.1%). See Appendix A Tables 4.54-4.55.

## **Primary care utilization prior to and with HMP**

Low outpatient care utilizers were more likely to report they had not seen a PCP in more than 5 years prior to HMP enrollment (28.3% vs. 19.2%). See Appendix A Table 4.60.

Low outpatient care utilizers were less likely to report that they have a PCP through their HMP coverage (54.3% vs. 70.0%). Among those who reported that they had not seen a PCP in the past 12 months, low outpatient care utilizers were more likely to report they didn't see a PCP because they were healthy or didn't need to see a doctor (71.0% vs. 56.4%) or because they had transportation difficulties (8.3% vs. 3.0%). Low outpatient care utilizers were less likely to say they have not seen a PCP in the past 12 months because they saw a specialist instead (1.2% vs. 6.9%), because they don't like their doctor (1.0% vs. 6.5%) or for some other reason (19.5% vs. 40.8%). See Appendix A Tables 4.58, 4.62.1, 4.62.3- 4.62.5, 4.62.8.

## **Perceived discrimination**

Low outpatient care utilizers were more likely to report that they didn't know if they have ever felt judged or treated unfairly by medical staff in the past 12 months because of their race (3.3% vs. 0.3%), their ability to speak English (3.9% vs. 0.4%), and their ability to pay for care or the type of health insurance they have (4.9% vs. 0.8%). See Appendix A Tables 3.31.1-3.31.3.

## **Subgroup Analysis – High ER utilizers**

Below, we present results from chi-squared analyses comparing responses from the subgroup of respondents with five or more ER visits based on claims in the 12 months prior to HMP sampling (4.4% of all respondents, see Appendix A Table 2.1), referred to here as “high ER utilizers”, to those with four or fewer ER visits (see Appendix C). Differences between high ER utilizers and all other respondents are noted for demographics and topics outlined in the CMS Special Terms and Conditions.

High ER utilizers were more likely to be women, age 19-34, and unable to work. They were also more likely to have an income 0-35% FPL, a self-reported chronic condition, a self-reported mental health condition, a claims-based chronic disease based on HEDIS criteria, and a claims-based mental and behavioral health condition or substance use disorder based on HEDIS criteria. High ER utilizers were less likely to be a low outpatient care utilizer. See Appendix A Table 2.5.

High ER utilizers were more likely than other respondents to report fair or poor health (49.5% vs. 28.8%). See Appendix A Table 4.1.

### *Health insurance literacy, and knowledge and understanding about the Healthy Michigan Plan*

#### **Knowledge and understanding of HMP coverage**

High ER utilizers were more likely to report that HMP covers counseling for mental or emotional problems (71.9% vs. 55.3%). See Appendix A Table 3.3.

#### **Knowledge and understanding of HMP cost-sharing requirements**

High ER utilizers were more likely to report that they didn't know whether contributions are charged monthly regardless of health care use (61.2% vs. 49.7%). See Appendix A Table 3.5.

#### **MI Health Account**

High ER utilizers were less likely to report receiving a MI Health Account statement (54.5% vs. 68.9%). See Appendix A Table 3.14.

### *Financial and nonfinancial barriers to care*

#### **Out-of-pocket healthcare spending prior to HMP**

High ER utilizers were more likely to report having problems paying medical bills in the 12 months prior to HMP enrollment (62.9% vs. 43.8%). See Appendix A Table 3.48.

#### **Forgone care prior to and with HMP**

We did not find a difference between high ER utilizers and all other respondents reporting that they didn't get the health care services they needed in the 12 months before enrolling in HMP (38.5% vs. 32.7%). See Appendix A Table 3.24.

We did not find a difference between high ER utilizers and all other respondents reporting that they didn't get the medical or dental care they needed in the 12 months since enrolling in HMP (16.6% vs. 15.6%). Among those who didn't get the medical or dental care they needed, high ER utilizers were more likely to report that they didn't get the care they needed because the doctor or hospital would not accept their health insurance (53.0% vs. 22.4%). Among those who didn't

get needed care due to cost concerns, high ER utilizers were less likely to report that they went without dental care (39.5% vs. 64.5%). See Appendix A Tables 3.26, 3.27.3, 3.28.6.

### **Perspectives on HMP coverage**

Most (91.1%) high ER utilizers reported that they strongly agree or agree that having HMP has taken a lot of stress off them compared to 87.8% of all other respondents. High ER utilizers were more likely to report that they strongly agree or agree that without HMP, they would not be able to go to the doctor (89.5% vs. 83.0%). See Appendix A Tables 3.21-3.22.

### ***Views about and experiences with health care providers (especially primary care practitioners)***

#### **Regular source of care prior to and with HMP**

High ER utilizers were more likely to report having a place they would usually go for a checkup, when they felt sick, or when they wanted advice about their health in the 12 months prior to HMP enrollment (86.0% vs. 73.2%). High ER utilizers were also more likely to report the emergency room as their usual source of care in the 12 months prior to HMP enrollment (29.4% vs. 15.5%). See Appendix A Tables 4.52-4.53.

High ER utilizers were more likely to report the emergency room as their usual source of care in the past 12 months of enrollment (6.0% vs. 1.5%). See Appendix A Table 4.55.

#### **Primary care utilization with HMP**

High ER utilizers were as likely as others to report seeing their PCP in the past 12 months (87.1% vs. 85.1%). We did not find a difference between high ER utilizers and all other respondents reporting how easy or difficult it was to get an appointment to see their PCP. Among those who reported it was difficult or very difficult to get an appointment to see their PCP, high ER utilizers were more likely to report that it was difficult because they could not get an appointment soon enough (96.9% vs. 82.9%). See Appendix A Tables 3.29, 3.30.2, 4.61.

#### **Perceived discrimination**

High ER utilizers were more likely to report feeling judged or treated unfairly by medical staff in the past 12 months because of their ability to pay for care or the type of health insurance they have (20.3% vs. 11.2%). See Appendix A Table 3.31.3.

### ***Beneficiary decision-making about when, where and how to seek care***

#### **Care needs after hours**

High ER utilizers were more likely to report that in the last 12 months there was a time when they needed help or advice when their usual clinic or doctor's office was closed (37.4% vs. 21.3%). Among those who needed help or advice when their usual clinic or doctor's office was

closed, high ER utilizers were more likely to report trying to contact their provider's office after they were closed to get help or advice (64.7% vs. 45.3%). See Appendix A Tables 5.1-5.2.

### **Emergency room use with HMP**

High ER utilizers were more likely to report going to a hospital emergency room for care in the past 12 months (84.1% vs. 35.5%). Among those who went to the ER in the past 12 months, high ER utilizers were more likely to report trying to contact their usual provider's office to get help or advice before going to the emergency room (38.8% vs. 26.8%). Among respondents who did not try to contact their provider before going to the ER, high ER utilizers were more likely to report that the ER is their closest place to receive care (88.1% vs. 73.9%) and that their doctor's office or clinic was not open (79.6% vs. 62.1%). 13.0% of high ER utilizers reported that they are about as likely to contact their usual doctor's office before going to the emergency room as they were before they had HMP, compared to 24.0% of all other respondents. See Appendix A Tables 5.5, 5.7, 5.10.2, 5.10.5, 5.11.

### *Contact with community health workers or other community resources*

#### **Social interactions**

19.5% of high ER utilizers reported that they are more involved with their family, friends, and/or community since enrolling in HMP, compared to 14.9% of all other respondents. See Appendix A Table 4.74.

### **Subgroup Analysis – Enrollees with complex chronic conditions**

Below, we present results from chi-squared analyses comparing responses from the subgroup of respondents with one or more chronic conditions (asthma, cardiovascular disease, COPD or diabetes) as defined by HEDIS criteria using claims (25.1% of all respondents, see Appendix A Table 2.1) to those without a chronic condition (see Appendix C). Significant differences between those with a chronic condition and those without are noted for demographics and topics outlined in the CMS Special Terms and Conditions.

Respondents with one or more chronic conditions as defined by HEDIS criteria were more likely to be age 51-64, unable to work or retired, divorced, and a high ER utilizer. They were also more likely to have an income 0-35% FPL, a self-reported chronic condition, a self-reported physical health condition, a self-reported mental health condition, a claims-based mental and behavioral health condition or substance use disorder based on HEDIS criteria, and to report needing help reading written materials often or always. Respondents with one or more chronic conditions as defined by HEDIS criteria were less likely to be more than once race, employed/self-employed, never married, and a low outpatient care utilizer. See Appendix A Table 2.6.

90.3% of those with a chronic condition as defined by HEDIS criteria reported on the survey that they had a physical health condition. Those with a chronic condition were more likely than other respondents to report fair or poor health (48.9% vs. 23.3%). See Appendix A Tables 2.6 and 4.1.

## *Health insurance literacy, and knowledge and understanding about the Healthy Michigan Plan*

### **Knowledge and understanding of HMP coverage**

Those with a chronic condition were more likely to report that HMP covers eyeglasses (67.9% vs. 57.9%) and counseling for mental or emotional problems (59.8% vs. 54.7%). See Appendix A Tables 3.2-3.3.

### **Knowledge and understanding of HMP cost-sharing requirements**

Those with a chronic condition were more likely to know that contributions are charged monthly regardless of health care use (29.4% vs. 25.3%) and that some services have no copay (81.2% vs. 73.7%), and less likely to think they could be dropped for not paying their bill (30.4% vs. 35.4%). See Appendix A Tables 3.5, 3.7-3.8.

### **MI Health Account**

Those with a chronic condition were more likely to report receiving a MI Health Account statement (74.3% vs. 66.2%). See Appendix A Table 3.14.

## *Financial and nonfinancial barriers to care*

### **Out-of-pocket healthcare spending prior to HMP**

Those with a chronic condition were more likely to report having problems paying medical bills in the 12 months prior to HMP enrollment (56.6% vs. 40.7%). See Appendix A Table 3.48.

### **Forgone care prior to and with HMP**

Those with a chronic condition were more likely to report forgone care in the 12 months prior to HMP enrollment (38.0% vs. 31.3%). See Appendix A Table 3.24.

Those with a chronic condition were less likely to report forgone care due to cost in the past 12 months of HMP enrollment (17.2% vs. 28.3%). See Appendix A Table 3.27.1.

## *Views about and experiences with health care providers (especially primary care practitioners)*

### **Regular source of care prior to and with HMP**

Those with a chronic condition were more likely to report having a place they would usually go for a checkup, when they felt sick, or when they wanted advice about their health in the 12 months prior to HMP enrollment (80.1% vs. 71.6%). See Appendix A Table 4.52.

Those with a chronic condition were more likely to report that in the past 12 months of HMP enrollment there is a place they usually go when they need a checkup, feel sick, or want advice about their health (98.1% vs. 90.2%). Those with a chronic condition were less likely to report urgent care or the emergency room as their usual source of care in the last 12 months of HMP enrollment (3.5% and 1.3%, respectively, vs. 6.6% and 1.8%). See Appendix A Tables 4.54-4.55.

### **Primary care utilization prior to and with HMP**

Survey respondents with a chronic condition were more likely to report they had seen a PCP in the year before HMP enrollment (46.1% vs. 38.2%). See Appendix A Table 4.60.

Those with a chronic condition were more likely to report that they have a PCP through their HMP coverage (80.2% vs. 61.4%). Survey respondents with a chronic condition were more likely to report that they saw their PCP in the past 12 months while enrolled in HMP (94.8% vs. 81.8%). Among survey respondents who reported not seeing their PCP in the past 12 months, those with a chronic condition were less likely to say they have not seen a PCP because they were healthy/didn't need to see a doctor (43.9% vs. 65.4%) and more likely to say they have not seen a PCP in the past 12 months because they don't like their doctor (11.3% vs. 3.1%). See Appendix A Tables 4.58, 4.61, 4.62.1, 4.62.4.

### **Perceived discrimination**

Survey respondents with a chronic condition were more likely to report feeling judged or treated unfairly by medical staff in the past 12 months because of their race or ethnic background (5.1% vs. 2.1%). See Appendix A Table 3.31.1.

### ***Knowledge about health and health risks, health behaviors, and engaged participation in care***

#### **Health behaviors and health education**

Respondents with a chronic condition were more likely to report getting a flu shot last fall or winter (48.7% vs. 32.7%). See Appendix A Table 4.37.

Compared to those without a chronic condition, survey respondents with a chronic condition were:

- More likely to report exercising every day per week for at least 20 minutes (35.2% vs. 30.8%)
- Less likely to report exercising 3-6 days per week for at least 20 minutes (26.5% vs. 35.8%)
- More likely to report exercising 0 days per week for at least 30 minutes (22.7% vs. 17.0%)

See Appendix A Table 4.38.

Respondents with a chronic condition reported a mean of 8.2 days in the last month in which poor physical or mental health kept them from doing their usual activities, such as self-care,

work, or recreation, compared to a mean of 4.3 days reported by those without a chronic condition. See Appendix A Table 4.6.

Respondents with a chronic condition were more likely to report drinking sugary drinks zero days per week (35.5% vs. 24.7%). See Appendix A Table 4.39.

Respondents with a chronic condition were more likely to report talking with a health professional about exercise (65.2% vs. 43.1%) and diet and nutrition (65.6% vs. 44.5%) in the past 12 months. See Appendix A Tables 4.41-4.42.

Survey respondents with a chronic condition were more likely to report no days of unsafe alcohol use in the past week (84.6% vs. 78.9%). Among those who reported unsafe alcohol use in the past week, those with chronic condition were more likely to report talking to a health professional about safe alcohol use (40.5% vs. 27.8%). See Appendix A Tables 4.43-4.44.

Survey respondents with a chronic condition were more likely to report smoking or using tobacco in the past 30 days (42.1% vs. 36.3%). Among those who smoked or used tobacco in the past 30 days, those with a chronic condition were more likely to report wanting to quit (79.5% vs. 73.5%). Among those who smoked or used tobacco in the past 30 days, those with a chronic condition were more likely to report receiving advice or assistance from a health professional or health plan on how to quit in the past 12 months (70.0% vs. 47.8%). See Appendix A Tables 4.45-4.46, 4.48.

Among respondents who reported using drugs or medications for mood or to aid in relaxation sometimes or every day, those with a chronic condition were more likely to report speaking with a health professional about the use of these drugs or medications (55.7% vs. 28.6%). See Appendix A Table 4.51.

### **Health risk assessment (HRA)**

Among respondents who reported completing the HRA because they got it in the mail or because they did it during enrollment on the phone, those with a chronic condition were more likely to report taking the form to their PCP (81.0% vs. 68.9%). See Appendix A Table 4.65.4.

Among respondents who reported completing the HRA, those with a chronic condition were:

- More likely to strongly agree or agree that the HRA was valuable for improving their health (88.7% vs. 82.0%)
- More likely to report choosing to work on at least one health behavior (87.6% vs. 78.3%)

See Appendix A Tables 4.66, 4.69.

Among respondents who reported choosing to work on at least one health behavior, those with a chronic condition were:

- More likely to choose to work on losing weight (13.9% vs. 8.6%) and monitoring their blood pressure or blood sugar (2.9% vs. 1.0%)
- More likely to report that their health care provider or health plan helped them work on this behavior (71.8% vs. 57.2%)



See Appendix A Tables 4.70.3, 4.70.9, 4.71.

### ***Beneficiary decision-making about when, where and how to seek care***

#### **Care needs after hours**

Survey respondents with a chronic condition were more likely to report that in the last 12 months there was a time when they needed help or advice when their usual clinic or doctor's office was closed (28.1% vs. 19.9%). See Appendix A Table 5.1.

#### **Emergency room use with HMP**

Survey respondents with a chronic condition were more likely to report going to a hospital emergency room (ER) for care in the past 12 months (48.3% vs. 34.0%). Among those who went to the ER in the past 12 months, respondents with a chronic condition were more likely to report feeling that the problem needed to be handled in the ER (90.9% vs. 80.5%). See Appendix A Tables 5.5-5.6.

Among respondents who did not try to contact their provider before going to the ER, those with a chronic disease were less likely to report that they get most of their care at the ER (13.8% vs. 22.1%), less likely to report that they needed to get care at a time that would not make them to miss school or work (19.4% vs. 29.4%), and more likely to report that they felt the problem was too serious for a doctor's office or clinic (71.3% vs. 60.9%). See Appendix A Tables 5.10.3-5.10.4, 5.10.6.

### ***Contact with community health workers or other community resources***

#### **Social interactions**

Survey respondents with a chronic condition were more likely to report that they get together socially with friends or relatives who live outside their home every month or less (37.9% vs. 29.8%) and more likely to report that the amount they are involved with their family, friends, and/or community is less than before they enrolled in HMP (6.8% vs. 3.6%). See Appendix A Tables 4.73-4.74.

### **Subgroup Analysis – Enrollees with mental and behavioral health conditions or substance use disorders**

Below, we present results from chi-squared analyses comparing responses from the subgroup of respondents with a mental and behavioral health condition or substance use disorder as defined by HEDIS criteria using claims data (48.3% of all respondents, see Appendix A Table 2.1) to those without (see Appendix C). Significant differences between those with a mental and behavioral health condition or substance use disorder and those without are noted for demographics and topics outlined in the CMS Special Terms and Conditions.

Respondents with a mental and behavioral health condition or substance use disorder were more likely to be women, age 35-50, white, from the West/East Central/East region, unable to work, divorced, and a high ER utilizer. They were also more likely to have an income of 0-35% FPL, a self-reported chronic condition, a self-reported physical health condition, a self-reported mental health condition, a claims-based chronic disease based on HEDIS criteria, and to report needing help reading written materials often or always. Respondents with a mental and behavioral health condition or substance use disorder were less likely to be Arab, Chaldean, Middle Eastern, employed/self-employed, married, from an urban area, and a low outpatient care utilizer. The Detroit Metro region had the lowest proportion of respondents with a mental and behavioral health condition or substance use disorder. See Appendix A Table 2.7.

57.4% of those with a mental and behavioral health condition or substance use disorder reported on the survey that they had a mental health condition. Those with a mental and behavioral health condition or substance use disorder were more likely than other respondents to report fair or poor health (39.8% vs. 20.3%). See Appendix A Tables 2.7 and 4.1.

### ***Health insurance literacy, and knowledge and understanding about the Healthy Michigan Plan***

#### **Knowledge and understanding of HMP coverage**

Those with a mental and behavioral health condition or substance use disorder were more likely to report that HMP covers eyeglasses (64.3% vs. 56.8%) and counseling for mental or emotional problems (69.2% vs. 43.6%). See Appendix A Tables 3.2-3.3.

#### **Knowledge and understanding of HMP cost-sharing requirements**

Those with a mental and behavioral health condition or substance use disorder were more likely to know that some services have no copay (80.5% vs. 71.0%). See Appendix A Table 3.8.

### ***Financial and nonfinancial barriers to care***

#### **Out-of-pocket healthcare spending prior to HMP**

Those with a mental and behavioral health condition or substance use disorder were more likely to report having problems paying medical bills in the 12 months prior to HMP enrollment (52.1% vs. 37.8%). Of those who reported having problems paying their medical bills, those with a mental and behavioral health condition or substance use disorder were more likely to report being contacted by a collections agency (71.9% vs. 61.1%). See Appendix A Tables 3.48-3.49.

#### **Forgone care prior to and with HMP**

Those with a mental and behavioral health condition or substance use disorder were more likely to report forgone care in the 12 months prior to HMP enrollment (38.2% vs. 28.1%). See Appendix A Table 3.24.

Those with a mental and behavioral health condition or substance use disorder were more likely to report unmet medical or dental need in the past 12 months of HMP enrollment (17.9% vs. 13.6%). See Appendix A Table 3.26.

### **Challenges using HMP coverage**

Those with a mental and behavioral health condition or substance use disorder were more likely to report that they had questions or problems using their HMP coverage (17.4% vs. 13.8%). See Appendix A Table 3.15.

### ***Views about and experiences with health care providers (especially primary care practitioners)***

#### **Regular source of care prior to and with HMP**

Those with a mental and behavioral health condition or substance use disorder were more likely to report having a place they would usually go for a checkup, when they felt sick, or when they wanted advice about their health in the 12 months prior to HMP enrollment (76.2% vs. 71.5%). See Appendix A Table 4.52.

Those with a mental and behavioral health condition or substance use disorder were more likely to report that in the past 12 months of HMP enrollment there is a place they usually go when they need a checkup, feel sick, or want advice about their health (95.5% vs. 89.1%). Those with a mental and behavioral health condition or substance use disorder were less likely to report urgent care or the emergency room as their usual source of care in the last 12 months of HMP enrollment (4.5% and 1.4%, respectively, vs. 7.0% and 2.0%). See Appendix A Tables 4.54-4.55.

#### **Primary care utilization with HMP**

Survey respondents with a mental and behavioral health condition or substance use disorder were more likely to report that they saw their PCP in the past 12 months while enrolled in HMP (91.6% vs. 79.0%). Those with a mental and behavioral health condition or substance use disorder were more likely than other respondents to report that it was difficult or very difficult to get an appointment to see their PCP (9.1% vs. 4.9%). Among survey respondents who reported not seeing their PCP in the past 12 months, those with a mental and behavioral health condition or substance use disorder were less likely to report that the reason was no transportation (2.0% vs. 6.8%) and more likely to report some other reason (46.4% vs. 24.6%). See Appendix A Tables 3.29, 4.61, 4.62.3, 4.62.8.

#### **Perceived discrimination**

Survey respondents with a mental and behavioral health condition or substance use disorder were more likely to report feeling judged or treated unfairly by medical staff in the past 12 months because of their race or ethnic background (4.0% vs. 1.8%) and because of their ability to

pay for care or the type of health insurance they have (14.9% vs. 8.5%). See Appendix A Tables 3.31.1, 3.31.3.

### *Beneficiary decision-making about when, where and how to seek care*

#### **Care needs after hours**

Survey respondents with a mental and behavioral health condition or substance use disorder were more likely to report that in the last 12 months there was a time when they needed help or advice when their usual clinic or doctor's office was closed (29.9% vs. 14.5%). Among those who needed help or advice when their usual clinic or doctor's office was closed, those with a mental and behavioral health condition or substance use disorder were more likely to report trying to contact their provider's office after they were closed to get help or advice (50.5% vs. 39.5%). See Appendix A Tables 5.1-5.2.

#### **Emergency room use with HMP**

Survey respondents with a mental and behavioral health condition or substance use disorder were more likely to report going to a hospital emergency room for care in the past 12 months (49.2% vs. 26.8%). Among respondents who did try to contact their provider before going to the ER, those with a mental and behavioral health condition or substance use disorder were more likely to report that they ended up going to the ER because they could not get an appointment soon enough (10.1% vs. 4.3%). Among respondents who did not try to contact their provider before going to the ER, those with a mental and behavioral health condition or substance use disorder were more likely to report that they arrived at the ER by ambulance or other emergency vehicle (25.1% vs. 12.4%) and that they felt the problem was too serious for a doctor's office or clinic (67.6% vs. 59.0%). See Appendix A Tables 5.5, 5.9.5, 5.10.1, 5.10.4.

### *Contact with community health workers or other community resources*

#### **Social interactions**

Survey respondents with a mental and behavioral health condition or substance use disorder were more likely to report that they get together socially with friends or relatives who live outside their home every month or less (37.9% vs. 26.2%). Survey respondents with a mental and behavioral health condition or substance use disorder were more likely to report that the amount they were involved with their family, friends, and/or community since enrolling in HMP had increased (18.4% vs. 12.0%). See Appendix A Tables 4.73-4.74.

### **Individual and Community Factors Analysis**

Below, we present results from mixed effects regression analyses, to identify individual and community factors associated with Healthy Michigan Plan enrollees': health literacy; knowledge and understanding about the Healthy Michigan Plan; knowledge about health and health risks, health behaviors and engaged participation in care; and decision making about when, where and how to seek care.

The following individual factors were included in these analyses: age, gender, race, ethnicity, FPL, insurance status prior to HMP, previous Medicaid enrollment, employment status, health literacy, PCP visit in the past 12 months of HMP enrollment, self-reported chronic disease status, any days of poor physical health, and any days of poor mental health. The source for these measures were enrollee responses to the 2016 *Healthy Michigan Voices* Enrollee Survey. For this analysis, “Don’t know” responses were recoded as missing for these variables.

The following community factors were included in these analyses: percent of population with high school degree or equivalent, percent of population with college degree, percent of population below poverty level, percent of population uninsured before ACA, percent of population with Medicaid coverage before ACA, percent of population with limited English proficiency, percent of population unemployed, percent of households receiving food stamps/SNAP benefits, number of liquor stores, percent of households without car access, ratio of PCPs to the population, preventable hospitalization rate, violent crime rate, injury death rate, and drug overdose mortality rate. Please see Appendix C for more information about these measures.

For these analyses of multivariate relationships, the types of analysis, models, variables included and how they were defined or measured are included in Appendices B and C of this report. The specific tests are described in the table footnotes.

### **Health Literacy**

- Men, those of other or more than one race, those 0-35% FPL and those with a chronic condition were more likely to say they needed help reading written materials.
- Those who reported having no insurance or Medicaid insurance in the year prior to enrollment were more likely to say they needed help with written materials.

### **Knowledge and understanding of HMP**

- Women, African-Americans, those who reported seeing a PCP in the past year and those with chronic conditions had a better understanding of HMP coverage.
- Respondents 0-35% FPL and those who lived in zip codes in the middle tertile of percent <100% FPL were less likely to understand HMP cost-sharing.

### **Health behaviors**

- Men, respondents 19-35 years old and those who reported one or more poor mental health days in the past month reported greater frequency of drinking sugar-containing beverages.
- Respondents living in zip codes in the top two tertiles of food stamp recipients, and those with fewer primary care physicians per capita also reported greater frequency of drinking sugar-sweetened beverages.
- Women and those reporting one or more days of poor mental health in the past month reported lower frequencies of exercise.
- Respondents between 51-64 years or employed reported greater frequency of exercise.
- Those living in zip codes in the lowest tertile of unemployment, or in the highest two tertiles of liquor store presence, reported exercising less frequently.

- Men, younger respondents and those reporting one or more poor mental health days in the past month reported eating fruits and vegetables less often. Hispanic respondents reported eating fruits and vegetables more frequently.
- Those who lived in zip codes in the middle tertile of food stamp recipients reported eating fruits and vegetables less frequently than those in the lowest tertile.
- Men, African-Americans, and employed respondents reported more frequent unhealthy alcohol consumption.
- Respondents 19-35 years old or with lower health literacy reported less frequent unhealthy alcohol consumption.
- Respondents who were older, male, had lower incomes, reported one or more days of poor physical or mental health in the past month or no PCP visit in the past year were more likely to report using tobacco.
- Respondents who lived in zip codes in the middle tertile of unemployment were more likely to report tobacco use than those in the lowest tertile.

### **Beneficiary decision-making about when, where and how to seek care**

- Respondents were more likely to report an ER visit in the past year if they were female, lower income, had insurance coverage for 6-11 months of the year prior to enrollment in HMP, or lived in zip codes in the highest tertile of poverty.
- Respondents were more likely to say they would contact their doctor prior to going to the ER if they were older, female, lacked insurance at all during the year prior to enrollment in HMP, and had seen their PCP in the past year.
- Those who lived in counties with the highest rates of preventable hospitalizations were less likely to say they would call their doctor before going to the ER.

## **Limitations**

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As with any survey, HMP responses may be biased by social desirability. While the survey was available in three languages, it was not available in all languages spoken by enrollees; however, only 36 sampled enrollees were deemed ineligible for this reason. While many measures were based on those used in large national surveys, some questions were newly developed specifically to assess enrollee perspectives on key features of the HMP program. In addition, this survey was cross-sectional; longitudinal follow-up surveys are planned for 2017 and 2018.

Bivariate analyses may find relationships between variables that are due to confounding and should be interpreted with caution.

## **Lessons Learned**

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Several lessons were learned in the process of conducting outreach to Healthy Michigan Plan enrollees for recruiting them to the *Healthy Michigan Voices* survey:

To meet the needs of enrollees who are more comfortable speaking Spanish or Arabic, sampling lists were reviewed for names that suggest Hispanic or Arabic ethnicity so that bilingual interviewers could place those calls. Comments from survey respondents indicated that this

strategy helped put enrollees at ease about the project (e.g., “I only did the survey because you speak Arabic.”)

In the initial HMP survey, many enrollees offered descriptions and anecdotes not captured by fixed-choice or brief response items used with the computer-assisted telephone interview system. For subsequent waves, we have asked enrollees if their interview could be recorded and nearly all have agreed, providing additional details about the enrollee experience in a more open-ended fashion.

To enhance the response rate, the introductory mailing included multiple options for enrollees to report their willingness to participate (email, postcard or call-in to schedule appointment or suggest best time of day). Call-outs were made from late morning to mid-evening; staffing was increased for certain days/times that yielded the most interviews.

Enrollees who completed the HMP survey were mailed a gift card to compensate them for their time answering the survey questions. Initially, the gift card envelope included the standard gift card vendor insert – two dense pages of small print and technical language. After receiving numerous call-ins to report problems using the gift card, we added a brief “How to Use Your Gift Card” summary with clear bullet points in simple language. The same message in Spanish or Arabic was added to the summary for enrollees who completed the survey in those languages.

## Conclusions

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More than half of respondents did not have insurance at any time in the year before enrolling in HMP and half of those who did have insurance were covered by Medicaid or another state program. HMP does not appear to be replacing employment-provided health insurance for most enrollees.

HMP has greatly improved access to care for most enrollees. More than one-third of respondents reported not getting the care they needed in the year before enrolling in HMP and most respondents reported that their ability to get care had improved since enrolling in HMP. Forgone care, usually due to cost, lessened considerably after HMP enrollment. Over half of respondents reported better access to primary care, help with staying healthy, and cancer screening. A majority of respondents strongly agreed or agreed that without HMP they would not be able to go to the doctor.

Similarly, HMP lessened financial burdens from health care, with most respondents reporting that their problems paying medical bills had gotten better since enrolling in HMP. Most respondents across all income groups agreed that the amount they pay overall for HMP seems fair and is affordable.

More than two-thirds of respondents recalled receiving a MI Health Account statement, which the vast majority felt helped them be more aware of the costs of their care. Further, most respondents reported being likely to engage in a range of cost-conscious behaviors such as

talking with a doctor about the costs of a service, or checking how much they would have to pay for a service before receiving it.

There were some areas in which enrollee understanding of their coverage and cost-sharing requirements could improve. For example, many respondents were not aware that HMP covers dental visits, eyeglasses, counseling for mental health problems, and brand name prescription drugs. Additionally, most respondents were not aware that they could not be disenrolled from HMP for failing to pay their bills.

The HMP emphasis on primary care appears to have shifted much care-seeking from acute care settings to primary care settings. The percentage of enrollees who had a place they usually went for health care increased with HMP to over 90%, and naming the emergency room as a regular source of care declined significantly after enrolling in HMP (from 16.2% to 1.7%). For unscheduled health needs, some HMP enrollees sought advice from their regular source of care prior to seeking care, the majority of whom were referred to the emergency room. Two-thirds said they were more likely since enrolling in HMP to call their usual provider before going to the emergency department.

About half of respondents reported completing an HRA, bearing in mind the limits to self-reported data. They rarely reported completing it because of incentives to reduce cost-sharing. Most HMP enrollees who completed the HRA believed it was beneficial and reported receiving help from their PCP or health plan on a healthy behavior. The HMP emphasis on health risk reduction, combined with its emphasis on primary care, appears to create opportunities for improving enrollees' long-term health.

HMP may influence enrollees' ability to obtain or maintain employment, as many HMP enrollees reported improved functioning, ability to work, and job seeking after obtaining health insurance through Medicaid expansion.

Many HMP enrollees reported improved access to dental care and improved oral health, although about one-quarter of enrollees were unaware that they had HMP dental coverage, and the most common type of care forgone due to cost was dental care. Increasing enrollee awareness of coverage for dental services has the potential to improve oral and overall health.

Chronic health conditions were common among HMP enrollees. Almost half of those with chronic conditions reported a condition had been newly diagnosed since enrolling in HMP. Those with chronic health conditions had, with some exceptions, reported better health behaviors than those without and reported receiving more help with improving their health risks.

Nearly all of those with chronic conditions or mental health or substance use disorders had a PCP visit in the previous year.

Despite the relatively short duration of their enrollment in HMP at the time of the survey, nearly half of respondents said their physical health had gotten better and about 40% said their emotional and mental health and oral health had gotten better since enrolling. These



improvements underscore the impact of HMP on enrollees' health and well-being in addition to its effects on their ability to access needed care.

# **2016 Healthy Michigan Voices Enrollee Survey**

## **Appendix A**

Tables for Special Terms and Conditions

Aims 1 - 3 and Subgroup Analyses

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| 4.62.9   | Not seen PCP- Don't know . . . . .  | 222        |
| 4.62.10  | Not seen PCP- Refused . . . . .   | 223        |
| 4.63     | Q: Did you and the primary care provider talk about things you can do to be healthy and prevent medical problems? . . . . .   | 224        |
| 4.64     | Q: Do you remember completing the Health Risk Assessment? . . . . .   | 225        |
| 4.65     | Q: What led you to complete it? . . . . .   | 226        |
| 4.65.1   | Completed HRA- PCP suggested it . . . . .   | 226        |
| 4.65.2   | Completed HRA- Got it in mail . . . . .   | 227        |
| 4.65.3   | Completed HRA- At enrollment on the phone . . . . .   | 228        |
| 4.65.4   | Q: Did you take the form to your primary care provider? . . . . .   | 229        |
| 4.65.5   | Completed HRA- Gift card/money/reward . . . . .   | 230        |
| 4.65.6   | Completed HRA- Health plan suggested . . . . .  | 231        |
| 4.65.7   | Completed HRA- To save money on copays/cost sharing . . . . .   | 232        |
| 4.65.8   | Completed HRA- To stay on top of my health . . . . .  | 233        |
| 4.65.9   | Completed HRA- Other . . . . .  | 234        |
| 4.65.10  | Completed HRA- Don't know . . . . .   | 235        |
| 4.65.11  | Completed HRA- Refused . . . . .  | 236        |
| 4.66     | Q: I think doing the Health Risk Assessment was valuable for me to improve my health. . . . .   | 237        |
| 4.67     | Q: I think doing the Health Risk Assessment was helpful for my primary care provider to understand my health needs. . . . .   | 238        |
| 4.68     | Q: I know what I need to do to be healthy, so the Health Risk Assessment wasn't that helpful. . . . .   | 239        |
| 4.69     | Q: After going through the Health Risk Assessment, or at a primary care visit, did you choose to work on a healthy behavior or do something good for your health? . . . . . | 240        |
| 4.70     | Q: What did you choose to do? . . . . .   | 241        |
| 4.70.1   | HRA behavior- Exercise/activity . . . . .   | 241        |
| 4.70.2   | HRA behavior- Nutrition/diet . . . . .  | 242        |
| 4.70.3   | HRA behavior- Lose weight . . . . .   | 243        |
| 4.70.4   | HRA behavior- Reduce/quit tobacco use . . . . .   | 244        |
| 4.70.5   | HRA behavior- Flu shot . . . . .  | 245        |
| 4.70.6   | HRA behavior- Reduce/quit alcohol consumption . . . . .   | 246        |
| 4.70.7   | HRA behavior- Treatment for substance use disorder . . . . .  | 247        |
| 4.70.8   | HRA behavior- Take medicine regularly . . . . .   | 248        |
| 4.70.9   | HRA behavior- Monitor my blood pressure/blood sugar . . . . .   | 249        |
| 4.70.10  | HRA behavior- Go to the dentist . . . . .   | 250        |
| 4.70.11  | HRA behavior- Follow up appointment for chronic disease . . . . .   | 251        |
| 4.70.12  | HRA behavior- Other . . . . .   | 252        |
| 4.70.13  | HRA behavior- Don't know . . . . .  | 253        |
| 4.70.14  | HRA behavior- Refused . . . . .   | 254        |
| 4.71     | Q: Did your health care provider or health plan help you work on this healthy behavior? . . . . .   | 255        |
| 4.72     | Q: Was there help that you wanted that you didn't get? . . . . .  | 256        |
| 4.73     | Q: How often do you get together socially with friends or relatives who live outside your home? . . . . .   | 257        |
| 4.74     | Q: Since enrolling in the Healthy Michigan Plan, are you involved with your family, friends or community more/less/about the same? . . . . .                                | 258        |
| <b>5</b> | <b>AIM 3: To understand enrollee decisions about when, where and how to seek care, including decisions about emergency department utilization</b> . . . . .                 | <b>259</b> |
| 5.1      | Q: In the last 12 months, was there a time when you needed help or advice when your usual clinic or doctor's office was closed? . . . . .                                   | 259        |
| 5.2      | Q: In the most recent case, did you try to contact your provider's office after it was closed to get help or advice? . . . . .  | 260        |
| 5.3      | Q: Were you able to talk to someone? . . . . .  | 261        |
| 5.4      | Q: Why didn't you try to contact your provider's office? . . . . .  | 262        |
| 5.4.1    | No attempt to contact provider's office because- It was closed . . . . .  | 262        |
| 5.4.2    | No attempt to contact provider's office because- Felt it was an emergency . . . . .   | 263        |
| 5.4.3    | No attempt to contact provider's office because- Decided to wait and see if conditions resolved . . . . .   | 264        |

|        |   |     |
|--------|---|-----|
| 5.4.4  | No attempt to contact provider’s office because- Unsure how to contact provider . . . . .   | 265 |
| 5.4.5  | No attempt to contact provider’s office because- Other . . . . .  | 266 |
| 5.4.6  | No attempt to contact provider’s office because- Don’t know . . . . .   | 267 |
| 5.4.7  | No attempt to contact provider’s office because- Refused . . . . .  | 268 |
| 5.5    | Q: During the past 12 months, did you go to a hospital emergency room about your own health (whether or not you were admitted overnight)? . . . . .               | 269 |
| 5.6    | Q: Thinking about the last time you were at the emergency room, did you think your problem needed to be handled in the emergency room? . . . . .                  | 270 |
| 5.7    | Q: Thinking about the last time you were at the emergency room, did you try to contact your usual provider’s office before going to the emergency room? . . . . . | 271 |
| 5.8    | Q: Did you talk to someone? . . . . .   | 272 |
| 5.9    | Q: Why did you end up going to the ER? . . . . .  | 273 |
| 5.9.1  | Went to ER because- No response from provider . . . . .   | 273 |
| 5.9.2  | Went to ER because- Provider said to go to the ER . . . . .   | 274 |
| 5.9.3  | Went to ER because- Provider’s advice wasn’t helpful . . . . .  | 275 |
| 5.9.4  | Went to ER because- Symptoms did not improve or got worse . . . . .   | 276 |
| 5.9.5  | Went to ER because- Could not get an appointment soon enough . . . . .  | 277 |
| 5.9.6  | Went to ER because- Other . . . . .   | 278 |
| 5.9.7  | Went to ER because- Don’t know . . . . .  | 279 |
| 5.9.8  | Went to ER because- Refused . . . . .   | 280 |
| 5.10   | Q: Which of these were true of this particular ER visit? . . . . .  | 281 |
| 5.10.1 | Arrived to emergency room by ambulance . . . . .  | 281 |
| 5.10.2 | Emergency room is closest place . . . . .   | 282 |
| 5.10.3 | Get most care at the emergency room . . . . .   | 283 |
| 5.10.4 | Problem was too serious for doctor’s office . . . . .   | 284 |
| 5.10.5 | Doctor’s office or clinic was not open . . . . .  | 285 |
| 5.10.6 | Needed care at a time that would not make you miss work or school . . . . .   | 286 |
| 5.10.7 | Other reason for not contacting usual provider before going to the emergency room . . . . .   | 287 |
| 5.11   | Q: Compared to before you had the Healthy Michigan Plan, how likely are you to contact your usual doctor’s office before going to the emergency room? . . . . .   | 288 |



# 1 How to read the tables

## 1.1 Question asked for the corresponding table will be shown here

*Universe:* The ‘universe’ tells you which respondents answered the question.

|   | Variable of Interest |           |                   |             |                   |             |                   |            | Total Column Row% |
|---|----------------------|-----------|-------------------|-------------|-------------------|-------------|-------------------|------------|-------------------|
|   | Response Option 1    |           | Response Option 2 |             | Response Option 3 |             | Response Option 4 |            |                   |
|   | Row%                 | 95%CI     | Row%              | 95%CI       | Row%              | 95%CI       | Row%              | 95%CI      |                   |
| <b>FPL category</b>                                 |                      |           |                   |             |                   |             |                   |            |                   |
| 0-35% (n=772)                                       | 2.3                  | [1,3,4.0] | 12.0              | [9,4,15.2]  | 84.4              | [80,9,87.4] | 1.2               | [0,5,3.1]  | 100.0             |
| 36-99% (n=641)                                      | 2.4                  | [1,4,4.0] | 8.8               | [6,1,12.4]  | 88.3              | [84,6,91.2] | 0.5               | [0,2,1.3]  | 100.0             |
| ≥ 100% (n = 456)                                    | 3.9                  | [2,1,6.9] | 8.9               | [6,4,12.3]  | 86.9              | [82,9,90.1] | 0.3               | [0,0,2.3]  | 100.0             |
| Pearson: Uncorrected chi2(6) =                      | 11.0315              |           |                   |             |                   |             |                   |            |                   |
| Design-based F(5.68, 10542.54) =                    | 1.4657               | Pr =      | 0.189             |             |                   |             |                   |            |                   |
| <b>Region</b>                                       |                      |           |                   |             |                   |             |                   |            |                   |
| UP/NW/NE (n=354)                                    | 3.8                  | [2,1,6.8] | 10.8              | [7,7,14.9]  | 84.6              | [79,9,88.4] | 0.8               | [0,3,2.8]  | 100.0             |
| W/E Central/E (n=564)                               | 1.8                  | [1,0,3.4] | 9.0               | [6,5,12.3]  | 88.6              | [85,1,91.3] | 0.6               | [0,2,1.9]  | 100.0             |
| S Central/SW/SE (n=407)                             | 2.9                  | [1,3,6.2] | 8.3               | [5,8,11.9]  | 87.6              | [83,3,91.0] | 1.1               | [0,4,3.6]  | 100.0             |
| Detroit Metro (n=544)                               | 2.8                  | [1,6,4.7] | 12.6              | [9,4,16.6]  | 83.7              | [79,4,87.3] | 0.9               | [0,2,3.6]  | 100.0             |
| Pearson: Uncorrected chi2(9) =                      | 10.0786              |           |                   |             |                   |             |                   |            |                   |
| Design-based F(7.48, 13888.33) =                    | 0.8540               | Pr =      | 0.549             |             |                   |             |                   |            |                   |
| <b>Low healthcare utilizers</b>                     |                      |           |                   |             |                   |             |                   |            |                   |
| Yes (n=165)   | 2.8                  | [1,1,6.8] | 18.6              | [11,8,28.1] | 75.7              | [65,7,83.5] | 2.9               | [0,6,13.0] | 100.0             |
| No (n=1,704)  | 2.6                  | [1,8,3.7] | 9.6               | [7,9,11.5]  | 87.2              | [85,0,89.1] | 0.6               | [0,3,1.3]  | 100.0             |
| Pearson: Uncorrected chi2(3) =                      | 28.1189              |           |                   |             |                   |             |                   |            |                   |
| Design-based F(2.71, 5037.91) =                     | 4.2633               | Pr =      | 0.007             |             |                   |             |                   |            |                   |
| <b>High ER utilizers</b>                            |                      |           |                   |             |                   |             |                   |            |                   |
| Yes (n=106)   | 2.7                  | [1,0,7.6] | 9.1               | [4,8,16.6]  | 88.2              | [80,3,93.2] | 0.0               |            | 100.0             |
| No (n=1,763)  | 2.6                  | [1,8,3.7] | 10.7              | [8,9,12.8]  | 85.8              | [83,4,87.8] | 0.9               | [0,4,2.0]  | 100.0             |
| Pearson: Uncorrected chi2(3) =                      | 1.4407               |           |                   |             |                   |             |                   |            |                   |
| Design-based F(2.62, 4872.03) =                     | 0.3260               | Pr =      | 0.779             |             |                   |             |                   |            |                   |
| <b>Chronic disease (HEDIS)</b>                      |                      |           |                   |             |                   |             |                   |            |                   |
| Chronic disease (HEDIS) (n=666)                     | 3.1                  | [1,8,5.2] | 9.8               | [7,1,13.5]  | 87.0              | [83,1,90.0] | 0.1               | [0,0,0.5]  | 100.0             |
| No chronic disease (n=1,203)                        | 2.4                  | [1,6,3.7] | 10.9              | [8,8,13.5]  | 85.4              | [82,6,87.8] | 1.2               | [0,6,2.7]  | 100.0             |
| Pearson: Uncorrected chi2(3) =                      | 6.9876               |           |                   |             |                   |             |                   |            |                   |
| Design-based F(2.49, 4630.49) =                     | 1.9157               | Pr =      | 0.136             |             |                   |             |                   |            |                   |
| <b>Mental health/substance use disorder (HEDIS)</b> |                      |           |                   |             |                   |             |                   |            |                   |
| MH/SA (HEDIS) (n=1,077)                             | 3.4                  | [2,3,5.1] | 10.7              | [8,5,13.5]  | 85.4              | [82,4,87.9] | 0.5               | [0,2,1.3]  | 100.0             |
| No MH/SA (n=792)                                    | 1.6                  | [0,9,2.8] | 10.4              | [7,9,13.6]  | 86.6              | [83,1,89.5] | 1.4               | [0,5,3.7]  | 100.0             |
| Pearson: Uncorrected chi2(3) =                      | 10.7754              |           |                   |             |                   |             |                   |            |                   |
| Design-based F(2.93, 5436.92) =                     | 2.2428               | Pr =      | 0.083             |             |                   |             |                   |            |                   |
| <b>Total (n=1,869)</b>                              | 2.6                  | [1,9,3.7] | 10.6              | [8,9,12.6]  | 85.9              | [83,7,87.9] | 0.9               | [0,4,1.8]  | 100.0             |

- Each table will show a variable of interest and the response options at the top. Where ‘Variable of Interest’ is currently, the variable name or description will replace it and the ‘Response Option’ will be replaced with the response options for that question. The variable of interest is analyzed in a cross-tabulation format against other variables. These variables are on the left side of the table. The name of the variable is in bold on top of the categories that correspond to that variable. Each variable on the left side of the table is separated by horizontal black lines. The statistical analysis information is between two variables; the analysis information corresponds to the variable above it.
- ‘Row%’ is the weighted percentage of respondents that answered that response option in the survey. The ‘95%CI’ is the range of values that one can be 95% confident contains the true mean. The ‘Total Column’ shows that the row adds up to 100%. The value in ‘Pr= value’ indicates if there is a significant relationship between the two variables. If ‘value’ is less than 0.05, it can be interpreted that there is a significant relationship between the two variables.
- The ‘Total’ row is at the bottom of the table. This row displays values for the respondents that answered the question in the table as a whole, i.e. not run against another variable.
- Some questions have greater or fewer response options than the table presented here.

## 2 Demographics Tables

### 2.1 Main Demographics Table

Universe: All respondents

|                                       | Percent | 95%CI       |
|---------------------------------------|---------|-------------|
| <b>FPL category</b>                   |         |             |
| 0-35% (n=1,600)                       | 51.8    | [50.8,52.8] |
| 36-99% (n=1,450)                      | 28.4    | [27.6,29.3] |
| ≥ 100%(n = 1,040)                     | 19.8    | [19.1,20.4] |
| <b>Region</b>                         |         |             |
| UP/NW/NE (n=746)                      | 9.0     | [8.6,9.4]   |
| W/E Central/E (n=1,265)               | 28.6    | [27.8,29.4] |
| S Central/SW/SE (n=837)               | 18.6    | [17.8,19.3] |
| Detroit Metro (n=1,242)               | 43.8    | [42.8,44.9] |
| <b>Age</b>                            |         |             |
| 19-34 (n=1,303)                       | 40.0    | [38.0,42.0] |
| 35-50 (n=1,301)                       | 34.0    | [32.1,35.9] |
| 51-64 (n=1,486)                       | 26.0    | [24.5,27.6] |
| <b>Gender</b>                         |         |             |
| Male (n=1,681)                        | 48.4    | [46.5,50.4] |
| Female (n=2,409)                      | 51.6    | [49.6,53.5] |
| <b>Race</b>                           |         |             |
| White (n=2,784)                       | 61.2    | [59.3,63.0] |
| Black or African American (n=807)     | 26.1    | [24.3,27.9] |
| Other (n=306)                         | 8.8     | [7.7,10.0]  |
| More than one (n=142)                 | 4.0     | [3.3,4.9]   |
| <b>Hispanic/Latino</b>                |         |             |
| Yes (n=188)                           | 5.2     | [4.4,6.2]   |
| No (n=3,856)                          | 94.3    | [93.3,95.2] |
| Don't know (n=12)                     | 0.5     | [0.2,0.9]   |
| <b>Arab, Chaldean, Middle Eastern</b> |         |             |
| Yes (n=204)                           | 6.2     | [5.3,7.2]   |
| No (n=3,842)                          | 93.6    | [92.5,94.5] |
| Don't know (n=9)                      | 0.3     | [0.1,0.6]   |
| <b>Urbanicity</b>                     |         |             |
| Urban (n=2,892)                       | 81.0    | [80.0,82.0] |
| Suburban (n=400)                      | 8.8     | [7.9,9.7]   |
| Rural (n=798)                         | 10.2    | [9.7,10.7]  |
| <b>Medicaid Health Plan</b>           |         |             |
| Aetna (n=58)                          | 1.7     | [1.2,2.3]   |
| Blue Cross (n=356)                    | 11.6    | [10.2,13.1] |
| Harbor (n=18)                         | 0.7     | [0.4,1.3]   |
| McLaren (n=633)                       | 13.0    | [11.9,14.2] |
| Meridian (n=1,265)                    | 29.8    | [28.1,31.6] |
| Midwest (n=3)                         | 0.1     | [0.0,0.2]   |
| Molina (n=701)                        | 18.0    | [16.5,19.5] |
| Priority (n=268)                      | 5.9     | [5.2,6.7]   |
| Total Health Care (n=85)              | 2.8     | [2.2,3.7]   |
| United (n=443)                        | 13.2    | [11.8,14.7] |
| Upper Peninsula Health Plan (n=258)   | 3.2     | [2.8,3.6]   |
| <b>Employment status</b>              |         |             |
| Employed or self-employed (n=2,079)   | 48.8    | [47.0,50.7] |
| Out of work ≥1 year (n=707)           | 19.7    | [18.1,21.3] |
| Out of work <1 year (n=258)           | 7.9     | [6.8,9.1]   |
| Homemaker (n=217)                     | 4.5     | [3.8,5.3]   |
| Student (n=161)                       | 5.2     | [4.3,6.2]   |
| Retired (n=167)                       | 2.5     | [2.1,3.0]   |
| Unable to work (n=479)                | 11.3    | [10.1,12.5] |
| Don't know (n=7)                      | 0.2     | [0.1,0.4]   |
| <b>Veteran</b>                        |         |             |
| Yes (n=125)                           | 3.4     | [2.7,4.2]   |
| No (n=3,958)                          | 96.5    | [95.7,97.2] |
| Don't know (n=3)                      | 0.1     | [0.0,0.5]   |

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Continued from previous page

|   |      |             |
|---|------|-------------|
| <b>Marital status</b>                                 |      |             |
| Married (n=1,008)                                     | 20.4 | [19.0,21.8] |
| Partnered (n=185)                                     | 4.3  | [3.6,5.1]   |
| Divorced (n=865)                                      | 18.2 | [16.8,19.6] |
| Widowed (n=147)                                       | 2.8  | [2.3,3.4]   |
| Separated (n=119)                                     | 2.8  | [2.3,3.4]   |
| Never Married (n=1,745)                               | 51.6 | [49.6,53.5] |
| Don't know (n=4)                                      | 0.1  | [0.0,0.2]   |
| <b>Any chronic health condition present</b>           |      |             |
| Yes (n=2,986)   | 69.2 | [67.3,71.0] |
| No (n=1,104)  | 30.8 | [29.0,32.7] |
| <b>At least one physical health condition present</b> |      |             |
| Yes (n=2,689)   | 60.8 | [58.8,62.8] |
| No (n=1,401)  | 39.2 | [37.2,41.2] |
| <b>At least one mental health condition present</b>   |      |             |
| Yes (n=1,351)   | 32.1 | [30.3,33.9] |
| No (n=2,739)  | 67.9 | [66.1,69.7] |
| <b>Other household HMP enrollee</b>                   |      |             |
| Yes (n=1,592)   | 35.7 | [34.0,37.5] |
| No (n=2,289)  | 58.0 | [56.1,59.8] |
| Don't know (n=201)                                    | 6.3  | [5.3,7.6]   |
| <b>Help reading written materials</b>                 |      |             |
| Never (n=3,031)                                       | 72.6 | [70.8,74.3] |
| Rarely (n=413)  | 10.6 | [9.5,12.0]  |
| Sometimes (n=390)                                     | 10.6 | [9.4,11.9]  |
| Often (n=94)  | 2.4  | [1.8,3.1]   |
| Always (n=157)  | 3.7  | [3.1,4.5]   |
| Don't know (n=3)                                      | 0.0  | [0.0,0.1]   |
| <b>Low healthcare utilizers</b>                       |      |             |
| Yes (n=491)   | 15.2 | [13.7,16.9] |
| No (n=3,599)  | 84.8 | [83.1,86.3] |
| <b>High ER utilizers</b>                              |      |             |
| Yes (n=156)   | 4.4  | [3.6,5.4]   |
| No (n=3,934)  | 95.6 | [94.6,96.4] |
| <b>Chronic disease (HEDIS)</b>                        |      |             |
| Chronic disease (HEDIS) (n=1,161)                     | 25.1 | [23.5,26.8] |
| No chronic disease (n=2,929)                          | 74.9 | [73.2,76.5] |
| <b>Mental health/substance use disorder (HEDIS)</b>   |      |             |
| MH/SA (HEDIS) (n=2,034)                               | 48.3 | [46.4,50.3] |
| No MH/SA (n=2,056)                                    | 51.7 | [49.7,53.6] |
| <b>Any insurance pre-HMP</b>                          |      |             |
| Yes (n=1,667)   | 40.7 | [38.8,42.6] |
| No (n=2,374)  | 57.9 | [55.9,59.8] |
| Don't know (n=46)                                     | 1.4  | [1.0,2.1]   |
| <b>Insurance duration pre-HMP</b>                     |      |             |
| All 12 months (n=1,235)                               | 73.8 | [71.1,76.5] |
| 6-11 months (n=245)                                   | 15.2 | [13.0,17.6] |
| Less than 6 months (n=129)                            | 7.6  | [6.2,9.3]   |
| Don't know (n=58)                                     | 3.4  | [2.5,4.7]   |
| <b>Insurance: Private, job</b>                        |      |             |
| Yes (n=409)   | 26.2 | [23.6,29.0] |
| No (n=1,213)  | 73.8 | [71.0,76.4] |
| <b>Insurance: Private, self</b>                       |      |             |
| Yes (n=157)   | 10.2 | [8.3,12.6]  |
| No (n=1,465)  | 89.8 | [87.4,91.7] |
| <b>Healthcare.gov insurance</b>                       |      |             |
| Yes (n=59)  | 31.5 | [22.6,41.9] |
| No (n=75)   | 55.4 | [44.1,66.2] |
| Don't know (n=18)                                     | 13.1 | [7.6,21.7]  |
| <b>Insurance subsidy</b>                              |      |             |
| Yes (n=37)  | 61.8 | [43.9,76.9] |
| No (n=18)   | 29.0 | [18.1,43.1] |
| Don't know (n=4)                                      | 9.3  | [2.2,31.3]  |

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|  |       |              |
|--|-------|--------------|
| <b>Insurance: Medicaid</b>                         |       |              |
| Yes (n=834)  | 50.8  | [47.7,53.9]  |
| No (n=788)   | 49.2  | [46.1,52.3]  |
| <b>Insurance: VA</b>                               |       |              |
| Yes (n=21)   | 1.4   | [0.8,2.3]    |
| No (n=1,601)                                       | 98.6  | [97.7,99.2]  |
| <b>Insurance: Indian Health Service</b>            |       |              |
| Yes (n=3)  | 0.1   | [0.0,0.3]    |
| No (n=1,619)                                       | 99.9  | [99.7,100.0] |
| <b>Insurance: CHAMPUS, TRICARE, other military</b> |       |              |
| Yes (n=3)  | 0.3   | [0.1,1.2]    |
| No (n=1,619)                                       | 99.7  | [98.8,99.9]  |
| <b>Insurance: Medicare</b>                         |       |              |
| Yes (n=5)  | 0.3   | [0.1,0.7]    |
| No (n=1,617)                                       | 99.7  | [99.3,99.9]  |
| <b>Insurance: County health plan</b>               |       |              |
| Yes (n=127)  | 6.3   | [5.2,7.7]    |
| No (n=1,495)                                       | 93.7  | [92.3,94.8]  |
| <b>Insurance: Other, record info</b>               |       |              |
| Yes (n=83)   | 5.6   | [4.3,7.3]    |
| No (n=1,539)                                       | 94.4  | [92.7,95.7]  |
| <b>Unspecified on someone else's insurance</b>     |       |              |
| Yes (n=21)   | 0.8   | [0.5,1.4]    |
| No (n=4,069)                                       | 99.2  | [98.6,99.5]  |
| <b>Insurance: Don't know</b>                       |       |              |
| Yes (n=23)   | 1.2   | [0.8,1.9]    |
| No (n=1,599)                                       | 98.8  | [98.1,99.2]  |
| <b>Insurance: Refused</b>                          |       |              |
| No (n=1,622)                                       | 100.0 |              |

## 2.2 Demographics Table by FPL Group

Universe: All respondents

|                                       | FPL category |             |              |             |              |             | Total        |             |
|---------------------------------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|                                       | 0-35%        |             | 36-99%       |             | ≥ 100%       |             | Percent      | 95%CI       |
|                                       | Percent      | 95%CI       | Percent      | 95%CI       | Percent      | 95%CI       | Percent      | 95%CI       |
| <b>Region</b>                         |              |             |              |             |              |             |              |             |
| UP/NW/NE (n=746)                      | 6.7          | [6.2,7.2]   | 10.9         | [10.1,11.7] | 12.3         | [11.5,13.2] | 9.0          | [8.6,9.4]   |
| W/E Central/E (n=1,265)               | 26.2         | [25.1,27.5] | 30.5         | [29.1,31.9] | 32.1         | [30.4,33.8] | 28.6         | [27.8,29.4] |
| S Central/SW/SE (n=837)               | 17.4         | [16.2,18.7] | 19.2         | [18.2,20.3] | 20.6         | [19.2,22.1] | 18.6         | [17.8,19.3] |
| Detroit Metro (n=1,242)               | 49.6         | [48.1,51.2] | 39.4         | [37.6,41.2] | 35.0         | [33.3,36.7] | 43.8         | [42.8,44.9] |
| <b>Total (n=4,090)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =        | 75.7905      |             |              |             |              |             |              |             |
| Design-based F(5.20, 21206.80) =      | 44.4582      | Pr =        | 0.000        |             |              |             |              |             |
| <b>Age</b>                            |              |             |              |             |              |             |              |             |
| 19-34 (n=1,303)                       | 38.1         | [35.0,41.3] | 40.5         | [37.4,43.7] | 44.0         | [40.4,47.6] | 40.0         | [38.0,42.0] |
| 35-50 (n=1,301)                       | 36.1         | [33.1,39.1] | 33.6         | [30.7,36.6] | 29.2         | [26.1,32.5] | 34.0         | [32.1,35.9] |
| 51-64 (n=1,486)                       | 25.9         | [23.5,28.3] | 25.9         | [23.5,28.5] | 26.8         | [24.1,29.7] | 26.0         | [24.5,27.6] |
| <b>Total (n=4,090)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(4) =        | 13.6545      |             |              |             |              |             |              |             |
| Design-based F(3.75, 15297.36) =      | 2.6541       | Pr =        | 0.035        |             |              |             |              |             |
| <b>Gender</b>                         |              |             |              |             |              |             |              |             |
| Male (n=1,681)                        | 57.2         | [54.1,60.2] | 39.1         | [36.0,42.3] | 39.0         | [35.5,42.6] | 48.4         | [46.5,50.4] |
| Female (n=2,409)                      | 42.8         | [39.8,45.9] | 60.9         | [57.7,64.0] | 61.0         | [57.4,64.5] | 51.6         | [49.6,53.5] |
| <b>Total (n=4,090)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 134.2435     |             |              |             |              |             |              |             |
| Design-based F(1.95, 7952.45) =       | 47.7773      | Pr =        | 0.000        |             |              |             |              |             |
| <b>Race</b>                           |              |             |              |             |              |             |              |             |
| White (n=2,784)                       | 56.1         | [53.0,59.1] | 65.0         | [61.9,67.9] | 69.1         | [65.8,72.1] | 61.2         | [59.3,63.0] |
| Black or African American (n=807)     | 32.8         | [29.9,35.8] | 18.6         | [16.1,21.3] | 19.3         | [16.7,22.1] | 26.1         | [24.3,27.9] |
| Other (n=306)                         | 6.7          | [5.3,8.6]   | 12.5         | [10.4,14.8] | 8.7          | [6.9,11.0]  | 8.8          | [7.7,10.0]  |
| More than one (n=142)                 | 4.4          | [3.3,5.9]   | 4.0          | [2.9,5.5]   | 2.9          | [1.8,4.6]   | 4.0          | [3.3,4.9]   |
| <b>Total (n=4,039)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =        | 125.5586     |             |              |             |              |             |              |             |
| Design-based F(5.76, 23214.06) =      | 14.5818      | Pr =        | 0.000        |             |              |             |              |             |
| <b>Hispanic/Latino</b>                |              |             |              |             |              |             |              |             |
| Yes (n=188)                           | 4.3          | [3.1,5.8]   | 6.2          | [4.8,8.0]   | 6.4          | [4.7,8.6]   | 5.2          | [4.4,6.2]   |
| No (n=3,856)                          | 95.0         | [93.4,96.2] | 93.6         | [91.8,95.0] | 93.5         | [91.3,95.2] | 94.3         | [93.3,95.2] |
| Don't know (n=12)                     | 0.8          | [0.4,1.6]   | 0.2          | [0.0,0.8]   | 0.1          | [0.0,0.5]   | 0.5          | [0.2,0.9]   |
| <b>Total (n=4,056)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(4) =        | 16.5754      |             |              |             |              |             |              |             |
| Design-based F(3.59, 14514.79) =      | 3.2861       | Pr =        | 0.014        |             |              |             |              |             |
| <b>Arab, Chaldean, Middle Eastern</b> |              |             |              |             |              |             |              |             |
| Yes (n=204)                           | 3.9          | [2.8,5.6]   | 10.5         | [8.6,12.7]  | 5.7          | [4.3,7.6]   | 6.2          | [5.3,7.2]   |
| No (n=3,842)                          | 95.8         | [94.1,97.0] | 89.4         | [87.2,91.3] | 93.8         | [91.8,95.3] | 93.6         | [92.5,94.5] |
| Don't know (n=9)                      | 0.3          | [0.1,0.9]   | 0.1          | [0.0,0.6]   | 0.5          | [0.2,1.5]   | 0.3          | [0.1,0.6]   |
| <b>Total (n=4,055)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(4) =        | 58.6148      |             |              |             |              |             |              |             |
| Design-based F(3.62, 14646.90) =      | 9.9643       | Pr =        | 0.000        |             |              |             |              |             |
| <b>Urbanicity</b>                     |              |             |              |             |              |             |              |             |
| Urban (n=2,892)                       | 83.7         | [82.2,85.1] | 78.5         | [76.6,80.3] | 77.6         | [75.4,79.7] | 81.0         | [80.0,82.0] |
| Suburban (n=400)                      | 8.4          | [7.2,9.8]   | 9.1          | [7.7,10.8]  | 9.2          | [7.5,11.4]  | 8.8          | [7.9,9.7]   |
| Rural (n=798)                         | 7.9          | [7.2,8.6]   | 12.3         | [11.3,13.4] | 13.1         | [12.2,14.2] | 10.2         | [9.7,10.7]  |
| <b>Total (n=4,090)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(4) =        | 28.1704      |             |              |             |              |             |              |             |
| Design-based F(3.03, 12357.21) =      | 10.9469      | Pr =        | 0.000        |             |              |             |              |             |

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|   |          |             |       |             |       |             |       |             |  |
|---|----------|-------------|-------|-------------|-------|-------------|-------|-------------|--|
| <b>Medicaid Health Plan</b>                           |          |             |       |             |       |             |       |             |  |
| Aetna (n=58)  | 2.1      | [1,4,3.2]   | 1.3   | [0.6,2.8]   | 1.0   | [0.6,1.9]   | 1.7   | [1.2,2.3]   |  |
| Blue Cross (n=356)                                    | 13.3     | [11.2,15.8] | 9.3   | [7.4,11.7]  | 10.2  | [8.2,12.7]  | 11.6  | [10.2,13.1] |  |
| Harbor (n=18)   | 1.3      | [0.7,2.4]   | 0.1   | [0.0,0.5]   | 0.3   | [0.1,0.8]   | 0.7   | [0.4,1.3]   |  |
| McLaren (n=633)                                       | 11.8     | [10.2,13.6] | 13.7  | [11.8,15.9] | 15.4  | [13.2,17.9] | 13.0  | [11.9,14.2] |  |
| Meridian (n=1,265)                                    | 30.2     | [27.5,33.1] | 30.7  | [28.0,33.5] | 27.4  | [24.5,30.6] | 29.8  | [28.1,31.6] |  |
| Midwest (n=3)   | 0.0      |             | 0.1   | [0.0,0.6]   | 0.2   | [0.0,0.7]   | 0.1   | [0.0,0.2]   |  |
| Molina (n=701)  | 17.3     | [15.1,19.8] | 19.0  | [16.6,21.6] | 18.2  | [15.6,21.0] | 18.0  | [16.5,19.5] |  |
| Priority (n=268)                                      | 5.9      | [4.9,7.0]   | 5.0   | [4.0,6.3]   | 7.4   | [5.6,9.6]   | 5.9   | [5.2,6.7]   |  |
| Total Health Care (n=85)                              | 3.2      | [2.2,4.6]   | 2.1   | [1.3,3.5]   | 3.0   | [2.0,4.5]   | 2.8   | [2.2,3.7]   |  |
| United (n=443)  | 12.5     | [10.4,14.9] | 14.7  | [12.6,17.1] | 13.0  | [10.7,15.6] | 13.2  | [11.8,14.7] |  |
| Upper Peninsula Health Plan (n=258)                   | 2.5      | [2.0,2.9]   | 4.0   | [3.2,4.8]   | 4.0   | [3.1,5.1]   | 3.2   | [2.8,3.6]   |  |
| <b>Total</b> (n=4,088)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(20) =                       | 64.3903  |             |       |             |       |             |       |             |  |
| Design-based F(17.20, 70087.97) =                     | 2.7025   | Pr =        | 0.000 |             |       |             |       |             |  |
| <b>Employment status</b>                              |          |             |       |             |       |             |       |             |  |
| Employed or self-employed (n=2,079)                   | 31.9     | [28.9,35.0] | 65.4  | [62.4,68.3] | 69.4  | [66.0,72.6] | 48.8  | [47.0,50.7] |  |
| Out of work >=1 year (n=707)                          | 31.1     | [28.3,34.0] | 9.6   | [7.8,11.8]  | 4.2   | [3.1,5.8]   | 19.7  | [18.1,21.3] |  |
| Out of work <1 year (n=258)                           | 11.0     | [9.1,13.2]  | 4.9   | [3.8,6.2]   | 4.0   | [2.8,5.6]   | 7.9   | [6.8,9.1]   |  |
| Homemaker (n=217)                                     | 2.4      | [1.6,3.6]   | 7.4   | [6.0,9.1]   | 5.9   | [4.5,7.8]   | 4.5   | [3.8,5.3]   |  |
| Student (n=161)                                       | 5.8      | [4.4,7.5]   | 3.9   | [2.8,5.4]   | 5.4   | [3.7,8.0]   | 5.2   | [4.3,6.2]   |  |
| Retired (n=167)                                       | 1.6      | [1.0,2.4]   | 3.1   | [2.3,4.3]   | 4.1   | [3.1,5.4]   | 2.5   | [2.1,3.0]   |  |
| Unable to work (n=479)                                | 16.1     | [14.1,18.3] | 5.5   | [4.3,7.1]   | 6.9   | [5.4,8.8]   | 11.3  | [10.1,12.5] |  |
| Don't know (n=7)                                      | 0.2      | [0.1,0.7]   | 0.1   | [0.0,0.5]   | 0.0   |             | 0.2   | [0.1,0.4]   |  |
| <b>Total</b> (n=4,075)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(14) =                       | 773.5738 |             |       |             |       |             |       |             |  |
| Design-based F(12.86, 52234.24) =                     | 43.7255  | Pr =        | 0.000 |             |       |             |       |             |  |
| <b>Veteran</b>  |          |             |       |             |       |             |       |             |  |
| Yes (n=125)   | 4.2      | [3.2,5.5]   | 2.8   | [1.8,4.2]   | 2.2   | [1.4,3.4]   | 3.4   | [2.7,4.2]   |  |
| No (n=3,958)  | 95.8     | [94.5,96.8] | 96.9  | [95.3,98.0] | 97.6  | [96.3,98.5] | 96.5  | [95.7,97.2] |  |
| Don't know (n=3)                                      | 0.0      |             | 0.3   | [0.1,1.9]   | 0.2   | [0.0,1.1]   | 0.1   | [0.0,0.5]   |  |
| <b>Total</b> (n=4,086)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(4) =                        | 15.6606  |             |       |             |       |             |       |             |  |
| Design-based F(3.34, 13616.25) =                      | 2.2381   | Pr =        | 0.074 |             |       |             |       |             |  |
| <b>Marital status</b>                                 |          |             |       |             |       |             |       |             |  |
| Married (n=1,008)                                     | 9.0      | [7.4,10.8]  | 31.0  | [28.2,33.9] | 34.9  | [31.7,38.3] | 20.4  | [19.0,21.8] |  |
| Partnered (n=185)                                     | 4.8      | [3.8,6.2]   | 3.6   | [2.7,4.7]   | 3.8   | [2.7,5.4]   | 4.3   | [3.6,5.1]   |  |
| Divorced (n=865)                                      | 20.4     | [18.2,22.9] | 14.9  | [13.1,17.0] | 16.9  | [14.5,19.5] | 18.2  | [16.8,19.6] |  |
| Widowed (n=147)                                       | 2.5      | [1.8,3.4]   | 3.3   | [2.3,4.8]   | 2.6   | [1.8,3.8]   | 2.8   | [2.3,3.4]   |  |
| Separated (n=119)                                     | 3.2      | [2.4,4.3]   | 3.3   | [2.3,4.6]   | 0.8   | [0.5,1.5]   | 2.8   | [2.3,3.4]   |  |
| Never Married (n=1,745)                               | 59.9     | [56.9,62.8] | 43.9  | [40.7,47.0] | 40.8  | [37.3,44.5] | 51.6  | [49.6,53.5] |  |
| Don't know (n=4)                                      | 0.1      | [0.0,0.4]   | 0.0   |             | 0.1   | [0.0,0.9]   | 0.1   | [0.0,0.2]   |  |
| <b>Total</b> (n=4,073)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(12) =                       | 375.6639 |             |       |             |       |             |       |             |  |
| Design-based F(11.24, 45656.10) =                     | 27.6587  | Pr =        | 0.000 |             |       |             |       |             |  |
| <b>Any chronic health condition present</b>           |          |             |       |             |       |             |       |             |  |
| Yes (n=2,986)   | 72.9     | [69.8,75.7] | 66.2  | [63.1,69.1] | 63.9  | [60.4,67.2] | 69.2  | [67.3,71.0] |  |
| No (n=1,104)  | 27.1     | [24.3,30.2] | 33.8  | [30.9,36.9] | 36.1  | [32.8,39.6] | 30.8  | [29.0,32.7] |  |
| <b>Total</b> (n=4,090)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(2) =                        | 29.0557  |             |       |             |       |             |       |             |  |
| Design-based F(1.89, 7724.75) =                       | 9.7567   | Pr =        | 0.000 |             |       |             |       |             |  |
| <b>At least one physical health condition present</b> |          |             |       |             |       |             |       |             |  |
| Yes (n=2,689)   | 63.3     | [60.1,66.4] | 59.3  | [56.1,62.3] | 56.5  | [52.9,60.0] | 60.8  | [58.8,62.8] |  |
| No (n=1,401)  | 36.7     | [33.6,39.9] | 40.7  | [37.7,43.9] | 43.5  | [40.0,47.1] | 39.2  | [37.2,41.2] |  |
| <b>Total</b> (n=4,090)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(2) =                        | 12.7886  |             |       |             |       |             |       |             |  |
| Design-based F(1.91, 7793.58) =                       | 4.4372   | Pr =        | 0.013 |             |       |             |       |             |  |
| <b>At least one mental health condition present</b>   |          |             |       |             |       |             |       |             |  |
| Yes (n=1,351)   | 37.9     | [35.0,40.9] | 26.8  | [24.3,29.6] | 24.6  | [21.7,27.8] | 32.1  | [30.3,33.9] |  |
| No (n=2,739)  | 62.1     | [59.1,65.0] | 73.2  | [70.4,75.7] | 75.4  | [72.2,78.3] | 67.9  | [66.1,69.7] |  |
| <b>Total</b> (n=4,090)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(2) =                        | 67.9240  |             |       |             |       |             |       |             |  |
| Design-based F(1.94, 7929.70) =                       | 26.7494  | Pr =        | 0.000 |             |       |             |       |             |  |
| <b>Other household HMP enrollee</b>                   |          |             |       |             |       |             |       |             |  |
| Yes (n=1,592)   | 23.3     | [20.9,26.0] | 50.1  | [47.0,53.3] | 47.3  | [43.7,50.8] | 35.7  | [34.0,37.5] |  |
| No (n=2,289)  | 68.5     | [65.5,71.4] | 45.4  | [42.3,48.5] | 48.4  | [44.9,52.0] | 58.0  | [56.1,59.8] |  |
| Don't know (n=201)                                    | 8.2      | [6.4,10.4]  | 4.5   | [3.4,5.8]   | 4.3   | [3.0,6.1]   | 6.3   | [5.3,7.6]   |  |
| <b>Total</b> (n=4,082)                                | 100.0    |             | 100.0 |             | 100.0 |             | 100.0 |             |  |
| Pearson: Uncorrected chi2(4) =                        | 296.6719 |             |       |             |       |             |       |             |  |
| Design-based F(3.85, 15650.87) =                      | 53.8697  | Pr =        | 0.000 |             |       |             |       |             |  |

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|   |              |             |              |             |              |             |              |             |
|---|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Help reading written materials</b>               |              |             |              |             |              |             |              |             |
| Never (n=3,031)                                     | 68.5         | [65.5,71.3] | 76.9         | [74.2,79.4] | 77.2         | [74.0,80.1] | 72.6         | [70.8,74.3] |
| Rarely (n=413)                                      | 11.9         | [10.0,14.1] | 8.8          | [7.3,10.6]  | 10.0         | [8.0,12.3]  | 10.6         | [9.5,12.0]  |
| Sometimes (n=390)                                   | 12.0         | [10.1,14.2] | 9.4          | [7.7,11.6]  | 8.7          | [6.8,11.0]  | 10.6         | [9.4,11.9]  |
| Often (n=94)  | 2.9          | [2.1,4.0]   | 1.9          | [1.3,2.9]   | 1.7          | [0.8,3.6]   | 2.4          | [1.8,3.1]   |
| Always (n=157)                                      | 4.7          | [3.6,6.1]   | 2.9          | [2.0,4.0]   | 2.5          | [1.7,3.6]   | 3.7          | [3.1,4.5]   |
| Don't know (n=3)                                    | 0.0          | [0.0,0.2]   | 0.0          | [0.0,0.2]   | 0.1          | [0.0,0.4]   | 0.0          | [0.0,0.1]   |
| <b>Total (n=4,088)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(10) =                     | 41.7857      |             |              |             |              |             |              |             |
| Design-based F(8.63, 35162.05) =                    | 3.5453       | Pr =        | 0.000        |             |              |             |              |             |
| <b>Low healthcare utilizers</b>                     |              |             |              |             |              |             |              |             |
| Yes (n=491)   | 17.3         | [14.8,20.1] | 13.0         | [10.9,15.4] | 13.1         | [10.7,15.9] | 15.2         | [13.7,16.9] |
| No (n=3,599)  | 82.7         | [79.9,85.2] | 87.0         | [84.6,89.1] | 86.9         | [84.1,89.3] | 84.8         | [83.1,86.3] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 14.6763      |             |              |             |              |             |              |             |
| Design-based F(1.93, 7851.49) =                     | 4.6708       | Pr =        | 0.010        |             |              |             |              |             |
| <b>High ER utilizers</b>                            |              |             |              |             |              |             |              |             |
| Yes (n=156)   | 5.5          | [4.2,7.1]   | 3.7          | [2.7,5.1]   | 2.8          | [1.8,4.3]   | 4.4          | [3.6,5.4]   |
| No (n=3,934)  | 94.5         | [92.9,95.8] | 96.3         | [94.9,97.3] | 97.2         | [95.7,98.2] | 95.6         | [94.6,96.4] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 12.1465      |             |              |             |              |             |              |             |
| Design-based F(1.95, 7964.05) =                     | 4.3746       | Pr =        | 0.013        |             |              |             |              |             |
| <b>Chronic disease (HEDIS)</b>                      |              |             |              |             |              |             |              |             |
| Chronic disease (HEDIS) (n=1,161)                   | 27.3         | [24.8,29.9] | 22.9         | [20.5,25.4] | 22.8         | [20.0,25.8] | 25.1         | [23.5,26.8] |
| No chronic disease (n=2,929)                        | 72.7         | [70.1,75.2] | 77.1         | [74.6,79.5] | 77.2         | [74.2,80.0] | 74.9         | [73.2,76.5] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 10.6441      |             |              |             |              |             |              |             |
| Design-based F(1.95, 7972.30) =                     | 4.3624       | Pr =        | 0.013        |             |              |             |              |             |
| <b>Mental health/substance use disorder (HEDIS)</b> |              |             |              |             |              |             |              |             |
| MH/SA (HEDIS) (n=2,034)                             | 53.5         | [50.4,56.6] | 43.4         | [40.3,46.5] | 41.8         | [38.3,45.3] | 48.3         | [46.4,50.3] |
| No MH/SA (n=2,056)                                  | 46.5         | [43.4,49.6] | 56.6         | [53.5,59.7] | 58.2         | [54.7,61.7] | 51.7         | [49.7,53.6] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 48.3845      |             |              |             |              |             |              |             |
| Design-based F(1.93, 7851.38) =                     | 17.9177      | Pr =        | 0.000        |             |              |             |              |             |
| <b>Any insurance pre-HMP</b>                        |              |             |              |             |              |             |              |             |
| Yes (n=1,667)                                       | 35.4         | [32.5,38.4] | 44.8         | [41.7,48.0] | 48.6         | [45.0,52.1] | 40.7         | [38.8,42.6] |
| No (n=2,374)  | 62.6         | [59.6,65.6] | 54.1         | [50.9,57.2] | 50.9         | [47.3,54.4] | 57.9         | [55.9,59.8] |
| Don't know (n=46)                                   | 2.0          | [1.2,3.2]   | 1.1          | [0.6,1.9]   | 0.6          | [0.2,1.3]   | 1.4          | [1.0,2.1]   |
| <b>Total (n=4,087)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(4) =                      | 58.9990      |             |              |             |              |             |              |             |
| Design-based F(3.77, 15363.38) =                    | 11.5036      | Pr =        | 0.000        |             |              |             |              |             |
| <b>Insurance duration pre-HMP</b>                   |              |             |              |             |              |             |              |             |
| All 12 months (n=1,235)                             | 71.4         | [66.5,75.9] | 78.0         | [73.8,81.6] | 73.0         | [68.0,77.5] | 73.8         | [71.1,76.5] |
| 6-11 months (n=245)                                 | 16.6         | [13.0,21.0] | 12.1         | [9.3,15.5]  | 16.5         | [12.9,20.9] | 15.2         | [13.0,17.6] |
| Less than 6 months (n=129)                          | 6.9          | [4.8,9.9]   | 8.7          | [6.4,11.8]  | 7.4          | [5.1,10.6]  | 7.6          | [6.2,9.3]   |
| Don't know (n=58)                                   | 5.1          | [3.3,7.8]   | 1.2          | [0.7,2.3]   | 3.1          | [1.8,5.2]   | 3.4          | [2.5,4.7]   |
| <b>Total (n=1,667)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =                      | 21.3820      |             |              |             |              |             |              |             |
| Design-based F(5.60, 9274.64) =                     | 2.7827       | Pr =        | 0.012        |             |              |             |              |             |
| <b>Insurance: Private, job</b>                      |              |             |              |             |              |             |              |             |
| Yes (n=409)   | 27.4         | [23.0,32.2] | 23.5         | [19.5,28.0] | 27.8         | [23.2,32.9] | 26.2         | [23.6,29.0] |
| No (n=1,213)  | 72.6         | [67.8,77.0] | 76.5         | [72.0,80.5] | 72.2         | [67.1,76.8] | 73.8         | [71.0,76.4] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 2.9477       |             |              |             |              |             |              |             |
| Design-based F(1.95, 3145.86) =                     | 1.0047       | Pr =        | 0.365        |             |              |             |              |             |
| <b>Insurance: Private, self</b>                     |              |             |              |             |              |             |              |             |
| Yes (n=157)   | 9.8          | [6.7,14.2]  | 11.1         | [7.9,15.4]  | 9.8          | [7.1,13.4]  | 10.2         | [8.3,12.6]  |
| No (n=1,465)  | 90.2         | [85.8,93.3] | 88.9         | [84.6,92.1] | 90.2         | [86.6,92.9] | 89.8         | [87.4,91.7] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 0.6344       |             |              |             |              |             |              |             |
| Design-based F(1.86, 3000.01) =                     | 0.1699       | Pr =        | 0.829        |             |              |             |              |             |
| <b>Healthcare.gov insurance</b>                     |              |             |              |             |              |             |              |             |
| Yes (n=59)  | 24.5         | [11.6,44.4] | 33.7         | [20.2,50.5] | 41.3         | [26.2,58.2] | 31.5         | [22.6,41.9] |
| No (n=75)   | 68.6         | [48.4,83.5] | 51.8         | [33.8,69.3] | 35.8         | [21.0,54.0] | 55.4         | [44.1,66.2] |
| Don't know (n=18)                                   | 7.0          | [2.6,17.3]  | 14.5         | [5.7,32.3]  | 22.9         | [9.5,45.7]  | 13.1         | [7.6,21.7]  |
| <b>Total (n=152)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(4) =                      | 11.0040      |             |              |             |              |             |              |             |
| Design-based F(3.69, 517.14) =                      | 1.7541       | Pr =        | 0.142        |             |              |             |              |             |

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|  |              |              |              |              |              |              |              |             |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| <b>Insurance subsidy</b>                           |              |              |              |              |              |              |              |             |
| Yes (n=37)   | 59.9         | [21.7,88.9]  | 63.5         | [39.9,82.0]  | 61.6         | [39.1,80.1]  | 61.8         | [43.9,76.9] |
| No (n=18)  | 21.9         | [7.3,50.0]   | 31.0         | [14.0,55.3]  | 34.4         | [16.6,58.0]  | 29.0         | [18.1,43.1] |
| Don't know (n=4)                                   | 18.2         | [2.0,70.4]   | 5.5          | [1.1,22.8]   | 4.0          | [0.5,25.6]   | 9.3          | [2.2,31.3]  |
| <b>Total (n=59)</b>                                | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(4) =                     | 3.1037       |              |              |              |              |              |              |             |
| Design-based F(3.34, 160.17) =                     | 0.5913       | Pr =         | 0.639        |              |              |              |              |             |
| <b>Insurance: Medicaid</b>                         |              |              |              |              |              |              |              |             |
| Yes (n=834)  | 48.9         | [43.6,54.2]  | 53.9         | [49.0,58.7]  | 50.0         | [44.6,55.4]  | 50.8         | [47.7,53.9] |
| No (n=788)   | 51.1         | [45.8,56.4]  | 46.1         | [41.3,51.0]  | 50.0         | [44.6,55.4]  | 49.2         | [46.1,52.3] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 3.1235       |              |              |              |              |              |              |             |
| Design-based F(1.94, 3123.80) =                    | 1.0602       | Pr =         | 0.345        |              |              |              |              |             |
| <b>Insurance: VA</b>                               |              |              |              |              |              |              |              |             |
| Yes (n=21)   | 1.8          | [0.9,3.6]    | 1.5          | [0.6,3.6]    | 0.4          | [0.1,1.2]    | 1.4          | [0.8,2.3]   |
| No (n=1,601)                                       | 98.2         | [96.4,99.1]  | 98.5         | [96.4,99.4]  | 99.6         | [98.8,99.9]  | 98.6         | [97.7,99.2] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 3.6449       |              |              |              |              |              |              |             |
| Design-based F(1.64, 2633.05) =                    | 1.6246       | Pr =         | 0.202        |              |              |              |              |             |
| <b>Insurance: Indian Health Service</b>            |              |              |              |              |              |              |              |             |
| Yes (n=3)  | 0.1          | [0.0,0.6]    | 0.1          | [0.0,0.5]    | 0.0          | 0.1          | [0.0,0.3]    |             |
| No (n=1,619)                                       | 99.9         | [99.4,100.0] | 99.9         | [99.5,100.0] | 100.0        | 99.9         | [99.7,100.0] |             |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> | <b>100.0</b> |              |             |
| Pearson: Uncorrected chi2(2) =                     | 0.5776       |              |              |              |              |              |              |             |
| Design-based F(1.96, 3152.83) =                    | 0.6538       | Pr =         | 0.517        |              |              |              |              |             |
| <b>Insurance: CHAMPUS, TRICARE, other military</b> |              |              |              |              |              |              |              |             |
| Yes (n=3)  | 0.4          | [0.1,3.1]    | 0.1          | [0.0,0.9]    | 0.4          | [0.1,2.6]    | 0.3          | [0.1,1.2]   |
| No (n=1,619)                                       | 99.6         | [96.9,99.9]  | 99.9         | [99.1,100.0] | 99.6         | [97.4,99.9]  | 99.7         | [98.8,99.9] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 0.9382       |              |              |              |              |              |              |             |
| Design-based F(1.71, 2747.37) =                    | 0.3221       | Pr =         | 0.690        |              |              |              |              |             |
| <b>Insurance: Medicare</b>                         |              |              |              |              |              |              |              |             |
| Yes (n=5)  | 0.0          | 0.6          | [0.2,1.8]    | 0.4          | [0.1,1.8]    | 0.3          | [0.1,0.7]    |             |
| No (n=1,617)                                       | 100.0        | 99.4         | [98.2,99.8]  | 99.6         | [98.2,99.9]  | 99.7         | [99.3,99.9]  |             |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |             |
| Pearson: Uncorrected chi2(2) =                     | 3.8738       |              |              |              |              |              |              |             |
| Design-based F(1.98, 3184.92) =                    | 2.0039       | Pr =         | 0.136        |              |              |              |              |             |
| <b>Insurance: County health plan</b>               |              |              |              |              |              |              |              |             |
| Yes (n=127)  | 6.6          | [4.7,9.1]    | 5.6          | [4.0,7.6]    | 6.9          | [4.9,9.7]    | 6.3          | [5.2,7.7]   |
| No (n=1,495)                                       | 93.4         | [90.9,95.3]  | 94.4         | [92.4,96.0]  | 93.1         | [90.3,95.1]  | 93.7         | [92.3,94.8] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 0.8159       |              |              |              |              |              |              |             |
| Design-based F(1.95, 3142.60) =                    | 0.4110       | Pr =         | 0.658        |              |              |              |              |             |
| <b>Insurance: Other, record info</b>               |              |              |              |              |              |              |              |             |
| Yes (n=83)   | 6.8          | [4.4,10.2]   | 3.6          | [2.3,5.7]    | 6.1          | [4.0,9.2]    | 5.6          | [4.3,7.3]   |
| No (n=1,539)                                       | 93.2         | [89.8,95.6]  | 96.4         | [94.3,97.7]  | 93.9         | [90.8,96.0]  | 94.4         | [92.7,95.7] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 5.9347       |              |              |              |              |              |              |             |
| Design-based F(1.91, 3082.23) =                    | 2.1441       | Pr =         | 0.120        |              |              |              |              |             |
| <b>Unspecified on someone else's insurance</b>     |              |              |              |              |              |              |              |             |
| Yes (n=21)   | 1.1          | [0.5,2.2]    | 0.3          | [0.1,0.8]    | 0.9          | [0.4,2.0]    | 0.8          | [0.5,1.4]   |
| No (n=4,069)                                       | 98.9         | [97.8,99.5]  | 99.7         | [99.2,99.9]  | 99.1         | [98.0,99.6]  | 99.2         | [98.6,99.5] |
| <b>Total (n=4,090)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 5.1271       |              |              |              |              |              |              |             |
| Design-based F(1.82, 7409.91) =                    | 1.9416       | Pr =         | 0.148        |              |              |              |              |             |
| <b>Insurance: Don't know</b>                       |              |              |              |              |              |              |              |             |
| Yes (n=23)   | 1.0          | [0.4,2.5]    | 1.4          | [0.7,2.8]    | 1.4          | [0.7,2.8]    | 1.2          | [0.8,1.9]   |
| No (n=1,599)                                       | 99.0         | [97.5,99.6]  | 98.6         | [97.2,99.3]  | 98.6         | [97.2,99.3]  | 98.8         | [98.1,99.2] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 0.4585       |              |              |              |              |              |              |             |
| Design-based F(1.88, 3019.55) =                    | 0.2194       | Pr =         | 0.789        |              |              |              |              |             |



## 2.3 Demographics Table by Region

Universe: All respondents

|                                   | UP/NW/NE |             | W/E Central/E |             | Region<br>S Central/SW/SE |             | Detroit Metro |             | Total   |             |
|-----------------------------------|----------|-------------|---------------|-------------|---------------------------|-------------|---------------|-------------|---------|-------------|
|                                   | Percent  | 95%CI       | Percent       | 95%CI       | Percent                   | 95%CI       | Percent       | 95%CI       | Percent | 95%CI       |
| <b>FPL category</b>               |          |             |               |             |                           |             |               |             |         |             |
| 0-35% (n=1,600)                   | 38.5     | [36.6,40.5] | 47.6          | [46.0,49.1] | 48.6                      | [46.4,50.9] | 58.7          | [57.0,60.4] | 51.8    | [50.8,52.8] |
| 36-99% (n=1,450)                  | 34.4     | [32.5,36.4] | 30.3          | [29.0,31.6] | 29.4                      | [27.8,31.1] | 25.5          | [24.0,27.1] | 28.4    | [27.6,29.3] |
| ≥ 100% (n = 1, 040)               | 27.0     | [25.4,28.7] | 22.1          | [20.9,23.5] | 22.0                      | [20.4,23.6] | 15.8          | [14.8,16.7] | 19.8    | [19.1,20.4] |
| <b>Total</b> (n=4,090)            | 100.0    |             | 100.0         |             | 100.0                     |             | 100.0         |             | 100.0   |             |
| Pearson: Uncorrected chi2(6) =    | 75.7905  |             |               |             |                           |             |               |             |         |             |
| Design-based F(5.20, 21206.80) =  | 44.4582  | Pr =        | 0.000         |             |                           |             |               |             |         |             |
| <b>Age</b>                        |          |             |               |             |                           |             |               |             |         |             |
| 19-34 (n=1,303)                   | 36.1     | [32.1,40.3] | 38.6          | [35.4,41.8] | 43.3                      | [39.1,47.6] | 40.2          | [36.8,43.8] | 40.0    | [38.0,42.0] |
| 35-50 (n=1,301)                   | 31.4     | [27.6,35.4] | 33.8          | [30.8,36.9] | 32.2                      | [28.6,36.1] | 35.4          | [32.2,38.9] | 34.0    | [32.1,35.9] |
| 51-64 (n=1,486)                   | 32.6     | [29.2,36.2] | 27.6          | [25.1,30.3] | 24.5                      | [21.6,27.6] | 24.3          | [21.8,27.1] | 26.0    | [24.5,27.6] |
| <b>Total</b> (n=4,090)            | 100.0    |             | 100.0         |             | 100.0                     |             | 100.0         |             | 100.0   |             |
| Pearson: Uncorrected chi2(6) =    | 16.6153  |             |               |             |                           |             |               |             |         |             |
| Design-based F(5.23, 21336.52) =  | 2.3000   | Pr =        | 0.040         |             |                           |             |               |             |         |             |
| <b>Gender</b>                     |          |             |               |             |                           |             |               |             |         |             |
| Male (n=1,681)                    | 43.3     | [39.3,47.4] | 48.3          | [45.1,51.4] | 47.1                      | [43.0,51.2] | 50.2          | [46.7,53.6] | 48.4    | [46.5,50.4] |
| Female (n=2,409)                  | 56.7     | [52.6,60.7] | 51.7          | [48.6,54.9] | 52.9                      | [48.8,57.0] | 49.8          | [46.4,53.3] | 51.6    | [49.6,53.5] |
| <b>Total</b> (n=4,090)            | 100.0    |             | 100.0         |             | 100.0                     |             | 100.0         |             | 100.0   |             |
| Pearson: Uncorrected chi2(3) =    | 6.6602   |             |               |             |                           |             |               |             |         |             |
| Design-based F(2.69, 10956.60) =  | 1.7522   | Pr =        | 0.160         |             |                           |             |               |             |         |             |
| <b>Race</b>                       |          |             |               |             |                           |             |               |             |         |             |
| White (n=2,784)                   | 94.8     | [92.8,96.2] | 76.3          | [73.4,78.9] | 69.8                      | [65.7,73.6] | 40.8          | [37.4,44.3] | 61.2    | [59.3,63.0] |
| Black or African American (n=807) | 0.4      | [0.1,1.4]   | 13.7          | [11.7,16.1] | 17.2                      | [14.1,20.8] | 43.1          | [39.7,46.6] | 26.1    | [24.3,27.9] |
| Other (n=306)                     | 2.6      | [1.7,4.1]   | 5.2           | [3.9,6.8]   | 7.8                       | [5.7,10.5]  | 12.8          | [10.7,15.1] | 8.8     | [7.7,10.0]  |
| More than one (n=142)             | 2.2      | [1.3,3.5]   | 4.8           | [3.6,6.6]   | 5.2                       | [3.6,7.4]   | 3.3           | [2.3,4.9]   | 4.0     | [3.3,4.9]   |
| <b>Total</b> (n=4,039)            | 100.0    |             | 100.0         |             | 100.0                     |             | 100.0         |             | 100.0   |             |
| Pearson: Uncorrected chi2(9) =    | 693.0738 |             |               |             |                           |             |               |             |         |             |
| Design-based F(7.66, 30846.88) =  | 61.6407  | Pr =        | 0.000         |             |                           |             |               |             |         |             |
| <b>Hispanic/Latino</b>            |          |             |               |             |                           |             |               |             |         |             |
| Yes (n=188)                       | 2.3      | [1.2,4.2]   | 6.3           | [4.9,8.0]   | 5.6                       | [3.9,7.9]   | 5.0           | [3.7,6.8]   | 5.2     | [4.4,6.2]   |
| No (n=3,856)                      | 97.7     | [95.8,98.8] | 93.4          | [91.7,94.8] | 93.6                      | [91.2,95.4] | 94.5          | [92.6,95.9] | 94.3    | [93.3,95.2] |
| Don't know (n=12)                 | 0.0      |             | 0.3           | [0.1,0.8]   | 0.8                       | [0.3,2.3]   | 0.5           | [0.2,1.5]   | 0.5     | [0.2,0.9]   |
| <b>Total</b> (n=4,056)            | 100.0    |             | 100.0         |             | 100.0                     |             | 100.0         |             | 100.0   |             |
| Pearson: Uncorrected chi2(6) =    | 13.4623  |             |               |             |                           |             |               |             |         |             |
| Design-based F(5.22, 21110.22) =  | 1.4298   | Pr =        | 0.207         |             |                           |             |               |             |         |             |

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|                                       |           |             |             |             |             |             |       |             |       |             |
|---------------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|-------|-------------|-------|-------------|
| <b>Arab, Chaldean, Middle Eastern</b> |           |             |             |             |             |             |       |             |       |             |
| Yes (n=204)                           | 0.3       | [0.1,1.2]   | 0.6         | [0.3,1.4]   | 3.1         | [1.9,5.0]   | 12.2  | [10.3,14.5] | 6.2   | [5.3,7.2]   |
| No (n=3,842)                          | 99.2      | [97.0,99.8] | 99.0        | [98.1,99.5] | 96.6        | [94.7,97.9] | 87.6  | [85.3,89.5] | 93.6  | [92.5,94.5] |
| Don't know (n=9)                      | 0.5       | [0.1,3.5]   | 0.4         | [0.1,1.1]   | 0.2         | [0.1,1.0]   | 0.2   | [0.0,0.8]   | 0.3   | [0.1,0.6]   |
| <b>Total (n=4,055)</b>                | 100.0     |             | 100.0       |             | 100.0       |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(6) =        | 209.9828  |             |             |             |             |             |       |             |       |             |
| Design-based F(5.39, 21809.55) =      | 26.2657   | Pr =        | 0.000       |             |             |             |       |             |       |             |
| <b>Urbanicity</b>                     |           |             |             |             |             |             |       |             |       |             |
| Urban (n=2,892)                       | 0.0       | 71.9        | [69.0,74.6] | 89.7        | [87.0,91.9] | 100.0       | 81.0  | [80.0,82.0] |       |             |
| Suburban (n=400)                      | 0.0       | 24.0        | [21.4,26.7] | 10.3        | [8.1,13.0]  | 0.0         | 8.8   | [7.9,9.7]   |       |             |
| Rural (n=798)                         | 100.0     | 4.1         | [3.0,5.6]   | 0.0         |             | 0.0         | 10.2  | [9.7,10.7]  |       |             |
| <b>Total (n=4,090)</b>                | 100.0     | 100.0       |             | 100.0       |             | 100.0       | 100.0 |             |       |             |
| Pearson: Uncorrected chi2(6) =        | 4116.1483 |             |             |             |             |             |       |             |       |             |
| Design-based F(4.10, 16722.43) =      | 925.6255  | Pr =        | 0.000       |             |             |             |       |             |       |             |
| <b>Medicaid Health Plan</b>           |           |             |             |             |             |             |       |             |       |             |
| Aetna (n=58)                          | 0.0       |             | 0.0         |             | 2.9         | [1.9,4.6]   | 2.6   | [1.7,3.9]   | 1.7   | [1.2,2.3]   |
| Blue Cross (n=356)                    | 0.0       |             | 0.5         | [0.2,1.2]   | 18.9        | [15.7,22.6] | 18.1  | [15.4,21.1] | 11.6  | [10.2,13.1] |
| Harbor (n=18)                         | 0.0       |             | 0.0         |             | 0.0         |             | 1.7   | [1.0,3.0]   | 0.7   | [0.4,1.3]   |
| McLaren (n=633)                       | 21.7      | [18.4,25.3] | 20.5        | [18.1,23.1] | 14.3        | [11.8,17.1] | 5.9   | [4.5,7.7]   | 13.0  | [11.9,14.2] |
| Meridian (n=1,265)                    | 35.6      | [31.7,39.6] | 26.9        | [24.1,29.9] | 45.7        | [41.6,49.8] | 23.8  | [21.0,26.9] | 29.8  | [28.1,31.6] |
| Midwest (n=3)                         | 0.0       |             | 0.2         | [0.1,0.6]   | 0.0         |             | 0.0   |             | 0.1   | [0.0,0.2]   |
| Molina (n=701)                        | 7.3       | [5.6,9.6]   | 26.3        | [23.6,29.2] | 4.0         | [2.8,5.6]   | 20.6  | [17.9,23.6] | 18.0  | [16.5,19.5] |
| Priority (n=268)                      | 0.0       |             | 20.2        | [17.8,22.8] | 0.7         | [0.2,2.4]   | 0.0   |             | 5.9   | [5.2,6.7]   |
| Total Health Care (n=85)              | 0.0       |             | 0.0         |             | 0.0         |             | 6.5   | [5.0,8.3]   | 2.8   | [2.2,3.7]   |
| United (n=443)                        | 0.1       | [0.0,0.7]   | 5.4         | [4.1,7.1]   | 13.5        | [10.7,16.8] | 20.8  | [18.2,23.7] | 13.2  | [11.8,14.7] |
| Upper Peninsula Health Plan (n=258)   | 35.3      | [31.5,39.4] | 0.0         |             | 0.0         |             | 0.0   |             | 3.2   | [2.8,3.6]   |
| <b>Total (n=4,088)</b>                | 100.0     |             | 100.0       |             | 100.0       |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(30) =       | 2955.8232 |             |             |             |             |             |       |             |       |             |
| Design-based F(17.73, 72265.07) =     | 100.4495  | Pr =        | 0.000       |             |             |             |       |             |       |             |
| <b>Employment status</b>              |           |             |             |             |             |             |       |             |       |             |
| Employed or self-employed (n=2,079)   | 52.5      | [48.6,56.4] | 46.9        | [44.0,49.9] | 53.3        | [49.4,57.2] | 47.4  | [44.1,50.8] | 48.8  | [47.0,50.7] |
| Out of work >=1 year (n=707)          | 15.7      | [13.0,18.8] | 20.7        | [18.2,23.4] | 16.3        | [13.4,19.6] | 21.3  | [18.5,24.3] | 19.7  | [18.1,21.3] |
| Out of work <1 year (n=258)           | 6.0       | [4.2,8.4]   | 7.6         | [6.0,9.6]   | 8.8         | [6.7,11.5]  | 8.1   | [6.2,10.4]  | 7.9   | [6.8,9.1]   |
| Homemaker (n=217)                     | 5.6       | [4.0,7.7]   | 3.9         | [2.9,5.2]   | 4.1         | [2.9,5.6]   | 4.9   | [3.8,6.4]   | 4.5   | [3.8,5.3]   |
| Student (n=161)                       | 3.9       | [2.5,6.2]   | 4.8         | [3.3,6.8]   | 5.3         | [3.7,7.5]   | 5.7   | [4.2,7.6]   | 5.2   | [4.3,6.2]   |
| Retired (n=167)                       | 5.0       | [3.8,6.7]   | 2.7         | [2.0,3.6]   | 2.2         | [1.5,3.2]   | 2.0   | [1.3,3.1]   | 2.5   | [2.1,3.0]   |
| Unable to work (n=479)                | 11.1      | [8.9,13.7]  | 13.2        | [11.3,15.5] | 10.1        | [8.0,12.7]  | 10.5  | [8.6,12.8]  | 11.3  | [10.1,12.5] |
| Don't know (n=7)                      | 0.2       | [0.1,1.0]   | 0.3         | [0.1,0.8]   | 0.0         |             | 0.1   | [0.0,0.9]   | 0.2   | [0.1,0.4]   |
| <b>Total (n=4,075)</b>                | 100.0     |             | 100.0       |             | 100.0       |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(21) =       | 44.2104   |             |             |             |             |             |       |             |       |             |
| Design-based F(17.48, 71007.65) =     | 1.7471    | Pr =        | 0.027       |             |             |             |       |             |       |             |
| <b>Veteran</b>                        |           |             |             |             |             |             |       |             |       |             |
| Yes (n=125)                           | 3.0       | [1.9,4.5]   | 4.4         | [3.2,6.0]   | 2.8         | [1.7,4.4]   | 3.1   | [2.1,4.5]   | 3.4   | [2.7,4.2]   |
| No (n=3,958)                          | 97.0      | [95.5,98.1] | 95.5        | [93.9,96.8] | 97.2        | [95.6,98.3] | 96.7  | [95.2,97.7] | 96.5  | [95.7,97.2] |
| Don't know (n=3)                      | 0.0       |             | 0.1         | [0.0,0.8]   | 0.0         |             | 0.2   | [0.0,1.2]   | 0.1   | [0.0,0.5]   |
| <b>Total (n=4,086)</b>                | 100.0     |             | 100.0       |             | 100.0       |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(6) =        | 7.6656    |             |             |             |             |             |       |             |       |             |
| Design-based F(4.19, 17086.89) =      | 0.9232    | Pr =        | 0.452       |             |             |             |       |             |       |             |

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|   |              |             |              |             |              |             |              |             |              |             |
|---|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Marital status</b>                                 |              |             |              |             |              |             |              |             |              |             |
| Married (n=1,008)                                     | 28.2         | [24.8,31.9] | 21.5         | [19.3,23.9] | 17.8         | [15.3,20.8] | 19.1         | [16.8,21.6] | 20.4         | [19.0,21.8] |
| Partnered (n=185)                                     | 5.9          | [4.2,8.2]   | 4.9          | [3.8,6.5]   | 5.7          | [4.1,7.9]   | 2.9          | [2.0,4.2]   | 4.3          | [3.6,5.1]   |
| Divorced (n=865)                                      | 22.9         | [19.8,26.4] | 20.3         | [17.9,22.9] | 19.7         | [17.0,22.8] | 15.1         | [12.9,17.7] | 18.2         | [16.8,19.6] |
| Widowed (n=147)                                       | 4.7          | [3.1,7.1]   | 2.6          | [1.9,3.5]   | 2.3          | [1.5,3.5]   | 2.7          | [1.8,3.9]   | 2.8          | [2.3,3.4]   |
| Separated (n=119)                                     | 1.3          | [0.7,2.5]   | 3.2          | [2.3,4.4]   | 2.9          | [2.0,4.4]   | 2.8          | [1.9,4.0]   | 2.8          | [2.3,3.4]   |
| Never Married (n=1,745)                               | 36.4         | [32.5,40.6] | 47.5         | [44.4,50.7] | 51.4         | [47.3,55.4] | 57.4         | [54.1,60.7] | 51.6         | [49.6,53.5] |
| Don't know (n=4)                                      | 0.4          | [0.1,2.0]   | 0.0          |             | 0.1          | [0.0,0.8]   | 0.1          | [0.0,0.4]   | 0.1          | [0.0,0.2]   |
| <b>Total (n=4,073)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(18) =                       | 96.5028      |             |              |             |              |             |              |             |              |             |
| Design-based F(16.18, 65698.28) =                     | 4.9795       | Pr =        | 0.000        |             |              |             |              |             |              |             |
| <b>Any chronic health condition present</b>           |              |             |              |             |              |             |              |             |              |             |
| Yes (n=2,986)   | 74.4         | [70.4,78.0] | 74.2         | [71.2,77.0] | 72.3         | [68.1,76.2] | 63.6         | [60.1,66.8] | 69.2         | [67.3,71.0] |
| No (n=1,104)  | 25.6         | [22.0,29.6] | 25.8         | [23.0,28.8] | 27.7         | [23.8,31.9] | 36.4         | [33.2,39.9] | 30.8         | [29.0,32.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =                        | 48.3925      |             |              |             |              |             |              |             |              |             |
| Design-based F(2.72, 11087.08) =                      | 11.5885      | Pr =        | 0.000        |             |              |             |              |             |              |             |
| <b>At least one physical health condition present</b> |              |             |              |             |              |             |              |             |              |             |
| Yes (n=2,689)   | 67.0         | [62.8,70.8] | 64.4         | [61.2,67.5] | 60.8         | [56.5,64.9] | 57.2         | [53.7,60.6] | 60.8         | [58.8,62.8] |
| No (n=1,401)  | 33.0         | [29.2,37.2] | 35.6         | [32.5,38.8] | 39.2         | [35.1,43.5] | 42.8         | [39.4,46.3] | 39.2         | [37.2,41.2] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =                        | 21.9869      |             |              |             |              |             |              |             |              |             |
| Design-based F(2.70, 11016.29) =                      | 5.4136       | Pr =        | 0.002        |             |              |             |              |             |              |             |
| <b>At least one mental health condition present</b>   |              |             |              |             |              |             |              |             |              |             |
| Yes (n=1,351)   | 38.2         | [34.3,42.2] | 38.1         | [35.1,41.3] | 38.0         | [34.2,42.0] | 24.5         | [21.5,27.7] | 32.1         | [30.3,33.9] |
| No (n=2,739)  | 61.8         | [57.8,65.7] | 61.9         | [58.7,64.9] | 62.0         | [58.0,65.8] | 75.5         | [72.3,78.5] | 67.9         | [66.1,69.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =                        | 85.6466      |             |              |             |              |             |              |             |              |             |
| Design-based F(2.62, 10690.68) =                      | 21.8903      | Pr =        | 0.000        |             |              |             |              |             |              |             |
| <b>Other household HMP enrollee</b>                   |              |             |              |             |              |             |              |             |              |             |
| Yes (n=1,592)   | 43.4         | [39.5,47.5] | 36.7         | [33.7,39.7] | 37.8         | [34.1,41.7] | 32.5         | [29.7,35.6] | 35.7         | [34.0,37.5] |
| No (n=2,289)  | 52.7         | [48.7,56.7] | 57.7         | [54.6,60.8] | 57.6         | [53.6,61.5] | 59.3         | [56.0,62.6] | 58.0         | [56.1,59.8] |
| Don't know (n=201)                                    | 3.8          | [2.3,6.2]   | 5.6          | [4.3,7.3]   | 4.6          | [3.2,6.5]   | 8.1          | [6.1,10.6]  | 6.3          | [5.3,7.6]   |
| <b>Total (n=4,082)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =                        | 31.8793      |             |              |             |              |             |              |             |              |             |
| Design-based F(5.36, 21817.76) =                      | 4.1584       | Pr =        | 0.001        |             |              |             |              |             |              |             |
| <b>Help reading written materials</b>                 |              |             |              |             |              |             |              |             |              |             |
| Never (n=3,031)                                       | 77.4         | [73.8,80.7] | 72.7         | [69.7,75.5] | 71.4         | [67.4,75.0] | 72.1         | [68.9,75.1] | 72.6         | [70.8,74.3] |
| Rarely (n=413)  | 10.5         | [8.1,13.3]  | 11.9         | [9.9,14.2]  | 11.7         | [9.2,14.9]  | 9.4          | [7.5,11.7]  | 10.6         | [9.5,12.0]  |
| Sometimes (n=390)                                     | 7.4          | [5.4,10.0]  | 9.5          | [7.6,11.7]  | 10.9         | [8.5,13.9]  | 11.9         | [9.8,14.3]  | 10.6         | [9.4,11.9]  |
| Often (n=94)  | 1.4          | [0.8,2.6]   | 2.5          | [1.6,3.9]   | 2.7          | [1.6,4.5]   | 2.4          | [1.6,3.6]   | 2.4          | [1.8,3.1]   |
| Always (n=157)  | 3.2          | [2.1,4.9]   | 3.4          | [2.5,4.5]   | 3.3          | [2.2,4.9]   | 4.3          | [3.1,5.8]   | 3.7          | [3.1,4.5]   |
| Don't know (n=3)                                      | 0.1          | [0.0,0.8]   | 0.1          | [0.0,0.4]   | 0.0          |             | 0.0          |             | 0.0          | [0.0,0.1]   |
| <b>Total (n=4,088)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(15) =                       | 21.1201      |             |              |             |              |             |              |             |              |             |
| Design-based F(12.22, 49799.55) =                     | 1.2688       | Pr =        | 0.228        |             |              |             |              |             |              |             |

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|   |         |             |       |             |       |             |       |             |       |             |
|---|---------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| <b>Low healthcare utilizers</b>                     |         |             |       |             |       |             |       |             |       |             |
| Yes (n=491)   | 12.0    | [9.4,15.2]  | 13.0  | [10.8,15.5] | 15.8  | [12.6,19.7] | 17.1  | [14.4,20.2] | 15.2  | [13.7,16.9] |
| No (n=3,599)  | 88.0    | [84.8,90.6] | 87.0  | [84.5,89.2] | 84.2  | [80.3,87.4] | 82.9  | [79.8,85.6] | 84.8  | [83.1,86.3] |
| <b>Total (n=4,090)</b>                              | 100.0   |             | 100.0 |             | 100.0 |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                      | 12.5763 |             |       |             |       |             |       |             |       |             |
| Design-based F(2.65, 10822.56) =                    | 2.6830  | Pr =        | 0.052 |             |       |             |       |             |       |             |
| <b>High ER utilizers</b>                            |         |             |       |             |       |             |       |             |       |             |
| Yes (n=156)   | 3.0     | [1.9,4.9]   | 4.5   | [3.3,6.0]   | 5.2   | [3.8,7.2]   | 4.3   | [3.0,6.2]   | 4.4   | [3.6,5.4]   |
| No (n=3,934)  | 97.0    | [95.1,98.1] | 95.5  | [94.0,96.7] | 94.8  | [92.8,96.2] | 95.7  | [93.8,97.0] | 95.6  | [94.6,96.4] |
| <b>Total (n=4,090)</b>                              | 100.0   |             | 100.0 |             | 100.0 |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                      | 2.9173  |             |       |             |       |             |       |             |       |             |
| Design-based F(2.54, 10346.62) =                    | 0.7052  | Pr =        | 0.526 |             |       |             |       |             |       |             |
| <b>Chronic disease (HEDIS)</b>                      |         |             |       |             |       |             |       |             |       |             |
| Chronic disease (HEDIS) (n=1,161)                   | 24.4    | [21.2,27.9] | 26.9  | [24.2,29.7] | 21.9  | [19.0,25.1] | 25.5  | [22.7,28.5] | 25.1  | [23.5,26.8] |
| No chronic disease (n=2,929)                        | 75.6    | [72.1,78.8] | 73.1  | [70.3,75.8] | 78.1  | [74.9,81.0] | 74.5  | [71.5,77.3] | 74.9  | [73.2,76.5] |
| <b>Total (n=4,090)</b>                              | 100.0   |             | 100.0 |             | 100.0 |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                      | 6.3971  |             |       |             |       |             |       |             |       |             |
| Design-based F(2.68, 10928.91) =                    | 1.9030  | Pr =        | 0.134 |             |       |             |       |             |       |             |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |       |             |       |             |       |             |       |             |
| MH/SA (HEDIS) (n=2,034)                             | 54.0    | [49.9,58.0] | 53.3  | [50.1,56.4] | 49.1  | [45.0,53.2] | 43.6  | [40.2,47.1] | 48.3  | [46.4,50.3] |
| No MH/SA (n=2,056)                                  | 46.0    | [42.0,50.1] | 46.7  | [43.6,49.9] | 50.9  | [46.8,55.0] | 56.4  | [52.9,59.8] | 51.7  | [49.7,53.6] |
| <b>Total (n=4,090)</b>                              | 100.0   |             | 100.0 |             | 100.0 |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                      | 32.2688 |             |       |             |       |             |       |             |       |             |
| Design-based F(2.68, 10918.05) =                    | 8.4696  | Pr =        | 0.000 |             |       |             |       |             |       |             |
| <b>Any insurance pre-HMP</b>                        |         |             |       |             |       |             |       |             |       |             |
| Yes (n=1,667)                                       | 38.9    | [34.9,43.0] | 42.4  | [39.2,45.5] | 45.3  | [41.2,49.4] | 38.1  | [34.8,41.5] | 40.7  | [38.8,42.6] |
| No (n=2,374)  | 59.7    | [55.6,63.7] | 56.7  | [53.5,59.8] | 53.7  | [49.6,57.8] | 60.0  | [56.6,63.4] | 57.9  | [55.9,59.8] |
| Don't know (n=46)                                   | 1.4     | [0.7,2.8]   | 1.0   | [0.5,1.8]   | 1.0   | [0.4,2.5]   | 1.9   | [1.1,3.4]   | 1.4   | [1.0,2.1]   |
| <b>Total (n=4,087)</b>                              | 100.0   |             | 100.0 |             | 100.0 |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(6) =                      | 17.8530 |             |       |             |       |             |       |             |       |             |
| Design-based F(5.27, 21488.50) =                    | 2.2192  | Pr =        | 0.046 |             |       |             |       |             |       |             |
| <b>Insurance duration pre-HMP</b>                   |         |             |       |             |       |             |       |             |       |             |
| All 12 months (n=1,235)                             | 75.8    | [69.9,80.9] | 75.2  | [70.7,79.3] | 71.8  | [65.7,77.1] | 73.5  | [68.3,78.1] | 73.8  | [71.1,76.5] |
| 6-11 months (n=245)                                 | 12.1    | [8.7,16.6]  | 12.8  | [9.7,16.6]  | 14.5  | [10.5,19.8] | 17.8  | [14.0,22.5] | 15.2  | [13.0,17.6] |
| Less than 6 months (n=129)                          | 7.0     | [4.5,10.9]  | 8.6   | [6.1,11.8]  | 9.4   | [6.3,14.0]  | 6.1   | [4.0,9.1]   | 7.6   | [6.2,9.3]   |
| Don't know (n=58)                                   | 5.0     | [2.5,9.6]   | 3.4   | [2.1,5.6]   | 4.2   | [2.4,7.5]   | 2.6   | [1.3,5.4]   | 3.4   | [2.5,4.7]   |
| <b>Total (n=1,667)</b>                              | 100.0   |             | 100.0 |             | 100.0 |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(9) =                      | 13.7974 |             |       |             |       |             |       |             |       |             |
| Design-based F(7.91, 13092.90) =                    | 1.1630  | Pr =        | 0.318 |             |       |             |       |             |       |             |
| <b>Insurance: Private, job</b>                      |         |             |       |             |       |             |       |             |       |             |
| Yes (n=409)   | 28.0    | [22.2,34.6] | 26.1  | [21.9,30.7] | 26.9  | [21.6,33.0] | 25.6  | [21.0,30.8] | 26.2  | [23.6,29.0] |
| No (n=1,213)  | 72.0    | [65.4,77.8] | 73.9  | [69.3,78.1] | 73.1  | [67.0,78.4] | 74.4  | [69.2,79.0] | 73.8  | [71.0,76.4] |
| <b>Total (n=1,622)</b>                              | 100.0   |             | 100.0 |             | 100.0 |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                      | 0.4465  |             |       |             |       |             |       |             |       |             |
| Design-based F(2.70, 4353.46) =                     | 0.1136  | Pr =        | 0.940 |             |       |             |       |             |       |             |

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|  |         |             |             |             |       |             |              |             |       |             |
|--|---------|-------------|-------------|-------------|-------|-------------|--------------|-------------|-------|-------------|
| <b>Insurance: Private, self</b>                    |         |             |             |             |       |             |              |             |       |             |
| Yes (n=157)  | 13.6    | [9.6,18.9]  | 8.4         | [6.0,11.6]  | 10.5  | [6.5,16.4]  | 10.8         | [7.3,15.5]  | 10.2  | [8.3,12.6]  |
| No (n=1,465)                                       | 86.4    | [81.1,90.4] | 91.6        | [88.4,94.0] | 89.5  | [83.6,93.5] | 89.2         | [84.5,92.7] | 89.8  | [87.4,91.7] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0       |             | 100.0 |             | 100.0        |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                     | 3.6535  |             |             |             |       |             |              |             |       |             |
| Design-based F(2.53, 4072.34) =                    | 0.7376  | Pr =        | 0.508       |             |       |             |              |             |       |             |
| <b>Healthcare.gov insurance</b>                    |         |             |             |             |       |             |              |             |       |             |
| Yes (n=59)   | 35.3    | [20.1,54.0] | 26.2        | [14.2,43.2] | 34.8  | [16.3,59.5] | 32.0         | [17.5,51.1] | 31.5  | [22.6,41.9] |
| No (n=75)  | 56.0    | [38.3,72.3] | 45.8        | [29.6,62.9] | 58.1  | [33.8,79.1] | 59.5         | [39.8,76.5] | 55.4  | [44.1,66.2] |
| Don't know (n=18)                                  | 8.7     | [3.1,22.1]  | 28.1        | [13.7,48.9] | 7.0   | [1.6,25.7]  | 8.6          | [2.7,23.9]  | 13.1  | [7.6,21.7]  |
| <b>Total (n=152)</b>                               | 100.0   |             | 100.0       |             | 100.0 |             | 100.0        |             | 100.0 |             |
| Pearson: Uncorrected chi2(6) =                     | 10.0322 |             |             |             |       |             |              |             |       |             |
| Design-based F(4.95, 692.46) =                     | 1.3044  | Pr =        | 0.260       |             |       |             |              |             |       |             |
| <b>Insurance subsidy</b>                           |         |             |             |             |       |             |              |             |       |             |
| Yes (n=37)   | 66.3    | [30.3,89.8] | 72.1        | [41.2,90.6] | 48.6  | [17.9,80.4] | 62.2         | [32.1,85.2] | 61.8  | [43.9,76.9] |
| No (n=18)  | 22.3    | [4.0,66.6]  | 27.9        | [9.4,58.8]  | 51.4  | [19.6,82.1] | 20.3         | [8.8,40.4]  | 29.0  | [18.1,43.1] |
| Don't know (n=4)                                   | 11.5    | [1.3,55.5]  | 0.0         |             | 0.0   |             | 17.5         | [3.2,57.7]  | 9.3   | [2.2,31.3]  |
| <b>Total (n=59)</b>                                | 100.0   |             | 100.0       |             | 100.0 |             | 100.0        |             | 100.0 |             |
| Pearson: Uncorrected chi2(6) =                     | 7.9792  |             |             |             |       |             |              |             |       |             |
| Design-based F(4.17, 199.94) =                     | 1.0419  | Pr =        | 0.388       |             |       |             |              |             |       |             |
| <b>Insurance: Medicaid</b>                         |         |             |             |             |       |             |              |             |       |             |
| Yes (n=834)  | 46.5    | [40.0,53.2] | 50.3        | [45.3,55.4] | 47.1  | [41.0,53.3] | 53.8         | [48.1,59.3] | 50.8  | [47.7,53.9] |
| No (n=788)   | 53.5    | [46.8,60.0] | 49.7        | [44.6,54.7] | 52.9  | [46.7,59.0] | 46.2         | [40.7,51.9] | 49.2  | [46.1,52.3] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0       |             | 100.0 |             | 100.0        |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                     | 5.1853  |             |             |             |       |             |              |             |       |             |
| Design-based F(2.67, 4295.74) =                    | 1.3418  | Pr =        | 0.261       |             |       |             |              |             |       |             |
| <b>Insurance: VA</b>                               |         |             |             |             |       |             |              |             |       |             |
| Yes (n=21)   | 2.7     | [1.2,5.9]   | 0.9         | [0.3,2.5]   | 0.4   | [0.1,1.4]   | 1.9          | [0.8,4.2]   | 1.4   | [0.8,2.3]   |
| No (n=1,601)                                       | 97.3    | [94.1,98.8] | 99.1        | [97.5,99.7] | 99.6  | [98.6,99.9] | 98.1         | [95.8,99.2] | 98.6  | [97.7,99.2] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0       |             | 100.0 |             | 100.0        |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                     | 6.4279  |             |             |             |       |             |              |             |       |             |
| Design-based F(2.60, 4182.61) =                    | 2.1651  | Pr =        | 0.099       |             |       |             |              |             |       |             |
| <b>Insurance: Indian Health Service</b>            |         |             |             |             |       |             |              |             |       |             |
| Yes (n=3)  | 1.0     | [0.3,3.1]   | 0.0         | 0.0         | 0.0   | 0.1         | [0.0,0.3]    |             |       |             |
| No (n=1,619)                                       | 99.0    | [96.9,99.7] | 100.0       | 100.0       | 100.0 | 99.9        | [99.7,100.0] |             |       |             |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0       | 100.0       | 100.0 | 100.0       |              |             |       |             |
| Pearson: Uncorrected chi2(3) =                     | 14.8067 |             |             |             |       |             |              |             |       |             |
| Design-based F(2.95, 4757.33) =                    | 11.1377 | Pr =        | 0.000       |             |       |             |              |             |       |             |
| <b>Insurance: CHAMPUS, TRICARE, other military</b> |         |             |             |             |       |             |              |             |       |             |
| Yes (n=3)  | 0.0     | 0.4         | [0.1,1.9]   | 0.0         | 0.5   | [0.1,3.3]   | 0.3          | [0.1,1.2]   |       |             |
| No (n=1,619)                                       | 100.0   | 99.6        | [98.1,99.9] | 100.0       | 99.5  | [96.7,99.9] | 99.7         | [98.8,99.9] |       |             |
| <b>Total (n=1,622)</b>                             | 100.0   | 100.0       |             | 100.0       | 100.0 |             | 100.0        |             |       |             |
| Pearson: Uncorrected chi2(3) =                     | 2.1861  |             |             |             |       |             |              |             |       |             |
| Design-based F(1.83, 2938.61) =                    | 0.4783  | Pr =        | 0.602       |             |       |             |              |             |       |             |

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|  |         |             |             |             |       |              |       |             |       |             |
|--|---------|-------------|-------------|-------------|-------|--------------|-------|-------------|-------|-------------|
| <b>Insurance: Medicare</b>                     |         |             |             |             |       |              |       |             |       |             |
| Yes (n=5)                                      | 0.0     | 0.7         | [0.2,1.9]   | 0.0         | 0.2   | [0.0,1.4]    | 0.3   | [0.1,0.7]   |       |             |
| No (n=1,617)                                   | 100.0   | 99.3        | [98.1,99.8] | 100.0       | 99.8  | [98.6,100.0] | 99.7  | [99.3,99.9] |       |             |
| <b>Total (n=1,622)</b>                         | 100.0   | 100.0       |             | 100.0       | 100.0 |              | 100.0 |             |       |             |
| Pearson: Uncorrected chi2(3) =                 | 4.3380  |             |             |             |       |              |       |             |       |             |
| Design-based F(2.30, 3695.39) =                | 1.8193  | Pr =        | 0.156       |             |       |              |       |             |       |             |
| <b>Insurance: County health plan</b>           |         |             |             |             |       |              |       |             |       |             |
| Yes (n=127)                                    | 4.0     | [2.2,7.2]   | 9.4         | [7.1,12.4]  | 9.5   | [6.8,13.2]   | 3.0   | [1.7,5.1]   | 6.3   | [5.2,7.7]   |
| No (n=1,495)                                   | 96.0    | [92.8,97.8] | 90.6        | [87.6,92.9] | 90.5  | [86.8,93.2]  | 97.0  | [94.9,98.3] | 93.7  | [92.3,94.8] |
| <b>Total (n=1,622)</b>                         | 100.0   |             | 100.0       |             | 100.0 |              | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                 | 27.0187 |             |             |             |       |              |       |             |       |             |
| Design-based F(2.65, 4272.86) =                | 8.9071  | Pr =        | 0.000       |             |       |              |       |             |       |             |
| <b>Insurance: Other, record info</b>           |         |             |             |             |       |              |       |             |       |             |
| Yes (n=83)                                     | 6.9     | [4.3,11.0]  | 4.3         | [2.6,7.0]   | 7.8   | [5.2,11.8]   | 5.1   | [3.0,8.7]   | 5.6   | [4.3,7.3]   |
| No (n=1,539)                                   | 93.1    | [89.0,95.7] | 95.7        | [93.0,97.4] | 92.2  | [88.2,94.8]  | 94.9  | [91.3,97.0] | 94.4  | [92.7,95.7] |
| <b>Total (n=1,622)</b>                         | 100.0   |             | 100.0       |             | 100.0 |              | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                 | 5.5224  |             |             |             |       |              |       |             |       |             |
| Design-based F(2.54, 4094.59) =                | 1.3247  | Pr =        | 0.266       |             |       |              |       |             |       |             |
| <b>Unspecified on someone else's insurance</b> |         |             |             |             |       |              |       |             |       |             |
| Yes (n=21)                                     | 0.6     | [0.2,1.8]   | 0.8         | [0.3,1.8]   | 1.3   | [0.6,2.6]    | 0.7   | [0.2,2.1]   | 0.8   | [0.5,1.4]   |
| No (n=4,069)                                   | 99.4    | [98.2,99.8] | 99.2        | [98.2,99.7] | 98.7  | [97.4,99.4]  | 99.3  | [97.9,99.8] | 99.2  | [98.6,99.5] |
| <b>Total (n=4,090)</b>                         | 100.0   |             | 100.0       |             | 100.0 |              | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                 | 2.4354  |             |             |             |       |              |       |             |       |             |
| Design-based F(2.41, 9813.95) =                | 0.4593  | Pr =        | 0.668       |             |       |              |       |             |       |             |
| <b>Insurance: Don't know</b>                   |         |             |             |             |       |              |       |             |       |             |
| Yes (n=23)                                     | 1.3     | [0.5,3.6]   | 0.9         | [0.4,2.1]   | 1.2   | [0.3,4.4]    | 1.4   | [0.8,2.7]   | 1.2   | [0.8,1.9]   |
| No (n=1,599)                                   | 98.7    | [96.4,99.5] | 99.1        | [97.9,99.6] | 98.8  | [95.6,99.7]  | 98.6  | [97.3,99.2] | 98.8  | [98.1,99.2] |
| <b>Total (n=1,622)</b>                         | 100.0   |             | 100.0       |             | 100.0 |              | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(3) =                 | 0.6865  |             |             |             |       |              |       |             |       |             |
| Design-based F(2.50, 4018.76) =                | 0.2263  | Pr =        | 0.844       |             |       |              |       |             |       |             |

## 2.4 Demographics Table based on PCP/Outpatient Utilization

Universe: All respondents

|                                       | Low healthcare utilizers |             |         |             |         |             |
|---------------------------------------|--------------------------|-------------|---------|-------------|---------|-------------|
|                                       | Yes                      |             | No      |             | Total   |             |
|                                       | Percent                  | 95%CI       | Percent | 95%CI       | Percent | 95%CI       |
| <b>FPL category</b>                   |                          |             |         |             |         |             |
| 0-35% (n=1,600)                       | 58.9                     | [53.7,63.9] | 50.6    | [49.3,51.8] | 51.8    | [50.8,52.8] |
| 36-99% (n=1,450)                      | 24.2                     | [20.3,28.5] | 29.2    | [28.1,30.2] | 28.4    | [27.6,29.3] |
| ≥ 100% (n = 1,040)                    | 17.0                     | [13.8,20.6] | 20.3    | [19.4,21.1] | 19.8    | [19.1,20.4] |
| <b>Total</b> (n=4,090)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 14.6763                  |             |         |             |         |             |
| Design-based F(1.93, 7851.49) =       | 4.6708                   | Pr =        | 0.010   |             |         |             |
| <b>Region</b>                         |                          |             |         |             |         |             |
| UP/NW/NE (n=746)                      | 7.1                      | [5.5,9.1]   | 9.3     | [8.9,9.8]   | 9.0     | [8.6,9.4]   |
| W/E Central/E (n=1,265)               | 24.4                     | [20.4,28.9] | 29.4    | [28.4,30.4] | 28.6    | [27.8,29.4] |
| S Central/SW/SE (n=837)               | 19.3                     | [15.4,23.8] | 18.4    | [17.6,19.3] | 18.6    | [17.8,19.3] |
| Detroit Metro (n=1,242)               | 49.2                     | [43.7,54.7] | 42.9    | [41.6,44.1] | 43.8    | [42.8,44.9] |
| <b>Total</b> (n=4,090)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(3) =        | 12.5763                  |             |         |             |         |             |
| Design-based F(2.65, 10822.56) =      | 2.6830                   | Pr =        | 0.052   |             |         |             |
| <b>Age</b>                            |                          |             |         |             |         |             |
| 19-34 (n=1,303)                       | 55.4                     | [49.6,61.0] | 37.2    | [35.1,39.3] | 40.0    | [38.0,42.0] |
| 35-50 (n=1,301)                       | 31.8                     | [26.5,37.5] | 34.4    | [32.4,36.4] | 34.0    | [32.1,35.9] |
| 51-64 (n=1,486)                       | 12.8                     | [10.3,15.8] | 28.4    | [26.8,30.2] | 26.0    | [24.5,27.6] |
| <b>Total</b> (n=4,090)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 94.5710                  |             |         |             |         |             |
| Design-based F(1.80, 7327.77) =       | 28.0266                  | Pr =        | 0.000   |             |         |             |
| <b>Gender</b>                         |                          |             |         |             |         |             |
| Male (n=1,681)                        | 72.3                     | [67.3,76.8] | 44.2    | [42.1,46.2] | 48.4    | [46.5,50.4] |
| Female (n=2,409)                      | 27.7                     | [23.2,32.7] | 55.8    | [53.8,57.9] | 51.6    | [49.6,53.5] |
| <b>Total</b> (n=4,090)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(1) =        | 167.3111                 |             |         |             |         |             |
| Design-based F(1.00, 4078.00) =       | 92.9003                  | Pr =        | 0.000   |             |         |             |
| <b>Race</b>                           |                          |             |         |             |         |             |
| White (n=2,784)                       | 51.0                     | [45.1,56.8] | 63.0    | [61.0,65.0] | 61.2    | [59.3,63.0] |
| Black or African American (n=807)     | 34.2                     | [28.5,40.4] | 24.6    | [22.8,26.5] | 26.1    | [24.3,27.9] |
| Other (n=306)                         | 8.6                      | [5.8,12.6]  | 8.8     | [7.7,10.1]  | 8.8     | [7.7,10.0]  |
| More than one (n=142)                 | 6.2                      | [3.9,9.7]   | 3.6     | [2.9,4.5]   | 4.0     | [3.3,4.9]   |
| <b>Total</b> (n=4,039)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(3) =        | 39.9311                  |             |         |             |         |             |
| Design-based F(2.98, 11983.43) =      | 6.0386                   | Pr =        | 0.000   |             |         |             |
| <b>Hispanic/Latino</b>                |                          |             |         |             |         |             |
| Yes (n=188)                           | 4.8                      | [3.1,7.2]   | 5.3     | [4.4,6.4]   | 5.2     | [4.4,6.2]   |
| No (n=3,856)                          | 94.5                     | [91.7,96.4] | 94.3    | [93.1,95.2] | 94.3    | [93.3,95.2] |
| Don't know (n=12)                     | 0.7                      | [0.2,3.5]   | 0.4     | [0.2,0.8]   | 0.5     | [0.2,0.9]   |
| <b>Total</b> (n=4,056)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 1.5378                   |             |         |             |         |             |
| Design-based F(1.82, 7379.24) =       | 0.3733                   | Pr =        | 0.669   |             |         |             |
| <b>Arab, Chaldean, Middle Eastern</b> |                          |             |         |             |         |             |
| Yes (n=204)                           | 5.6                      | [3.3,9.4]   | 6.3     | [5.3,7.4]   | 6.2     | [5.3,7.2]   |
| No (n=3,842)                          | 94.1                     | [90.3,96.4] | 93.5    | [92.3,94.4] | 93.6    | [92.5,94.5] |
| Don't know (n=9)                      | 0.3                      | [0.0,2.1]   | 0.3     | [0.1,0.6]   | 0.3     | [0.1,0.6]   |
| <b>Total</b> (n=4,055)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 0.3785                   |             |         |             |         |             |
| Design-based F(1.95, 7885.12) =       | 0.0880                   | Pr =        | 0.912   |             |         |             |
| <b>Urbanicity</b>                     |                          |             |         |             |         |             |
| Urban (n=2,892)                       | 84.5                     | [81.0,87.5] | 80.4    | [79.3,81.5] | 81.0    | [80.0,82.0] |
| Suburban (n=400)                      | 7.5                      | [5.4,10.5]  | 9.0     | [8.1,10.0]  | 8.8     | [7.9,9.7]   |
| Rural (n=798)                         | 8.0                      | [6.2,10.2]  | 10.6    | [10.0,11.2] | 10.2    | [9.7,10.7]  |
| <b>Total</b> (n=4,090)                | 100.0                    |             | 100.0   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 5.9843                   |             |         |             |         |             |
| Design-based F(1.90, 7743.15) =       | 2.4765                   | Pr =        | 0.087   |             |         |             |

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|---|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Medicaid Health Plan</b>                           |              |             |              |             |              |             |
| Aetna (n=58)  | 2.7          | [1.3,5.5]   | 1.5          | [1.0,2.1]   | 1.7          | [1.2,2.3]   |
| Blue Cross (n=356)                                    | 13.5         | [9.5,18.9]  | 11.2         | [9.9,12.8]  | 11.6         | [10.2,13.1] |
| Harbor (n=18)   | 1.1          | [0.2,5.6]   | 0.7          | [0.4,1.2]   | 0.7          | [0.4,1.3]   |
| McLaren (n=633)                                       | 9.2          | [6.8,12.2]  | 13.7         | [12.5,15.1] | 13.0         | [11.9,14.2] |
| Meridian (n=1,265)                                    | 27.9         | [23.3,33.0] | 30.1         | [28.3,32.1] | 29.8         | [28.1,31.6] |
| Midwest (n=3)   | 0.0          |             | 0.1          | [0.0,0.2]   | 0.1          | [0.0,0.2]   |
| Molina (n=701)  | 19.5         | [15.1,24.8] | 17.7         | [16.2,19.3] | 18.0         | [16.5,19.5] |
| Priority (n=268)                                      | 5.7          | [3.9,8.4]   | 5.9          | [5.2,6.8]   | 5.9          | [5.2,6.7]   |
| Total Health Care (n=85)                              | 3.3          | [1.5,7.2]   | 2.8          | [2.1,3.6]   | 2.8          | [2.2,3.7]   |
| United (n=443)  | 13.9         | [10.2,18.7] | 13.1         | [11.7,14.6] | 13.2         | [11.8,14.7] |
| Upper Peninsula Health Plan (n=258)                   | 3.1          | [2.1,4.6]   | 3.2          | [2.8,3.6]   | 3.2          | [2.8,3.6]   |
| <b>Total (n=4,088)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(10) =                       | 19.9259      |             |              |             |              |             |
| Design-based F(8.02, 32707.10) =                      | 0.9346       | Pr =        | 0.486        |             |              |             |
| <b>Employment status</b>                              |              |             |              |             |              |             |
| Employed or self-employed (n=2,079)                   | 52.7         | [46.8,58.4] | 48.2         | [46.2,50.2] | 48.8         | [47.0,50.7] |
| Out of work >=1 year (n=707)                          | 20.7         | [16.4,25.9] | 19.5         | [17.8,21.2] | 19.7         | [18.1,21.3] |
| Out of work <1 year (n=258)                           | 13.9         | [10.0,19.1] | 6.8          | [5.8,7.9]   | 7.9          | [6.8,9.1]   |
| Homemaker (n=217)                                     | 2.4          | [1.1,5.0]   | 4.9          | [4.2,5.8]   | 4.5          | [3.8,5.3]   |
| Student (n=161)                                       | 7.2          | [4.7,10.9]  | 4.8          | [3.9,5.9]   | 5.2          | [4.3,6.2]   |
| Retired (n=167)                                       | 0.7          | [0.3,1.4]   | 2.8          | [2.3,3.5]   | 2.5          | [2.1,3.0]   |
| Unable to work (n=479)                                | 2.2          | [1.1,4.3]   | 12.9         | [11.6,14.3] | 11.3         | [10.1,12.5] |
| Don't know (n=7)                                      | 0.2          | [0.0,0.9]   | 0.2          | [0.1,0.4]   | 0.2          | [0.1,0.4]   |
| <b>Total (n=4,075)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(7) =                        | 112.2927     |             |              |             |              |             |
| Design-based F(6.06, 24619.94) =                      | 9.4801       | Pr =        | 0.000        |             |              |             |
| <b>Veteran</b>  |              |             |              |             |              |             |
| Yes (n=125)   | 3.3          | [1.8,5.8]   | 3.4          | [2.7,4.3]   | 3.4          | [2.7,4.2]   |
| No (n=3,958)  | 96.7         | [94.2,98.2] | 96.4         | [95.6,97.2] | 96.5         | [95.7,97.2] |
| Don't know (n=3)                                      | 0.0          |             | 0.2          | [0.0,0.6]   | 0.1          | [0.0,0.5]   |
| <b>Total (n=4,086)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                        | 0.9782       |             |              |             |              |             |
| Design-based F(1.94, 7904.21) =                       | 0.2195       | Pr =        | 0.796        |             |              |             |
| <b>Marital status</b>                                 |              |             |              |             |              |             |
| Married (n=1,008)                                     | 15.5         | [12.2,19.5] | 21.2         | [19.8,22.8] | 20.4         | [19.0,21.8] |
| Partnered (n=185)                                     | 3.9          | [2.1,6.9]   | 4.3          | [3.6,5.2]   | 4.3          | [3.6,5.1]   |
| Divorced (n=865)                                      | 13.8         | [10.6,17.9] | 18.9         | [17.4,20.5] | 18.2         | [16.8,19.6] |
| Widowed (n=147)                                       | 1.7          | [0.9,3.3]   | 3.0          | [2.4,3.7]   | 2.8          | [2.3,3.4]   |
| Separated (n=119)                                     | 1.1          | [0.6,2.3]   | 3.1          | [2.5,3.8]   | 2.8          | [2.3,3.4]   |
| Never Married (n=1,745)                               | 64.0         | [58.5,69.0] | 49.4         | [47.3,51.4] | 51.6         | [49.6,53.5] |
| Don't know (n=4)                                      | 0.0          |             | 0.1          | [0.0,0.3]   | 0.1          | [0.0,0.2]   |
| <b>Total (n=4,073)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =                        | 48.6902      |             |              |             |              |             |
| Design-based F(5.47, 22214.67) =                      | 5.6944       | Pr =        | 0.000        |             |              |             |
| <b>Any chronic health condition present</b>           |              |             |              |             |              |             |
| Yes (n=2,986)   | 41.8         | [36.3,47.5] | 74.1         | [72.2,75.9] | 69.2         | [67.3,71.0] |
| No (n=1,104)  | 58.2         | [52.5,63.7] | 25.9         | [24.1,27.8] | 30.8         | [29.0,32.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 258.9239     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 126.9085     | Pr =        | 0.000        |             |              |             |
| <b>At least one physical health condition present</b> |              |             |              |             |              |             |
| Yes (n=2,689)   | 34.5         | [29.4,40.1] | 65.5         | [63.5,67.5] | 60.8         | [58.8,62.8] |
| No (n=1,401)  | 65.5         | [59.9,70.6] | 34.5         | [32.5,36.5] | 39.2         | [37.2,41.2] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 212.9730     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 105.9885     | Pr =        | 0.000        |             |              |             |
| <b>At least one mental health condition present</b>   |              |             |              |             |              |             |
| Yes (n=1,351)   | 18.3         | [14.5,22.9] | 34.6         | [32.7,36.6] | 32.1         | [30.3,33.9] |
| No (n=2,739)  | 81.7         | [77.1,85.5] | 65.4         | [63.4,67.3] | 67.9         | [66.1,69.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 64.5335      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 34.4144      | Pr =        | 0.000        |             |              |             |

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|---|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Other household HMP enrollee</b>                 |              |             |              |             |              |             |
| Yes (n=1,592)                                       | 32.8         | [27.9,38.0] | 36.2         | [34.4,38.1] | 35.7         | [34.0,37.5] |
| No (n=2,289)  | 57.4         | [51.6,63.0] | 58.1         | [56.1,60.0] | 58.0         | [56.1,59.8] |
| Don't know (n=201)                                  | 9.9          | [6.3,15.2]  | 5.7          | [4.7,6.9]   | 6.3          | [5.3,7.6]   |
| <b>Total (n=4,082)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 15.9988      |             |              |             |              |             |
| Design-based F(1.86, 7565.99) =                     | 3.2445       | Pr =        | 0.043        |             |              |             |
| <b>Help reading written materials</b>               |              |             |              |             |              |             |
| Never (n=3,031)                                     | 72.5         | [67.0,77.4] | 72.6         | [70.7,74.5] | 72.6         | [70.8,74.3] |
| Rarely (n=413)                                      | 12.7         | [9.4,16.9]  | 10.3         | [9.1,11.7]  | 10.6         | [9.5,12.0]  |
| Sometimes (n=390)                                   | 11.3         | [7.9,16.0]  | 10.5         | [9.2,11.8]  | 10.6         | [9.4,11.9]  |
| Often (n=94)  | 1.7          | [0.8,3.9]   | 2.5          | [1.9,3.2]   | 2.4          | [1.8,3.1]   |
| Always (n=157)                                      | 1.7          | [0.9,3.2]   | 4.1          | [3.4,5.0]   | 3.7          | [3.1,4.5]   |
| Don't know (n=3)                                    | 0.1          | [0.0,0.5]   | 0.0          | [0.0,0.1]   | 0.0          | [0.0,0.1]   |
| <b>Total (n=4,088)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(5) =                      | 12.5557      |             |              |             |              |             |
| Design-based F(4.19, 17059.43) =                    | 1.5902       | Pr =        | 0.171        |             |              |             |
| <b>High ER utilizers</b>                            |              |             |              |             |              |             |
| Yes (n=156)   | 2.0          | [0.8,4.8]   | 4.9          | [4.0,5.9]   | 4.4          | [3.6,5.4]   |
| No (n=3,934)  | 98.0         | [95.2,99.2] | 95.1         | [94.1,96.0] | 95.6         | [94.6,96.4] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 10.1439      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 4.0189       | Pr =        | 0.045        |             |              |             |
| <b>Chronic disease (HEDIS)</b>                      |              |             |              |             |              |             |
| Chronic disease (HEDIS) (n=1,161)                   | 4.0          | [2.6,6.3]   | 28.9         | [27.1,30.8] | 25.1         | [23.5,26.8] |
| No chronic disease (n=2,929)                        | 96.0         | [93.7,97.4] | 71.1         | [69.2,72.9] | 74.9         | [73.2,76.5] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 173.8395     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 122.9532     | Pr =        | 0.000        |             |              |             |
| <b>Mental health/substance use disorder (HEDIS)</b> |              |             |              |             |              |             |
| MH/SA (HEDIS) (n=2,034)                             | 22.8         | [18.2,28.1] | 52.9         | [50.8,55.0] | 48.3         | [46.4,50.3] |
| No MH/SA (n=2,056)                                  | 77.2         | [71.9,81.8] | 47.1         | [45.0,49.2] | 51.7         | [49.7,53.6] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 191.7870     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 87.9259      | Pr =        | 0.000        |             |              |             |
| <b>Any insurance pre-HMP</b>                        |              |             |              |             |              |             |
| Yes (n=1,667)                                       | 33.0         | [27.9,38.7] | 42.1         | [40.0,44.1] | 40.7         | [38.8,42.6] |
| No (n=2,374)  | 65.2         | [59.6,70.5] | 56.5         | [54.5,58.6] | 57.9         | [55.9,59.8] |
| Don't know (n=46)                                   | 1.7          | [0.8,3.9]   | 1.4          | [0.9,2.1]   | 1.4          | [1.0,2.1]   |
| <b>Total (n=4,087)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 17.9403      |             |              |             |              |             |
| Design-based F(2.00, 8148.76) =                     | 4.3892       | Pr =        | 0.012        |             |              |             |
| <b>Insurance duration pre-HMP</b>                   |              |             |              |             |              |             |
| All 12 months (n=1,235)                             | 68.8         | [59.5,76.9] | 74.6         | [71.6,77.3] | 73.8         | [71.1,76.5] |
| 6-11 months (n=245)                                 | 13.4         | [8.1,21.5]  | 15.4         | [13.2,18.0] | 15.2         | [13.0,17.6] |
| Less than 6 months (n=129)                          | 13.8         | [8.7,21.2]  | 6.7          | [5.3,8.4]   | 7.6          | [6.2,9.3]   |
| Don't know (n=58)                                   | 3.9          | [1.7,8.8]   | 3.3          | [2.3,4.7]   | 3.4          | [2.5,4.7]   |
| <b>Total (n=1,667)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =                      | 13.5761      |             |              |             |              |             |
| Design-based F(2.96, 4898.72) =                     | 2.6204       | Pr =        | 0.050        |             |              |             |
| <b>Insurance: Private, job</b>                      |              |             |              |             |              |             |
| Yes (n=409)   | 23.5         | [16.2,32.8] | 26.6         | [23.8,29.6] | 26.2         | [23.6,29.0] |
| No (n=1,213)  | 76.5         | [67.2,83.8] | 73.4         | [70.4,76.2] | 73.8         | [71.0,76.4] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 0.8796       |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                     | 0.4491       | Pr =        | 0.503        |             |              |             |
| <b>Insurance: Private, self</b>                     |              |             |              |             |              |             |
| Yes (n=157)   | 14.5         | [7.8,25.5]  | 9.6          | [7.7,12.0]  | 10.2         | [8.3,12.6]  |
| No (n=1,465)  | 85.5         | [74.5,92.2] | 90.4         | [88.0,92.3] | 89.8         | [87.4,91.7] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 4.4813       |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                     | 1.5205       | Pr =        | 0.218        |             |              |             |

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|--|---------|-------------|--------------|-------------|--------------|-------------|
| <b>Healthcare.gov insurance</b>                    |         |             |              |             |              |             |
| Yes (n=59)   | 29.3    | [10.5,59.5] | 31.9         | [22.8,42.7] | 31.5         | [22.6,41.9] |
| No (n=75)  | 55.9    | [26.5,81.7] | 55.3         | [43.7,66.4] | 55.4         | [44.1,66.2] |
| Don't know (n=18)                                  | 14.8    | [4.9,37.1]  | 12.8         | [6.7,22.9]  | 13.1         | [7.6,21.7]  |
| <b>Total (n=152)</b>                               | 100.0   |             | 100.0        |             | 100.0        |             |
| Pearson: Uncorrected chi2(2) =                     | 0.1212  |             |              |             |              |             |
| Design-based F(1.82, 255.37) =                     | 0.0323  | Pr =        | 0.959        |             |              |             |
| <b>Insurance subsidy</b>                           |         |             |              |             |              |             |
| Yes (n=37)   | 53.6    | [10.4,92.0] | 63.4         | [46.7,77.4] | 61.8         | [43.9,76.9] |
| No (n=18)  | 9.9     | [1.2,50.8]  | 32.8         | [19.4,49.6] | 29.0         | [18.1,43.1] |
| Don't know (n=4)                                   | 36.5    | [4.5,87.6]  | 3.9          | [1.1,12.5]  | 9.3          | [2.2,31.3]  |
| <b>Total (n=59)</b>                                | 100.0   |             | 100.0        |             | 100.0        |             |
| Pearson: Uncorrected chi2(2) =                     | 10.9679 |             |              |             |              |             |
| Design-based F(1.84, 88.42) =                      | 3.5369  | Pr =        | 0.037        |             |              |             |
| <b>Insurance: Medicaid</b>                         |         |             |              |             |              |             |
| Yes (n=834)  | 49.2    | [39.3,59.1] | 51.0         | [47.7,54.2] | 50.8         | [47.7,53.9] |
| No (n=788)   | 50.8    | [40.9,60.7] | 49.0         | [45.8,52.3] | 49.2         | [46.1,52.3] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |             | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 0.2301  |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.1131  | Pr =        | 0.737        |             |              |             |
| <b>Insurance: VA</b>                               |         |             |              |             |              |             |
| Yes (n=21)   | 2.6     | [0.9,7.0]   | 1.2          | [0.6,2.2]   | 1.4          | [0.8,2.3]   |
| No (n=1,601)                                       | 97.4    | [93.0,99.1] | 98.8         | [97.8,99.4] | 98.6         | [97.7,99.2] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |             | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 2.5862  |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                    | 1.7355  | Pr =        | 0.188        |             |              |             |
| <b>Insurance: Indian Health Service</b>            |         |             |              |             |              |             |
| Yes (n=3)  | 0.0     | 0.1         | [0.0,0.3]    | 0.1         | [0.0,0.3]    |             |
| No (n=1,619)                                       | 100.0   | 99.9        | [99.7,100.0] | 99.9        | [99.7,100.0] |             |
| <b>Total (n=1,622)</b>                             | 100.0   | 100.0       |              | 100.0       |              |             |
| Pearson: Uncorrected chi2(1) =                     | 0.1917  |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.3981  | Pr =        | 0.528        |             |              |             |
| <b>Insurance: CHAMPUS, TRICARE, other military</b> |         |             |              |             |              |             |
| Yes (n=3)  | 0.0     | 0.4         | [0.1,1.4]    | 0.3         | [0.1,1.2]    |             |
| No (n=1,619)                                       | 100.0   | 99.6        | [98.6,99.9]  | 99.7        | [98.8,99.9]  |             |
| <b>Total (n=1,622)</b>                             | 100.0   | 100.0       |              | 100.0       |              |             |
| Pearson: Uncorrected chi2(1) =                     | 0.7399  |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.3135  | Pr =        | 0.576        |             |              |             |
| <b>Insurance: Medicare</b>                         |         |             |              |             |              |             |
| Yes (n=5)  | 0.0     | 0.3         | [0.1,0.8]    | 0.3         | [0.1,0.7]    |             |
| No (n=1,617)                                       | 100.0   | 99.7        | [99.2,99.9]  | 99.7        | [99.3,99.9]  |             |
| <b>Total (n=1,622)</b>                             | 100.0   | 100.0       |              | 100.0       |              |             |
| Pearson: Uncorrected chi2(1) =                     | 0.6438  |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.6321  | Pr =        | 0.427        |             |              |             |
| <b>Insurance: County health plan</b>               |         |             |              |             |              |             |
| Yes (n=127)  | 2.8     | [1.1,6.7]   | 6.8          | [5.6,8.3]   | 6.3          | [5.2,7.7]   |
| No (n=1,495)                                       | 97.2    | [93.3,98.9] | 93.2         | [91.7,94.4] | 93.7         | [92.3,94.8] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |             | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 4.7126  |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                    | 4.0066  | Pr =        | 0.045        |             |              |             |
| <b>Insurance: Other, record info</b>               |         |             |              |             |              |             |
| Yes (n=83)   | 8.6     | [4.1,17.1]  | 5.2          | [3.9,6.8]   | 5.6          | [4.3,7.3]   |
| No (n=1,539)                                       | 91.4    | [82.9,95.9] | 94.8         | [93.2,96.1] | 94.4         | [92.7,95.7] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |             | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 3.8206  |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                    | 1.6191  | Pr =        | 0.203        |             |              |             |

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| <b>Unspecified on someone else's insurance</b> |        |             |       |             |       |             |
| Yes (n=21)                                     | 1.8    | [0.6,5.1]   | 0.6   | [0.4,1.1]   | 0.8   | [0.5,1.4]   |
| No (n=4,069)                                   | 98.2   | [94.9,99.4] | 99.4  | [98.9,99.6] | 99.2  | [98.6,99.5] |
| <b>Total (n=4,090)</b>                         | 100.0  |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(1) =                 | 9.4417 |             |       |             |       |             |
| Design-based F(1.00, 4078.00) =                | 3.3875 | Pr =        | 0.066 |             |       |             |
| <b>Insurance: Don't know</b>                   |        |             |       |             |       |             |
| Yes (n=23)                                     | 2.1    | [0.6,7.3]   | 1.1   | [0.7,1.8]   | 1.2   | [0.8,1.9]   |
| No (n=1,599)                                   | 97.9   | [92.7,99.4] | 98.9  | [98.2,99.3] | 98.8  | [98.1,99.2] |
| <b>Total (n=1,622)</b>                         | 100.0  |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(1) =                 | 1.3500 |             |       |             |       |             |
| Design-based F(1.00, 1610.00) =                | 0.8271 | Pr =        | 0.363 |             |       |             |

## 2.5 Demographics Table based on ER Utilization

Universe: All respondents

|                                       | Yes     |             | High ER utilizers<br>No |             | Total   |             |
|---------------------------------------|---------|-------------|-------------------------|-------------|---------|-------------|
|                                       | Percent | 95%CI       | Percent                 | 95%CI       | Percent | 95%CI       |
| <b>FPL category</b>                   |         |             |                         |             |         |             |
| 0-35% (n=1,600)                       | 64.0    | [54.9,72.2] | 51.3                    | [50.2,52.3] | 51.8    | [50.8,52.8] |
| 36-99% (n=1,450)                      | 23.6    | [17.1,31.7] | 28.6                    | [27.7,29.5] | 28.4    | [27.6,29.3] |
| ≥ 100% (n = 1,040)                    | 12.4    | [7.9,18.8]  | 20.1                    | [19.4,20.8] | 19.8    | [19.1,20.4] |
| <b>Total</b> (n=4,090)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 12.1465 |             |                         |             |         |             |
| Design-based F(1.95, 7964.05) =       | 4.3746  | Pr =        | 0.013                   |             |         |             |
| <b>Region</b>                         |         |             |                         |             |         |             |
| UP/NW/NE (n=746)                      | 6.2     | [3.7,10.1]  | 9.1                     | [8.7,9.5]   | 9.0     | [8.6,9.4]   |
| W/E Central/E (n=1,265)               | 29.0    | [21.5,37.7] | 28.6                    | [27.7,29.5] | 28.6    | [27.8,29.4] |
| S Central/SW/SE (n=837)               | 22.0    | [15.9,29.7] | 18.4                    | [17.6,19.3] | 18.6    | [17.8,19.3] |
| Detroit Metro (n=1,242)               | 42.8    | [32.8,53.4] | 43.9                    | [42.8,45.0] | 43.8    | [42.8,44.9] |
| <b>Total</b> (n=4,090)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(3) =        | 2.9173  |             |                         |             |         |             |
| Design-based F(2.54, 10346.62) =      | 0.7052  | Pr =        | 0.526                   |             |         |             |
| <b>Age</b>                            |         |             |                         |             |         |             |
| 19-34 (n=1,303)                       | 52.2    | [42.1,62.1] | 39.4                    | [37.4,41.4] | 40.0    | [38.0,42.0] |
| 35-50 (n=1,301)                       | 39.8    | [30.3,50.1] | 33.7                    | [31.8,35.7] | 34.0    | [32.1,35.9] |
| 51-64 (n=1,486)                       | 8.1     | [4.6,13.7]  | 26.9                    | [25.3,28.5] | 26.0    | [24.5,27.6] |
| <b>Total</b> (n=4,090)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 32.4084 |             |                         |             |         |             |
| Design-based F(1.89, 7696.66) =       | 10.0286 | Pr =        | 0.000                   |             |         |             |
| <b>Gender</b>                         |         |             |                         |             |         |             |
| Male (n=1,681)                        | 36.0    | [27.0,46.1] | 49.0                    | [47.0,51.0] | 48.4    | [46.5,50.4] |
| Female (n=2,409)                      | 64.0    | [53.9,73.0] | 51.0                    | [49.0,53.0] | 51.6    | [49.6,53.5] |
| <b>Total</b> (n=4,090)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(1) =        | 11.7672 |             |                         |             |         |             |
| Design-based F(1.00, 4078.00) =       | 6.2347  | Pr =        | 0.013                   |             |         |             |
| <b>Race</b>                           |         |             |                         |             |         |             |
| White (n=2,784)                       | 63.2    | [53.1,72.3] | 61.1                    | [59.1,63.0] | 61.2    | [59.3,63.0] |
| Black or African American (n=807)     | 29.1    | [20.7,39.2] | 25.9                    | [24.2,27.8] | 26.1    | [24.3,27.9] |
| Other (n=306)                         | 5.1     | [2.3,10.7]  | 8.9                     | [7.8,10.2]  | 8.8     | [7.7,10.0]  |
| More than one (n=142)                 | 2.6     | [0.9,7.2]   | 4.1                     | [3.3,5.0]   | 4.0     | [3.3,4.9]   |
| <b>Total</b> (n=4,039)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(3) =        | 4.6149  |             |                         |             |         |             |
| Design-based F(2.91, 11732.57) =      | 0.9540  | Pr =        | 0.412                   |             |         |             |
| <b>Hispanic/Latino</b>                |         |             |                         |             |         |             |
| Yes (n=188)                           | 5.5     | [2.4,12.2]  | 5.2                     | [4.4,6.2]   | 5.2     | [4.4,6.2]   |
| No (n=3,856)                          | 93.3    | [86.1,96.9] | 94.4                    | [93.3,95.2] | 94.3    | [93.3,95.2] |
| Don't know (n=12)                     | 1.2     | [0.2,8.3]   | 0.4                     | [0.2,0.8]   | 0.5     | [0.2,0.9]   |
| <b>Total</b> (n=4,056)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 2.5761  |             |                         |             |         |             |
| Design-based F(1.98, 8014.18) =       | 0.6330  | Pr =        | 0.530                   |             |         |             |
| <b>Arab, Chaldean, Middle Eastern</b> |         |             |                         |             |         |             |
| Yes (n=204)                           | 2.5     | [0.7,8.5]   | 6.3                     | [5.4,7.4]   | 6.2     | [5.3,7.2]   |
| No (n=3,842)                          | 97.5    | [91.5,99.3] | 93.4                    | [92.3,94.3] | 93.6    | [92.5,94.5] |
| Don't know (n=9)                      | 0.0     |             | 0.3                     | [0.1,0.6]   | 0.3     | [0.1,0.6]   |
| <b>Total</b> (n=4,055)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 4.9519  |             |                         |             |         |             |
| Design-based F(1.98, 8014.64) =       | 1.4218  | Pr =        | 0.241                   |             |         |             |
| <b>Urbanicity</b>                     |         |             |                         |             |         |             |
| Urban (n=2,892)                       | 84.2    | [77.7,89.0] | 80.9                    | [79.8,81.9] | 81.0    | [80.0,82.0] |
| Suburban (n=400)                      | 9.3     | [5.6,15.1]  | 8.8                     | [7.9,9.7]   | 8.8     | [7.9,9.7]   |
| Rural (n=798)                         | 6.5     | [4.0,10.5]  | 10.4                    | [9.8,10.9]  | 10.2    | [9.7,10.7]  |
| <b>Total</b> (n=4,090)                | 100.0   |             | 100.0                   |             | 100.0   |             |
| Pearson: Uncorrected chi2(2) =        | 2.7641  |             |                         |             |         |             |
| Design-based F(1.90, 7759.61) =       | 1.3730  | Pr =        | 0.253                   |             |         |             |

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|---|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Medicaid Health Plan</b>                           |              |             |              |             |              |             |
| Aetna (n=58)  | 1.6          | [0.5,4.9]   | 1.7          | [1.2,2.3]   | 1.7          | [1.2,2.3]   |
| Blue Cross (n=356)                                    | 15.2         | [8.1,26.6]  | 11.4         | [10.1,12.9] | 11.6         | [10.2,13.1] |
| Harbor (n=18)   | 0.0          |             | 0.8          | [0.4,1.4]   | 0.7          | [0.4,1.3]   |
| McLaren (n=633)                                       | 13.1         | [8.5,19.8]  | 13.0         | [11.9,14.3] | 13.0         | [11.9,14.2] |
| Meridian (n=1,265)                                    | 33.0         | [24.3,43.1] | 29.7         | [27.9,31.5] | 29.8         | [28.1,31.6] |
| Midwest (n=3)   | 0.0          |             | 0.1          | [0.0,0.2]   | 0.1          | [0.0,0.2]   |
| Molina (n=701)  | 20.0         | [12.9,29.5] | 17.9         | [16.4,19.5] | 18.0         | [16.5,19.5] |
| Priority (n=268)                                      | 5.1          | [2.6,9.8]   | 5.9          | [5.2,6.8]   | 5.9          | [5.2,6.7]   |
| Total Health Care (n=85)                              | 3.5          | [1.3,9.1]   | 2.8          | [2.2,3.7]   | 2.8          | [2.2,3.7]   |
| United (n=443)  | 7.1          | [3.6,13.4]  | 13.5         | [12.1,15.0] | 13.2         | [11.8,14.7] |
| Upper Peninsula Health Plan (n=258)                   | 1.4          | [0.5,3.7]   | 3.3          | [2.9,3.7]   | 3.2          | [2.8,3.6]   |
| <b>Total (n=4,088)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(10) =                       | 12.4452      |             |              |             |              |             |
| Design-based F(8.23, 33561.98) =                      | 0.7954       | Pr =        | 0.610        |             |              |             |
| <b>Employment status</b>                              |              |             |              |             |              |             |
| Employed or self-employed (n=2,079)                   | 40.8         | [31.2,51.2] | 49.2         | [47.3,51.1] | 48.8         | [47.0,50.7] |
| Out of work >=1 year (n=707)                          | 19.8         | [12.5,30.1] | 19.7         | [18.1,21.3] | 19.7         | [18.1,21.3] |
| Out of work <1 year (n=258)                           | 10.6         | [6.1,17.7]  | 7.7          | [6.7,9.0]   | 7.9          | [6.8,9.1]   |
| Homemaker (n=217)                                     | 6.3          | [2.6,14.6]  | 4.4          | [3.8,5.2]   | 4.5          | [3.8,5.3]   |
| Student (n=161)                                       | 1.1          | [0.3,4.5]   | 5.4          | [4.4,6.5]   | 5.2          | [4.3,6.2]   |
| Retired (n=167)                                       | 0.9          | [0.3,2.9]   | 2.6          | [2.1,3.1]   | 2.5          | [2.1,3.0]   |
| Unable to work (n=479)                                | 19.8         | [13.5,28.0] | 10.9         | [9.7,12.1]  | 11.3         | [10.1,12.5] |
| Don't know (n=7)                                      | 0.7          | [0.1,4.6]   | 0.1          | [0.1,0.4]   | 0.2          | [0.1,0.4]   |
| <b>Total (n=4,075)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(7) =                        | 28.4732      |             |              |             |              |             |
| Design-based F(6.10, 24779.19) =                      | 2.6654       | Pr =        | 0.013        |             |              |             |
| <b>Veteran</b>  |              |             |              |             |              |             |
| Yes (n=125)   | 3.4          | [1.4,8.2]   | 3.4          | [2.7,4.2]   | 3.4          | [2.7,4.2]   |
| No (n=3,958)  | 96.6         | [91.8,98.6] | 96.5         | [95.7,97.2] | 96.5         | [95.7,97.2] |
| Don't know (n=3)                                      | 0.0          |             | 0.1          | [0.0,0.5]   | 0.1          | [0.0,0.5]   |
| <b>Total (n=4,086)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                        | 0.2461       |             |              |             |              |             |
| Design-based F(1.82, 7416.34) =                       | 0.0621       | Pr =        | 0.926        |             |              |             |
| <b>Marital status</b>                                 |              |             |              |             |              |             |
| Married (n=1,008)                                     | 14.4         | [9.3,21.7]  | 20.6         | [19.2,22.1] | 20.4         | [19.0,21.8] |
| Partnered (n=185)                                     | 2.7          | [1.2,6.0]   | 4.3          | [3.7,5.2]   | 4.3          | [3.6,5.1]   |
| Divorced (n=865)                                      | 26.3         | [18.0,36.7] | 17.8         | [16.4,19.2] | 18.2         | [16.8,19.6] |
| Widowed (n=147)                                       | 2.3          | [0.7,7.6]   | 2.8          | [2.3,3.4]   | 2.8          | [2.3,3.4]   |
| Separated (n=119)                                     | 2.9          | [1.2,6.9]   | 2.8          | [2.2,3.5]   | 2.8          | [2.3,3.4]   |
| Never Married (n=1,745)                               | 51.4         | [41.3,61.3] | 51.6         | [49.6,53.5] | 51.6         | [49.6,53.5] |
| Don't know (n=4)                                      | 0.0          |             | 0.1          | [0.0,0.3]   | 0.1          | [0.0,0.2]   |
| <b>Total (n=4,073)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =                        | 11.5710      |             |              |             |              |             |
| Design-based F(5.44, 22092.04) =                      | 1.4239       | Pr =        | 0.207        |             |              |             |
| <b>Any chronic health condition present</b>           |              |             |              |             |              |             |
| Yes (n=2,986)   | 82.3         | [74.1,88.3] | 68.6         | [66.6,70.5] | 69.2         | [67.3,71.0] |
| No (n=1,104)  | 17.7         | [11.7,25.9] | 31.4         | [29.5,33.4] | 30.8         | [29.0,32.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 15.3146      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 9.4350       | Pr =        | 0.002        |             |              |             |
| <b>At least one physical health condition present</b> |              |             |              |             |              |             |
| Yes (n=2,689)   | 68.2         | [57.3,77.4] | 60.4         | [58.4,62.4] | 60.8         | [58.8,62.8] |
| No (n=1,401)  | 31.8         | [22.6,42.7] | 39.6         | [37.6,41.6] | 39.2         | [37.2,41.2] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 4.3965       |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 1.9808       | Pr =        | 0.159        |             |              |             |
| <b>At least one mental health condition present</b>   |              |             |              |             |              |             |
| Yes (n=1,351)   | 55.8         | [45.7,65.5] | 31.0         | [29.2,32.9] | 32.1         | [30.3,33.9] |
| No (n=2,739)  | 44.2         | [34.5,54.3] | 69.0         | [67.1,70.8] | 67.9         | [66.1,69.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 48.7653      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 25.7371      | Pr =        | 0.000        |             |              |             |

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|   |              |             |              |             |              |             |
|---|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Other household HMP enrollee</b>                 |              |             |              |             |              |             |
| Yes (n=1,592)                                       | 35.5         | [27.1,44.9] | 35.7         | [33.9,37.5] | 35.7         | [34.0,37.5] |
| No (n=2,289)  | 57.3         | [47.6,66.6] | 58.0         | [56.0,59.9] | 58.0         | [56.1,59.8] |
| Don't know (n=201)                                  | 7.2          | [3.6,13.8]  | 6.3          | [5.2,7.6]   | 6.3          | [5.3,7.6]   |
| <b>Total (n=4,082)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 0.2203       |             |              |             |              |             |
| Design-based F(1.99, 8096.17) =                     | 0.0647       | Pr =        | 0.937        |             |              |             |
| <b>Help reading written materials</b>               |              |             |              |             |              |             |
| Never (n=3,031)                                     | 66.9         | [56.9,75.6] | 72.9         | [71.0,74.6] | 72.6         | [70.8,74.3] |
| Rarely (n=413)                                      | 11.1         | [6.6,18.1]  | 10.6         | [9.4,12.0]  | 10.6         | [9.5,12.0]  |
| Sometimes (n=390)                                   | 14.2         | [8.0,23.8]  | 10.4         | [9.2,11.8]  | 10.6         | [9.4,11.9]  |
| Often (n=94)  | 2.2          | [0.9,5.5]   | 2.4          | [1.8,3.1]   | 2.4          | [1.8,3.1]   |
| Always (n=157)                                      | 5.7          | [2.6,11.7]  | 3.6          | [3.0,4.4]   | 3.7          | [3.1,4.5]   |
| Don't know (n=3)                                    | 0.0          |             | 0.0          | [0.0,0.1]   | 0.0          | [0.0,0.1]   |
| <b>Total (n=4,088)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(5) =                      | 5.1236       |             |              |             |              |             |
| Design-based F(4.21, 17170.27) =                    | 0.7439       | Pr =        | 0.569        |             |              |             |
| <b>Low healthcare utilizers</b>                     |              |             |              |             |              |             |
| Yes (n=491)   | 6.9          | [2.9,15.7]  | 15.6         | [14.1,17.3] | 15.2         | [13.7,16.9] |
| No (n=3,599)  | 93.1         | [84.3,97.1] | 84.4         | [82.7,85.9] | 84.8         | [83.1,86.3] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 10.1439      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 4.0189       | Pr =        | 0.045        |             |              |             |
| <b>Chronic disease (HEDIS)</b>                      |              |             |              |             |              |             |
| Chronic disease (HEDIS) (n=1,161)                   | 36.9         | [28.1,46.6] | 24.6         | [23.0,26.2] | 25.1         | [23.5,26.8] |
| No chronic disease (n=2,929)                        | 63.1         | [53.4,71.9] | 75.4         | [73.8,77.0] | 74.9         | [73.2,76.5] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 13.9310      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 7.9572       | Pr =        | 0.005        |             |              |             |
| <b>Mental health/substance use disorder (HEDIS)</b> |              |             |              |             |              |             |
| MH/SA (HEDIS) (n=2,034)                             | 84.0         | [75.7,89.8] | 46.7         | [44.7,48.7] | 48.3         | [46.4,50.3] |
| No MH/SA (n=2,056)                                  | 16.0         | [10.2,24.3] | 53.3         | [51.3,55.3] | 51.7         | [49.7,53.6] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 96.1607      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 56.6746      | Pr =        | 0.000        |             |              |             |
| <b>Any insurance pre-HMP</b>                        |              |             |              |             |              |             |
| Yes (n=1,667)                                       | 43.2         | [33.3,53.7] | 40.6         | [38.6,42.5] | 40.7         | [38.8,42.6] |
| No (n=2,374)  | 55.4         | [44.9,65.3] | 58.0         | [56.0,59.9] | 57.9         | [55.9,59.8] |
| Don't know (n=46)                                   | 1.4          | [0.3,6.0]   | 1.4          | [1.0,2.1]   | 1.4          | [1.0,2.1]   |
| <b>Total (n=4,087)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 0.4999       |             |              |             |              |             |
| Design-based F(1.95, 7962.26) =                     | 0.1424       | Pr =        | 0.863        |             |              |             |
| <b>Insurance duration pre-HMP</b>                   |              |             |              |             |              |             |
| All 12 months (n=1,235)                             | 77.4         | [63.1,87.3] | 73.7         | [70.8,76.3] | 73.8         | [71.1,76.5] |
| 6-11 months (n=245)                                 | 14.4         | [6.8,28.1]  | 15.2         | [13.0,17.7] | 15.2         | [13.0,17.6] |
| Less than 6 months (n=129)                          | 4.3          | [1.3,14.0]  | 7.7          | [6.3,9.5]   | 7.6          | [6.2,9.3]   |
| Don't know (n=58)                                   | 3.8          | [1.3,10.4]  | 3.4          | [2.4,4.7]   | 3.4          | [2.5,4.7]   |
| <b>Total (n=1,667)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =                      | 1.3330       |             |              |             |              |             |
| Design-based F(2.78, 4608.39) =                     | 0.3269       | Pr =        | 0.791        |             |              |             |
| <b>Insurance: Private, job</b>                      |              |             |              |             |              |             |
| Yes (n=409)   | 10.0         | [4.6,20.3]  | 27.0         | [24.3,29.9] | 26.2         | [23.6,29.0] |
| No (n=1,213)  | 90.0         | [79.7,95.4] | 73.0         | [70.1,75.7] | 73.8         | [71.0,76.4] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 10.6710      |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                     | 8.7742       | Pr =        | 0.003        |             |              |             |
| <b>Insurance: Private, self</b>                     |              |             |              |             |              |             |
| Yes (n=157)   | 15.0         | [4.6,38.9]  | 10.0         | [8.1,12.3]  | 10.2         | [8.3,12.6]  |
| No (n=1,465)  | 85.0         | [61.1,95.4] | 90.0         | [87.7,91.9] | 89.8         | [87.4,91.7] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 1.8973       |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                     | 0.4783       | Pr =        | 0.489        |             |              |             |

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|  |         |             |              |              |              |             |
|--|---------|-------------|--------------|--------------|--------------|-------------|
| <b>Healthcare.gov insurance</b>                    |         |             |              |              |              |             |
| Yes (n=59)   | 5.3     | [0.5,37.0]  | 33.4         | [24.2,44.1]  | 31.5         | [22.6,41.9] |
| No (n=75)  | 94.7    | [63.0,99.5] | 52.5         | [41.0,63.7]  | 55.4         | [44.1,66.2] |
| Don't know (n=18)                                  | 0.0     |             | 14.1         | [8.2,23.2]   | 13.1         | [7.6,21.7]  |
| <b>Total (n=152)</b>                               | 100.0   |             | 100.0        |              | 100.0        |             |
| Pearson: Uncorrected chi2(2) =                     | 7.0652  |             |              |              |              |             |
| Design-based F(1.34, 187.93) =                     | 1.8170  | Pr =        | 0.177        |              |              |             |
| <b>Insurance subsidy</b>                           |         |             |              |              |              |             |
| Yes (n=37)   | 0.0     | 62.5        | [44.4,77.7]  | 61.8         | [43.9,76.9]  |             |
| No (n=18)  | 0.0     | 29.3        | [18.3,43.5]  | 29.0         | [18.1,43.1]  |             |
| Don't know (n=4)                                   | 100.0   | 8.2         | [1.7,32.0]   | 9.3          | [2.2,31.3]   |             |
| <b>Total (n=59)</b>                                | 100.0   | 100.0       |              | 100.0        |              |             |
| Pearson: Uncorrected chi2(2) =                     | 6.7494  |             |              |              |              |             |
| Design-based F(1.91, 91.90) =                      | 3.0235  | Pr =        | 0.056        |              |              |             |
| <b>Insurance: Medicaid</b>                         |         |             |              |              |              |             |
| Yes (n=834)  | 64.6    | [45.6,79.9] | 50.1         | [47.0,53.2]  | 50.8         | [47.7,53.9] |
| No (n=788)   | 35.4    | [20.1,54.4] | 49.9         | [46.8,53.0]  | 49.2         | [46.1,52.3] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |              | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 6.0083  |             |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 2.2642  | Pr =        | 0.133        |              |              |             |
| <b>Insurance: VA</b>                               |         |             |              |              |              |             |
| Yes (n=21)   | 0.8     | [0.1,5.7]   | 1.4          | [0.8,2.4]    | 1.4          | [0.8,2.3]   |
| No (n=1,601)                                       | 99.2    | [94.3,99.9] | 98.6         | [97.6,99.2]  | 98.6         | [97.7,99.2] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |              | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 0.1737  |             |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.2666  | Pr =        | 0.606        |              |              |             |
| <b>Insurance: Indian Health Service</b>            |         |             |              |              |              |             |
| Yes (n=3)  | 0.0     | 0.1         | [0.0,0.3]    | 0.1          | [0.0,0.3]    |             |
| No (n=1,619)                                       | 100.0   | 99.9        | [99.7,100.0] | 99.9         | [99.7,100.0] |             |
| <b>Total (n=1,622)</b>                             | 100.0   | 100.0       |              | 100.0        |              |             |
| Pearson: Uncorrected chi2(1) =                     | 0.0664  |             |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.1310  | Pr =        | 0.717        |              |              |             |
| <b>Insurance: CHAMPUS, TRICARE, other military</b> |         |             |              |              |              |             |
| Yes (n=3)  | 4.2     | [0.6,24.6]  | 0.1          | [0.0,0.6]    | 0.3          | [0.1,1.2]   |
| No (n=1,619)                                       | 95.8    | [75.4,99.4] | 99.9         | [99.4,100.0] | 99.7         | [98.8,99.9] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |              | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 36.9472 |             |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 18.4921 | Pr =        | 0.000        |              |              |             |
| <b>Insurance: Medicare</b>                         |         |             |              |              |              |             |
| Yes (n=5)  | 1.4     | [0.2,9.3]   | 0.2          | [0.1,0.6]    | 0.3          | [0.1,0.7]   |
| No (n=1,617)                                       | 98.6    | [90.7,99.8] | 99.8         | [99.4,99.9]  | 99.7         | [99.3,99.9] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |              | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 3.2988  |             |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 3.1855  | Pr =        | 0.074        |              |              |             |
| <b>Insurance: County health plan</b>               |         |             |              |              |              |             |
| Yes (n=127)  | 1.6     | [0.4,6.7]   | 6.6          | [5.4,8.0]    | 6.3          | [5.2,7.7]   |
| No (n=1,495)                                       | 98.4    | [93.3,99.6] | 93.4         | [92.0,94.6]  | 93.7         | [92.3,94.8] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |              | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 2.9139  |             |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 4.2929  | Pr =        | 0.038        |              |              |             |
| <b>Insurance: Other, record info</b>               |         |             |              |              |              |             |
| Yes (n=83)   | 4.2     | [0.6,24.2]  | 5.7          | [4.3,7.4]    | 5.6          | [4.3,7.3]   |
| No (n=1,539)                                       | 95.8    | [75.8,99.4] | 94.3         | [92.6,95.7]  | 94.4         | [92.7,95.7] |
| <b>Total (n=1,622)</b>                             | 100.0   |             | 100.0        |              | 100.0        |             |
| Pearson: Uncorrected chi2(1) =                     | 0.3054  |             |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.1004  | Pr =        | 0.751        |              |              |             |

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|  |              |              |             |              |             |
|--|--------------|--------------|-------------|--------------|-------------|
| <b>Unspecified on someone else's insurance</b> |              |              |             |              |             |
| Yes (n=21)                                     | 0.0          | 0.9          | [0.5,1.4]   | 0.8          | [0.5,1.4]   |
| No (n=4,069)                                   | 100.0        | 99.1         | [98.6,99.5] | 99.2         | [98.6,99.5] |
| <b>Total (n=4,090)</b>                         | <b>100.0</b> | <b>100.0</b> |             | <b>100.0</b> |             |
| <hr/>  |              |              |             |              |             |
| Pearson: Uncorrected chi2(1) =                 | 1.5556       |              |             |              |             |
| Design-based F(1.00, 4078.00) =                | 0.6867       | Pr =         | 0.407       |              |             |
| <hr/>  |              |              |             |              |             |
| <b>Insurance: Don't know</b>                   |              |              |             |              |             |
| Yes (n=23)                                     | 0.0          | 1.3          | [0.8,2.0]   | 1.2          | [0.8,1.9]   |
| No (n=1,599)                                   | 100.0        | 98.7         | [98.0,99.2] | 98.8         | [98.1,99.2] |
| <b>Total (n=1,622)</b>                         | <b>100.0</b> | <b>100.0</b> |             | <b>100.0</b> |             |
| <hr/>  |              |              |             |              |             |
| Pearson: Uncorrected chi2(1) =                 | 0.9761       |              |             |              |             |
| Design-based F(1.00, 1610.00) =                | 0.7123       | Pr =         | 0.399       |              |             |
| <hr/>  |              |              |             |              |             |



## 2.6 Demographics Table by Presence of a Chronic Disease (HEDIS)

Universe: All respondents

|                                       | Chronic disease (HEDIS) |             | Chronic disease (HEDIS)       |             | Percent      | Total<br>95%CI |
|---------------------------------------|-------------------------|-------------|-------------------------------|-------------|--------------|----------------|
|                                       | Percent                 | 95%CI       | No chronic disease<br>Percent | 95%CI       |              |                |
| <b>FPL category</b>                   |                         |             |                               |             |              |                |
| 0-35% (n=1,600)                       | 56.2                    | [53.2,59.2] | 50.4                          | [48.7,52.0] | 51.8         | [50.8,52.8]    |
| 36-99% (n=1,450)                      | 25.9                    | [23.4,28.4] | 29.3                          | [27.9,30.6] | 28.4         | [27.6,29.3]    |
| ≥ 100% (n = 1,040)                    | 17.9                    | [15.8,20.2] | 20.4                          | [19.3,21.5] | 19.8         | [19.1,20.4]    |
| <b>Total (n=4,090)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(2) =        | 10.6441                 |             |                               |             |              |                |
| Design-based F(1.95, 7972.30) =       | 4.3624                  | Pr =        | 0.013                         |             |              |                |
| <b>Region</b>                         |                         |             |                               |             |              |                |
| UP/NW/NE (n=746)                      | 8.7                     | [7.6,10.0]  | 9.1                           | [8.5,9.7]   | 9.0          | [8.6,9.4]      |
| W/E Central/E (n=1,265)               | 30.6                    | [28.0,33.4] | 27.9                          | [26.6,29.3] | 28.6         | [27.8,29.4]    |
| S Central/SW/SE (n=837)               | 16.2                    | [14.2,18.3] | 19.4                          | [18.2,20.6] | 18.6         | [17.8,19.3]    |
| Detroit Metro (n=1,242)               | 44.5                    | [41.3,47.7] | 43.6                          | [41.9,45.3] | 43.8         | [42.8,44.9]    |
| <b>Total (n=4,090)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(3) =        | 6.3971                  |             |                               |             |              |                |
| Design-based F(2.68, 10928.91) =      | 1.9030                  | Pr =        | 0.134                         |             |              |                |
| <b>Age</b>                            |                         |             |                               |             |              |                |
| 19-34 (n=1,303)                       | 17.8                    | [15.0,21.1] | 47.4                          | [45.0,49.7] | 40.0         | [38.0,42.0]    |
| 35-50 (n=1,301)                       | 39.1                    | [35.6,42.7] | 32.3                          | [30.1,34.5] | 34.0         | [32.1,35.9]    |
| 51-64 (n=1,486)                       | 43.1                    | [39.7,46.5] | 20.3                          | [18.8,22.0] | 26.0         | [24.5,27.6]    |
| <b>Total (n=4,090)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(2) =        | 331.1698                |             |                               |             |              |                |
| Design-based F(1.95, 7965.88) =       | 108.1525                | Pr =        | 0.000                         |             |              |                |
| <b>Gender</b>                         |                         |             |                               |             |              |                |
| Male (n=1,681)                        | 48.7                    | [45.1,52.3] | 48.4                          | [46.0,50.7] | 48.4         | [46.5,50.4]    |
| Female (n=2,409)                      | 51.3                    | [47.7,54.9] | 51.6                          | [49.3,54.0] | 51.6         | [49.6,53.5]    |
| <b>Total (n=4,090)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(1) =        | 0.0270                  |             |                               |             |              |                |
| Design-based F(1.00, 4078.00) =       | 0.0182                  | Pr =        | 0.893                         |             |              |                |
| <b>Race</b>                           |                         |             |                               |             |              |                |
| White (n=2,784)                       | 63.0                    | [59.4,66.5] | 60.5                          | [58.2,62.8] | 61.2         | [59.3,63.0]    |
| Black or African American (n=807)     | 27.2                    | [23.9,30.6] | 25.7                          | [23.6,27.9] | 26.1         | [24.3,27.9]    |
| Other (n=306)                         | 7.4                     | [5.7,9.5]   | 9.2                           | [7.9,10.7]  | 8.8          | [7.7,10.0]     |
| More than one (n=142)                 | 2.4                     | [1.7,3.6]   | 4.5                           | [3.6,5.6]   | 4.0          | [3.3,4.9]      |
| <b>Total (n=4,039)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(3) =        | 12.5515                 |             |                               |             |              |                |
| Design-based F(2.92, 11741.74) =      | 2.9778                  | Pr =        | 0.032                         |             |              |                |
| <b>Hispanic/Latino</b>                |                         |             |                               |             |              |                |
| Yes (n=188)                           | 4.1                     | [2.8,6.0]   | 5.6                           | [4.6,6.8]   | 5.2          | [4.4,6.2]      |
| No (n=3,856)                          | 95.2                    | [93.1,96.6] | 94.0                          | [92.8,95.0] | 94.3         | [93.3,95.2]    |
| Don't know (n=12)                     | 0.7                     | [0.3,1.9]   | 0.4                           | [0.2,0.9]   | 0.5          | [0.2,0.9]      |
| <b>Total (n=4,056)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(2) =        | 5.2646                  |             |                               |             |              |                |
| Design-based F(1.99, 8036.48) =       | 1.4342                  | Pr =        | 0.238                         |             |              |                |
| <b>Arab, Chaldean, Middle Eastern</b> |                         |             |                               |             |              |                |
| Yes (n=204)                           | 5.6                     | [3.9,8.0]   | 6.3                           | [5.3,7.6]   | 6.2          | [5.3,7.2]      |
| No (n=3,842)                          | 93.7                    | [91.3,95.5] | 93.5                          | [92.3,94.6] | 93.6         | [92.5,94.5]    |
| Don't know (n=9)                      | 0.7                     | [0.2,1.8]   | 0.2                           | [0.1,0.4]   | 0.3          | [0.1,0.6]      |
| <b>Total (n=4,055)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(2) =        | 7.5458                  |             |                               |             |              |                |
| Design-based F(1.96, 7936.29) =       | 2.2003                  | Pr =        | 0.112                         |             |              |                |
| <b>Urbanicity</b>                     |                         |             |                               |             |              |                |
| Urban (n=2,892)                       | 80.3                    | [78.0,82.4] | 81.3                          | [80.0,82.5] | 81.0         | [80.0,82.0]    |
| Suburban (n=400)                      | 9.6                     | [8.0,11.5]  | 8.5                           | [7.5,9.6]   | 8.8          | [7.9,9.7]      |
| Rural (n=798)                         | 10.1                    | [8.8,11.6]  | 10.2                          | [9.5,11.0]  | 10.2         | [9.7,10.7]     |
| <b>Total (n=4,090)</b>                | <b>100.0</b>            |             | <b>100.0</b>                  |             | <b>100.0</b> |                |
| Pearson: Uncorrected chi2(2) =        | 1.2135                  |             |                               |             |              |                |
| Design-based F(1.93, 7870.19) =       | 0.6737                  | Pr =        | 0.505                         |             |              |                |

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|---|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Medicaid Health Plan</b>                           |              |             |              |             |              |             |
| Aetna (n=58)  | 2.7          | [1.6,4.5]   | 1.4          | [0.9,2.0]   | 1.7          | [1.2,2.3]   |
| Blue Cross (n=356)                                    | 10.2         | [7.9,13.0]  | 12.1         | [10.5,13.9] | 11.6         | [10.2,13.1] |
| Harbor (n=18)   | 0.7          | [0.3,1.8]   | 0.8          | [0.4,1.5]   | 0.7          | [0.4,1.3]   |
| McLaren (n=633)                                       | 14.4         | [12.2,16.9] | 12.6         | [11.3,14.0] | 13.0         | [11.9,14.2] |
| Meridian (n=1,265)                                    | 29.8         | [26.8,33.1] | 29.8         | [27.7,31.9] | 29.8         | [28.1,31.6] |
| Midwest (n=3)   | 0.0          |             | 0.1          | [0.0,0.2]   | 0.1          | [0.0,0.2]   |
| Molina (n=701)  | 18.7         | [16.0,21.7] | 17.7         | [16.0,19.6] | 18.0         | [16.5,19.5] |
| Priority (n=268)                                      | 6.0          | [4.6,7.8]   | 5.9          | [5.0,6.8]   | 5.9          | [5.2,6.7]   |
| Total Health Care (n=85)                              | 3.8          | [2.6,5.6]   | 2.5          | [1.8,3.5]   | 2.8          | [2.2,3.7]   |
| United (n=443)  | 11.4         | [9.3,13.9]  | 13.8         | [12.2,15.6] | 13.2         | [11.8,14.7] |
| Upper Peninsula Health Plan (n=258)                   | 2.2          | [1.6,3.0]   | 3.5          | [3.1,4.0]   | 3.2          | [2.8,3.6]   |
| <b>Total (n=4,088)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(10) =                       | 25.3304      |             |              |             |              |             |
| Design-based F(9.05, 36878.20) =                      | 1.7323       | Pr =        | 0.076        |             |              |             |
| <b>Employment status</b>                              |              |             |              |             |              |             |
| Employed or self-employed (n=2,079)                   | 39.0         | [35.7,42.5] | 52.1         | [49.9,54.4] | 48.8         | [47.0,50.7] |
| Out of work >=1 year (n=707)                          | 22.6         | [19.6,25.9] | 18.7         | [16.9,20.7] | 19.7         | [18.1,21.3] |
| Out of work <1 year (n=258)                           | 5.4          | [4.0,7.2]   | 8.7          | [7.4,10.2]  | 7.9          | [6.8,9.1]   |
| Homemaker (n=217)                                     | 4.5          | [3.2,6.4]   | 4.5          | [3.8,5.4]   | 4.5          | [3.8,5.3]   |
| Student (n=161)                                       | 2.7          | [1.6,4.4]   | 6.0          | [4.9,7.3]   | 5.2          | [4.3,6.2]   |
| Retired (n=167)                                       | 4.1          | [3.0,5.6]   | 2.0          | [1.5,2.5]   | 2.5          | [2.1,3.0]   |
| Unable to work (n=479)                                | 21.5         | [18.8,24.6] | 7.8          | [6.7,9.1]   | 11.3         | [10.1,12.5] |
| Don't know (n=7)                                      | 0.1          | [0.0,0.3]   | 0.2          | [0.1,0.5]   | 0.2          | [0.1,0.4]   |
| <b>Total (n=4,075)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(7) =                        | 202.8911     |             |              |             |              |             |
| Design-based F(6.42, 26086.51) =                      | 21.6056      | Pr =        | 0.000        |             |              |             |
| <b>Veteran</b>  |              |             |              |             |              |             |
| Yes (n=125)   | 3.6          | [2.5,5.1]   | 3.3          | [2.6,4.3]   | 3.4          | [2.7,4.2]   |
| No (n=3,958)  | 96.4         | [94.8,97.4] | 96.5         | [95.5,97.3] | 96.5         | [95.7,97.2] |
| Don't know (n=3)                                      | 0.1          | [0.0,0.4]   | 0.2          | [0.0,0.7]   | 0.1          | [0.0,0.5]   |
| <b>Total (n=4,086)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                        | 0.7885       |             |              |             |              |             |
| Design-based F(1.85, 7549.45) =                       | 0.3620       | Pr =        | 0.680        |             |              |             |
| <b>Marital status</b>                                 |              |             |              |             |              |             |
| Married (n=1,008)                                     | 22.5         | [19.9,25.4] | 19.6         | [18.1,21.3] | 20.4         | [19.0,21.8] |
| Partnered (n=185)                                     | 4.7          | [3.4,6.4]   | 4.1          | [3.4,5.1]   | 4.3          | [3.6,5.1]   |
| Divorced (n=865)                                      | 23.7         | [21.0,26.7] | 16.3         | [14.7,18.0] | 18.2         | [16.8,19.6] |
| Widowed (n=147)                                       | 3.6          | [2.6,5.1]   | 2.5          | [1.9,3.2]   | 2.8          | [2.3,3.4]   |
| Separated (n=119)                                     | 4.0          | [2.9,5.5]   | 2.4          | [1.8,3.1]   | 2.8          | [2.3,3.4]   |
| Never Married (n=1,745)                               | 41.4         | [37.9,45.1] | 55.0         | [52.7,57.2] | 51.6         | [49.6,53.5] |
| Don't know (n=4)                                      | 0.0          |             | 0.1          | [0.0,0.3]   | 0.1          | [0.0,0.2]   |
| <b>Total (n=4,073)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =                        | 66.4268      |             |              |             |              |             |
| Design-based F(5.90, 23952.14) =                      | 8.8689       | Pr =        | 0.000        |             |              |             |
| <b>Any chronic health condition present</b>           |              |             |              |             |              |             |
| Yes (n=2,986)   | 92.0         | [89.6,93.9] | 61.5         | [59.2,63.8] | 69.2         | [67.3,71.0] |
| No (n=1,104)  | 8.0          | [6.1,10.4]  | 38.5         | [36.2,40.8] | 30.8         | [29.0,32.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 335.1254     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 204.8324     | Pr =        | 0.000        |             |              |             |
| <b>At least one physical health condition present</b> |              |             |              |             |              |             |
| Yes (n=2,689)   | 90.3         | [87.7,92.4] | 50.9         | [48.6,53.2] | 60.8         | [58.8,62.8] |
| No (n=1,401)  | 9.7          | [7.6,12.3]  | 49.1         | [46.8,51.4] | 39.2         | [37.2,41.2] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 500.4832     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 298.3920     | Pr =        | 0.000        |             |              |             |
| <b>At least one mental health condition present</b>   |              |             |              |             |              |             |
| Yes (n=1,351)   | 39.0         | [35.5,42.5] | 29.8         | [27.8,32.0] | 32.1         | [30.3,33.9] |
| No (n=2,739)  | 61.0         | [57.5,64.5] | 70.2         | [68.0,72.2] | 67.9         | [66.1,69.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 29.4609      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 20.0280      | Pr =        | 0.000        |             |              |             |

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|---|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Other household HMP enrollee</b>                 |              |             |              |             |              |             |
| Yes (n=1,592)                                       | 34.6         | [31.4,38.0] | 36.0         | [34.0,38.2] | 35.7         | [34.0,37.5] |
| No (n=2,289)  | 61.1         | [57.6,64.5] | 56.9         | [54.6,59.2] | 58.0         | [56.1,59.8] |
| Don't know (n=201)                                  | 4.3          | [2.8,6.5]   | 7.0          | [5.8,8.5]   | 6.3          | [5.3,7.6]   |
| <b>Total (n=4,082)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 11.8831      |             |              |             |              |             |
| Design-based F(1.90, 7751.37) =                     | 3.3550       | Pr =        | 0.037        |             |              |             |
| <b>Help reading written materials</b>               |              |             |              |             |              |             |
| Never (n=3,031)                                     | 67.0         | [63.4,70.3] | 74.5         | [72.4,76.5] | 72.6         | [70.8,74.3] |
| Rarely (n=413)                                      | 10.0         | [7.9,12.5]  | 10.9         | [9.5,12.4]  | 10.6         | [9.5,12.0]  |
| Sometimes (n=390)                                   | 12.1         | [10.0,14.6] | 10.1         | [8.7,11.7]  | 10.6         | [9.4,11.9]  |
| Often (n=94)  | 3.6          | [2.4,5.4]   | 2.0          | [1.4,2.7]   | 2.4          | [1.8,3.1]   |
| Always (n=157)                                      | 7.3          | [5.5,9.7]   | 2.5          | [2.0,3.2]   | 3.7          | [3.1,4.5]   |
| Don't know (n=3)                                    | 0.0          |             | 0.0          | [0.0,0.2]   | 0.0          | [0.0,0.1]   |
| <b>Total (n=4,088)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(5) =                      | 65.8203      |             |              |             |              |             |
| Design-based F(4.58, 18669.46) =                    | 9.7108       | Pr =        | 0.000        |             |              |             |
| <b>Low healthcare utilizers</b>                     |              |             |              |             |              |             |
| Yes (n=491)   | 2.5          | [1.6,3.8]   | 19.5         | [17.6,21.7] | 15.2         | [13.7,16.9] |
| No (n=3,599)  | 97.5         | [96.2,98.4] | 80.5         | [78.3,82.4] | 84.8         | [83.1,86.3] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 173.8395     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 122.9532     | Pr =        | 0.000        |             |              |             |
| <b>High ER utilizers</b>                            |              |             |              |             |              |             |
| Yes (n=156)   | 6.5          | [4.9,8.6]   | 3.7          | [2.9,4.8]   | 4.4          | [3.6,5.4]   |
| No (n=3,934)  | 93.5         | [91.4,95.1] | 96.3         | [95.2,97.1] | 95.6         | [94.6,96.4] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 13.9310      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 7.9572       | Pr =        | 0.005        |             |              |             |
| <b>Mental health/substance use disorder (HEDIS)</b> |              |             |              |             |              |             |
| MH/SA (HEDIS) (n=2,034)                             | 62.4         | [58.8,65.8] | 43.6         | [41.3,45.9] | 48.3         | [46.4,50.3] |
| No MH/SA (n=2,056)                                  | 37.6         | [34.2,41.2] | 56.4         | [54.1,58.7] | 51.7         | [49.7,53.6] |
| <b>Total (n=4,090)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 108.6418     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                     | 73.0804      | Pr =        | 0.000        |             |              |             |
| <b>Any insurance pre-HMP</b>                        |              |             |              |             |              |             |
| Yes (n=1,667)                                       | 40.6         | [37.2,44.2] | 40.7         | [38.4,43.0] | 40.7         | [38.8,42.6] |
| No (n=2,374)  | 57.6         | [54.0,61.1] | 58.0         | [55.6,60.2] | 57.9         | [55.9,59.8] |
| Don't know (n=46)                                   | 1.7          | [0.8,3.9]   | 1.3          | [0.9,2.0]   | 1.4          | [1.0,2.1]   |
| <b>Total (n=4,087)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                      | 0.9928       |             |              |             |              |             |
| Design-based F(1.82, 7406.62) =                     | 0.2363       | Pr =        | 0.768        |             |              |             |
| <b>Insurance duration pre-HMP</b>                   |              |             |              |             |              |             |
| All 12 months (n=1,235)                             | 75.7         | [70.8,80.0] | 73.2         | [69.9,76.4] | 73.8         | [71.1,76.5] |
| 6-11 months (n=245)                                 | 16.0         | [12.3,20.5] | 14.9         | [12.4,17.8] | 15.2         | [13.0,17.6] |
| Less than 6 months (n=129)                          | 4.8          | [3.1,7.5]   | 8.5          | [6.8,10.7]  | 7.6          | [6.2,9.3]   |
| Don't know (n=58)                                   | 3.5          | [2.1,5.8]   | 3.4          | [2.3,5.0]   | 3.4          | [2.5,4.7]   |
| <b>Total (n=1,667)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =                      | 6.0679       |             |              |             |              |             |
| Design-based F(2.96, 4906.63) =                     | 1.5816       | Pr =        | 0.192        |             |              |             |
| <b>Insurance: Private, job</b>                      |              |             |              |             |              |             |
| Yes (n=409)   | 24.0         | [19.7,28.9] | 27.0         | [23.8,30.4] | 26.2         | [23.6,29.0] |
| No (n=1,213)  | 76.0         | [71.1,80.3] | 73.0         | [69.6,76.2] | 73.8         | [71.0,76.4] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 1.3741       |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                     | 1.0385       | Pr =        | 0.308        |             |              |             |
| <b>Insurance: Private, self</b>                     |              |             |              |             |              |             |
| Yes (n=157)   | 5.1          | [3.1,8.4]   | 11.9         | [9.5,14.9]  | 10.2         | [8.3,12.6]  |
| No (n=1,465)  | 94.9         | [91.6,96.9] | 88.1         | [85.1,90.5] | 89.8         | [87.4,91.7] |
| <b>Total (n=1,622)</b>                              | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                      | 15.4049      |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                     | 9.8951       | Pr =        | 0.002        |             |              |             |

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| <b>Healthcare.gov insurance</b>                    |              |              |              |              |              |             |
| Yes (n=59)   | 30.1         | [10.7,60.7]  | 31.7         | [22.1,43.0]  | 31.5         | [22.6,41.9] |
| No (n=75)  | 50.5         | [25.6,75.1]  | 56.1         | [43.8,67.7]  | 55.4         | [44.1,66.2] |
| Don't know (n=18)                                  | 19.4         | [6.7,44.6]   | 12.2         | [6.4,22.0]   | 13.1         | [7.6,21.7]  |
| <b>Total (n=152)</b>                               | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 0.7753       |              |              |              |              |             |
| Design-based F(1.96, 274.38) =                     | 0.2563       | Pr =         | 0.770        |              |              |             |
| <b>Insurance subsidy</b>                           |              |              |              |              |              |             |
| Yes (n=37)   | 22.0         | [4.8,61.3]   | 67.3         | [51.5,79.9]  | 61.8         | [43.9,76.9] |
| No (n=18)  | 28.5         | [5.0,75.0]   | 29.1         | [17.1,44.9]  | 29.0         | [18.1,43.1] |
| Don't know (n=4)                                   | 49.5         | [9.7,90.0]   | 3.7          | [1.1,11.9]   | 9.3          | [2.2,31.3]  |
| <b>Total (n=59)</b>                                | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                     | 16.4333      |              |              |              |              |             |
| Design-based F(1.77, 84.99) =                      | 7.9237       | Pr =         | 0.001        |              |              |             |
| <b>Insurance: Medicaid</b>                         |              |              |              |              |              |             |
| Yes (n=834)  | 53.3         | [47.8,58.8]  | 49.9         | [46.2,53.6]  | 50.8         | [47.7,53.9] |
| No (n=788)   | 46.7         | [41.2,52.2]  | 50.1         | [46.4,53.8]  | 49.2         | [46.1,52.3] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                     | 1.4196       |              |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 1.0139       | Pr =         | 0.314        |              |              |             |
| <b>Insurance: VA</b>                               |              |              |              |              |              |             |
| Yes (n=21)   | 1.4          | [0.5,3.5]    | 1.4          | [0.7,2.5]    | 1.4          | [0.8,2.3]   |
| No (n=1,601)                                       | 98.6         | [96.5,99.5]  | 98.6         | [97.5,99.3]  | 98.6         | [97.7,99.2] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                     | 0.0033       |              |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.0023       | Pr =         | 0.962        |              |              |             |
| <b>Insurance: Indian Health Service</b>            |              |              |              |              |              |             |
| Yes (n=3)  | 0.0          | 0.1          | [0.0,0.4]    | 0.1          | [0.0,0.3]    |             |
| No (n=1,619)                                       | 100.0        | 99.9         | [99.6,100.0] | 99.9         | [99.7,100.0] |             |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> | <b>100.0</b> |              | <b>100.0</b> |              |             |
| Pearson: Uncorrected chi2(1) =                     | 0.4563       |              |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.9602       | Pr =         | 0.327        |              |              |             |
| <b>Insurance: CHAMPUS, TRICARE, other military</b> |              |              |              |              |              |             |
| Yes (n=3)  | 0.8          | [0.1,5.3]    | 0.2          | [0.0,0.8]    | 0.3          | [0.1,1.2]   |
| No (n=1,619)                                       | 99.2         | [94.7,99.9]  | 99.8         | [99.2,100.0] | 99.7         | [98.8,99.9] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                     | 3.4745       |              |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 1.7495       | Pr =         | 0.186        |              |              |             |
| <b>Insurance: Medicare</b>                         |              |              |              |              |              |             |
| Yes (n=5)  | 0.3          | [0.1,1.2]    | 0.3          | [0.1,0.9]    | 0.3          | [0.1,0.7]   |
| No (n=1,617)                                       | 99.7         | [98.8,99.9]  | 99.7         | [99.1,99.9]  | 99.7         | [99.3,99.9] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                     | 0.0084       |              |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 0.0110       | Pr =         | 0.916        |              |              |             |
| <b>Insurance: County health plan</b>               |              |              |              |              |              |             |
| Yes (n=127)  | 11.4         | [8.6,15.0]   | 4.6          | [3.5,6.1]    | 6.3          | [5.2,7.7]   |
| No (n=1,495)                                       | 88.6         | [85.0,91.4]  | 95.4         | [93.9,96.5]  | 93.7         | [92.3,94.8] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                     | 23.2948      |              |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 21.2432      | Pr =         | 0.000        |              |              |             |
| <b>Insurance: Other, record info</b>               |              |              |              |              |              |             |
| Yes (n=83)   | 3.9          | [2.2,6.9]    | 6.1          | [4.5,8.2]    | 5.6          | [4.3,7.3]   |
| No (n=1,539)                                       | 96.1         | [93.1,97.8]  | 93.9         | [91.8,95.5]  | 94.4         | [92.7,95.7] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                     | 2.7838       |              |              |              |              |             |
| Design-based F(1.00, 1610.00) =                    | 1.9172       | Pr =         | 0.166        |              |              |             |

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| <b>Unspecified on someone else's insurance</b> |              |             |              |             |              |             |
| Yes (n=21)                                     | 0.4          | [0.1,1.4]   | 1.0          | [0.5,1.7]   | 0.8          | [0.5,1.4]   |
| No (n=4,069)                                   | 99.6         | [98.6,99.9] | 99.0         | [98.3,99.5] | 99.2         | [98.6,99.5] |
| <b>Total (n=4,090)</b>                         | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                 | 3.1531       |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                | 1.6960       | Pr =        | 0.193        |             |              |             |
| <b>Insurance: Don't know</b>                   |              |             |              |             |              |             |
| Yes (n=23)                                     | 1.5          | [0.6,3.4]   | 1.2          | [0.7,2.0]   | 1.2          | [0.8,1.9]   |
| No (n=1,599)                                   | 98.5         | [96.6,99.4] | 98.8         | [98.0,99.3] | 98.8         | [98.1,99.2] |
| <b>Total (n=1,622)</b>                         | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                 | 0.2296       |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =                | 0.2037       | Pr =        | 0.652        |             |              |             |

## 2.7 Demographics Table by Presence of a Mental Health or Substance Use Disorder (HEDIS)

Universe: All respondents

|                                       | Mental health/substance use disorder (HEDIS) |             |              |             |              |             |
|---------------------------------------|--|-------------|--------------|-------------|--------------|-------------|
|                                       | MH/SA (HEDIS)                                |             | No MH/SA     |             | Total        |             |
|                                       | Percent                                      | 95%CI       | Percent      | 95%CI       | Percent      | 95%CI       |
| <b>FPL category</b>                   |  |             |              |             |              |             |
| 0-35% (n=1,600)                       | 57.4   | [55.3,59.5] | 46.6         | [44.3,48.9] | 51.8         | [50.8,52.8] |
| 36-99% (n=1,450)                      | 25.5   | [23.8,27.3] | 31.1         | [29.3,33.0] | 28.4         | [27.6,29.3] |
| ≥ 100% (n = 1, 040)                   | 17.1   | [15.7,18.5] | 22.3         | [20.7,23.9] | 19.8         | [19.1,20.4] |
| <b>Total (n=4,090)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 48.3845                                      |             |              |             |              |             |
| Design-based F(1.93, 7851.38) =       | 17.9177                                      | Pr =        | 0.000        |             |              |             |
| <b>Region</b>                         |  |             |              |             |              |             |
| UP/NW/NE (n=746)                      | 10.1   | [9.2,11.0]  | 8.0          | [7.2,8.9]   | 9.0          | [8.6,9.4]   |
| W/E Central/E (n=1,265)               | 31.5   | [29.7,33.4] | 25.9         | [24.1,27.7] | 28.6         | [27.8,29.4] |
| S Central/SW/SE (n=837)               | 18.9   | [17.4,20.4] | 18.3         | [16.7,20.1] | 18.6         | [17.8,19.3] |
| Detroit Metro (n=1,242)               | 39.5   | [37.3,41.9] | 47.8         | [45.6,50.1] | 43.8         | [42.8,44.9] |
| <b>Total (n=4,090)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =        | 32.2688                                      |             |              |             |              |             |
| Design-based F(2.68, 10918.05) =      | 8.4696                                       | Pr =        | 0.000        |             |              |             |
| <b>Age</b>                            |  |             |              |             |              |             |
| 19-34 (n=1,303)                       | 37.3   | [34.6,40.2] | 42.4         | [39.6,45.3] | 40.0         | [38.0,42.0] |
| 35-50 (n=1,301)                       | 37.5   | [34.9,40.3] | 30.7         | [28.1,33.4] | 34.0         | [32.1,35.9] |
| 51-64 (n=1,486)                       | 25.1   | [23.1,27.3] | 26.9         | [24.8,29.1] | 26.0         | [24.5,27.6] |
| <b>Total (n=4,090)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 22.0053                                      |             |              |             |              |             |
| Design-based F(1.94, 7898.24) =       | 7.0514                                       | Pr =        | 0.001        |             |              |             |
| <b>Gender</b>                         |  |             |              |             |              |             |
| Male (n=1,681)                        | 46.0   | [43.2,48.7] | 50.8         | [48.0,53.5] | 48.4         | [46.5,50.4] |
| Female (n=2,409)                      | 54.0   | [51.3,56.8] | 49.2         | [46.5,52.0] | 51.6         | [49.6,53.5] |
| <b>Total (n=4,090)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =        | 9.5089                                       |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =       | 5.7282                                       | Pr =        | 0.017        |             |              |             |
| <b>Race</b>                           |  |             |              |             |              |             |
| White (n=2,784)                       | 68.2   | [65.5,70.7] | 54.7         | [51.9,57.4] | 61.2         | [59.3,63.0] |
| Black or African American (n=807)     | 21.6   | [19.3,24.1] | 30.2         | [27.6,33.0] | 26.1         | [24.3,27.9] |
| Other (n=306)                         | 6.4  | [5.1,8.0]   | 10.9         | [9.3,12.8]  | 8.8          | [7.7,10.0]  |
| More than one (n=142)                 | 3.8  | [2.8,5.0]   | 4.2          | [3.2,5.5]   | 4.0          | [3.3,4.9]   |
| <b>Total (n=4,039)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =        | 82.5336                                      |             |              |             |              |             |
| Design-based F(2.99, 12045.53) =      | 15.5260                                      | Pr =        | 0.000        |             |              |             |
| <b>Hispanic/Latino</b>                |  |             |              |             |              |             |
| Yes (n=188)                           | 5.0  | [3.9,6.4]   | 5.4          | [4.3,6.9]   | 5.2          | [4.4,6.2]   |
| No (n=3,856)                          | 94.4   | [92.9,95.5] | 94.3         | [92.8,95.5] | 94.3         | [93.3,95.2] |
| Don't know (n=12)                     | 0.6  | [0.3,1.3]   | 0.3          | [0.1,1.0]   | 0.5          | [0.2,0.9]   |
| <b>Total (n=4,056)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 2.6398                                       |             |              |             |              |             |
| Design-based F(1.96, 7936.75) =       | 0.6683                                       | Pr =        | 0.510        |             |              |             |
| <b>Arab, Chaldean, Middle Eastern</b> |  |             |              |             |              |             |
| Yes (n=204)                           | 3.4  | [2.4,4.7]   | 8.8          | [7.3,10.5]  | 6.2          | [5.3,7.2]   |
| No (n=3,842)                          | 96.2   | [94.8,97.3] | 91.1         | [89.4,92.5] | 93.6         | [92.5,94.5] |
| Don't know (n=9)                      | 0.4  | [0.2,1.0]   | 0.2          | [0.0,0.6]   | 0.3          | [0.1,0.6]   |
| <b>Total (n=4,055)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 53.1635                                      |             |              |             |              |             |
| Design-based F(1.95, 7897.95) =       | 15.4327                                      | Pr =        | 0.000        |             |              |             |
| <b>Urbanicity</b>                     |  |             |              |             |              |             |
| Urban (n=2,892)                       | 78.5   | [76.7,80.2] | 83.4         | [81.8,84.9] | 81.0         | [80.0,82.0] |
| Suburban (n=400)                      | 9.8  | [8.5,11.3]  | 7.8          | [6.6,9.1]   | 8.8          | [7.9,9.7]   |
| Rural (n=798)                         | 11.7   | [10.6,12.8] | 8.8          | [7.9,9.7]   | 10.2         | [9.7,10.7]  |
| <b>Total (n=4,090)</b>                | <b>100.0</b>                                 |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 16.2756                                      |             |              |             |              |             |
| Design-based F(1.91, 7777.94) =       | 7.9168                                       | Pr =        | 0.000        |             |              |             |

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| <b>Medicaid Health Plan</b>                           |              |             |              |             |              |             |
| Aetna (n=58)  | 1.7          | [1.1,2.8]   | 1.6          | [1.1,2.4]   | 1.7          | [1.2,2.3]   |
| Blue Cross (n=356)                                    | 9.8          | [8.1,11.7]  | 13.3         | [11.2,15.6] | 11.6         | [10.2,13.1] |
| Harbor (n=18)   | 0.4          | [0.2,1.2]   | 1.1          | [0.5,2.1]   | 0.7          | [0.4,1.3]   |
| McLaren (n=633)                                       | 15.3         | [13.6,17.2] | 10.9         | [9.5,12.5]  | 13.0         | [11.9,14.2] |
| Meridian (n=1,265)                                    | 31.8         | [29.3,34.4] | 28.0         | [25.6,30.5] | 29.8         | [28.1,31.6] |
| Midwest (n=3)   | 0.1          | [0.0,0.3]   | 0.0          | [0.0,0.2]   | 0.1          | [0.0,0.2]   |
| Molina (n=701)  | 18.0         | [15.9,20.3] | 17.9         | [15.9,20.2] | 18.0         | [16.5,19.5] |
| Priority (n=268)                                      | 6.2          | [5.2,7.5]   | 5.6          | [4.6,6.8]   | 5.9          | [5.2,6.7]   |
| Total Health Care (n=85)                              | 2.6          | [1.8,3.7]   | 3.1          | [2.1,4.4]   | 2.8          | [2.2,3.7]   |
| United (n=443)  | 10.7         | [9.0,12.7]  | 15.5         | [13.5,17.7] | 13.2         | [11.8,14.7] |
| Upper Peninsula Health Plan (n=258)                   | 3.3          | [2.8,4.0]   | 3.0          | [2.5,3.6]   | 3.2          | [2.8,3.6]   |
| <b>Total (n=4,088)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(10) =                       | 56.9259      |             |              |             |              |             |
| Design-based F(8.90, 36265.32) =                      | 3.5760       | Pr =        | 0.000        |             |              |             |
| <b>Employment status</b>                              |              |             |              |             |              |             |
| Employed or self-employed (n=2,079)                   | 43.3         | [40.6,46.0] | 54.0         | [51.3,56.8] | 48.8         | [47.0,50.7] |
| Out of work >=1 year (n=707)                          | 19.9         | [17.8,22.3] | 19.4         | [17.2,21.9] | 19.7         | [18.1,21.3] |
| Out of work <1 year (n=258)                           | 8.1          | [6.7,9.8]   | 7.6          | [6.1,9.5]   | 7.9          | [6.8,9.1]   |
| Homemaker (n=217)                                     | 3.6          | [2.8,4.6]   | 5.4          | [4.4,6.6]   | 4.5          | [3.8,5.3]   |
| Student (n=161)                                       | 4.5          | [3.3,6.0]   | 5.8          | [4.6,7.4]   | 5.2          | [4.3,6.2]   |
| Retired (n=167)                                       | 1.9          | [1.4,2.6]   | 3.0          | [2.4,3.9]   | 2.5          | [2.1,3.0]   |
| Unable to work (n=479)                                | 18.3         | [16.3,20.5] | 4.6          | [3.6,5.9]   | 11.3         | [10.1,12.5] |
| Don't know (n=7)                                      | 0.3          | [0.1,0.7]   | 0.1          | [0.0,0.3]   | 0.2          | [0.1,0.4]   |
| <b>Total (n=4,075)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(7) =                        | 212.2011     |             |              |             |              |             |
| Design-based F(6.50, 26397.66) =                      | 20.1871      | Pr =        | 0.000        |             |              |             |
| <b>Veteran</b>  |              |             |              |             |              |             |
| Yes (n=125)   | 3.7          | [2.8,4.8]   | 3.1          | [2.2,4.3]   | 3.4          | [2.7,4.2]   |
| No (n=3,958)  | 96.3         | [95.2,97.2] | 96.6         | [95.4,97.6] | 96.5         | [95.7,97.2] |
| Don't know (n=3)                                      | 0.0          |             | 0.3          | [0.1,1.0]   | 0.1          | [0.0,0.5]   |
| <b>Total (n=4,086)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =                        | 5.8072       |             |              |             |              |             |
| Design-based F(1.91, 7762.05) =                       | 1.3545       | Pr =        | 0.258        |             |              |             |
| <b>Marital status</b>                                 |              |             |              |             |              |             |
| Married (n=1,008)                                     | 17.0         | [15.2,18.9] | 23.5         | [21.5,25.7] | 20.4         | [19.0,21.8] |
| Partnered (n=185)                                     | 4.4          | [3.5,5.5]   | 4.2          | [3.2,5.4]   | 4.3          | [3.6,5.1]   |
| Divorced (n=865)                                      | 20.8         | [18.8,23.0] | 15.7         | [13.9,17.6] | 18.2         | [16.8,19.6] |
| Widowed (n=147)                                       | 3.1          | [2.3,4.1]   | 2.5          | [1.9,3.3]   | 2.8          | [2.3,3.4]   |
| Separated (n=119)                                     | 3.3          | [2.5,4.3]   | 2.3          | [1.6,3.3]   | 2.8          | [2.3,3.4]   |
| Never Married (n=1,745)                               | 51.5         | [48.7,54.2] | 51.7         | [48.9,54.4] | 51.6         | [49.6,53.5] |
| Don't know (n=4)                                      | 0.0          | [0.0,0.2]   | 0.1          | [0.0,0.5]   | 0.1          | [0.0,0.2]   |
| <b>Total (n=4,073)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(6) =                        | 42.1635      |             |              |             |              |             |
| Design-based F(5.60, 22761.24) =                      | 5.6230       | Pr =        | 0.000        |             |              |             |
| <b>Any chronic health condition present</b>           |              |             |              |             |              |             |
| Yes (n=2,986)   | 84.3         | [82.0,86.3] | 55.1         | [52.2,57.9] | 69.2         | [67.3,71.0] |
| No (n=1,104)  | 15.7         | [13.7,18.0] | 44.9         | [42.1,47.8] | 30.8         | [29.0,32.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 409.5075     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 231.5277     | Pr =        | 0.000        |             |              |             |
| <b>At least one physical health condition present</b> |              |             |              |             |              |             |
| Yes (n=2,689)   | 69.9         | [67.2,72.5] | 52.3         | [49.4,55.1] | 60.8         | [58.8,62.8] |
| No (n=1,401)  | 30.1         | [27.5,32.8] | 47.7         | [44.9,50.6] | 39.2         | [37.2,41.2] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 133.5790     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 75.9649      | Pr =        | 0.000        |             |              |             |
| <b>At least one mental health condition present</b>   |              |             |              |             |              |             |
| Yes (n=1,351)   | 57.4         | [54.7,60.1] | 8.5          | [7.0,10.1]  | 32.1         | [30.3,33.9] |
| No (n=2,739)  | 42.6         | [39.9,45.3] | 91.5         | [89.9,93.0] | 67.9         | [66.1,69.7] |
| <b>Total (n=4,090)</b>                                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =                        | 1123.5896    |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =                       | 674.4324     | Pr =        | 0.000        |             |              |             |

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|                                       |              |             |              |             |              |             |
|---------------------------------------|--------------|-------------|--------------|-------------|--------------|-------------|
| <b>Other household HMP enrollee</b>   |              |             |              |             |              |             |
| Yes (n=1,592)                         | 31.9         | [29.5,34.4] | 39.3         | [36.7,41.9] | 35.7         | [34.0,37.5] |
| No (n=2,289)                          | 62.2         | [59.5,64.8] | 54.0         | [51.2,56.7] | 58.0         | [56.1,59.8] |
| Don't know (n=201)                    | 5.9          | [4.6,7.5]   | 6.8          | [5.2,8.7]   | 6.3          | [5.3,7.6]   |
| <b>Total (n=4,082)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 28.3650      |             |              |             |              |             |
| Design-based F(1.93, 7855.79) =       | 7.6264       | Pr =        | 0.001        |             |              |             |
| <b>Help reading written materials</b> |              |             |              |             |              |             |
| Never (n=3,031)                       | 68.0         | [65.3,70.5] | 76.9         | [74.4,79.2] | 72.6         | [70.8,74.3] |
| Rarely (n=413)                        | 11.0         | [9.4,12.9]  | 10.3         | [8.7,12.2]  | 10.6         | [9.5,12.0]  |
| Sometimes (n=390)                     | 12.5         | [10.7,14.5] | 8.8          | [7.3,10.6]  | 10.6         | [9.4,11.9]  |
| Often (n=94)                          | 3.3          | [2.5,4.5]   | 1.5          | [0.9,2.4]   | 2.4          | [1.8,3.1]   |
| Always (n=157)                        | 5.1          | [4.1,6.4]   | 2.4          | [1.7,3.5]   | 3.7          | [3.1,4.5]   |
| Don't know (n=3)                      | 0.1          | [0.0,0.2]   | 0.0          | [0.0,0.1]   | 0.0          | [0.0,0.1]   |
| <b>Total (n=4,088)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(5) =        | 59.0414      |             |              |             |              |             |
| Design-based F(4.46, 18163.61) =      | 8.0176       | Pr =        | 0.000        |             |              |             |
| <b>Low healthcare utilizers</b>       |              |             |              |             |              |             |
| Yes (n=491)                           | 7.2          | [5.7,9.1]   | 22.8         | [20.3,25.4] | 15.2         | [13.7,16.9] |
| No (n=3,599)                          | 92.8         | [90.9,94.3] | 77.2         | [74.6,79.7] | 84.8         | [83.1,86.3] |
| <b>Total (n=4,090)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =        | 191.7870     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =       | 87.9259      | Pr =        | 0.000        |             |              |             |
| <b>High ER utilizers</b>              |              |             |              |             |              |             |
| Yes (n=156)                           | 7.7          | [6.2,9.5]   | 1.4          | [0.9,2.2]   | 4.4          | [3.6,5.4]   |
| No (n=3,934)                          | 92.3         | [90.5,93.8] | 98.6         | [97.8,99.1] | 95.6         | [94.6,96.4] |
| <b>Total (n=4,090)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =        | 96.1607      |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =       | 56.6746      | Pr =        | 0.000        |             |              |             |
| <b>Chronic disease (HEDIS)</b>        |              |             |              |             |              |             |
| Chronic disease (HEDIS) (n=1,161)     | 32.4         | [30.0,35.0] | 18.3         | [16.4,20.4] | 25.1         | [23.5,26.8] |
| No chronic disease (n=2,929)          | 67.6         | [65.0,70.0] | 81.7         | [79.6,83.6] | 74.9         | [73.2,76.5] |
| <b>Total (n=4,090)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =        | 108.6418     |             |              |             |              |             |
| Design-based F(1.00, 4078.00) =       | 73.0804      | Pr =        | 0.000        |             |              |             |
| <b>Any insurance pre-HMP</b>          |              |             |              |             |              |             |
| Yes (n=1,667)                         | 40.2         | [37.5,43.0] | 41.1         | [38.4,43.9] | 40.7         | [38.8,42.6] |
| No (n=2,374)                          | 58.7         | [56.0,61.5] | 57.1         | [54.3,59.8] | 57.9         | [55.9,59.8] |
| Don't know (n=46)                     | 1.0          | [0.6,1.7]   | 1.8          | [1.1,3.0]   | 1.4          | [1.0,2.1]   |
| <b>Total (n=4,087)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(2) =        | 5.1210       |             |              |             |              |             |
| Design-based F(1.99, 8098.22) =       | 1.4395       | Pr =        | 0.237        |             |              |             |
| <b>Insurance duration pre-HMP</b>     |              |             |              |             |              |             |
| All 12 months (n=1,235)               | 72.3         | [68.1,76.2] | 75.3         | [71.5,78.7] | 73.8         | [71.1,76.5] |
| 6-11 months (n=245)                   | 15.5         | [12.4,19.2] | 14.9         | [12.0,18.2] | 15.2         | [13.0,17.6] |
| Less than 6 months (n=129)            | 8.4          | [6.3,11.2]  | 6.8          | [5.1,9.1]   | 7.6          | [6.2,9.3]   |
| Don't know (n=58)                     | 3.8          | [2.3,6.1]   | 3.1          | [2.0,4.6]   | 3.4          | [2.5,4.7]   |
| <b>Total (n=1,667)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(3) =        | 2.6544       |             |              |             |              |             |
| Design-based F(2.99, 4943.07) =       | 0.5596       | Pr =        | 0.641        |             |              |             |
| <b>Insurance: Private, job</b>        |              |             |              |             |              |             |
| Yes (n=409)                           | 26.8         | [23.0,30.9] | 25.7         | [22.1,29.6] | 26.2         | [23.6,29.0] |
| No (n=1,213)                          | 73.2         | [69.1,77.0] | 74.3         | [70.4,77.9] | 73.8         | [71.0,76.4] |
| <b>Total (n=1,622)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =        | 0.2444       |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =       | 0.1517       | Pr =        | 0.697        |             |              |             |
| <b>Insurance: Private, self</b>       |              |             |              |             |              |             |
| Yes (n=157)                           | 10.0         | [7.0,13.9]  | 10.5         | [8.1,13.5]  | 10.2         | [8.3,12.6]  |
| No (n=1,465)                          | 90.0         | [86.1,93.0] | 89.5         | [86.5,91.9] | 89.8         | [87.4,91.7] |
| <b>Total (n=1,622)</b>                | <b>100.0</b> |             | <b>100.0</b> |             | <b>100.0</b> |             |
| Pearson: Uncorrected chi2(1) =        | 0.1213       |             |              |             |              |             |
| Design-based F(1.00, 1610.00) =       | 0.0553       | Pr =        | 0.814        |             |              |             |

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|--|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Healthcare.gov insurance</b>                    |              |              |              |              |              |              |
| Yes (n=59)   | 25.7         | [14.1,42.3]  | 36.2         | [24.7,49.5]  | 31.5         | [22.6,41.9]  |
| No (n=75)  | 60.8         | [42.7,76.4]  | 50.9         | [37.4,64.3]  | 55.4         | [44.1,66.2]  |
| Don't know (n=18)                                  | 13.4         | [5.7,28.3]   | 12.9         | [6.3,24.7]   | 13.1         | [7.6,21.7]   |
| <b>Total (n=152)</b>                               | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(2) =                     | 1.9822       |              |              |              |              |              |
| Design-based F(1.97, 275.93) =                     | 0.5715       | Pr =         | 0.563        |              |              |              |
| <b>Insurance subsidy</b>                           |              |              |              |              |              |              |
| Yes (n=37)   | 36.7         | [15.9,64.0]  | 76.5         | [59.0,88.0]  | 61.8         | [43.9,76.9]  |
| No (n=18)  | 43.2         | [20.1,69.8]  | 20.6         | [9.8,38.3]   | 29.0         | [18.1,43.1]  |
| Don't know (n=4)                                   | 20.0         | [4.1,59.5]   | 2.9          | [0.6,12.3]   | 9.3          | [2.2,31.3]   |
| <b>Total (n=59)</b>                                | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(2) =                     | 10.2987      |              |              |              |              |              |
| Design-based F(1.96, 93.91) =                      | 4.3668       | Pr =         | 0.016        |              |              |              |
| <b>Insurance: Medicaid</b>                         |              |              |              |              |              |              |
| Yes (n=834)  | 51.0         | [46.5,55.5]  | 50.5         | [46.2,54.8]  | 50.8         | [47.7,53.9]  |
| No (n=788)   | 49.0         | [44.5,53.5]  | 49.5         | [45.2,53.8]  | 49.2         | [46.1,52.3]  |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(1) =                     | 0.0421       |              |              |              |              |              |
| Design-based F(1.00, 1610.00) =                    | 0.0260       | Pr =         | 0.872        |              |              |              |
| <b>Insurance: VA</b>                               |              |              |              |              |              |              |
| Yes (n=21)   | 1.2          | [0.5,2.6]    | 1.5          | [0.7,3.1]    | 1.4          | [0.8,2.3]    |
| No (n=1,601)                                       | 98.8         | [97.4,99.5]  | 98.5         | [96.9,99.3]  | 98.6         | [97.7,99.2]  |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(1) =                     | 0.3089       |              |              |              |              |              |
| Design-based F(1.00, 1610.00) =                    | 0.1940       | Pr =         | 0.660        |              |              |              |
| <b>Insurance: Indian Health Service</b>            |              |              |              |              |              |              |
| Yes (n=3)  | 0.1          | [0.0,0.5]    | 0.1          | [0.0,0.4]    | 0.1          | [0.0,0.3]    |
| No (n=1,619)                                       | 99.9         | [99.5,100.0] | 99.9         | [99.6,100.0] | 99.9         | [99.7,100.0] |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(1) =                     | 0.0196       |              |              |              |              |              |
| Design-based F(1.00, 1610.00) =                    | 0.0387       | Pr =         | 0.844        |              |              |              |
| <b>Insurance: CHAMPUS, TRICARE, other military</b> |              |              |              |              |              |              |
| Yes (n=3)  | 0.5          | [0.1,2.6]    | 0.2          | [0.0,1.2]    | 0.3          | [0.1,1.2]    |
| No (n=1,619)                                       | 99.5         | [97.4,99.9]  | 99.8         | [98.8,100.0] | 99.7         | [98.8,99.9]  |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(1) =                     | 1.3201       |              |              |              |              |              |
| Design-based F(1.00, 1610.00) =                    | 0.7352       | Pr =         | 0.391        |              |              |              |
| <b>Insurance: Medicare</b>                         |              |              |              |              |              |              |
| Yes (n=5)  | 0.2          | [0.0,0.9]    | 0.4          | [0.1,1.1]    | 0.3          | [0.1,0.7]    |
| No (n=1,617)                                       | 99.8         | [99.1,100.0] | 99.6         | [98.9,99.9]  | 99.7         | [99.3,99.9]  |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(1) =                     | 0.3049       |              |              |              |              |              |
| Design-based F(1.00, 1610.00) =                    | 0.3268       | Pr =         | 0.568        |              |              |              |
| <b>Insurance: County health plan</b>               |              |              |              |              |              |              |
| Yes (n=127)  | 7.7          | [5.9,9.9]    | 5.1          | [3.8,6.9]    | 6.3          | [5.2,7.7]    |
| No (n=1,495)                                       | 92.3         | [90.1,94.1]  | 94.9         | [93.1,96.2]  | 93.7         | [92.3,94.8]  |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(1) =                     | 4.4387       |              |              |              |              |              |
| Design-based F(1.00, 1610.00) =                    | 4.0023       | Pr =         | 0.046        |              |              |              |
| <b>Insurance: Other, record info</b>               |              |              |              |              |              |              |
| Yes (n=83)   | 4.8          | [3.2,7.1]    | 6.3          | [4.4,8.9]    | 5.6          | [4.3,7.3]    |
| No (n=1,539)                                       | 95.2         | [92.9,96.8]  | 93.7         | [91.1,95.6]  | 94.4         | [92.7,95.7]  |
| <b>Total (n=1,622)</b>                             | <b>100.0</b> |              | <b>100.0</b> |              | <b>100.0</b> |              |
| Pearson: Uncorrected chi2(1) =                     | 1.7412       |              |              |              |              |              |
| Design-based F(1.00, 1610.00) =                    | 1.0094       | Pr =         | 0.315        |              |              |              |

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|  |        |             |       |             |       |             |
|--|--------|-------------|-------|-------------|-------|-------------|
| <b>Unspecified on someone else's insurance</b> |        |             |       |             |       |             |
| Yes (n=21)                                     | 0.4    | [0.2,1.2]   | 1.2   | [0.6,2.2]   | 0.8   | [0.5,1.4]   |
| No (n=4,069)                                   | 99.6   | [98.8,99.8] | 98.8  | [97.8,99.4] | 99.2  | [98.6,99.5] |
| <b>Total (n=4,090)</b>                         | 100.0  |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(1) =                 | 7.3040 |             |       |             |       |             |
| Design-based F(1.00, 4078.00) =                | 3.1804 | Pr =        | 0.075 |             |       |             |
| <b>Insurance: Don't know</b>                   |        |             |       |             |       |             |
| Yes (n=23)                                     | 0.6    | [0.2,1.3]   | 1.8   | [1.1,3.1]   | 1.2   | [0.8,1.9]   |
| No (n=1,599)                                   | 99.4   | [98.7,99.8] | 98.2  | [96.9,98.9] | 98.8  | [98.1,99.2] |
| <b>Total (n=1,622)</b>                         | 100.0  |             | 100.0 |             | 100.0 |             |
| Pearson: Uncorrected chi2(1) =                 | 5.3015 |             |       |             |       |             |
| Design-based F(1.00, 1610.00) =                | 5.9043 | Pr =        | 0.015 |             |       |             |

### 3 AIM 1: Knowledge and understanding of Healthy Michigan Plan coverage

#### 3.1 Q: My Healthy Michigan Plan covers routine dental visits.

Universe: All respondents

|   | HMP: Covers routine dental |                    |            |                  |             |                    | Total<br>Row% |
|---|----------------------------|--------------------|------------|------------------|-------------|--------------------|---------------|
|   | Yes                        |                    | No         |                  | Don't know  |                    |               |
|   | Row%                       | 95%CI              | Row%       | 95%CI            | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |                            |                    |            |                  |             |                    |               |
| 0-35% (n=1,599)                                     | 77.1                       | [74.3,79.7]        | 2.9        | [2.1,4.1]        | 20.0        | [17.5,22.7]        | 100.0         |
| 36-99% (n=1,448)                                    | 78.5                       | [75.9,80.9]        | 4.9        | [3.7,6.4]        | 16.6        | [14.5,18.9]        | 100.0         |
| ≥ 100% (n = 1,039)                                  | 75.3                       | [72.0,78.3]        | 5.2        | [3.9,7.1]        | 19.4        | [16.7,22.5]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 17.1317                    |                    |            |                  |             |                    |               |
| Design-based F(3.85, 15678.90) =                    | 3.0954                     | Pr =               | 0.016      |                  |             |                    |               |
| <b>Region</b>                                       |                            |                    |            |                  |             |                    |               |
| UP/NW/NE (n=745)                                    | 78.6                       | [75.0,81.7]        | 2.9        | [1.9,4.4]        | 18.5        | [15.5,22.0]        | 100.0         |
| W/E Central/E (n=1,264)                             | 79.0                       | [76.2,81.5]        | 3.3        | [2.4,4.6]        | 17.7        | [15.3,20.3]        | 100.0         |
| S Central/SW/SE (n=836)                             | 72.5                       | [68.5,76.2]        | 4.6        | [3.3,6.4]        | 22.9        | [19.3,26.9]        | 100.0         |
| Detroit Metro (n=1,241)                             | 77.7                       | [74.6,80.5]        | 4.2        | [3.1,5.7]        | 18.1        | [15.5,21.0]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 14.0366                    |                    |            |                  |             |                    |               |
| Design-based F(5.19, 21152.69) =                    | 1.9039                     | Pr =               | 0.087      |                  |             |                    |               |
| <b>Low healthcare utilizers</b>                     |                            |                    |            |                  |             |                    |               |
| Yes (n=491)   | 69.7                       | [64.1,74.7]        | 4.7        | [3.0,7.3]        | 25.7        | [20.9,31.1]        | 100.0         |
| No (n=3,595)  | 78.5                       | [76.7,80.2]        | 3.8        | [3.1,4.6]        | 17.7        | [16.1,19.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 24.2227                    |                    |            |                  |             |                    |               |
| Design-based F(1.95, 7962.32) =                     | 6.5057                     | Pr =               | 0.002      |                  |             |                    |               |
| <b>High ER utilizers</b>                            |                            |                    |            |                  |             |                    |               |
| Yes (n=156)   | 75.4                       | [66.1,82.9]        | 2.3        | [0.9,5.7]        | 22.3        | [15.1,31.6]        | 100.0         |
| No (n=3,930)  | 77.3                       | [75.5,78.9]        | 4.0        | [3.3,4.8]        | 18.7        | [17.2,20.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.5545                     |                    |            |                  |             |                    |               |
| Design-based F(1.82, 7431.50) =                     | 0.8997                     | Pr =               | 0.399      |                  |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                            |                    |            |                  |             |                    |               |
| Chronic disease (HEDIS) (n=1,159)                   | 76.3                       | [73.0,79.4]        | 4.4        | [3.0,6.5]        | 19.3        | [16.5,22.4]        | 100.0         |
| No chronic disease (n=2,927)                        | 77.5                       | [75.4,79.4]        | 3.8        | [3.1,4.6]        | 18.8        | [17.0,20.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0103                     |                    |            |                  |             |                    |               |
| Design-based F(2.00, 8137.72) =                     | 0.3056                     | Pr =               | 0.736      |                  |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                            |                    |            |                  |             |                    |               |
| MH/SA (HEDIS) (n=2,032)                             | 78.7                       | [76.4,80.9]        | 3.9        | [3.1,5.0]        | 17.4        | [15.3,19.6]        | 100.0         |
| No MH/SA (n=2,054)                                  | 75.7                       | [73.2,78.1]        | 3.9        | [3.0,5.2]        | 20.3        | [18.1,22.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.9697                     |                    |            |                  |             |                    |               |
| Design-based F(1.98, 8063.45) =                     | 1.8632                     | Pr =               | 0.156      |                  |             |                    |               |
| <b>Total (n=4,086)</b>                              | <b>77.2</b>                | <b>[75.4,78.8]</b> | <b>3.9</b> | <b>[3.3,4.7]</b> | <b>18.9</b> | <b>[17.3,20.6]</b> | <b>100.0</b>  |

### 3.2 Q: My Healthy Michigan Plan covers eyeglasses.

Universe: All respondents

|   | HMP: Covers eyeglasses |                    |            |                  |             |                    | Total<br>Row% |
|---|------------------------|--------------------|------------|------------------|-------------|--------------------|---------------|
|   | Yes                    |                    | No         |                  | Don't know  |                    |               |
|   | Row%                   | 95%CI              | Row%       | 95%CI            | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |                        |                    |            |                  |             |                    |               |
| 0-35% (n=1,599)                                     | 60.8                   | [57.7,63.9]        | 7.9        | [6.3,9.7]        | 31.3        | [28.4,34.4]        | 100.0         |
| 36-99% (n=1,448)                                    | 62.2                   | [59.1,65.2]        | 7.4        | [5.8,9.4]        | 30.4        | [27.7,33.4]        | 100.0         |
| ≥ 100% (n = 1,039)                                  | 57.0                   | [53.4,60.6]        | 8.3        | [6.5,10.4]       | 34.7        | [31.3,38.3]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 5.5877                 |                    |            |                  |             |                    |               |
| Design-based F(3.85, 15684.93) =                    | 0.9820                 | Pr =               | 0.414      |                  |             |                    |               |
| <b>Region</b>                                       |                        |                    |            |                  |             |                    |               |
| UP/NW/NE (n=745)                                    | 65.1                   | [61.0,69.0]        | 7.2        | [5.4,9.7]        | 27.6        | [24.0,31.6]        | 100.0         |
| W/E Central/E (n=1,264)                             | 62.1                   | [59.0,65.2]        | 6.7        | [5.4,8.5]        | 31.1        | [28.2,34.2]        | 100.0         |
| S Central/SW/SE (n=836)                             | 56.5                   | [52.3,60.6]        | 8.4        | [6.5,10.8]       | 35.0        | [31.0,39.3]        | 100.0         |
| Detroit Metro (n=1,241)                             | 60.0                   | [56.5,63.5]        | 8.4        | [6.6,10.6]       | 31.6        | [28.4,35.0]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 11.4291                |                    |            |                  |             |                    |               |
| Design-based F(5.31, 21627.68) =                    | 1.4824                 | Pr =               | 0.188      |                  |             |                    |               |
| <b>Low healthcare utilizers</b>                     |                        |                    |            |                  |             |                    |               |
| Yes (n=491)   | 44.3                   | [38.7,50.0]        | 9.2        | [6.6,12.9]       | 46.5        | [40.6,52.4]        | 100.0         |
| No (n=3,595)  | 63.3                   | [61.3,65.3]        | 7.6        | [6.5,8.8]        | 29.1        | [27.2,31.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 83.6852                |                    |            |                  |             |                    |               |
| Design-based F(1.98, 8082.51) =                     | 21.2455                | Pr =               | 0.000      |                  |             |                    |               |
| <b>High ER utilizers</b>                            |                        |                    |            |                  |             |                    |               |
| Yes (n=156)   | 65.0                   | [54.8,74.0]        | 4.0        | [1.6,9.6]        | 30.9        | [22.3,41.1]        | 100.0         |
| No (n=3,930)  | 60.2                   | [58.2,62.2]        | 8.0        | [6.9,9.2]        | 31.8        | [29.9,33.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.1944                 |                    |            |                  |             |                    |               |
| Design-based F(1.98, 8056.54) =                     | 1.1758                 | Pr =               | 0.308      |                  |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                        |                    |            |                  |             |                    |               |
| Chronic disease (HEDIS) (n=1,159)                   | 67.9                   | [64.3,71.3]        | 7.5        | [5.8,9.7]        | 24.6        | [21.5,28.0]        | 100.0         |
| No chronic disease (n=2,927)                        | 57.9                   | [55.6,60.3]        | 7.9        | [6.7,9.3]        | 34.1        | [31.9,36.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 34.6865                |                    |            |                  |             |                    |               |
| Design-based F(2.00, 8143.66) =                     | 11.0807                | Pr =               | 0.000      |                  |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                        |                    |            |                  |             |                    |               |
| MH/SA (HEDIS) (n=2,032)                             | 64.3                   | [61.5,67.0]        | 7.4        | [6.1,9.0]        | 28.3        | [25.8,30.9]        | 100.0         |
| No MH/SA (n=2,054)                                  | 56.8                   | [54.0,59.6]        | 8.2        | [6.7,9.9]        | 35.0        | [32.3,37.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 24.6517                |                    |            |                  |             |                    |               |
| Design-based F(2.00, 8144.79) =                     | 7.2413                 | Pr =               | 0.001      |                  |             |                    |               |
| <b>Total (n=4,086)</b>                              | <b>60.4</b>            | <b>[58.5,62.4]</b> | <b>7.8</b> | <b>[6.8,9.0]</b> | <b>31.8</b> | <b>[29.9,33.7]</b> | <b>100.0</b>  |

### 3.3 Q: My Healthy Michigan Plan covers counseling for mental or emotional problems.

Universe: All respondents

|   | HMP: Covers mental health counseling |             |       |           |            |             | Total<br>Row% |
|---|--------------------------------------|-------------|-------|-----------|------------|-------------|---------------|
|   | Yes                                  |             | No    |           | Don't know |             |               |
|   | Row%                                 | 95%CI       | Row%  | 95%CI     | Row%       | 95%CI       |               |
| <b>FPL category</b>                                 |                                      |             |       |           |            |             |               |
| 0-35% (n=1,599)                                     | 57.4                                 | [54.3,60.5] | 2.7   | [1.8,3.9] | 39.9       | [36.9,43.0] | 100.0         |
| 36-99% (n=1,448)                                    | 55.7                                 | [52.6,58.8] | 3.6   | [2.5,5.3] | 40.6       | [37.6,43.7] | 100.0         |
| ≥ 100% (n = 1,039)                                  | 52.7                                 | [49.1,56.2] | 3.2   | [2.1,4.9] | 44.1       | [40.6,47.7] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 7.1120                               |             |       |           |            |             |               |
| Design-based F(3.85, 15696.57) =                    | 1.1846                               | Pr =        | 0.315 |           |            |             |               |
| <b>Region</b>                                       |                                      |             |       |           |            |             |               |
| UP/NW/NE (n=745)                                    | 55.2                                 | [51.1,59.2] | 2.8   | [1.6,4.7] | 42.0       | [38.0,46.1] | 100.0         |
| W/E Central/E (n=1,264)                             | 58.3                                 | [55.1,61.4] | 2.2   | [1.4,3.6] | 39.5       | [36.4,42.6] | 100.0         |
| S Central/SW/SE (n=836)                             | 60.8                                 | [56.8,64.8] | 2.7   | [1.7,4.3] | 36.5       | [32.6,40.5] | 100.0         |
| Detroit Metro (n=1,241)                             | 52.6                                 | [49.1,56.0] | 3.8   | [2.7,5.4] | 43.6       | [40.2,47.1] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 22.0130                              |             |       |           |            |             |               |
| Design-based F(5.42, 22085.15) =                    | 2.8165                               | Pr =        | 0.013 |           |            |             |               |
| <b>Low healthcare utilizers</b>                     |                                      |             |       |           |            |             |               |
| Yes (n=491)   | 47.0                                 | [41.3,52.9] | 6.0   | [3.8,9.4] | 46.9       | [41.2,52.8] | 100.0         |
| No (n=3,595)  | 57.6                                 | [55.5,59.6] | 2.5   | [1.9,3.3] | 39.9       | [37.9,41.9] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 38.0460                              |             |       |           |            |             |               |
| Design-based F(2.00, 8144.37) =                     | 9.2079                               | Pr =        | 0.000 |           |            |             |               |
| <b>High ER utilizers</b>                            |                                      |             |       |           |            |             |               |
| Yes (n=156)   | 71.9                                 | [62.1,80.0] | 3.3   | [1.3,8.2] | 24.8       | [17.1,34.5] | 100.0         |
| No (n=3,930)  | 55.3                                 | [53.2,57.2] | 3.1   | [2.4,3.9] | 41.7       | [39.7,43.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 20.7256                              |             |       |           |            |             |               |
| Design-based F(1.96, 7967.02) =                     | 6.1725                               | Pr =        | 0.002 |           |            |             |               |
| <b>Chronic disease (HEDIS)</b>                      |                                      |             |       |           |            |             |               |
| Chronic disease (HEDIS) (n=1,159)                   | 59.8                                 | [56.1,63.3] | 2.5   | [1.5,4.2] | 37.7       | [34.2,41.3] | 100.0         |
| No chronic disease (n=2,927)                        | 54.7                                 | [52.4,57.0] | 3.2   | [2.5,4.2] | 42.0       | [39.7,44.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 8.2993                               |             |       |           |            |             |               |
| Design-based F(1.99, 8089.93) =                     | 2.5338                               | Pr =        | 0.080 |           |            |             |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                      |             |       |           |            |             |               |
| MH/SA (HEDIS) (n=2,032)                             | 69.2                                 | [66.6,71.7] | 2.2   | [1.6,3.2] | 28.5       | [26.1,31.1] | 100.0         |
| No MH/SA (n=2,054)                                  | 43.6                                 | [40.9,46.4] | 3.8   | [2.8,5.2] | 52.6       | [49.8,55.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 271.8334                             |             |       |           |            |             |               |
| Design-based F(2.00, 8147.53) =                     | 82.7680                              | Pr =        | 0.000 |           |            |             |               |
| <b>Total (n=4,086)</b>                              | 56.0                                 | [54.0,57.9] | 3.1   | [2.4,3.9] | 40.9       | [39.0,42.9] | 100.0         |

### 3.4 Q: Only generic medicines are covered by my Healthy Michigan Plan.

Universe: All respondents

|   | HMP: Covers only generic meds |                    |             |                    |             |                    | Total<br>Row% |
|---|-------------------------------|--------------------|-------------|--------------------|-------------|--------------------|---------------|
|   | Yes                           |                    | No          |                    | Don't know  |                    |               |
|   | Row%                          | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |                               |                    |             |                    |             |                    |               |
| 0-35% (n=1,598)                                     | 35.5                          | [32.5,38.5]        | 22.6        | [20.2,25.3]        | 41.9        | [38.9,45.0]        | 100.0         |
| 36-99% (n=1,448)                                    | 35.2                          | [32.2,38.3]        | 20.2        | [17.9,22.6]        | 44.6        | [41.6,47.8]        | 100.0         |
| ≥ 100% (n = 1,039)                                  | 37.6                          | [34.2,41.1]        | 19.0        | [16.5,21.9]        | 43.4        | [39.9,47.0]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 6.7023                        |                    |             |                    |             |                    |               |
| Design-based F(3.85, 15692.10) =                    | 1.2541                        | Pr =               | 0.286       |                    |             |                    |               |
| <b>Region</b>                                       |                               |                    |             |                    |             |                    |               |
| UP/NW/NE (n=745)                                    | 28.3                          | [24.8,32.0]        | 24.4        | [21.2,28.0]        | 47.3        | [43.2,51.4]        | 100.0         |
| W/E Central/E (n=1,263)                             | 33.1                          | [30.2,36.1]        | 22.3        | [19.7,25.2]        | 44.6        | [41.4,47.8]        | 100.0         |
| S Central/SW/SE (n=836)                             | 35.5                          | [31.6,39.5]        | 20.3        | [17.3,23.6]        | 44.3        | [40.2,48.4]        | 100.0         |
| Detroit Metro (n=1,241)                             | 39.2                          | [35.9,42.7]        | 20.3        | [17.6,23.2]        | 40.5        | [37.1,44.0]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 22.8769                       |                    |             |                    |             |                    |               |
| Design-based F(5.30, 21606.77) =                    | 3.0267                        | Pr =               | 0.008       |                    |             |                    |               |
| <b>Low healthcare utilizers</b>                     |                               |                    |             |                    |             |                    |               |
| Yes (n=490)   | 32.0                          | [26.7,37.8]        | 17.0        | [13.3,21.6]        | 51.0        | [45.2,56.8]        | 100.0         |
| No (n=3,595)  | 36.5                          | [34.5,38.5]        | 22.0        | [20.3,23.8]        | 41.5        | [39.5,43.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 20.1575                       |                    |             |                    |             |                    |               |
| Design-based F(1.99, 8104.17) =                     | 4.8920                        | Pr =               | 0.008       |                    |             |                    |               |
| <b>High ER utilizers</b>                            |                               |                    |             |                    |             |                    |               |
| Yes (n=156)   | 37.0                          | [28.3,46.7]        | 23.6        | [15.4,34.4]        | 39.4        | [30.1,49.6]        | 100.0         |
| No (n=3,929)  | 35.7                          | [33.8,37.7]        | 21.1        | [19.6,22.8]        | 43.1        | [41.2,45.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1283                        |                    |             |                    |             |                    |               |
| Design-based F(1.95, 7932.92) =                     | 0.2786                        | Pr =               | 0.751       |                    |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |                    |             |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,159)                   | 38.3                          | [34.9,41.9]        | 25.1        | [22.1,28.4]        | 36.6        | [33.2,40.1]        | 100.0         |
| No chronic disease (n=2,926)                        | 34.9                          | [32.7,37.2]        | 19.9        | [18.1,21.8]        | 45.1        | [42.8,47.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 25.2636                       |                    |             |                    |             |                    |               |
| Design-based F(2.00, 8145.41) =                     | 8.5583                        | Pr =               | 0.000       |                    |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |                    |             |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,031)                             | 37.0                          | [34.4,39.6]        | 22.8        | [20.6,25.3]        | 40.2        | [37.5,43.0]        | 100.0         |
| No MH/SA (n=2,054)                                  | 34.7                          | [32.1,37.5]        | 19.7        | [17.7,22.0]        | 45.6        | [42.8,48.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.8971                       |                    |             |                    |             |                    |               |
| Design-based F(2.00, 8144.05) =                     | 3.9301                        | Pr =               | 0.020       |                    |             |                    |               |
| <b>Total (n=4,085)</b>                              | <b>35.8</b>                   | <b>[33.9,37.7]</b> | <b>21.2</b> | <b>[19.7,22.9]</b> | <b>43.0</b> | <b>[41.0,44.9]</b> | <b>100.0</b>  |

### 3.5 Q: Contributions are what I am charged every month for Healthy Michigan Plan coverage even if I do not use any health care.

Universe: All respondents

|   | HMP: Contributions are charged every month regardless |             |       |             |            |             | Total<br>Row% |
|---|---|-------------|-------|-------------|------------|-------------|---------------|
|   | Yes   |             | No    |             | Don't know |             |               |
|   | Row%  | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI       |               |
| <b>FPL category</b>                                 |   |             |       |             |            |             |               |
| 0-35% (n=1,597)                                     | 22.3  | [19.8,25.0] | 24.5  | [22.0,27.2] | 53.2       | [50.0,56.2] | 100.0         |
| 36-99% (n=1,445)                                    | 24.2  | [21.5,27.0] | 26.4  | [23.7,29.2] | 49.5       | [46.3,52.6] | 100.0         |
| ≥ 100%(n = 1,039)                                   | 40.0  | [36.6,43.6] | 16.3  | [13.9,19.1] | 43.6       | [40.1,47.2] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 106.0969  |             |       |             |            |             |               |
| Design-based F(3.86, 15698.77) =                    | 19.5345   | Pr =        | 0.000 |             |            |             |               |
| <b>Region</b>                                       |   |             |       |             |            |             |               |
| UP/NW/NE (n=745)                                    | 28.1  | [24.7,31.7] | 24.4  | [21.1,28.0] | 47.5       | [43.5,51.6] | 100.0         |
| W/E Central/E (n=1,263)                             | 26.1  | [23.5,28.9] | 22.3  | [19.8,25.0] | 51.6       | [48.4,54.8] | 100.0         |
| S Central/SW/SE (n=833)                             | 25.6  | [22.2,29.5] | 24.3  | [21.1,27.7] | 50.1       | [46.0,54.2] | 100.0         |
| Detroit Metro (n=1,240)                             | 26.5  | [23.6,29.6] | 23.6  | [20.8,26.7] | 49.9       | [46.5,53.4] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 2.6355  |             |       |             |            |             |               |
| Design-based F(5.30, 21568.24) =                    | 0.3572  | Pr =        | 0.887 |             |            |             |               |
| <b>Low healthcare utilizers</b>                     |   |             |       |             |            |             |               |
| Yes (n=489)   | 22.9  | [18.4,28.0] | 24.7  | [20.2,29.9] | 52.4       | [46.6,58.2] | 100.0         |
| No (n=3,592)  | 27.0  | [25.2,28.8] | 23.2  | [21.5,25.0] | 49.8       | [47.8,51.9] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.6304  |             |       |             |            |             |               |
| Design-based F(2.00, 8121.10) =                     | 1.1515  | Pr =        | 0.316 |             |            |             |               |
| <b>High ER utilizers</b>                            |   |             |       |             |            |             |               |
| Yes (n=156)   | 22.9  | [16.0,31.7] | 15.9  | [10.6,23.1] | 61.2       | [51.5,70.0] | 100.0         |
| No (n=3,925)  | 26.5  | [24.8,28.3] | 23.8  | [22.1,25.5] | 49.7       | [47.7,51.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.9116  |             |       |             |            |             |               |
| Design-based F(1.96, 7976.42) =                     | 3.2194  | Pr =        | 0.041 |             |            |             |               |
| <b>Chronic disease (HEDIS)</b>                      |   |             |       |             |            |             |               |
| Chronic disease (HEDIS) (n=1,159)                   | 29.4  | [26.4,32.7] | 19.7  | [17.1,22.6] | 50.8       | [47.3,54.4] | 100.0         |
| No chronic disease (n=2,922)                        | 25.3  | [23.4,27.4] | 24.7  | [22.7,26.7] | 50.0       | [47.7,52.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.9493   |             |       |             |            |             |               |
| Design-based F(2.00, 8125.37) =                     | 4.5733  | Pr =        | 0.010 |             |            |             |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |             |       |             |            |             |               |
| MH/SA (HEDIS) (n=2,030)                             | 26.2  | [23.9,28.7] | 22.6  | [20.4,24.9] | 51.2       | [48.4,53.9] | 100.0         |
| No MH/SA (n=2,051)                                  | 26.5  | [24.1,29.0] | 24.2  | [21.9,26.7] | 49.4       | [46.6,52.2] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.7790  |             |       |             |            |             |               |
| Design-based F(2.00, 8131.48) =                     | 0.5544  | Pr =        | 0.574 |             |            |             |               |
| <b>Total (n=4,081)</b>                              | 26.4  | [24.7,28.1] | 23.4  | [21.8,25.1] | 50.2       | [48.3,52.2] | 100.0         |

### 3.6 Q: There is no limit or maximum on the amount I might have to pay in copays or contributions.

Universe: All respondents

|   | HMP: No maximum on copays or contributions |                    |             |                    |             |                    | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|-------------|--------------------|---------------|
|   | Yes  |                    | No          |                    | Don't know  |                    |               |
|   | Row%                                       | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |  |                    |             |                    |             |                    |               |
| 0-35% (n=1,597)                                     | 20.7                                       | [18.3,23.3]        | 22.8        | [20.3,25.6]        | 56.5        | [53.3,59.5]        | 100.0         |
| 36-99% (n=1,447)                                    | 21.6                                       | [19.1,24.3]        | 23.3        | [20.7,26.1]        | 55.1        | [52.0,58.2]        | 100.0         |
| ≥ 100% (n = 1,039)                                  | 19.4                                       | [16.8,22.3]        | 22.9        | [20.1,26.0]        | 57.7        | [54.1,61.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 1.7691                                     |                    |             |                    |             |                    |               |
| Design-based F(3.86, 15702.71) =                    | 0.3263                                     | Pr =               | 0.854       |                    |             |                    |               |
| <b>Region</b>                                       |  |                    |             |                    |             |                    |               |
| UP/NW/NE (n=745)                                    | 17.7                                       | [14.9,21.0]        | 23.0        | [19.9,26.5]        | 59.2        | [55.2,63.1]        | 100.0         |
| W/E Central/E (n=1,263)                             | 20.0                                       | [17.7,22.6]        | 22.2        | [19.6,25.0]        | 57.8        | [54.6,60.9]        | 100.0         |
| S Central/SW/SE (n=834)                             | 19.6                                       | [16.7,23.0]        | 21.5        | [18.3,25.0]        | 58.9        | [54.8,62.8]        | 100.0         |
| Detroit Metro (n=1,241)                             | 22.2                                       | [19.5,25.2]        | 24.1        | [21.2,27.2]        | 53.6        | [50.2,57.1]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 10.5224                                    |                    |             |                    |             |                    |               |
| Design-based F(5.30, 21581.12) =                    | 1.4196                                     | Pr =               | 0.210       |                    |             |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |             |                    |               |
| Yes (n=489)   | 17.8                                       | [13.8,22.5]        | 23.4        | [18.8,28.7]        | 58.8        | [53.0,64.4]        | 100.0         |
| No (n=3,594)  | 21.2                                       | [19.6,23.0]        | 22.9        | [21.2,24.7]        | 55.8        | [53.8,57.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.9625                                     |                    |             |                    |             |                    |               |
| Design-based F(2.00, 8134.65) =                     | 0.9599                                     | Pr =               | 0.383       |                    |             |                    |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |             |                    |               |
| Yes (n=156)   | 27.2                                       | [18.7,37.6]        | 20.1        | [13.6,28.6]        | 52.7        | [42.6,62.6]        | 100.0         |
| No (n=3,927)  | 20.4                                       | [18.9,22.1]        | 23.1        | [21.4,24.9]        | 56.5        | [54.5,58.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.9031                                     |                    |             |                    |             |                    |               |
| Design-based F(1.97, 8002.40) =                     | 1.3023                                     | Pr =               | 0.272       |                    |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,159)                   | 21.4                                       | [18.7,24.5]        | 23.9        | [21.0,27.0]        | 54.7        | [51.1,58.2]        | 100.0         |
| No chronic disease (n=2,924)                        | 20.5                                       | [18.7,22.4]        | 22.7        | [20.7,24.7]        | 56.9        | [54.5,59.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.5134                                     |                    |             |                    |             |                    |               |
| Design-based F(2.00, 8140.15) =                     | 0.5247                                     | Pr =               | 0.592       |                    |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,031)                             | 21.5                                       | [19.3,23.8]        | 21.9        | [19.7,24.2]        | 56.7        | [53.9,59.4]        | 100.0         |
| No MH/SA (n=2,052)                                  | 20.0                                       | [17.9,22.3]        | 24.0        | [21.7,26.6]        | 56.0        | [53.2,58.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2477                                     |                    |             |                    |             |                    |               |
| Design-based F(2.00, 8140.82) =                     | 0.9947                                     | Pr =               | 0.370       |                    |             |                    |               |
| <b>Total (n=4,083)</b>                              | <b>20.7</b>                                | <b>[19.2,22.3]</b> | <b>23.0</b> | <b>[21.4,24.7]</b> | <b>56.3</b> | <b>[54.3,58.2]</b> | <b>100.0</b>  |



### 3.7 Q: I could be dropped from the Healthy Michigan Plan for not paying my bill.

Universe: All respondents

|   | HMP: Can be dropped if I don't pay |                    |             |                    |             |                    | Total<br>Row% |
|---|------------------------------------|--------------------|-------------|--------------------|-------------|--------------------|---------------|
|   | Yes                                |                    | No          |                    | Don't know  |                    |               |
|   | Row%                               | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |                                    |                    |             |                    |             |                    |               |
| 0-35% (n=1,597)                                     | 31.1                               | [28.2,34.1]        | 15.8        | [13.7,18.1]        | 53.1        | [50.0,56.2]        | 100.0         |
| 36-99% (n=1,448)                                    | 36.9                               | [33.9,40.0]        | 14.3        | [12.3,16.6]        | 48.8        | [45.7,51.9]        | 100.0         |
| ≥ 100% (n = 1,039)                                  | 38.2                               | [34.8,41.7]        | 10.7        | [8.6,13.2]         | 51.1        | [47.6,54.7]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 25.4482                            |                    |             |                    |             |                    |               |
| Design-based F(3.87, 15773.17) =                    | 4.6279                             | Pr =               | 0.001       |                    |             |                    |               |
| <b>Region</b>                                       |                                    |                    |             |                    |             |                    |               |
| UP/NW/NE (n=745)                                    | 36.9                               | [32.9,41.0]        | 12.5        | [10.0,15.5]        | 50.7        | [46.5,54.8]        | 100.0         |
| W/E Central/E (n=1,263)                             | 36.2                               | [33.2,39.4]        | 14.7        | [12.5,17.2]        | 49.1        | [45.9,52.3]        | 100.0         |
| S Central/SW/SE (n=835)                             | 29.6                               | [26.1,33.5]        | 14.1        | [11.4,17.3]        | 56.3        | [52.2,60.3]        | 100.0         |
| Detroit Metro (n=1,241)                             | 34.1                               | [30.9,37.6]        | 14.7        | [12.4,17.2]        | 51.2        | [47.7,54.7]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 12.7691                            |                    |             |                    |             |                    |               |
| Design-based F(5.37, 21865.78) =                    | 1.6610                             | Pr =               | 0.135       |                    |             |                    |               |
| <b>Low healthcare utilizers</b>                     |                                    |                    |             |                    |             |                    |               |
| Yes (n=489)   | 37.2                               | [31.7,43.1]        | 13.1        | [10.0,17.1]        | 49.6        | [43.8,55.5]        | 100.0         |
| No (n=3,595)  | 33.6                               | [31.7,35.6]        | 14.6        | [13.2,16.1]        | 51.8        | [49.7,53.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2407                             |                    |             |                    |             |                    |               |
| Design-based F(1.97, 8030.61) =                     | 0.8249                             | Pr =               | 0.437       |                    |             |                    |               |
| <b>High ER utilizers</b>                            |                                    |                    |             |                    |             |                    |               |
| Yes (n=156)   | 25.4                               | [18.2,34.3]        | 18.2        | [11.2,28.2]        | 56.3        | [46.2,65.9]        | 100.0         |
| No (n=3,928)  | 34.6                               | [32.6,36.5]        | 14.2        | [12.9,15.6]        | 51.3        | [49.2,53.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.0247                             |                    |             |                    |             |                    |               |
| Design-based F(1.95, 7939.97) =                     | 1.8216                             | Pr =               | 0.163       |                    |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                    |                    |             |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,159)                   | 30.4                               | [27.2,33.7]        | 14.7        | [12.3,17.4]        | 55.0        | [51.4,58.5]        | 100.0         |
| No chronic disease (n=2,925)                        | 35.4                               | [33.2,37.7]        | 14.3        | [12.7,16.0]        | 50.3        | [48.0,52.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.1419                             |                    |             |                    |             |                    |               |
| Design-based F(2.00, 8143.98) =                     | 3.1140                             | Pr =               | 0.044       |                    |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                    |                    |             |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,031)                             | 32.9                               | [30.3,35.5]        | 15.3        | [13.4,17.5]        | 51.8        | [49.0,54.6]        | 100.0         |
| No MH/SA (n=2,053)                                  | 35.3                               | [32.7,38.1]        | 13.5        | [11.7,15.4]        | 51.2        | [48.4,54.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.3438                             |                    |             |                    |             |                    |               |
| Design-based F(2.00, 8141.91) =                     | 1.3178                             | Pr =               | 0.268       |                    |             |                    |               |
| <b>Total (n=4,084)</b>                              | <b>34.2</b>                        | <b>[32.3,36.1]</b> | <b>14.4</b> | <b>[13.0,15.8]</b> | <b>51.5</b> | <b>[49.5,53.5]</b> | <b>100.0</b>  |

### 3.8 Q: Some kinds of visits, tests and medicines have no copays.

Universe: All respondents

|   | HMP: Some services have no copay |                    |            |                  |             |                    | Total<br>Row% |
|---|----------------------------------|--------------------|------------|------------------|-------------|--------------------|---------------|
|   | Yes                              |                    | No         |                  | Don't know  |                    |               |
|   | Row%                             | 95%CI              | Row%       | 95%CI            | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |                                  |                    |            |                  |             |                    |               |
| 0-35% (n=1,597)                                     | 74.8                             | [71.8,77.5]        | 4.6        | [3.4,6.1]        | 20.6        | [18.1,23.4]        | 100.0         |
| 36-99% (n=1,448)                                    | 78.2                             | [75.5,80.7]        | 4.7        | [3.4,6.5]        | 17.1        | [14.9,19.5]        | 100.0         |
| ≥ 100% (n = 1,039)                                  | 74.1                             | [70.8,77.1]        | 4.4        | [3.1,6.1]        | 21.5        | [18.8,24.6]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 7.8245                           |                    |            |                  |             |                    |               |
| Design-based F(3.82, 15566.92) =                    | 1.3332                           | Pr =               | 0.256      |                  |             |                    |               |
| <b>Region</b>                                       |                                  |                    |            |                  |             |                    |               |
| UP/NW/NE (n=745)                                    | 77.8                             | [73.9,81.2]        | 2.7        | [1.7,4.3]        | 19.5        | [16.2,23.3]        | 100.0         |
| W/E Central/E (n=1,263)                             | 79.9                             | [77.2,82.4]        | 3.6        | [2.5,5.0]        | 16.5        | [14.3,19.0]        | 100.0         |
| S Central/SW/SE (n=835)                             | 75.6                             | [71.7,79.1]        | 4.0        | [2.7,5.8]        | 20.5        | [17.2,24.2]        | 100.0         |
| Detroit Metro (n=1,241)                             | 72.4                             | [69.1,75.4]        | 5.9        | [4.4,7.8]        | 21.7        | [18.9,24.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 28.3223                          |                    |            |                  |             |                    |               |
| Design-based F(5.34, 21736.17) =                    | 3.7079                           | Pr =               | 0.002      |                  |             |                    |               |
| <b>Low healthcare utilizers</b>                     |                                  |                    |            |                  |             |                    |               |
| Yes (n=489)   | 55.9                             | [50.0,61.7]        | 10.7       | [7.6,14.8]       | 33.4        | [28.0,39.4]        | 100.0         |
| No (n=3,595)  | 79.1                             | [77.4,80.8]        | 3.5        | [2.8,4.4]        | 17.4        | [15.8,19.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 165.2563                         |                    |            |                  |             |                    |               |
| Design-based F(2.00, 8124.49) =                     | 39.4785                          | Pr =               | 0.000      |                  |             |                    |               |
| <b>High ER utilizers</b>                            |                                  |                    |            |                  |             |                    |               |
| Yes (n=156)   | 81.2                             | [70.6,88.6]        | 1.9        | [0.7,5.0]        | 16.9        | [9.7,27.7]         | 100.0         |
| No (n=3,928)  | 75.3                             | [73.5,77.1]        | 4.7        | [3.9,5.7]        | 19.9        | [18.3,21.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.5106                           |                    |            |                  |             |                    |               |
| Design-based F(1.61, 6539.01) =                     | 1.2812                           | Pr =               | 0.274      |                  |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                  |                    |            |                  |             |                    |               |
| Chronic disease (HEDIS) (n=1,159)                   | 81.2                             | [78.2,84.0]        | 4.2        | [2.9,6.1]        | 14.5        | [12.1,17.3]        | 100.0         |
| No chronic disease (n=2,925)                        | 73.7                             | [71.5,75.8]        | 4.7        | [3.8,5.8]        | 21.6        | [19.7,23.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 25.5560                          |                    |            |                  |             |                    |               |
| Design-based F(2.00, 8130.95) =                     | 7.9684                           | Pr =               | 0.000      |                  |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                  |                    |            |                  |             |                    |               |
| MH/SA (HEDIS) (n=2,031)                             | 80.5                             | [78.1,82.7]        | 4.5        | [3.4,5.9]        | 15.0        | [13.0,17.2]        | 100.0         |
| No MH/SA (n=2,053)                                  | 71.0                             | [68.3,73.5]        | 4.7        | [3.6,6.0]        | 24.3        | [21.9,26.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 56.9855                          |                    |            |                  |             |                    |               |
| Design-based F(2.00, 8142.27) =                     | 15.7740                          | Pr =               | 0.000      |                  |             |                    |               |
| <b>Total (n=4,084)</b>                              | <b>75.6</b>                      | <b>[73.8,77.3]</b> | <b>4.6</b> | <b>[3.8,5.5]</b> | <b>19.8</b> | <b>[18.2,21.5]</b> | <b>100.0</b>  |

### 3.9 Q: I may get a reduction in the amount I might have to pay if I complete a Health Risk Assessment.

Universe: All respondents

|   | HMP: May get reduction in fees if I do HRA |                    |             |                   |             |                    | Total<br>Row% |
|---|--|--------------------|-------------|-------------------|-------------|--------------------|---------------|
|   | Yes  |                    | No          |                   | Don't know  |                    |               |
|   | Row%                                       | 95%CI              | Row%        | 95%CI             | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |  |                    |             |                   |             |                    |               |
| 0-35% (n=1,597)                                     | 26.7                                       | [24.0,29.7]        | 11.3        | [9.5,13.4]        | 61.9        | [58.8,64.9]        | 100.0         |
| 36-99% (n=1,445)                                    | 28.0                                       | [25.1,31.0]        | 10.6        | [8.9,12.7]        | 61.4        | [58.3,64.5]        | 100.0         |
| ≥ 100%(n = 1,039)                                   | 32.0                                       | [28.8,35.5]        | 9.4         | [7.5,11.6]        | 58.6        | [55.1,62.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.0334                                     |                    |             |                   |             |                    |               |
| Design-based F(3.85, 15667.82) =                    | 1.6377                                     | Pr =               | 0.164       |                   |             |                    |               |
| <b>Region</b>                                       |  |                    |             |                   |             |                    |               |
| UP/NW/NE (n=745)                                    | 28.7                                       | [25.0,32.6]        | 9.6         | [7.5,12.1]        | 61.8        | [57.7,65.7]        | 100.0         |
| W/E Central/E (n=1,262)                             | 29.6                                       | [26.7,32.5]        | 9.8         | [8.1,11.8]        | 60.7        | [57.5,63.7]        | 100.0         |
| S Central/SW/SE (n=834)                             | 27.9                                       | [24.3,31.8]        | 9.9         | [7.8,12.5]        | 62.2        | [58.2,66.1]        | 100.0         |
| Detroit Metro (n=1,240)                             | 27.2                                       | [24.1,30.5]        | 12.0        | [9.9,14.4]        | 60.8        | [57.3,64.3]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 6.1960                                     |                    |             |                   |             |                    |               |
| Design-based F(5.29, 21515.18) =                    | 0.8237                                     | Pr =               | 0.538       |                   |             |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                   |             |                    |               |
| Yes (n=489)   | 27.0                                       | [22.0,32.7]        | 11.8        | [8.7,15.8]        | 61.1        | [55.3,66.7]        | 100.0         |
| No (n=3,592)  | 28.3                                       | [26.4,30.3]        | 10.5        | [9.3,11.9]        | 61.1        | [59.1,63.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1017                                     |                    |             |                   |             |                    |               |
| Design-based F(1.98, 8071.53) =                     | 0.2673                                     | Pr =               | 0.764       |                   |             |                    |               |
| <b>High ER utilizers</b>                            |  |                    |             |                   |             |                    |               |
| Yes (n=156)   | 21.9                                       | [14.6,31.6]        | 11.1        | [6.6,18.1]        | 67.0        | [57.0,75.6]        | 100.0         |
| No (n=3,925)  | 28.4                                       | [26.6,30.3]        | 10.7        | [9.5,12.0]        | 60.9        | [58.9,62.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.6483                                     |                    |             |                   |             |                    |               |
| Design-based F(1.96, 7990.21) =                     | 1.0319                                     | Pr =               | 0.355       |                   |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                   |             |                    |               |
| Chronic disease (HEDIS) (n=1,158)                   | 27.0                                       | [23.9,30.3]        | 10.9        | [8.9,13.4]        | 62.1        | [58.5,65.5]        | 100.0         |
| No chronic disease (n=2,923)                        | 28.5                                       | [26.4,30.7]        | 10.7        | [9.3,12.2]        | 60.8        | [58.5,63.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.8734                                     |                    |             |                   |             |                    |               |
| Design-based F(2.00, 8133.79) =                     | 0.2931                                     | Pr =               | 0.746       |                   |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                   |             |                    |               |
| MH/SA (HEDIS) (n=2,031)                             | 27.9                                       | [25.5,30.4]        | 10.9        | [9.4,12.7]        | 61.2        | [58.5,63.9]        | 100.0         |
| No MH/SA (n=2,050)                                  | 28.3                                       | [25.8,31.0]        | 10.6        | [8.9,12.5]        | 61.1        | [58.2,63.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1706                                     |                    |             |                   |             |                    |               |
| Design-based F(2.00, 8128.44) =                     | 0.0513                                     | Pr =               | 0.950       |                   |             |                    |               |
| <b>Total (n=4,081)</b>                              | <b>28.1</b>                                | <b>[26.3,30.0]</b> | <b>10.7</b> | <b>[9.6,12.0]</b> | <b>61.1</b> | <b>[59.2,63.1]</b> | <b>100.0</b>  |

### 3.10 Q: Information about the healthy behavior rewards that I can earn has led me to do something I might not have done otherwise.

Universe: All respondents

|   | HMP: health behavior rewards impact |                  |             |                    |             |                    |             |                    |                   |                  |             |                    | Total<br>Row% |
|---|-------------------------------------|------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------------|------------------|-------------|--------------------|---------------|
|   | Strongly agree                      |                  | Agree       |                    | Neutral     |                    | Disagree    |                    | Strongly disagree |                  | Don't know  |                    |               |
|   | Row%                                | 95%CI            | Row%        | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              | Row%              | 95%CI            | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |                                     |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| 0-35% (n=1,598)                                     | 6.2                                 | [4.8,8.0]        | 35.5        | [32.5,38.6]        | 11.2        | [9.4,13.2]         | 24.2        | [21.6,26.9]        | 2.6               | [1.8,3.7]        | 20.3        | [18.0,22.8]        | 100.0         |
| 36-99% (n=1,448)                                    | 4.5                                 | [3.3,6.0]        | 37.3        | [34.3,40.5]        | 12.3        | [10.5,14.4]        | 22.2        | [19.8,24.9]        | 1.2               | [0.8,2.0]        | 22.4        | [20.0,25.1]        | 100.0         |
| ≥ 100% (n = 1, 038)                                 | 3.9                                 | [2.8,5.4]        | 32.3        | [29.1,35.6]        | 13.8        | [11.5,16.4]        | 26.5        | [23.3,29.9]        | 1.5               | [0.9,2.4]        | 22.2        | [19.4,25.2]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 28.4064                             |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Design-based F(9.54, 38834.69) =                    | 2.2353                              |                  | Pr =        | 0.015              |             |                    |             |                    |                   |                  |             |                    |               |
| <b>Region</b>                                       |                                     |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| UP/NW/NE (n=745)                                    | 6.0                                 | [4.2,8.5]        | 34.4        | [30.6,38.4]        | 12.9        | [10.3,15.9]        | 23.4        | [20.2,27.0]        | 1.6               | [0.7,3.5]        | 21.8        | [18.6,25.2]        | 100.0         |
| W/E Central/E (n=1,263)                             | 5.1                                 | [3.8,6.8]        | 33.0        | [30.2,36.0]        | 12.9        | [10.9,15.2]        | 24.8        | [22.1,27.8]        | 2.5               | [1.7,3.7]        | 21.6        | [19.1,24.4]        | 100.0         |
| S Central/SW/SE (n=836)                             | 3.4                                 | [2.2,5.2]        | 34.4        | [30.4,38.5]        | 15.7        | [12.8,19.1]        | 23.5        | [20.4,27.0]        | 1.6               | [0.9,2.8]        | 21.5        | [18.5,24.9]        | 100.0         |
| Detroit Metro (n=1,240)                             | 6.0                                 | [4.5,8.0]        | 37.6        | [34.2,41.1]        | 9.7         | [7.9,11.9]         | 24.0        | [21.1,27.1]        | 1.9               | [1.1,3.1]        | 20.9        | [18.3,23.7]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 33.1022                             |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Design-based F(13.54, 55147.53) =                   | 1.7155                              |                  | Pr =        | 0.048              |             |                    |             |                    |                   |                  |             |                    |               |
| <b>Low healthcare utilizers</b>                     |                                     |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Yes (n=490)   | 6.2                                 | [3.6,10.6]       | 33.4        | [28.0,39.4]        | 17.9        | [13.9,22.8]        | 23.7        | [19.4,28.7]        | 2.4               | [1.3,4.5]        | 16.3        | [12.7,20.6]        | 100.0         |
| No (n=3,594)  | 5.1                                 | [4.2,6.1]        | 35.8        | [33.8,37.8]        | 10.9        | [9.8,12.2]         | 24.1        | [22.4,26.0]        | 1.9               | [1.4,2.6]        | 22.2        | [20.6,23.9]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 33.0948                             |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Design-based F(4.75, 19325.52) =                    | 3.1827                              |                  | Pr =        | 0.008              |             |                    |             |                    |                   |                  |             |                    |               |
| <b>High ER utilizers</b>                            |                                     |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Yes (n=156)   | 6.5                                 | [3.1,13.3]       | 34.0        | [25.2,44.2]        | 4.6         | [2.4,8.8]          | 28.2        | [19.6,38.8]        | 1.3               | [0.4,4.2]        | 25.2        | [17.7,34.6]        | 100.0         |
| No (n=3,928)  | 5.2                                 | [4.3,6.2]        | 35.5        | [33.5,37.4]        | 12.3        | [11.1,13.7]        | 23.9        | [22.2,25.6]        | 2.0               | [1.5,2.6]        | 21.1        | [19.6,22.7]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 12.3798                             |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Design-based F(4.52, 18410.55) =                    | 1.6235                              |                  | Pr =        | 0.157              |             |                    |             |                    |                   |                  |             |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Chronic disease (HEDIS) (n=1,159)                   | 5.0                                 | [3.7,6.8]        | 35.6        | [32.2,39.1]        | 8.2         | [6.6,10.2]         | 24.8        | [21.8,28.1]        | 1.8               | [1.1,3.1]        | 24.6        | [21.6,27.7]        | 100.0         |
| No chronic disease (n=2,925)                        | 5.3                                 | [4.3,6.6]        | 35.3        | [33.1,37.7]        | 13.3        | [11.8,14.9]        | 23.8        | [21.9,25.9]        | 2.0               | [1.5,2.8]        | 20.2        | [18.5,22.0]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 23.9929                             |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Design-based F(4.97, 20242.92) =                    | 3.3660                              |                  | Pr =        | 0.005              |             |                    |             |                    |                   |                  |             |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| MH/SA (HEDIS) (n=2,031)                             | 6.0                                 | [4.7,7.6]        | 36.5        | [33.9,39.3]        | 9.9         | [8.5,11.5]         | 23.7        | [21.4,26.1]        | 1.7               | [1.2,2.6]        | 22.2        | [20.1,24.4]        | 100.0         |
| No MH/SA (n=2,053)                                  | 4.5                                 | [3.4,5.9]        | 34.3        | [31.7,37.1]        | 14.0        | [12.2,16.0]        | 24.5        | [22.2,27.0]        | 2.2               | [1.5,3.2]        | 20.5        | [18.4,22.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 22.7393                             |                  |             |                    |             |                    |             |                    |                   |                  |             |                    |               |
| Design-based F(4.96, 20183.28) =                    | 2.7866                              |                  | Pr =        | 0.016              |             |                    |             |                    |                   |                  |             |                    |               |
| <b>Total (n=4,084)</b>                              | <b>5.2</b>                          | <b>[4.4,6.3]</b> | <b>35.4</b> | <b>[33.5,37.3]</b> | <b>12.0</b> | <b>[10.8,13.3]</b> | <b>24.1</b> | <b>[22.4,25.8]</b> | <b>2.0</b>        | <b>[1.5,2.6]</b> | <b>21.3</b> | <b>[19.8,22.9]</b> | <b>100.0</b>  |

### 3.11 Q: The amount I have to pay overall for the Healthy Michigan Plan seems fair.

Universe: All respondents

|   | HMP: price is fair |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|--------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree     |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%               | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                    |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=1,596)                                     | 24.0               | [21.5,26.6]        | 63.4        | [60.4,66.3]        | 4.8        | [3.5,6.5]        | 3.8        | [2.8,5.2]        | 0.5               | [0.2,1.4]        | 3.5        | [2.6,4.9]        | 100.0         |
| 36-99% (n=1,447)                                    | 28.5               | [25.7,31.4]        | 62.0        | [58.9,65.0]        | 2.8        | [2.0,3.9]        | 2.0        | [1.4,2.9]        | 1.1               | [0.5,2.6]        | 3.6        | [2.6,5.0]        | 100.0         |
| ≥ 100% (n = 1, 039)                                 | 21.6               | [18.9,24.6]        | 62.6        | [59.1,66.0]        | 4.9        | [3.5,6.7]        | 7.2        | [5.5,9.4]        | 1.1               | [0.6,2.0]        | 2.6        | [1.6,4.2]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 57.0996            |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.11, 37070.05) =                    | 3.8832             |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                    |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=745)                                    | 31.7               | [27.9,35.7]        | 58.1        | [54.0,62.2]        | 4.2        | [2.6,6.8]        | 4.0        | [2.7,6.0]        | 0.2               | [0.0,0.7]        | 1.8        | [1.0,3.3]        | 100.0         |
| W/E Central/E (n=1,261)                             | 27.4               | [24.6,30.4]        | 62.1        | [58.9,65.2]        | 3.5        | [2.5,4.9]        | 3.2        | [2.2,4.7]        | 1.1               | [0.5,2.3]        | 2.7        | [1.9,4.0]        | 100.0         |
| S Central/SW/SE (n=836)                             | 22.5               | [19.4,25.9]        | 66.2        | [62.3,69.8]        | 3.9        | [2.6,5.6]        | 4.0        | [2.7,6.1]        | 0.5               | [0.2,1.6]        | 2.9        | [1.9,4.4]        | 100.0         |
| Detroit Metro (n=1,240)                             | 22.7               | [19.9,25.7]        | 62.9        | [59.5,66.2]        | 4.8        | [3.4,6.8]        | 4.4        | [3.3,5.9]        | 0.9               | [0.4,1.9]        | 4.3        | [3.1,5.9]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 36.6501            |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(12.99, 52867.91) =                   | 1.9111             |                    | Pr =        | 0.024              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                    |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=490)   | 18.0               | [14.1,22.7]        | 62.1        | [56.2,67.6]        | 8.5        | [5.3,13.3]       | 5.0        | [3.1,7.9]        | 0.4               | [0.1,1.2]        | 6.1        | [3.9,9.4]        | 100.0         |
| No (n=3,592)  | 26.0               | [24.3,27.8]        | 63.0        | [61.0,65.0]        | 3.5        | [2.8,4.3]        | 3.8        | [3.1,4.6]        | 0.9               | [0.5,1.5]        | 2.9        | [2.3,3.7]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 64.6001            |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.60, 18722.31) =                    | 6.9047             |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                    |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=156)   | 23.7               | [16.0,33.7]        | 60.9        | [50.6,70.3]        | 1.8        | [0.4,7.3]        | 7.3        | [3.2,15.4]       | 0.7               | [0.2,3.1]        | 5.5        | [2.5,11.6]       | 100.0         |
| No (n=3,926)  | 24.8               | [23.2,26.6]        | 62.9        | [61.0,64.8]        | 4.3        | [3.5,5.3]        | 3.8        | [3.1,4.6]        | 0.8               | [0.5,1.4]        | 3.3        | [2.6,4.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 10.5957            |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.60, 18725.51) =                    | 1.2629             |                    | Pr =        | 0.279              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                    |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,158)                   | 26.4               | [23.4,29.7]        | 61.7        | [58.1,65.1]        | 3.7        | [2.5,5.5]        | 4.2        | [2.9,6.1]        | 1.0               | [0.4,2.6]        | 2.9        | [2.0,4.4]        | 100.0         |
| No chronic disease (n=2,924)                        | 24.2               | [22.3,26.2]        | 63.2        | [60.9,65.4]        | 4.4        | [3.4,5.6]        | 3.9        | [3.1,4.8]        | 0.7               | [0.4,1.3]        | 3.5        | [2.7,4.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 4.1680             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.81, 19593.39) =                    | 0.4889             |                    | Pr =        | 0.778              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                    |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,029)                             | 27.1               | [24.7,29.6]        | 61.0        | [58.3,63.7]        | 3.5        | [2.6,4.6]        | 3.7        | [2.8,4.8]        | 1.4               | [0.8,2.4]        | 3.4        | [2.6,4.5]        | 100.0         |
| No MH/SA (n=2,053)                                  | 22.6               | [20.5,24.9]        | 64.6        | [61.9,67.2]        | 4.9        | [3.7,6.6]        | 4.2        | [3.2,5.5]        | 0.3               | [0.1,0.6]        | 3.4        | [2.4,4.6]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 31.1678            |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.91, 19974.65) =                    | 4.0091             |                    | Pr =        | 0.001              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=4,082)</b>                              | <b>24.8</b>        | <b>[23.2,26.5]</b> | <b>62.8</b> | <b>[60.9,64.7]</b> | <b>4.2</b> | <b>[3.4,5.2]</b> | <b>4.0</b> | <b>[3.3,4.8]</b> | <b>0.8</b>        | <b>[0.5,1.3]</b> | <b>3.4</b> | <b>[2.7,4.2]</b> | <b>100.0</b>  |

### 3.12 Q: The amount I pay for the Healthy Michigan Plan is affordable.

Universe: All respondents

|   | HMP: affordable |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|-----------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree  |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%            | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                 |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=1,596)                                     | 24.4            | [21.8,27.1]        | 64.3        | [61.2,67.2]        | 4.2        | [3.0,5.9]        | 3.8        | [2.9,5.1]        | 0.5               | [0.2,1.1]        | 2.9        | [2.0,4.1]        | 100.0         |
| 36-99% (n=1,449)                                    | 28.9            | [26.2,31.8]        | 62.1        | [59.0,65.1]        | 2.3        | [1.6,3.3]        | 2.3        | [1.4,3.6]        | 0.8               | [0.3,2.0]        | 3.6        | [2.5,5.2]        | 100.0         |
| ≥ 100% (n = 1, 039)                                 | 21.4            | [18.7,24.5]        | 64.4        | [61.0,67.8]        | 5.7        | [4.2,7.7]        | 4.6        | [3.5,6.2]        | 1.1               | [0.5,2.5]        | 2.7        | [1.7,4.2]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 40.7736         |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.50, 38700.09) =                    | 2.6932          |                    | Pr =        | 0.003              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                 |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=745)                                    | 30.4            | [26.7,34.2]        | 62.7        | [58.6,66.6]        | 1.9        | [1.1,3.4]        | 3.5        | [2.1,5.6]        | 0.3               | [0.1,0.9]        | 1.3        | [0.5,3.1]        | 100.0         |
| W/E Central/E (n=1,262)                             | 26.4            | [23.7,29.3]        | 63.2        | [60.0,66.2]        | 3.7        | [2.7,5.2]        | 2.8        | [1.8,4.2]        | 1.1               | [0.5,2.2]        | 2.9        | [2.0,4.1]        | 100.0         |
| S Central/SW/SE (n=836)                             | 23.4            | [20.2,26.9]        | 65.8        | [61.9,69.5]        | 4.0        | [2.7,5.9]        | 3.5        | [2.4,5.1]        | 0.7               | [0.3,1.7]        | 2.7        | [1.7,4.2]        | 100.0         |
| Detroit Metro (n=1,241)                             | 23.9            | [21.0,26.9]        | 63.4        | [59.9,66.7]        | 4.5        | [3.1,6.4]        | 4.1        | [3.0,5.6]        | 0.6               | [0.2,1.5]        | 3.6        | [2.5,5.3]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 25.1739         |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(13.04, 53090.55) =                   | 1.3172          |                    | Pr =        | 0.194              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                 |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=490)   | 19.0            | [14.9,23.9]        | 62.7        | [56.8,68.3]        | 8.0        | [4.9,12.9]       | 3.5        | [2.0,6.2]        | 1.3               | [0.5,3.3]        | 5.4        | [3.2,8.8]        | 100.0         |
| No (n=3,594)  | 26.2            | [24.4,28.0]        | 63.9        | [61.9,65.8]        | 3.2        | [2.6,4.0]        | 3.6        | [2.9,4.4]        | 0.6               | [0.3,1.1]        | 2.6        | [2.0,3.4]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 59.3673         |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.88, 19880.82) =                    | 5.5392          |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                 |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=156)   | 23.4            | [15.7,33.2]        | 62.3        | [52.1,71.4]        | 2.0        | [0.7,5.3]        | 7.1        | [3.5,13.9]       | 0.7               | [0.2,3.1]        | 4.6        | [1.8,10.9]       | 100.0         |
| No (n=3,928)  | 25.2            | [23.5,26.9]        | 63.8        | [61.8,65.7]        | 4.0        | [3.2,5.0]        | 3.4        | [2.7,4.2]        | 0.7               | [0.4,1.2]        | 3.0        | [2.3,3.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 10.3346         |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.48, 18259.85) =                    | 1.4185          |                    | Pr =        | 0.220              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                 |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,159)                   | 27.5            | [24.4,30.8]        | 61.6        | [58.1,65.1]        | 2.8        | [1.9,4.2]        | 4.3        | [3.0,6.1]        | 1.1               | [0.4,2.6]        | 2.7        | [1.8,4.2]        | 100.0         |
| No chronic disease (n=2,925)                        | 24.3            | [22.4,26.3]        | 64.4        | [62.1,66.6]        | 4.3        | [3.4,5.5]        | 3.3        | [2.6,4.2]        | 0.6               | [0.3,1.1]        | 3.1        | [2.4,4.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 13.2623         |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.90, 19934.10) =                    | 1.6634          |                    | Pr =        | 0.141              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                 |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,030)                             | 28.3            | [25.9,30.9]        | 60.4        | [57.6,63.0]        | 3.3        | [2.4,4.4]        | 4.0        | [3.1,5.2]        | 0.9               | [0.5,1.7]        | 3.2        | [2.3,4.4]        | 100.0         |
| No MH/SA (n=2,054)                                  | 22.1            | [19.9,24.4]        | 66.8        | [64.1,69.4]        | 4.5        | [3.4,6.1]        | 3.1        | [2.3,4.3]        | 0.6               | [0.3,1.1]        | 2.9        | [2.0,4.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 30.3270         |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.97, 20232.03) =                    | 3.5182          |                    | Pr =        | 0.004              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=4,084)</b>                              | <b>25.1</b>     | <b>[23.4,26.8]</b> | <b>63.7</b> | <b>[61.8,65.6]</b> | <b>3.9</b> | <b>[3.2,4.9]</b> | <b>3.5</b> | <b>[2.9,4.3]</b> | <b>0.7</b>        | <b>[0.4,1.2]</b> | <b>3.0</b> | <b>[2.4,3.8]</b> | <b>100.0</b>  |

### 3.13 Q: I'd rather take some responsibility to pay something for my health care than not pay anything.

Universe: All respondents

|   | HMP: rather pay something than nothing |                    |             |                    |            |                   |             |                    |                   |                  |            |                  | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|------------|-------------------|-------------|--------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree                         |                    | Agree       |                    | Neutral    |                   | Disagree    |                    | Strongly disagree |                  | Don't know |                  |               |
|   | Row%                                   | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI             | Row%        | 95%CI              | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |  |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| 0-35% (n=1,593)                                     | 13.5                                   | [11.5,15.7]        | 54.0        | [50.8,57.1]        | 9.9        | [8.1,12.1]        | 17.1        | [14.9,19.5]        | 2.6               | [1.8,3.8]        | 2.9        | [2.0,4.3]        | 100.0         |
| 36-99% (n=1,443)                                    | 15.9                                   | [13.7,18.3]        | 59.0        | [55.9,62.1]        | 8.3        | [6.7,10.2]        | 12.1        | [10.2,14.2]        | 2.1               | [1.3,3.4]        | 2.6        | [1.6,4.2]        | 100.0         |
| ≥ 100% (n = 1,037)                                  | 16.6                                   | [14.2,19.2]        | 63.4        | [59.9,66.7]        | 6.3        | [4.7,8.2]         | 11.6        | [9.4,14.2]         | 0.8               | [0.4,1.6]        | 1.4        | [0.7,2.8]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 58.0207                                |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Design-based F(9.47, 38461.39) =                    | 4.0590                                 |                    | Pr =        | 0.000              |            |                   |             |                    |                   |                  |            |                  |               |
| <b>Region</b>                                       |  |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| UP/NW/NE (n=745)                                    | 17.5                                   | [14.5,20.9]        | 60.9        | [56.7,64.9]        | 8.7        | [6.4,11.7]        | 11.4        | [9.0,14.3]         | 0.7               | [0.3,1.6]        | 0.8        | [0.3,2.4]        | 100.0         |
| W/E Central/E (n=1,259)                             | 15.1                                   | [13.0,17.4]        | 59.4        | [56.2,62.5]        | 10.2       | [8.3,12.4]        | 10.7        | [8.8,13.0]         | 2.3               | [1.5,3.5]        | 2.3        | [1.5,3.4]        | 100.0         |
| S Central/SW/SE (n=834)                             | 18.0                                   | [14.9,21.5]        | 58.4        | [54.2,62.4]        | 8.1        | [5.9,10.9]        | 11.7        | [9.5,14.4]         | 2.2               | [1.2,4.0]        | 1.7        | [0.9,3.0]        | 100.0         |
| Detroit Metro (n=1,235)                             | 12.6                                   | [10.6,15.1]        | 54.7        | [51.2,58.1]        | 8.1        | [6.3,10.4]        | 18.9        | [16.4,21.8]        | 2.2               | [1.4,3.6]        | 3.4        | [2.3,5.2]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 78.9330                                |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Design-based F(13.20, 53620.44) =                   | 3.9871                                 |                    | Pr =        | 0.000              |            |                   |             |                    |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Yes (n=489)   | 14.8                                   | [10.9,19.8]        | 54.8        | [48.9,60.6]        | 12.1       | [8.6,16.7]        | 14.6        | [10.8,19.5]        | 1.7               | [0.9,3.1]        | 2.1        | [0.8,5.0]        | 100.0         |
| No (n=3,584)  | 14.8                                   | [13.4,16.2]        | 57.7        | [55.6,59.8]        | 8.1        | [7.0,9.4]         | 14.6        | [13.1,16.1]        | 2.2               | [1.6,3.0]        | 2.6        | [2.0,3.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 11.6729                                |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Design-based F(4.76, 19315.21) =                    | 1.0887                                 |                    | Pr =        | 0.363              |            |                   |             |                    |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Yes (n=156)   | 8.3                                    | [5.0,13.5]         | 53.2        | [43.0,63.2]        | 9.7        | [4.2,20.7]        | 20.3        | [13.3,29.8]        | 0.6               | [0.1,2.2]        | 7.9        | [3.0,19.4]       | 100.0         |
| No (n=3,917)  | 15.1                                   | [13.7,16.5]        | 57.5        | [55.5,59.4]        | 8.7        | [7.6,10.0]        | 14.3        | [12.9,15.8]        | 2.2               | [1.6,2.9]        | 2.3        | [1.7,3.0]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 33.8298                                |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Design-based F(3.79, 15383.80) =                    | 3.3796                                 |                    | Pr =        | 0.010              |            |                   |             |                    |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,155)                   | 13.6                                   | [11.4,16.1]        | 56.0        | [52.3,59.5]        | 7.0        | [5.2,9.3]         | 16.3        | [13.8,19.2]        | 3.2               | [2.1,5.0]        | 3.9        | [2.5,5.8]        | 100.0         |
| No chronic disease (n=2,918)                        | 15.2                                   | [13.6,16.9]        | 57.7        | [55.4,60.0]        | 9.3        | [8.0,10.8]        | 14.0        | [12.4,15.7]        | 1.7               | [1.2,2.5]        | 2.1        | [1.5,3.0]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 26.4953                                |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Design-based F(4.91, 19925.10) =                    | 3.1783                                 |                    | Pr =        | 0.008              |            |                   |             |                    |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,023)                             | 15.6                                   | [13.7,17.7]        | 55.4        | [52.6,58.1]        | 8.1        | [6.7,9.8]         | 15.1        | [13.3,17.2]        | 2.8               | [1.9,3.9]        | 3.0        | [2.0,4.4]        | 100.0         |
| No MH/SA (n=2,050)                                  | 14.0                                   | [12.2,15.9]        | 59.1        | [56.2,61.8]        | 9.3        | [7.7,11.3]        | 14.0        | [12.1,16.2]        | 1.5               | [0.9,2.4]        | 2.1        | [1.4,3.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 17.4448                                |                    |             |                    |            |                   |             |                    |                   |                  |            |                  |               |
| Design-based F(4.96, 20149.91) =                    | 1.9447                                 |                    | Pr =        | 0.084              |            |                   |             |                    |                   |                  |            |                  |               |
| <b>Total (n=4,073)</b>                              | <b>14.8</b>                            | <b>[13.5,16.2]</b> | <b>57.3</b> | <b>[55.3,59.2]</b> | <b>8.7</b> | <b>[7.6,10.0]</b> | <b>14.6</b> | <b>[13.2,16.0]</b> | <b>2.1</b>        | <b>[1.6,2.8]</b> | <b>2.5</b> | <b>[1.9,3.3]</b> | <b>100.0</b>  |

### 3.14 Q: Have you received a bill or statement from the state that showed the services you received and how much you owe for the Healthy Michigan Plan?

Universe: All respondents

|   | Received MI health account statement |             |       |             |            |            | Total<br>Row% |
|---|--------------------------------------|-------------|-------|-------------|------------|------------|---------------|
|   | Yes                                  |             | No    |             | Don't know |            |               |
|   | Row%                                 | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI      |               |
| <b>FPL category</b>                                 |                                      |             |       |             |            |            |               |
| 0-35% (n=1,600)                                     | 66.0                                 | [62.9,69.1] | 30.8  | [27.9,34.0] | 3.1        | [2.2,4.3]  | 100.0         |
| 36-99% (n=1,450)                                    | 67.2                                 | [64.1,70.2] | 28.5  | [25.6,31.5] | 4.3        | [3.2,5.9]  | 100.0         |
| ≥ 100%(n = 1,040)                                   | 75.4                                 | [72.0,78.5] | 22.2  | [19.2,25.5] | 2.4        | [1.5,3.8]  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 28.9485                              |             |       |             |            |            |               |
| Design-based F(3.86, 15751.04) =                    | 5.0470                               | Pr =        | 0.001 |             |            |            |               |
| <b>Region</b>                                       |                                      |             |       |             |            |            |               |
| UP/NW/NE (n=746)                                    | 77.1                                 | [73.3,80.5] | 19.4  | [16.2,23.0] | 3.5        | [2.2,5.6]  | 100.0         |
| W/E Central/E (n=1,265)                             | 71.9                                 | [68.7,74.8] | 24.5  | [21.7,27.5] | 3.7        | [2.5,5.3]  | 100.0         |
| S Central/SW/SE (n=837)                             | 68.0                                 | [63.8,71.9] | 29.1  | [25.3,33.3] | 2.9        | [1.8,4.5]  | 100.0         |
| Detroit Metro (n=1,242)                             | 64.1                                 | [60.6,67.5] | 32.6  | [29.3,36.1] | 3.3        | [2.3,4.6]  | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 40.0171                              |             |       |             |            |            |               |
| Design-based F(5.43, 22159.92) =                    | 4.9520                               | Pr =        | 0.000 |             |            |            |               |
| <b>Low healthcare utilizers</b>                     |                                      |             |       |             |            |            |               |
| Yes (n=491)   | 46.4                                 | [40.8,52.2] | 47.9  | [42.1,53.8] | 5.7        | [3.8,8.3]  | 100.0         |
| No (n=3,599)  | 72.1                                 | [70.1,74.0] | 24.9  | [23.1,26.9] | 2.9        | [2.3,3.7]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 161.1244                             |             |       |             |            |            |               |
| Design-based F(1.95, 7939.00) =                     | 43.6386                              | Pr =        | 0.000 |             |            |            |               |
| <b>High ER utilizers</b>                            |                                      |             |       |             |            |            |               |
| Yes (n=156)   | 54.5                                 | [44.1,64.5] | 42.4  | [32.4,53.0] | 3.1        | [0.9,10.8] | 100.0         |
| No (n=3,934)  | 68.9                                 | [66.9,70.8] | 27.8  | [25.9,29.8] | 3.3        | [2.7,4.1]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 18.1397                              |             |       |             |            |            |               |
| Design-based F(1.98, 8073.64) =                     | 4.0343                               | Pr =        | 0.018 |             |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |                                      |             |       |             |            |            |               |
| Chronic disease (HEDIS) (n=1,161)                   | 74.3                                 | [70.9,77.5] | 23.2  | [20.1,26.6] | 2.5        | [1.6,3.9]  | 100.0         |
| No chronic disease (n=2,929)                        | 66.2                                 | [63.8,68.4] | 30.2  | [28.0,32.5] | 3.6        | [2.9,4.6]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 23.8214                              |             |       |             |            |            |               |
| Design-based F(1.99, 8105.77) =                     | 7.8048                               | Pr =        | 0.000 |             |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                      |             |       |             |            |            |               |
| MH/SA (HEDIS) (n=2,034)                             | 68.5                                 | [65.7,71.1] | 28.5  | [25.9,31.2] | 3.1        | [2.2,4.2]  | 100.0         |
| No MH/SA (n=2,056)                                  | 68.0                                 | [65.2,70.7] | 28.4  | [25.8,31.2] | 3.6        | [2.7,4.7]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.7459                               |             |       |             |            |            |               |
| Design-based F(1.99, 8101.51) =                     | 0.2141                               | Pr =        | 0.806 |             |            |            |               |
| <b>Total (n=4,090)</b>                              | 68.2                                 | [66.3,70.1] | 28.5  | [26.6,30.4] | 3.3        | [2.7,4.1]  | 100.0         |



### 3.15 Q: Have you had any questions or problems using your Healthy Michigan Plan insurance?

Universe: All respondents

|   | Any questions about HMP |                    |             |                    |            |                  | Total<br>Row% |
|---|-------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                     |                    | No          |                    | Don't know |                  |               |
|   | Row%                    | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                         |                    |             |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 15.5                    | [13.4,17.8]        | 84.4        | [82.1,86.5]        | 0.1        | [0.0,0.4]        | 100.0         |
| 36-99% (n=1,450)                                    | 16.1                    | [14.0,18.5]        | 83.8        | [81.4,85.9]        | 0.0        | [0.0,0.3]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 14.8                    | [12.5,17.5]        | 84.7        | [82.0,87.0]        | 0.5        | [0.2,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.6711                  |                    |             |                    |            |                  |               |
| Design-based F(3.57, 14538.01) =                    | 2.2655                  | Pr =               | 0.067       |                    |            |                  |               |
| <b>Region</b>                                       |                         |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 13.4                    | [10.9,16.3]        | 86.2        | [83.2,88.7]        | 0.5        | [0.1,2.3]        | 100.0         |
| W/E Central/E (n=1,265)                             | 15.5                    | [13.3,17.9]        | 84.3        | [81.8,86.4]        | 0.3        | [0.1,0.9]        | 100.0         |
| S Central/SW/SE (n=837)                             | 18.5                    | [15.7,21.8]        | 81.4        | [78.2,84.3]        | 0.1        | [0.0,0.5]        | 100.0         |
| Detroit Metro (n=1,241)                             | 14.8                    | [12.5,17.4]        | 85.2        | [82.5,87.5]        | 0.1        | [0.0,0.2]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 11.9769                 |                    |             |                    |            |                  |               |
| Design-based F(5.01, 20410.01) =                    | 2.0053                  | Pr =               | 0.074       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                         |                    |             |                    |            |                  |               |
| Yes (n=491)   | 11.4                    | [8.6,15.0]         | 88.1        | [84.4,91.0]        | 0.5        | [0.2,1.3]        | 100.0         |
| No (n=3,598)  | 16.3                    | [14.8,17.9]        | 83.6        | [82.0,85.1]        | 0.1        | [0.0,0.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 15.4292                 |                    |             |                    |            |                  |               |
| Design-based F(1.89, 7702.88) =                     | 5.7984                  | Pr =               | 0.004       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                         |                    |             |                    |            |                  |               |
| Yes (n=156)   | 12.8                    | [7.9,20.1]         | 87.2        | [79.9,92.1]        | 0.0        |                  | 100.0         |
| No (n=3,933)  | 15.7                    | [14.3,17.2]        | 84.2        | [82.7,85.6]        | 0.2        | [0.1,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.3761                  |                    |             |                    |            |                  |               |
| Design-based F(1.93, 7860.77) =                     | 0.5382                  | Pr =               | 0.577       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                         |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 15.8                    | [13.2,18.7]        | 84.2        | [81.2,86.8]        | 0.0        | [0.0,0.3]        | 100.0         |
| No chronic disease (n=2,929)                        | 15.5                    | [13.9,17.2]        | 84.3        | [82.6,85.9]        | 0.2        | [0.1,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1340                  |                    |             |                    |            |                  |               |
| Design-based F(1.60, 6523.08) =                     | 0.5515                  | Pr =               | 0.538       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                         |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 17.4                    | [15.4,19.5]        | 82.6        | [80.4,84.6]        | 0.0        | [0.0,0.2]        | 100.0         |
| No MH/SA (n=2,055)                                  | 13.8                    | [12.0,15.9]        | 85.9        | [83.8,87.7]        | 0.3        | [0.1,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 13.9840                 |                    |             |                    |            |                  |               |
| Design-based F(1.58, 6440.08) =                     | 6.5872                  | Pr =               | 0.003       |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>15.5</b>             | <b>[14.2,17.0]</b> | <b>84.3</b> | <b>[82.8,85.7]</b> | <b>0.2</b> | <b>[0.1,0.3]</b> | <b>100.0</b>  |

### 3.16 Q: Did anyone give you help or advice?

Universe: Respondents who had questions or problems with their Healthy Michigan Plan insurance

|   | Did you get help? |                    |             |                    |            |                  | Total<br>Row% |
|---|-------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes               |                    | No          |                    | Don't know |                  |               |
|   | Row%              | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                   |                    |             |                    |            |                  |               |
| 0-35% (n=248)                                       | 49.0              | [41.4,56.6]        | 50.4        | [42.8,58.0]        | 0.6        | [0.1,4.3]        | 100.0         |
| 36-99% (n=229)                                      | 49.4              | [41.9,56.8]        | 50.3        | [42.9,57.8]        | 0.3        | [0.0,2.2]        | 100.0         |
| ≥ 100%(n = 155)                                     | 41.4              | [32.8,50.5]        | 54.9        | [45.6,63.9]        | 3.7        | [0.9,13.8]       | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 10.6268           |                    |             |                    |            |                  |               |
| Design-based F(3.48, 2155.00) =                     | 1.9832            | Pr =               | 0.104       |                    |            |                  |               |
| <b>Region</b>                                       |                   |                    |             |                    |            |                  |               |
| UP/NW/NE (n=106)                                    | 50.7              | [40.1,61.3]        | 48.4        | [37.9,59.1]        | 0.8        | [0.1,5.7]        | 100.0         |
| W/E Central/E (n=193)                               | 54.0              | [46.2,61.6]        | 42.6        | [35.2,50.4]        | 3.4        | [1.0,10.6]       | 100.0         |
| S Central/SW/SE (n=154)                             | 49.6              | [40.7,58.5]        | 50.4        | [41.5,59.3]        | 0.0        |                  | 100.0         |
| Detroit Metro (n=179)                               | 41.7              | [33.2,50.7]        | 58.1        | [49.1,66.6]        | 0.2        | [0.0,1.6]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 20.4759           |                    |             |                    |            |                  |               |
| Design-based F(4.48, 2779.60) =                     | 3.0532            | Pr =               | 0.012       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                   |                    |             |                    |            |                  |               |
| Yes (n=71)  | 31.3              | [20.0,45.4]        | 63.0        | [48.3,75.6]        | 5.8        | [1.3,22.5]       | 100.0         |
| No (n=561)  | 49.7              | [44.6,54.9]        | 49.8        | [44.6,54.9]        | 0.5        | [0.1,2.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 22.1392           |                    |             |                    |            |                  |               |
| Design-based F(1.95, 1211.96) =                     | 6.5948            | Pr =               | 0.002       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                   |                    |             |                    |            |                  |               |
| Yes (n=21)  | 27.4              | [11.7,51.8]        | 72.6        | [48.2,88.3]        | 0.0        |                  | 100.0         |
| No (n=611)  | 48.4              | [43.5,53.4]        | 50.4        | [45.5,55.4]        | 1.2        | [0.4,3.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.4537            |                    |             |                    |            |                  |               |
| Design-based F(1.93, 1198.09) =                     | 1.3891            | Pr =               | 0.250       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                   |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=169)                     | 47.9              | [38.6,57.5]        | 51.8        | [42.2,61.2]        | 0.3        | [0.0,1.9]        | 100.0         |
| No chronic disease (n=463)                          | 47.6              | [42.0,53.2]        | 51.0        | [45.4,56.7]        | 1.4        | [0.5,4.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.3796            |                    |             |                    |            |                  |               |
| Design-based F(1.64, 1017.54) =                     | 0.6558            | Pr =               | 0.490       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                   |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=345)                               | 47.7              | [41.4,54.2]        | 51.4        | [45.0,57.7]        | 0.9        | [0.2,3.5]        | 100.0         |
| No MH/SA (n=287)                                    | 47.5              | [40.3,54.9]        | 51.1        | [43.7,58.4]        | 1.4        | [0.3,6.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.3607            |                    |             |                    |            |                  |               |
| Design-based F(1.98, 1226.32) =                     | 0.1038            | Pr =               | 0.899       |                    |            |                  |               |
| <b>Total (n=632)</b>                                | <b>47.7</b>       | <b>[42.8,52.5]</b> | <b>51.2</b> | <b>[46.4,56.1]</b> | <b>1.1</b> | <b>[0.4,3.2]</b> | <b>100.0</b>  |

### 3.17 Q: Who helped you?

#### 3.17.1 Healthy Michigan Plan Help- Helpline (undistinguished)

Universe: Respondents who received help or advice

|   | HMP help: helpline (generic) |             |            |             | Total<br>Row% |
|---|------------------------------|-------------|------------|-------------|---------------|
|   | Yes<br>Row%                  | 95%CI       | No<br>Row% | 95%CI       |               |
| <b>FPL category</b>                                 |                              |             |            |             |               |
| 0-35% (n=133)                                       | 11.7                         | [5.5,23.1]  | 88.3       | [76.9,94.5] | 100.0         |
| 36-99% (n=121)                                      | 18.0                         | [11.4,27.2] | 82.0       | [72.8,88.6] | 100.0         |
| ≥ 100% (n = 70)                                     | 13.4                         | [6.3,26.4]  | 86.6       | [73.6,93.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.1195                       |             |            |             |               |
| Design-based F(1.80, 562.81) =                      | 0.6460                       | Pr =        | 0.509      |             |               |
| <b>Region</b>                                       |                              |             |            |             |               |
| UP/NW/NE (n=55)                                     | 12.2                         | [3.9,32.1]  | 87.8       | [67.9,96.1] | 100.0         |
| W/E Central/E (n=104)                               | 6.1                          | [2.9,12.4]  | 93.9       | [87.6,97.1] | 100.0         |
| S Central/SW/SE (n=78)                              | 15.7                         | [8.3,27.5]  | 84.3       | [72.5,91.7] | 100.0         |
| Detroit Metro (n=87)                                | 20.1                         | [10.6,34.7] | 79.9       | [65.3,89.4] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 9.3828                       |             |            |             |               |
| Design-based F(2.75, 858.65) =                      | 2.2717                       | Pr =        | 0.084      |             |               |
| <b>Low healthcare utilizers</b>                     |                              |             |            |             |               |
| Yes (n=24)  | 19.9                         | [7.0,45.1]  | 80.1       | [54.9,93.0] | 100.0         |
| No (n=300)  | 13.4                         | [8.8,19.9]  | 86.6       | [80.1,91.2] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7891                       |             |            |             |               |
| Design-based F(1.00, 312.00) =                      | 0.5455                       | Pr =        | 0.461      |             |               |
| <b>High ER utilizers</b>                            |                              |             |            |             |               |
| Yes (n=6)   | 14.8                         | [1.9,60.6]  | 85.2       | [39.4,98.1] | 100.0         |
| No (n=318)  | 13.9                         | [9.3,20.2]  | 86.1       | [79.8,90.7] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0048                       |             |            |             |               |
| Design-based F(1.00, 312.00) =                      | 0.0044                       | Pr =        | 0.947      |             |               |
| <b>Chronic disease (HEDIS)</b>                      |                              |             |            |             |               |
| Chronic disease (HEDIS) (n=92)                      | 12.7                         | [6.9,22.3]  | 87.3       | [77.7,93.1] | 100.0         |
| No chronic disease (n=232)                          | 14.3                         | [8.8,22.3]  | 85.7       | [77.7,91.2] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1273                       |             |            |             |               |
| Design-based F(1.00, 312.00) =                      | 0.0939                       | Pr =        | 0.760      |             |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                              |             |            |             |               |
| MH/SA (HEDIS) (n=173)                               | 11.2                         | [6.5,18.5]  | 88.8       | [81.5,93.5] | 100.0         |
| No MH/SA (n=151)                                    | 17.1                         | [9.7,28.3]  | 82.9       | [71.7,90.3] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.3786                       |             |            |             |               |
| Design-based F(1.00, 312.00) =                      | 1.2581                       | Pr =        | 0.263      |             |               |
| <b>Total (n=324)</b>                                | 13.9                         | [9.4,20.1]  | 86.1       | [79.9,90.6] | 100.0         |

### 3.17.2 Healthy Michigan Plan Help- Healthy Michigan Plan beneficiary hotline

Universe: Respondents who received help or advice

|   | HMP help: HMP beneficiary hotline |                    |             |                    | Total<br>Row% |
|---|-----------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                       | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                   |                    |             |                    |               |
| 0-35% (n=133)                                       | 13.2                              | [7.8,21.7]         | 86.8        | [78.3,92.2]        | 100.0         |
| 36-99% (n=121)                                      | 12.9                              | [7.5,21.2]         | 87.1        | [78.8,92.5]        | 100.0         |
| ≥ 100% (n = 70)                                     | 22.9                              | [12.9,37.5]        | 77.1        | [62.5,87.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.4251                            |                    |             |                    |               |
| Design-based F(1.96, 612.49) =                      | 1.3289                            | Pr =               | 0.265       |                    |               |
| <b>Region</b>                                       |                                   |                    |             |                    |               |
| UP/NW/NE (n=55)                                     | 10.9                              | [4.9,22.6]         | 89.1        | [77.4,95.1]        | 100.0         |
| W/E Central/E (n=104)                               | 11.3                              | [6.4,19.1]         | 88.7        | [80.9,93.6]        | 100.0         |
| S Central/SW/SE (n=78)                              | 19.1                              | [10.8,31.6]        | 80.9        | [68.4,89.2]        | 100.0         |
| Detroit Metro (n=87)                                | 15.8                              | [8.6,27.4]         | 84.2        | [72.6,91.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.5619                            |                    |             |                    |               |
| Design-based F(2.59, 807.67) =                      | 0.7538                            | Pr =               | 0.502       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                   |                    |             |                    |               |
| Yes (n=24)  | 22.8                              | [8.8,47.5]         | 77.2        | [52.5,91.2]        | 100.0         |
| No (n=300)  | 14.1                              | [9.9,19.5]         | 85.9        | [80.5,90.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3351                            |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.9783                            | Pr =               | 0.323       |                    |               |
| <b>High ER utilizers</b>                            |                                   |                    |             |                    |               |
| Yes (n=6)   | 14.8                              | [1.9,60.6]         | 85.2        | [39.4,98.1]        | 100.0         |
| No (n=318)  | 14.7                              | [10.6,20.1]        | 85.3        | [79.9,89.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0000                            |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.0000                            | Pr =               | 0.996       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                    |             |                    |               |
| Chronic disease (HEDIS) (n=92)                      | 14.4                              | [7.4,26.0]         | 85.6        | [74.0,92.6]        | 100.0         |
| No chronic disease (n=232)                          | 14.8                              | [10.2,21.1]        | 85.2        | [78.9,89.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0095                            |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.0065                            | Pr =               | 0.936       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                    |             |                    |               |
| MH/SA (HEDIS) (n=173)                               | 12.4                              | [7.5,19.9]         | 87.6        | [80.1,92.5]        | 100.0         |
| No MH/SA (n=151)                                    | 17.4                              | [11.3,25.8]        | 82.6        | [74.2,88.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.5907                            |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 1.0716                            | Pr =               | 0.301       |                    |               |
| <b>Total (n=324)</b>                                | <b>14.7</b>                       | <b>[10.6,20.0]</b> | <b>85.3</b> | <b>[80.0,89.4]</b> | <b>100.0</b>  |

### 3.17.3 Healthy Michigan Plan Help- Health plan hotline

Universe: Respondents who received help or advice

|   | HMP help: health plan hotline |                    |             |                    | Total<br>Row% |
|---|-------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                   | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                               |                    |             |                    |               |
| 0-35% (n=133)                                       | 32.5                          | [23.7,42.8]        | 67.5        | [57.2,76.3]        | 100.0         |
| 36-99% (n=121)                                      | 28.9                          | [20.5,39.1]        | 71.1        | [60.9,79.5]        | 100.0         |
| ≥ 100%(n = 70)                                      | 37.7                          | [25.6,51.5]        | 62.3        | [48.5,74.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2352                        |                    |             |                    |               |
| Design-based F(1.95, 608.04) =                      | 0.4960                        | Pr =               | 0.604       |                    |               |
| <b>Region</b>                                       |                               |                    |             |                    |               |
| UP/NW/NE (n=55)                                     | 40.5                          | [26.8,55.9]        | 59.5        | [44.1,73.2]        | 100.0         |
| W/E Central/E (n=104)                               | 26.2                          | [17.4,37.5]        | 73.8        | [62.5,82.6]        | 100.0         |
| S Central/SW/SE (n=78)                              | 34.8                          | [23.5,48.1]        | 65.2        | [51.9,76.5]        | 100.0         |
| Detroit Metro (n=87)                                | 34.1                          | [23.3,46.8]        | 65.9        | [53.2,76.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.9623                        |                    |             |                    |               |
| Design-based F(2.72, 848.25) =                      | 0.7794                        | Pr =               | 0.494       |                    |               |
| <b>Low healthcare utilizers</b>                     |                               |                    |             |                    |               |
| Yes (n=24)  | 22.7                          | [8.5,48.4]         | 77.3        | [51.6,91.5]        | 100.0         |
| No (n=300)  | 33.0                          | [26.8,39.8]        | 67.0        | [60.2,73.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0604                        |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.7341                        | Pr =               | 0.392       |                    |               |
| <b>High ER utilizers</b>                            |                               |                    |             |                    |               |
| Yes (n=6)   | 52.2                          | [16.1,86.1]        | 47.8        | [13.9,83.9]        | 100.0         |
| No (n=318)  | 31.8                          | [25.9,38.4]        | 68.2        | [61.6,74.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.2713                        |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.9546                        | Pr =               | 0.329       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |                    |             |                    |               |
| Chronic disease (HEDIS) (n=92)                      | 29.1                          | [18.9,41.9]        | 70.9        | [58.1,81.1]        | 100.0         |
| No chronic disease (n=232)                          | 33.3                          | [26.4,41.1]        | 66.7        | [58.9,73.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5168                        |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.3579                        | Pr =               | 0.550       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |                    |             |                    |               |
| MH/SA (HEDIS) (n=173)                               | 31.9                          | [24.1,41.0]        | 68.1        | [59.0,75.9]        | 100.0         |
| No MH/SA (n=151)                                    | 32.6                          | [24.1,42.4]        | 67.4        | [57.6,75.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0160                        |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.0107                        | Pr =               | 0.918       |                    |               |
| <b>Total (n=324)</b>                                | <b>32.2</b>                   | <b>[26.3,38.8]</b> | <b>67.8</b> | <b>[61.2,73.7]</b> | <b>100.0</b>  |

### 3.17.4 Healthy Michigan Plan Help- Friend or relative

Universe: Respondents who received help or advice

|   | HMP help: friend/relative |                  |             |                    | Total<br>Row% |
|---|---------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%               | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                           |                  |             |                    |               |
| 0-35% (n=133)                                       | 3.7                       | [1.5,8.8]        | 96.3        | [91.2,98.5]        | 100.0         |
| 36-99% (n=121)                                      | 2.6                       | [0.9,7.1]        | 97.4        | [92.9,99.1]        | 100.0         |
| ≥ 100% (n = 70)                                     | 0.0                       |                  | 100.0       |                    | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.1088                    |                  |             |                    |               |
| Design-based F(1.85, 578.46) =                      | 1.0933                    | Pr =             | 0.332       |                    |               |
| <b>Region</b>                                       |                           |                  |             |                    |               |
| UP/NW/NE (n=55)                                     | 0.0                       |                  | 100.0       |                    | 100.0         |
| W/E Central/E (n=104)                               | 2.8                       | [0.8,9.3]        | 97.2        | [90.7,99.2]        | 100.0         |
| S Central/SW/SE (n=78)                              | 5.9                       | [2.0,15.8]       | 94.1        | [84.2,98.0]        | 100.0         |
| Detroit Metro (n=87)                                | 1.4                       | [0.3,5.4]        | 98.6        | [94.6,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.2551                    |                  |             |                    |               |
| Design-based F(2.90, 903.58) =                      | 1.4049                    | Pr =             | 0.241       |                    |               |
| <b>Low healthcare utilizers</b>                     |                           |                  |             |                    |               |
| Yes (n=24)  | 0.0                       |                  | 100.0       |                    | 100.0         |
| No (n=300)  | 3.0                       | [1.5,5.9]        | 97.0        | [94.1,98.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7311                    |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.6069                    | Pr =             | 0.437       |                    |               |
| <b>High ER utilizers</b>                            |                           |                  |             |                    |               |
| Yes (n=6)   | 26.9                      | [4.0,76.6]       | 73.1        | [23.4,96.0]        | 100.0         |
| No (n=318)  | 2.3                       | [1.1,4.6]        | 97.7        | [95.4,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 15.0213                   |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 9.6124                    | Pr =             | 0.002       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |                  |             |                    |               |
| Chronic disease (HEDIS) (n=92)                      | 2.2                       | [0.3,14.1]       | 97.8        | [85.9,99.7]        | 100.0         |
| No chronic disease (n=232)                          | 3.0                       | [1.4,6.1]        | 97.0        | [93.9,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1287                    |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.0773                    | Pr =             | 0.781       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |                  |             |                    |               |
| MH/SA (HEDIS) (n=173)                               | 4.0                       | [1.7,8.9]        | 96.0        | [91.1,98.3]        | 100.0         |
| No MH/SA (n=151)                                    | 1.4                       | [0.4,4.6]        | 98.6        | [95.4,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.0437                    |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 2.2221                    | Pr =             | 0.137       |                    |               |
| <b>Total (n=324)</b>                                | <b>2.8</b>                | <b>[1.4,5.5]</b> | <b>97.2</b> | <b>[94.5,98.6]</b> | <b>100.0</b>  |

### 3.17.5 Healthy Michigan Plan Help- Community health worker

Universe: Respondents who received help or advice

|   | HMP help: community health worker |                  |             |                    | Total<br>Row% |
|---|-----------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                       | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                   |                  |             |                    |               |
| 0-35% (n=133)                                       | 1.2                               | [0.3,4.4]        | 98.8        | [95.6,99.7]        | 100.0         |
| 36-99% (n=121)                                      | 0.4                               | [0.1,2.8]        | 99.6        | [97.2,99.9]        | 100.0         |
| ≥ 100%(n = 70)                                      | 3.6                               | [0.7,17.4]       | 96.4        | [82.6,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.6487                            |                  |             |                    |               |
| Design-based F(1.67, 520.34) =                      | 1.6012                            | Pr =             | 0.206       |                    |               |
| <b>Region</b>                                       |                                   |                  |             |                    |               |
| UP/NW/NE (n=55)                                     | 3.5                               | [1.1,11.1]       | 96.5        | [88.9,98.9]        | 100.0         |
| W/E Central/E (n=104)                               | 0.7                               | [0.1,5.2]        | 99.3        | [94.8,99.9]        | 100.0         |
| S Central/SW/SE (n=78)                              | 2.2                               | [0.3,13.9]       | 97.8        | [86.1,99.7]        | 100.0         |
| Detroit Metro (n=87)                                | 0.9                               | [0.1,6.6]        | 99.1        | [93.4,99.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.7479                            |                  |             |                    |               |
| Design-based F(2.62, 817.63) =                      | 0.6214                            | Pr =             | 0.580       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                   |                  |             |                    |               |
| Yes (n=24)  | 0.0                               |                  | 100.0       |                    | 100.0         |
| No (n=300)  | 1.5                               | [0.6,3.8]        | 98.5        | [96.2,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3557                            |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.3147                            | Pr =             | 0.575       |                    |               |
| <b>High ER utilizers</b>                            |                                   |                  |             |                    |               |
| Yes (n=6)   | 0.0                               |                  | 100.0       |                    | 100.0         |
| No (n=318)  | 1.4                               | [0.5,3.6]        | 98.6        | [96.4,99.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0964                            |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.0814                            | Pr =             | 0.776       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                  |             |                    |               |
| Chronic disease (HEDIS) (n=92)                      | 1.6                               | [0.3,8.2]        | 98.4        | [91.8,99.7]        | 100.0         |
| No chronic disease (n=232)                          | 1.3                               | [0.4,4.1]        | 98.7        | [95.9,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0637                            |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.0631                            | Pr =             | 0.802       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                  |             |                    |               |
| MH/SA (HEDIS) (n=173)                               | 1.3                               | [0.4,4.3]        | 98.7        | [95.7,99.6]        | 100.0         |
| No MH/SA (n=151)                                    | 1.5                               | [0.3,6.3]        | 98.5        | [93.7,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0158                            |                  |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.0146                            | Pr =             | 0.904       |                    |               |
| <b>Total (n=324)</b>                                | <b>1.4</b>                        | <b>[0.5,3.6]</b> | <b>98.6</b> | <b>[96.4,99.5]</b> | <b>100.0</b>  |

### 3.17.6 Healthy Michigan Plan Help- Someone at my doctor's office

Universe: Respondents who received help or advice

|   | HMP help: someone at doctor's office |                    |             |                    | Total<br>Row% |
|---|--------------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                          | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                      |                    |             |                    |               |
| 0-35% (n=133)                                       | 18.8                                 | [12.1,27.9]        | 81.2        | [72.1,87.9]        | 100.0         |
| 36-99% (n=121)                                      | 31.4                                 | [23.0,41.3]        | 68.6        | [58.7,77.0]        | 100.0         |
| ≥ 100%(n = 70)                                      | 17.4                                 | [9.8,28.9]         | 82.6        | [71.1,90.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 6.6934                               |                    |             |                    |               |
| Design-based F(1.90, 593.48) =                      | 2.9000                               | Pr =               | 0.059       |                    |               |
| <b>Region</b>                                       |                                      |                    |             |                    |               |
| UP/NW/NE (n=55)                                     | 20.7                                 | [11.8,33.7]        | 79.3        | [66.3,88.2]        | 100.0         |
| W/E Central/E (n=104)                               | 28.5                                 | [20.4,38.3]        | 71.5        | [61.7,79.6]        | 100.0         |
| S Central/SW/SE (n=78)                              | 19.3                                 | [11.6,30.4]        | 80.7        | [69.6,88.4]        | 100.0         |
| Detroit Metro (n=87)                                | 19.4                                 | [11.0,31.8]        | 80.6        | [68.2,89.0]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.3218                               |                    |             |                    |               |
| Design-based F(2.53, 789.55) =                      | 0.9770                               | Pr =               | 0.392       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                      |                    |             |                    |               |
| Yes (n=24)  | 10.7                                 | [3.7,27.0]         | 89.3        | [73.0,96.3]        | 100.0         |
| No (n=300)  | 23.4                                 | [18.2,29.4]        | 76.6        | [70.6,81.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.0343                               |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 2.6395                               | Pr =               | 0.105       |                    |               |
| <b>High ER utilizers</b>                            |                                      |                    |             |                    |               |
| Yes (n=6)   | 0.0                                  |                    | 100.0       |                    | 100.0         |
| No (n=318)  | 22.9                                 | [17.9,28.8]        | 77.1        | [71.2,82.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.0109                               |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 1.5265                               | Pr =               | 0.218       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                      |                    |             |                    |               |
| Chronic disease (HEDIS) (n=92)                      | 26.4                                 | [17.7,37.4]        | 73.6        | [62.6,82.3]        | 100.0         |
| No chronic disease (n=232)                          | 21.1                                 | [15.5,28.0]        | 78.9        | [72.0,84.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0101                               |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.8463                               | Pr =               | 0.358       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                      |                    |             |                    |               |
| MH/SA (HEDIS) (n=173)                               | 25.5                                 | [18.4,34.2]        | 74.5        | [65.8,81.6]        | 100.0         |
| No MH/SA (n=151)                                    | 18.8                                 | [13.1,26.3]        | 81.2        | [73.7,86.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.0608                               |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 1.6279                               | Pr =               | 0.203       |                    |               |
| <b>Total (n=324)</b>                                | <b>22.4</b>                          | <b>[17.6,28.2]</b> | <b>77.6</b> | <b>[71.8,82.4]</b> | <b>100.0</b>  |



### 3.17.7 Healthy Michigan Plan Help- Other

Universe: Respondents who received help or advice

|   | HMP help: other response-record |                    |             |                    | Total<br>Row% |
|---|---------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                     | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                 |                    |             |                    |               |
| 0-35% (n=133)                                       | 32.6                            | [24.1,42.3]        | 67.4        | [57.7,75.9]        | 100.0         |
| 36-99% (n=121)                                      | 28.4                            | [19.9,38.7]        | 71.6        | [61.3,80.1]        | 100.0         |
| ≥ 100% (n = 70)                                     | 23.5                            | [13.5,37.7]        | 76.5        | [62.3,86.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.7340                          |                    |             |                    |               |
| Design-based F(1.98, 617.98) =                      | 0.6904                          | Pr =               | 0.500       |                    |               |
| <b>Region</b>                                       |                                 |                    |             |                    |               |
| UP/NW/NE (n=55)                                     | 29.8                            | [18.1,44.9]        | 70.2        | [55.1,81.9]        | 100.0         |
| W/E Central/E (n=104)                               | 34.5                            | [24.9,45.5]        | 65.5        | [54.5,75.1]        | 100.0         |
| S Central/SW/SE (n=78)                              | 35.5                            | [24.5,48.4]        | 64.5        | [51.6,75.5]        | 100.0         |
| Detroit Metro (n=87)                                | 22.0                            | [13.2,34.4]        | 78.0        | [65.6,86.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.7060                          |                    |             |                    |               |
| Design-based F(2.66, 829.47) =                      | 1.5350                          | Pr =               | 0.209       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                 |                    |             |                    |               |
| Yes (n=24)  | 58.8                            | [36.3,78.1]        | 41.2        | [21.9,63.7]        | 100.0         |
| No (n=300)  | 27.5                            | [21.9,33.9]        | 72.5        | [66.1,78.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 10.2929                         |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 8.2171                          | Pr =               | 0.004       |                    |               |
| <b>High ER utilizers</b>                            |                                 |                    |             |                    |               |
| Yes (n=6)   | 20.9                            | [4.5,59.9]         | 79.1        | [40.1,95.5]        | 100.0         |
| No (n=318)  | 30.0                            | [24.3,36.4]        | 70.0        | [63.6,75.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2634                          |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.2982                          | Pr =               | 0.585       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                 |                    |             |                    |               |
| Chronic disease (HEDIS) (n=92)                      | 27.6                            | [17.5,40.7]        | 72.4        | [59.3,82.5]        | 100.0         |
| No chronic disease (n=232)                          | 30.5                            | [24.1,37.9]        | 69.5        | [62.1,75.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2574                          |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.1761                          | Pr =               | 0.675       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                 |                    |             |                    |               |
| MH/SA (HEDIS) (n=173)                               | 31.1                            | [23.6,39.8]        | 68.9        | [60.2,76.4]        | 100.0         |
| No MH/SA (n=151)                                    | 28.2                            | [20.3,37.8]        | 71.8        | [62.2,79.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3174                          |                    |             |                    |               |
| Design-based F(1.00, 312.00) =                      | 0.2186                          | Pr =               | 0.640       |                    |               |
| <b>Total (n=324)</b>                                | <b>29.8</b>                     | <b>[24.2,36.1]</b> | <b>70.2</b> | <b>[63.9,75.8]</b> | <b>100.0</b>  |

### 3.17.8 Healthy Michigan Plan Help- Don't know

*Universe:* Respondents who received help or advice

| <b>HMP help: don't know</b> |  | No.            |
|-----------------------------|--|----------------|
| Yes                         |  | 602.0          |
| No                          |  | 27653.7        |
| <b>Total</b>                |  | <b>28255.8</b> |

### 3.17.9 Healthy Michigan Plan Help- Refused

*Universe:* Respondents who received help or advice

| <b>HMP help: refused</b> | No.            |
|--------------------------|----------------|
| No                       | 28255.8        |
| <b>Total</b>             | <b>28255.8</b> |

### 3.18 Q: Did you get an answer or solution to your question(s)?

Universe: Respondents who received help or advice

|   | Did you get answers/solutions? |                    |             |                    |            |                  | Total<br>Row% |
|---|--------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                            |                    | No          |                    | Don't know |                  |               |
|   | Row%                           | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                |                    |             |                    |            |                  |               |
| 0-35% (n=133)                                       | 80.4                           | [70.7,87.5]        | 19.6        | [12.5,29.3]        | 0.0        |                  | 100.0         |
| 36-99% (n=121)                                      | 66.3                           | [56.1,75.3]        | 32.8        | [24.0,43.0]        | 0.9        | [0.1,5.9]        | 100.0         |
| ≥ 100% (n = 70)                                     | 68.5                           | [54.4,79.8]        | 26.1        | [15.7,40.1]        | 5.4        | [1.4,18.9]       | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 16.8186                        |                    |             |                    |            |                  |               |
| Design-based F(3.81, 1187.35) =                     | 3.4713                         | Pr =               | 0.009       |                    |            |                  |               |
| <b>Region</b>                                       |                                |                    |             |                    |            |                  |               |
| UP/NW/NE (n=55)                                     | 73.5                           | [58.8,84.4]        | 26.5        | [15.6,41.2]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=104)                               | 78.2                           | [68.3,85.7]        | 21.0        | [13.6,30.8]        | 0.8        | [0.1,5.6]        | 100.0         |
| S Central/SW/SE (n=78)                              | 67.6                           | [55.1,77.9]        | 28.6        | [18.8,41.1]        | 3.8        | [1.0,13.8]       | 100.0         |
| Detroit Metro (n=87)                                | 74.9                           | [62.1,84.5]        | 25.1        | [15.5,37.9]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 8.2113                         |                    |             |                    |            |                  |               |
| Design-based F(4.81, 1499.38) =                     | 1.3694                         | Pr =               | 0.235       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                |                    |             |                    |            |                  |               |
| Yes (n=24)  | 66.5                           | [42.6,84.2]        | 33.5        | [15.8,57.4]        | 0.0        |                  | 100.0         |
| No (n=300)  | 74.8                           | [68.3,80.3]        | 24.0        | [18.6,30.4]        | 1.2        | [0.4,3.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2944                         |                    |             |                    |            |                  |               |
| Design-based F(2.00, 623.42) =                      | 0.4981                         | Pr =               | 0.608       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                                |                    |             |                    |            |                  |               |
| Yes (n=6)   | 71.8                           | [30.3,93.7]        | 28.2        | [6.3,69.7]         | 0.0        |                  | 100.0         |
| No (n=318)  | 74.2                           | [68.0,79.6]        | 24.6        | [19.3,30.9]        | 1.2        | [0.4,3.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1182                         |                    |             |                    |            |                  |               |
| Design-based F(1.97, 614.07) =                      | 0.0491                         | Pr =               | 0.950       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=92)                      | 80.3                           | [68.7,88.4]        | 19.7        | [11.6,31.3]        | 0.0        |                  | 100.0         |
| No chronic disease (n=232)                          | 72.0                           | [64.6,78.5]        | 26.4        | [20.1,33.9]        | 1.5        | [0.5,4.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.9817                         |                    |             |                    |            |                  |               |
| Design-based F(2.00, 623.26) =                      | 1.1371                         | Pr =               | 0.321       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=173)                               | 74.1                           | [65.3,81.3]        | 25.4        | [18.3,34.2]        | 0.5        | [0.1,3.4]        | 100.0         |
| No MH/SA (n=151)                                    | 74.3                           | [65.1,81.7]        | 23.8        | [16.7,32.8]        | 1.9        | [0.5,7.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.5385                         |                    |             |                    |            |                  |               |
| Design-based F(1.92, 599.48) =                      | 0.6335                         | Pr =               | 0.525       |                    |            |                  |               |
| <b>Total (n=324)</b>                                | <b>74.2</b>                    | <b>[68.0,79.5]</b> | <b>24.7</b> | <b>[19.4,30.8]</b> | <b>1.1</b> | <b>[0.4,3.5]</b> | <b>100.0</b>  |

### 3.19 Q: It is very important to me personally to have health insurance.

Universe: All respondents

|   | HMP: health insurance is personally important |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|---|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree                                |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%  | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |   |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=1,598)                                     | 43.7  | [40.6,46.8]        | 53.4        | [50.3,56.5]        | 1.6        | [0.9,2.8]        | 1.2        | [0.6,2.4]        | 0.1               | [0.0,0.7]        | 0.0        | [0.0,0.2]        | 100.0         |
| 36-99% (n=1,447)                                    | 47.6  | [44.5,50.7]        | 50.8        | [47.7,54.0]        | 0.6        | [0.3,1.2]        | 0.9        | [0.6,1.6]        | 0.0               | [0.0,0.2]        | 0.0        |                  | 100.0         |
| ≥ 100% (n = 1, 039)                                 | 42.7  | [39.2,46.3]        | 54.0        | [50.5,57.6]        | 1.7        | [1.0,3.1]        | 1.4        | [0.7,2.8]        | 0.1               | [0.0,0.6]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 13.1187                                       |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(8.02, 32669.46) =                    | 1.1630  |                    | Pr =        | 0.317              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |   |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=745)                                    | 43.3  | [39.2,47.4]        | 53.7        | [49.6,57.8]        | 1.5        | [0.6,3.6]        | 1.4        | [0.7,2.7]        | 0.1               | [0.0,0.6]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=1,263)                             | 44.8  | [41.6,48.0]        | 51.1        | [47.9,54.3]        | 2.3        | [1.4,3.6]        | 1.8        | [0.9,3.3]        | 0.0               | [0.0,0.3]        | 0.1        | [0.0,0.4]        | 100.0         |
| S Central/SW/SE (n=836)                             | 44.5  | [40.5,48.5]        | 53.8        | [49.7,57.8]        | 0.7        | [0.3,1.5]        | 1.0        | [0.5,2.2]        | 0.0               |                  | 0.0        |                  | 100.0         |
| Detroit Metro (n=1,240)                             | 44.8  | [41.4,48.3]        | 53.3        | [49.8,56.8]        | 0.9        | [0.4,2.4]        | 0.8        | [0.3,2.0]        | 0.2               | [0.0,0.8]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 23.2259                                       |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.88, 40239.51) =                    | 1.2774  |                    | Pr =        | 0.237              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |   |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=490)   | 35.4  | [30.1,41.0]        | 59.7        | [53.9,65.2]        | 1.6        | [0.8,3.1]        | 3.3        | [1.7,6.3]        | 0.1               | [0.0,0.7]        | 0.0        |                  | 100.0         |
| No (n=3,594)  | 46.2  | [44.2,48.3]        | 51.6        | [49.5,53.6]        | 1.3        | [0.8,2.0]        | 0.8        | [0.5,1.3]        | 0.1               | [0.0,0.4]        | 0.0        | [0.0,0.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 48.6568                                       |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.27, 17376.44) =                    | 6.6441  |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |   |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=156)   | 41.2  | [31.9,51.3]        | 55.0        | [44.8,64.9]        | 3.7        | [0.5,21.7]       | 0.0        |                  | 0.0               |                  | 0.0        |                  | 100.0         |
| No (n=3,928)  | 44.7  | [42.8,46.7]        | 52.7        | [50.7,54.7]        | 1.2        | [0.9,1.7]        | 1.2        | [0.8,1.9]        | 0.1               | [0.0,0.3]        | 0.0        | [0.0,0.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 11.2036                                       |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(3.16, 12885.42) =                    | 0.9310  |                    | Pr =        | 0.429              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,158)                   | 47.0  | [43.4,50.6]        | 52.3        | [48.7,55.9]        | 0.6        | [0.2,1.6]        | 0.1        | [0.0,0.9]        | 0.0               |                  | 0.0        |                  | 100.0         |
| No chronic disease (n=2,926)                        | 43.8  | [41.5,46.1]        | 53.0        | [50.6,55.3]        | 1.6        | [1.0,2.4]        | 1.5        | [1.0,2.3]        | 0.1               | [0.0,0.4]        | 0.0        | [0.0,0.2]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 21.4898                                       |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.71, 19167.95) =                    | 3.1361  |                    | Pr =        | 0.009              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,030)                             | 47.9  | [45.1,50.7]        | 49.9        | [47.2,52.7]        | 1.3        | [0.6,2.6]        | 0.7        | [0.3,1.7]        | 0.1               | [0.0,0.7]        | 0.0        | [0.0,0.3]        | 100.0         |
| No MH/SA (n=2,054)                                  | 41.5  | [38.8,44.3]        | 55.5        | [52.7,58.2]        | 1.4        | [0.9,2.1]        | 1.6        | [1.0,2.5]        | 0.1               | [0.0,0.2]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 22.8310                                       |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.23, 17222.58) =                    | 2.7984  |                    | Pr =        | 0.022              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=4,084)</b>                              | <b>44.6</b>                                   | <b>[42.6,46.5]</b> | <b>52.8</b> | <b>[50.8,54.8]</b> | <b>1.3</b> | <b>[0.9,2.0]</b> | <b>1.2</b> | <b>[0.8,1.8]</b> | <b>0.1</b>        | <b>[0.0,0.3]</b> | <b>0.0</b> | <b>[0.0,0.1]</b> | <b>100.0</b>  |

### 3.20 Q: I don't worry as much about something bad happening to my health since enrolling in the Healthy Michigan Plan.

Universe: All respondents

|   | HMP: less worry about bad health |             |       |             |         |            |          |             |                   |            |            |           | Total<br>Row% |
|---|----------------------------------|-------------|-------|-------------|---------|------------|----------|-------------|-------------------|------------|------------|-----------|---------------|
|   | Strongly agree                   |             | Agree |             | Neutral |            | Disagree |             | Strongly disagree |            | Don't know |           |               |
|   | Row%                             | 95%CI       | Row%  | 95%CI       | Row%    | 95%CI      | Row%     | 95%CI       | Row%              | 95%CI      | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                                  |             |       |             |         |            |          |             |                   |            |            |           |               |
| 0-35% (n=1,597)                                     | 17.4                             | [15.2,19.8] | 50.9  | [47.8,54.0] | 8.1     | [6.7,9.9]  | 19.5     | [17.1,22.1] | 2.4               | [1.7,3.6]  | 1.7        | [1.0,2.8] | 100.0         |
| 36-99% (n=1,445)                                    | 18.5                             | [16.1,21.2] | 51.5  | [48.4,54.6] | 9.2     | [7.5,11.3] | 17.7     | [15.5,20.1] | 2.0               | [1.2,3.3]  | 1.0        | [0.5,1.9] | 100.0         |
| ≥ 100% (n = 1, 039)                                 | 13.8                             | [11.6,16.3] | 55.7  | [52.1,59.1] | 9.8     | [7.9,12.1] | 18.4     | [15.8,21.3] | 1.6               | [0.9,2.7]  | 0.8        | [0.4,1.6] | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 19.3967                          |             |       |             |         |            |          |             |                   |            |            |           |               |
| Design-based F(9.58, 38997.36) =                    | 1.4339                           |             | Pr =  | 0.162       |         |            |          |             |                   |            |            |           |               |
| <b>Region</b>                                       |                                  |             |       |             |         |            |          |             |                   |            |            |           |               |
| UP/NW/NE (n=744)                                    | 18.6                             | [15.4,22.2] | 49.9  | [45.8,54.0] | 10.6    | [8.3,13.4] | 18.6     | [15.6,22.0] | 1.1               | [0.5,2.5]  | 1.3        | [0.6,2.7] | 100.0         |
| W/E Central/E (n=1,261)                             | 17.3                             | [15.0,19.9] | 53.6  | [50.4,56.8] | 7.4     | [6.0,9.2]  | 17.9     | [15.7,20.4] | 2.1               | [1.4,3.2]  | 1.7        | [0.8,3.5] | 100.0         |
| S Central/SW/SE (n=836)                             | 15.0                             | [12.4,17.9] | 54.1  | [50.1,58.2] | 9.6     | [7.4,12.3] | 18.7     | [15.8,22.0] | 1.9               | [1.1,3.2]  | 0.7        | [0.3,1.8] | 100.0         |
| Detroit Metro (n=1,240)                             | 17.3                             | [14.8,20.2] | 50.5  | [47.0,54.0] | 8.9     | [7.2,11.0] | 19.3     | [16.7,22.3] | 2.5               | [1.6,3.9]  | 1.3        | [0.8,2.3] | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 16.9895                          |             |       |             |         |            |          |             |                   |            |            |           |               |
| Design-based F(13.07, 53175.88) =                   | 0.8834                           |             | Pr =  | 0.571       |         |            |          |             |                   |            |            |           |               |
| <b>Low healthcare utilizers</b>                     |                                  |             |       |             |         |            |          |             |                   |            |            |           |               |
| Yes (n=490)   | 12.6                             | [9.0,17.4]  | 52.0  | [46.2,57.8] | 11.9    | [8.9,15.9] | 20.4     | [15.9,25.9] | 1.2               | [0.4,3.2]  | 1.8        | [0.7,4.8] | 100.0         |
| No (n=3,591)  | 17.8                             | [16.3,19.4] | 52.0  | [49.9,54.1] | 8.2     | [7.2,9.4]  | 18.4     | [16.9,20.1] | 2.3               | [1.8,3.1]  | 1.2        | [0.8,1.8] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 22.3588                          |             |       |             |         |            |          |             |                   |            |            |           |               |
| Design-based F(4.89, 19916.33) =                    | 2.0195                           |             | Pr =  | 0.074       |         |            |          |             |                   |            |            |           |               |
| <b>High ER utilizers</b>                            |                                  |             |       |             |         |            |          |             |                   |            |            |           |               |
| Yes (n=156)   | 14.3                             | [8.9,22.2]  | 59.7  | [49.8,68.9] | 3.9     | [1.7,8.7]  | 16.3     | [10.6,24.2] | 4.4               | [1.8,10.4] | 1.4        | [0.2,9.5] | 100.0         |
| No (n=3,925)  | 17.1                             | [15.6,18.7] | 51.7  | [49.6,53.7] | 9.0     | [7.9,10.2] | 18.9     | [17.3,20.5] | 2.1               | [1.5,2.7]  | 1.3        | [0.9,1.9] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 12.9800                          |             |       |             |         |            |          |             |                   |            |            |           |               |
| Design-based F(4.72, 19204.26) =                    | 1.4637                           |             | Pr =  | 0.201       |         |            |          |             |                   |            |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                                  |             |       |             |         |            |          |             |                   |            |            |           |               |
| Chronic disease (HEDIS) (n=1,159)                   | 16.8                             | [14.3,19.6] | 52.5  | [48.9,56.0] | 6.9     | [5.3,8.8]  | 20.4     | [17.6,23.4] | 2.0               | [1.2,3.2]  | 1.5        | [0.8,2.8] | 100.0         |
| No chronic disease (n=2,922)                        | 17.1                             | [15.4,18.9] | 51.8  | [49.5,54.2] | 9.4     | [8.2,10.8] | 18.2     | [16.5,20.1] | 2.2               | [1.6,3.1]  | 1.3        | [0.8,2.0] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 8.2598                           |             |       |             |         |            |          |             |                   |            |            |           |               |
| Design-based F(4.96, 20166.96) =                    | 1.1163                           |             | Pr =  | 0.349       |         |            |          |             |                   |            |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                  |             |       |             |         |            |          |             |                   |            |            |           |               |
| MH/SA (HEDIS) (n=2,027)                             | 19.0                             | [16.8,21.3] | 50.5  | [47.8,53.3] | 7.5     | [6.2,9.1]  | 19.5     | [17.4,21.9] | 2.1               | [1.5,2.9]  | 1.4        | [0.8,2.3] | 100.0         |
| No MH/SA (n=2,054)                                  | 15.2                             | [13.3,17.2] | 53.4  | [50.6,56.1] | 9.9     | [8.5,11.6] | 18.0     | [16.0,20.3] | 2.2               | [1.5,3.4]  | 1.3        | [0.7,2.2] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 18.2681                          |             |       |             |         |            |          |             |                   |            |            |           |               |
| Design-based F(4.95, 20151.07) =                    | 2.1210                           |             | Pr =  | 0.061       |         |            |          |             |                   |            |            |           |               |
| <b>Total (n=4,081)</b>                              | 17.0                             | [15.6,18.5] | 52.0  | [50.0,54.0] | 8.8     | [7.8,9.9]  | 18.8     | [17.3,20.3] | 2.2               | [1.6,2.8]  | 1.3        | [0.9,1.9] | 100.0         |

### 3.21 Q: Having the Healthy Michigan Plan has taken a lot of stress off me.

Universe: All respondents

|   | HMP: less stress |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree   |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%             | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=1,598)                                     | 26.5             | [23.9,29.1]        | 62.6        | [59.6,65.5]        | 5.9        | [4.5,7.7]        | 4.1        | [3.0,5.5]        | 0.4               | [0.2,1.0]        | 0.5        | [0.2,1.4]        | 100.0         |
| 36-99% (n=1,449)                                    | 26.5             | [23.9,29.3]        | 61.4        | [58.3,64.4]        | 6.4        | [4.9,8.1]        | 4.9        | [3.7,6.4]        | 0.3               | [0.1,1.0]        | 0.6        | [0.3,1.5]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 24.2             | [21.2,27.4]        | 60.7        | [57.1,64.1]        | 8.0        | [6.2,10.4]       | 6.2        | [4.7,8.2]        | 0.7               | [0.3,1.5]        | 0.2        | [0.1,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 14.6945          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.30, 37910.16) =                    | 1.0429           |                    | Pr =        | 0.403              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=746)                                    | 28.9             | [25.3,32.8]        | 59.5        | [55.4,63.5]        | 5.3        | [3.6,7.7]        | 5.8        | [4.1,8.2]        | 0.5               | [0.1,2.3]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=1,263)                             | 29.3             | [26.5,32.3]        | 58.5        | [55.3,61.7]        | 6.4        | [5.0,8.2]        | 4.9        | [3.6,6.7]        | 0.3               | [0.1,1.0]        | 0.6        | [0.2,2.3]        | 100.0         |
| S Central/SW/SE (n=837)                             | 23.7             | [20.6,27.1]        | 61.4        | [57.4,65.2]        | 7.7        | [5.6,10.5]       | 6.1        | [4.4,8.3]        | 0.9               | [0.4,2.1]        | 0.3        | [0.1,0.8]        | 100.0         |
| Detroit Metro (n=1,241)                             | 24.3             | [21.5,27.3]        | 64.8        | [61.4,68.0]        | 6.2        | [4.6,8.3]        | 3.8        | [2.7,5.4]        | 0.3               | [0.1,0.9]        | 0.6        | [0.3,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 32.7134          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(12.54, 51098.11) =                   | 1.5051           |                    | Pr =        | 0.110              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=490)   | 14.9             | [11.2,19.5]        | 63.2        | [57.5,68.6]        | 11.1       | [7.9,15.4]       | 9.4        | [6.7,13.0]       | 0.8               | [0.3,2.2]        | 0.7        | [0.2,2.0]        | 100.0         |
| No (n=3,597)  | 28.0             | [26.2,29.9]        | 61.6        | [59.6,63.6]        | 5.6        | [4.7,6.7]        | 3.9        | [3.2,4.8]        | 0.4               | [0.2,0.7]        | 0.5        | [0.2,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 95.9208          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.85, 19764.01) =                    | 10.7638          |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=156)   | 25.2             | [17.8,34.3]        | 65.9        | [56.4,74.4]        | 2.4        | [1.0,5.7]        | 4.1        | [1.9,8.7]        | 0.3               | [0.0,2.1]        | 2.1        | [0.5,8.7]        | 100.0         |
| No (n=3,931)  | 26.1             | [24.4,27.8]        | 61.7        | [59.7,63.6]        | 6.6        | [5.7,7.8]        | 4.8        | [4.0,5.7]        | 0.4               | [0.2,0.8]        | 0.4        | [0.2,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 15.7527          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.22, 17183.45) =                    | 2.3834           |                    | Pr =        | 0.046              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 29.9             | [26.7,33.2]        | 61.9        | [58.3,65.3]        | 4.1        | [2.7,6.2]        | 3.3        | [2.3,4.7]        | 0.5               | [0.2,1.3]        | 0.4        | [0.1,1.7]        | 100.0         |
| No chronic disease (n=2,927)                        | 24.7             | [22.8,26.7]        | 61.9        | [59.6,64.1]        | 7.2        | [6.1,8.6]        | 5.2        | [4.3,6.3]        | 0.4               | [0.2,0.8]        | 0.5        | [0.3,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 25.8425          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.76, 19406.16) =                    | 3.1390           |                    | Pr =        | 0.009              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,032)                             | 30.5             | [28.1,33.1]        | 60.0        | [57.3,62.7]        | 4.1        | [3.1,5.3]        | 4.1        | [3.2,5.3]        | 0.6               | [0.3,1.2]        | 0.7        | [0.3,1.6]        | 100.0         |
| No MH/SA (n=2,055)                                  | 21.8             | [19.7,24.0]        | 63.6        | [60.9,66.2]        | 8.7        | [7.2,10.5]       | 5.3        | [4.2,6.7]        | 0.3               | [0.1,0.6]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 73.4498          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.93, 20071.18) =                    | 9.2616           |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=4,087)</b>                              | <b>26.0</b>      | <b>[24.4,27.7]</b> | <b>61.9</b> | <b>[60.0,63.7]</b> | <b>6.5</b> | <b>[5.5,7.6]</b> | <b>4.7</b> | <b>[4.0,5.6]</b> | <b>0.4</b>        | <b>[0.2,0.7]</b> | <b>0.5</b> | <b>[0.3,0.9]</b> | <b>100.0</b>  |

### 3.22 Q: Without the Healthy Michigan Plan, I wouldn't be able to go to the doctor.

Universe: All respondents

|   | HMP: no doctor without HMP |                    |             |                    |            |                  |             |                    |                   |                  |            |                  | Total<br>Row% |
|---|----------------------------|--------------------|-------------|--------------------|------------|------------------|-------------|--------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree             |                    | Agree       |                    | Neutral    |                  | Disagree    |                    | Strongly disagree |                  | Don't know |                  |               |
|   | Row%                       | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%        | 95%CI              | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                            |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| 0-35% (n=1,596)                                     | 29.3                       | [26.7,32.1]        | 55.6        | [52.5,58.6]        | 3.5        | [2.5,5.0]        | 9.9         | [8.2,11.9]         | 1.2               | [0.7,2.1]        | 0.4        | [0.2,1.1]        | 100.0         |
| 36-99% (n=1,449)                                    | 28.4                       | [25.7,31.3]        | 53.8        | [50.6,56.9]        | 5.0        | [3.8,6.5]        | 11.3        | [9.4,13.5]         | 1.1               | [0.6,2.1]        | 0.4        | [0.1,1.0]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 24.9                       | [22.0,28.1]        | 55.9        | [52.3,59.4]        | 4.3        | [3.0,6.0]        | 14.4        | [12.1,17.2]        | 0.3               | [0.1,1.0]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 25.0114                    |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Design-based F(9.19, 37434.35) =                    | 1.9260                     |                    | Pr =        | 0.042              |            |                  |             |                    |                   |                  |            |                  |               |
| <b>Region</b>                                       |                            |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| UP/NW/NE (n=746)                                    | 26.4                       | [22.9,30.2]        | 53.9        | [49.8,58.0]        | 5.0        | [3.6,7.0]        | 13.7        | [11.1,16.9]        | 0.5               | [0.1,2.3]        | 0.5        | [0.2,1.1]        | 100.0         |
| W/E Central/E (n=1,263)                             | 32.6                       | [29.7,35.6]        | 52.1        | [48.9,55.3]        | 4.3        | [3.1,6.0]        | 10.3        | [8.5,12.4]         | 0.7               | [0.3,1.3]        | 0.1        | [0.0,0.4]        | 100.0         |
| S Central/SW/SE (n=836)                             | 27.5                       | [24.1,31.2]        | 54.9        | [50.9,59.0]        | 5.0        | [3.5,7.1]        | 11.1        | [8.8,13.9]         | 0.9               | [0.4,2.0]        | 0.6        | [0.2,1.8]        | 100.0         |
| Detroit Metro (n=1,240)                             | 26.0                       | [23.1,29.1]        | 57.5        | [54.0,60.9]        | 3.4        | [2.3,5.0]        | 11.4        | [9.3,13.7]         | 1.4               | [0.8,2.5]        | 0.5        | [0.2,1.2]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 31.3679                    |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Design-based F(13.05, 53172.85) =                   | 1.7090                     |                    | Pr =        | 0.052              |            |                  |             |                    |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                            |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Yes (n=490)   | 18.0                       | [14.1,22.8]        | 58.4        | [52.6,63.9]        | 5.9        | [3.5,9.8]        | 15.7        | [12.2,19.9]        | 1.5               | [0.6,3.7]        | 0.6        | [0.1,2.3]        | 100.0         |
| No (n=3,595)  | 30.0                       | [28.2,31.9]        | 54.6        | [52.5,56.6]        | 3.8        | [3.1,4.6]        | 10.4        | [9.2,11.8]         | 0.9               | [0.6,1.4]        | 0.3        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 49.5600                    |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Design-based F(4.92, 20021.15) =                    | 4.9939                     |                    | Pr =        | 0.000              |            |                  |             |                    |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                            |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Yes (n=156)   | 21.7                       | [15.0,30.3]        | 67.8        | [58.4,76.0]        | 4.7        | [2.0,10.8]       | 2.9         | [1.2,6.7]          | 2.2               | [0.5,8.9]        | 0.7        | [0.1,4.6]        | 100.0         |
| No (n=3,929)  | 28.5                       | [26.7,30.3]        | 54.5        | [52.5,56.5]        | 4.1        | [3.3,5.0]        | 11.6        | [10.4,12.9]        | 0.9               | [0.6,1.4]        | 0.4        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 23.2101                    |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Design-based F(4.70, 19127.69) =                    | 2.9838                     |                    | Pr =        | 0.013              |            |                  |             |                    |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                            |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 31.7                       | [28.5,35.1]        | 54.8        | [51.2,58.3]        | 2.2        | [1.5,3.2]        | 9.9         | [8.0,12.3]         | 0.6               | [0.3,1.3]        | 0.8        | [0.3,2.0]        | 100.0         |
| No chronic disease (n=2,925)                        | 27.0                       | [25.0,29.1]        | 55.2        | [52.9,57.6]        | 4.7        | [3.8,5.9]        | 11.6        | [10.2,13.2]        | 1.1               | [0.7,1.8]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 29.3184                    |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Design-based F(4.90, 19946.60) =                    | 4.4774                     |                    | Pr =        | 0.000              |            |                  |             |                    |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                            |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,032)                             | 33.1                       | [30.5,35.7]        | 54.0        | [51.3,56.8]        | 3.3        | [2.4,4.4]        | 8.4         | [7.0,9.9]          | 0.9               | [0.5,1.6]        | 0.4        | [0.2,1.0]        | 100.0         |
| No MH/SA (n=2,053)                                  | 23.6                       | [21.4,26.0]        | 56.2        | [53.4,58.9]        | 4.9        | [3.8,6.3]        | 13.9        | [12.0,15.9]        | 1.1               | [0.6,1.9]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 67.7478                    |                    |             |                    |            |                  |             |                    |                   |                  |            |                  |               |
| Design-based F(4.98, 20297.68) =                    | 8.3402                     |                    | Pr =        | 0.000              |            |                  |             |                    |                   |                  |            |                  |               |
| <b>Total (n=4,085)</b>                              | <b>28.2</b>                | <b>[26.5,29.9]</b> | <b>55.1</b> | <b>[53.2,57.1]</b> | <b>4.1</b> | <b>[3.4,5.0]</b> | <b>11.2</b> | <b>[10.0,12.5]</b> | <b>1.0</b>        | <b>[0.7,1.5]</b> | <b>0.4</b> | <b>[0.2,0.7]</b> | <b>100.0</b>  |



### 3.23 Q: Having the Healthy Michigan Plan has helped me live a better life.

Universe: All respondents

|   | HMP: better life |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree   |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%             | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=1,596)                                     | 26.9             | [24.2,29.7]        | 62.9        | [59.9,65.9]        | 6.8        | [5.4,8.6]        | 2.4        | [1.6,3.6]        | 0.3               | [0.1,0.8]        | 0.7        | [0.3,1.6]        | 100.0         |
| 36-99% (n=1,448)                                    | 24.9             | [22.3,27.7]        | 65.5        | [62.5,68.4]        | 6.4        | [5.0,8.1]        | 2.2        | [1.5,3.1]        | 0.4               | [0.2,0.9]        | 0.7        | [0.3,1.4]        | 100.0         |
| ≥ 100% (n = 1, 039)                                 | 20.4             | [17.6,23.4]        | 65.6        | [62.1,69.0]        | 7.9        | [6.1,10.1]       | 5.5        | [4.0,7.6]        | 0.2               | [0.1,0.8]        | 0.4        | [0.1,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 36.7508          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.30, 37877.87) =                    | 2.7681           |                    | Pr =        | 0.003              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=745)                                    | 25.5             | [22.1,29.4]        | 61.9        | [57.8,65.8]        | 7.6        | [5.6,10.1]       | 3.9        | [2.7,5.8]        | 0.7               | [0.2,2.3]        | 0.4        | [0.1,1.4]        | 100.0         |
| W/E Central/E (n=1,261)                             | 25.6             | [23.0,28.5]        | 63.9        | [60.7,66.9]        | 6.5        | [5.1,8.3]        | 2.7        | [1.8,4.0]        | 0.2               | [0.1,0.6]        | 1.1        | [0.4,2.7]        | 100.0         |
| S Central/SW/SE (n=836)                             | 22.7             | [19.4,26.3]        | 64.7        | [60.6,68.5]        | 9.1        | [7.0,11.8]       | 3.0        | [2.0,4.7]        | 0.3               | [0.1,1.0]        | 0.3        | [0.1,0.8]        | 100.0         |
| Detroit Metro (n=1,241)                             | 25.5             | [22.6,28.7]        | 64.7        | [61.3,68.0]        | 6.1        | [4.5,8.1]        | 2.9        | [1.9,4.3]        | 0.3               | [0.1,0.8]        | 0.5        | [0.2,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 20.1747          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(12.76, 51950.41) =                   | 1.0970           |                    | Pr =        | 0.356              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=490)   | 15.4             | [11.3,20.5]        | 62.5        | [56.7,68.0]        | 12.9       | [9.6,17.1]       | 7.2        | [5.0,10.3]       | 0.2               | [0.0,0.9]        | 1.8        | [0.7,4.8]        | 100.0         |
| No (n=3,593)  | 26.8             | [25.0,28.6]        | 64.5        | [62.5,66.5]        | 5.8        | [4.9,6.9]        | 2.2        | [1.7,2.9]        | 0.3               | [0.2,0.6]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 128.9310         |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.49, 18261.55) =                    | 14.3062          |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=156)   | 19.8             | [13.5,28.1]        | 72.9        | [64.0,80.2]        | 3.6        | [1.6,8.0]        | 2.5        | [0.8,7.9]        | 0.5               | [0.1,3.2]        | 0.7        | [0.2,3.0]        | 100.0         |
| No (n=3,927)  | 25.3             | [23.6,27.1]        | 63.8        | [61.8,65.7]        | 7.1        | [6.1,8.2]        | 3.0        | [2.4,3.7]        | 0.3               | [0.2,0.5]        | 0.6        | [0.3,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 7.5692           |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.56, 18572.36) =                    | 1.2454           |                    | Pr =        | 0.287              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,158)                   | 29.3             | [26.1,32.6]        | 64.4        | [60.9,67.8]        | 3.8        | [2.4,5.9]        | 1.7        | [1.0,2.8]        | 0.3               | [0.1,0.9]        | 0.5        | [0.1,1.8]        | 100.0         |
| No chronic disease (n=2,925)                        | 23.6             | [21.7,25.7]        | 64.1        | [61.8,66.3]        | 8.0        | [6.8,9.3]        | 3.4        | [2.6,4.3]        | 0.3               | [0.1,0.6]        | 0.6        | [0.3,1.2]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 36.8042          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.66, 18984.87) =                    | 4.5475           |                    | Pr =        | 0.001              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                  |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,029)                             | 29.1             | [26.6,31.7]        | 63.6        | [60.8,66.2]        | 4.7        | [3.6,6.0]        | 1.7        | [1.2,2.5]        | 0.4               | [0.2,0.9]        | 0.6        | [0.3,1.2]        | 100.0         |
| No MH/SA (n=2,054)                                  | 21.3             | [19.1,23.6]        | 64.8        | [62.1,67.4]        | 9.0        | [7.5,10.8]       | 4.1        | [3.1,5.3]        | 0.2               | [0.1,0.5]        | 0.7        | [0.3,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 74.2203          |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.77, 19438.18) =                    | 9.3485           |                    | Pr =        | 0.000              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=4,083)</b>                              | <b>25.0</b>      | <b>[23.4,26.8]</b> | <b>64.2</b> | <b>[62.3,66.1]</b> | <b>6.9</b> | <b>[6.0,8.0]</b> | <b>3.0</b> | <b>[2.4,3.7]</b> | <b>0.3</b>        | <b>[0.2,0.5]</b> | <b>0.6</b> | <b>[0.3,1.1]</b> | <b>100.0</b>  |

### 3.24 Q: In the 12 months before enrolling in the Healthy Michigan Plan, was there any time when you didn't get the health care you needed?

Universe: All respondents

|   | Yes         |                    | Didn't get care needed pre-HMP<br>No |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|--------------------------------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%                                 | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                                      |                    |            |                  |               |
| 0-35% (n=1,597)                                     | 34.2        | [31.4,37.2]        | 64.6                                 | [61.6,67.5]        | 1.1        | [0.6,2.2]        | 100.0         |
| 36-99% (n=1,447)                                    | 31.9        | [29.1,34.8]        | 66.6                                 | [63.6,69.4]        | 1.5        | [0.9,2.6]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 31.3        | [28.1,34.6]        | 68.1                                 | [64.8,71.3]        | 0.6        | [0.2,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 6.8602      |                    |                                      |                    |            |                  |               |
| Design-based F(3.81, 15531.47) =                    | 1.1250      | Pr =               | 0.342                                |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |                                      |                    |            |                  |               |
| UP/NW/NE (n=745)                                    | 33.8        | [30.1,37.8]        | 65.9                                 | [62.0,69.7]        | 0.3        | [0.1,0.8]        | 100.0         |
| W/E Central/E (n=1,263)                             | 32.5        | [29.7,35.6]        | 66.4                                 | [63.4,69.3]        | 1.0        | [0.6,1.8]        | 100.0         |
| S Central/SW/SE (n=835)                             | 38.5        | [34.7,42.4]        | 60.7                                 | [56.8,64.6]        | 0.8        | [0.3,2.0]        | 100.0         |
| Detroit Metro (n=1,241)                             | 30.8        | [27.7,34.1]        | 67.7                                 | [64.3,70.8]        | 1.5        | [0.8,2.8]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 19.4912     |                    |                                      |                    |            |                  |               |
| Design-based F(5.03, 20481.65) =                    | 2.7180      | Pr =               | 0.018                                |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                                      |                    |            |                  |               |
| Yes (n=490)   | 22.6        | [18.2,27.8]        | 76.7                                 | [71.5,81.2]        | 0.7        | [0.2,1.9]        | 100.0         |
| No (n=3,594)  | 34.9        | [32.9,36.8]        | 63.9                                 | [61.9,65.9]        | 1.2        | [0.8,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 38.1309     |                    |                                      |                    |            |                  |               |
| Design-based F(1.89, 7689.77) =                     | 11.4322     | Pr =               | 0.000                                |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                                      |                    |            |                  |               |
| Yes (n=156)   | 38.5        | [29.7,48.2]        | 60.0                                 | [50.3,69.0]        | 1.5        | [0.2,9.7]        | 100.0         |
| No (n=3,928)  | 32.7        | [30.9,34.6]        | 66.1                                 | [64.2,68.0]        | 1.1        | [0.7,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.9429      |                    |                                      |                    |            |                  |               |
| Design-based F(1.92, 7802.97) =                     | 0.6786      | Pr =               | 0.501                                |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                                      |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 38.0        | [34.7,41.5]        | 60.5                                 | [57.0,64.0]        | 1.4        | [0.6,3.4]        | 100.0         |
| No chronic disease (n=2,924)                        | 31.3        | [29.2,33.5]        | 67.7                                 | [65.5,69.8]        | 1.0        | [0.7,1.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 17.5123     |                    |                                      |                    |            |                  |               |
| Design-based F(1.86, 7567.16) =                     | 4.4583      | Pr =               | 0.014                                |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                                      |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,031)                             | 38.2        | [35.6,40.9]        | 60.7                                 | [58.0,63.3]        | 1.1        | [0.7,1.9]        | 100.0         |
| No MH/SA (n=2,053)                                  | 28.1        | [25.7,30.7]        | 70.7                                 | [68.1,73.2]        | 1.1        | [0.6,2.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 46.9567     |                    |                                      |                    |            |                  |               |
| Design-based F(1.98, 8054.26) =                     | 12.9393     | Pr =               | 0.000                                |                    |            |                  |               |
| <b>Total (n=4,084)</b>                              | <b>33.0</b> | <b>[31.2,34.8]</b> | <b>65.9</b>                          | <b>[64.0,67.7]</b> | <b>1.1</b> | <b>[0.8,1.7]</b> | <b>100.0</b>  |

### 3.25 Q: Why didn't you get the care you needed?

#### 3.25.1 Did not get needed care- Worried about the cost

Universe: Respondents who didn't get needed health care

|   | Yes         |                    | No care: cost |                    | Total Row%   |
|---|-------------|--------------------|---------------|--------------------|--------------|
|   | Row%        | 95%CI              | Row%          | 95%CI              |              |
| <b>FPL category</b>                                 |             |                    |               |                    |              |
| 0-35% (n=578)                                       | 75.6        | [70.8,79.8]        | 24.4          | [20.2,29.2]        | 100.0        |
| 36-99% (n=491)                                      | 78.6        | [73.9,82.6]        | 21.4          | [17.4,26.1]        | 100.0        |
| ≥ 100% (n = 340)                                    | 81.3        | [75.9,85.8]        | 18.7          | [14.2,24.1]        | 100.0        |
| Pearson: Uncorrected chi2(2) =                      | 4.0779      |                    |               |                    |              |
| Design-based F(1.95, 2719.91) =                     | 1.5175      | Pr =               | 0.220         |                    |              |
| <b>Region</b>                                       |             |                    |               |                    |              |
| UP/NW/NE (n=262)                                    | 88.4        | [83.6,91.9]        | 11.6          | [8.1,16.4]         | 100.0        |
| W/E Central/E (n=426)                               | 74.7        | [69.6,79.1]        | 25.3          | [20.9,30.4]        | 100.0        |
| S Central/SW/SE (n=340)                             | 81.5        | [76.4,85.8]        | 18.5          | [14.2,23.6]        | 100.0        |
| Detroit Metro (n=381)                               | 74.8        | [68.9,79.9]        | 25.2          | [20.1,31.1]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 15.8741     |                    |               |                    |              |
| Design-based F(2.54, 3553.77) =                     | 4.3409      | Pr =               | 0.007         |                    |              |
| <b>Low healthcare utilizers</b>                     |             |                    |               |                    |              |
| Yes (n=118)   | 84.9        | [75.9,90.9]        | 15.1          | [9.1,24.1]         | 100.0        |
| No (n=1,291)  | 76.6        | [73.4,79.5]        | 23.4          | [20.5,26.6]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 5.1484      |                    |               |                    |              |
| Design-based F(1.00, 1397.00) =                     | 3.1625      | Pr =               | 0.076         |                    |              |
| <b>High ER utilizers</b>                            |             |                    |               |                    |              |
| Yes (n=67)  | 66.9        | [52.4,78.8]        | 33.1          | [21.2,47.6]        | 100.0        |
| No (n=1,342)  | 78.0        | [75.0,80.8]        | 22.0          | [19.2,25.0]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 4.8846      |                    |               |                    |              |
| Design-based F(1.00, 1397.00) =                     | 3.1112      | Pr =               | 0.078         |                    |              |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |               |                    |              |
| Chronic disease (HEDIS) (n=467)                     | 78.2        | [73.2,82.4]        | 21.8          | [17.6,26.8]        | 100.0        |
| No chronic disease (n=942)                          | 77.2        | [73.5,80.5]        | 22.8          | [19.5,26.5]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 0.1586      |                    |               |                    |              |
| Design-based F(1.00, 1397.00) =                     | 0.1075      | Pr =               | 0.743         |                    |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |               |                    |              |
| MH/SA (HEDIS) (n=815)                               | 75.9        | [71.9,79.6]        | 24.1          | [20.4,28.1]        | 100.0        |
| No MH/SA (n=594)                                    | 79.4        | [74.9,83.3]        | 20.6          | [16.7,25.1]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 2.3803      |                    |               |                    |              |
| Design-based F(1.00, 1397.00) =                     | 1.3872      | Pr =               | 0.239         |                    |              |
| <b>Total (n=1,409)</b>                              | <b>77.5</b> | <b>[74.5,80.2]</b> | <b>22.5</b>   | <b>[19.8,25.5]</b> | <b>100.0</b> |

### 3.25.2 Did not get needed care- Did not have health insurance

Universe: Respondents who didn't get needed health care

|   | Yes         |                    | No care: no insurance |                    | Total<br>Row% |
|---|-------------|--------------------|-----------------------|--------------------|---------------|
|   | Row%        | 95%CI              | No<br>Row%            | 95%CI              |               |
| <b>FPL category</b>                                 |             |                    |                       |                    |               |
| 0-35% (n=578)                                       | 70.1        | [65.2,74.6]        | 29.9                  | [25.4,34.8]        | 100.0         |
| 36-99% (n=491)                                      | 66.3        | [61.2,71.2]        | 33.7                  | [28.8,38.8]        | 100.0         |
| ≥ 100%(n = 340)                                     | 61.1        | [55.0,66.8]        | 38.9                  | [33.2,45.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.4694      |                    |                       |                    |               |
| Design-based F(1.93, 2690.77) =                     | 2.8561      | Pr =               | 0.060                 |                    |               |
| <b>Region</b>                                       |             |                    |                       |                    |               |
| UP/NW/NE (n=262)                                    | 60.9        | [54.0,67.4]        | 39.1                  | [32.6,46.0]        | 100.0         |
| W/E Central/E (n=426)                               | 69.8        | [64.7,74.5]        | 30.2                  | [25.5,35.3]        | 100.0         |
| S Central/SW/SE (n=340)                             | 64.1        | [58.1,69.6]        | 35.9                  | [30.4,41.9]        | 100.0         |
| Detroit Metro (n=381)                               | 68.9        | [62.8,74.3]        | 31.1                  | [25.7,37.2]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.6753      |                    |                       |                    |               |
| Design-based F(2.64, 3681.94) =                     | 1.5153      | Pr =               | 0.213                 |                    |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                       |                    |               |
| Yes (n=118)   | 76.5        | [65.3,84.9]        | 23.5                  | [15.1,34.7]        | 100.0         |
| No (n=1,291)  | 66.3        | [63.0,69.4]        | 33.7                  | [30.6,37.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.2735      |                    |                       |                    |               |
| Design-based F(1.00, 1397.00) =                     | 3.1079      | Pr =               | 0.078                 |                    |               |
| <b>High ER utilizers</b>                            |             |                    |                       |                    |               |
| Yes (n=67)  | 66.5        | [52.5,78.1]        | 33.5                  | [21.9,47.5]        | 100.0         |
| No (n=1,342)  | 67.4        | [64.2,70.5]        | 32.6                  | [29.5,35.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0276      |                    |                       |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0189      | Pr =               | 0.891                 |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                       |                    |               |
| Chronic disease (HEDIS) (n=467)                     | 67.4        | [61.8,72.6]        | 32.6                  | [27.4,38.2]        | 100.0         |
| No chronic disease (n=942)                          | 67.3        | [63.5,70.9]        | 32.7                  | [29.1,36.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0017      |                    |                       |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0012      | Pr =               | 0.973                 |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                       |                    |               |
| MH/SA (HEDIS) (n=815)                               | 67.0        | [62.9,70.9]        | 33.0                  | [29.1,37.1]        | 100.0         |
| No MH/SA (n=594)                                    | 67.8        | [62.8,72.4]        | 32.2                  | [27.6,37.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0942      |                    |                       |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0584      | Pr =               | 0.809                 |                    |               |
| <b>Total (n=1,409)</b>                              | <b>67.4</b> | <b>[64.2,70.4]</b> | <b>32.6</b>           | <b>[29.6,35.8]</b> | <b>100.0</b>  |

### 3.25.3 Did not get needed care- Doctor or hospital would not accept the insurance

Universe: Respondents who didn't get needed health care

|   | Yes        |                  | No care: insurance not accepted |                    | Total<br>Row% |
|---|------------|------------------|---------------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                      | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                                 |                    |               |
| 0-35% (n=578)                                       | 3.9        | [2.6,5.8]        | 96.1                            | [94.2,97.4]        | 100.0         |
| 36-99% (n=491)                                      | 4.5        | [2.6,7.6]        | 95.5                            | [92.4,97.4]        | 100.0         |
| ≥ 100%(n = 340)                                     | 3.7        | [2.1,6.6]        | 96.3                            | [93.4,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.3240     |                  |                                 |                    |               |
| Design-based F(1.95, 2724.62) =                     | 0.1400     | Pr =             | 0.864                           |                    |               |
| <b>Region</b>                                       |            |                  |                                 |                    |               |
| UP/NW/NE (n=262)                                    | 3.0        | [1.3,7.1]        | 97.0                            | [92.9,98.7]        | 100.0         |
| W/E Central/E (n=426)                               | 3.8        | [2.3,6.4]        | 96.2                            | [93.6,97.7]        | 100.0         |
| S Central/SW/SE (n=340)                             | 6.1        | [3.7,9.7]        | 93.9                            | [90.3,96.3]        | 100.0         |
| Detroit Metro (n=381)                               | 3.3        | [1.9,5.7]        | 96.7                            | [94.3,98.1]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.3948     |                  |                                 |                    |               |
| Design-based F(2.86, 3991.84) =                     | 1.3052     | Pr =             | 0.271                           |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                                 |                    |               |
| Yes (n=118)   | 3.1        | [1.1,8.7]        | 96.9                            | [91.3,98.9]        | 100.0         |
| No (n=1,291)  | 4.1        | [3.1,5.6]        | 95.9                            | [94.4,96.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3465     |                  |                                 |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.2592     | Pr =             | 0.611                           |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                                 |                    |               |
| Yes (n=67)  | 7.3        | [2.7,18.2]       | 92.7                            | [81.8,97.3]        | 100.0         |
| No (n=1,342)  | 3.9        | [2.9,5.2]        | 96.1                            | [94.8,97.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.1407     |                  |                                 |                    |               |
| Design-based F(1.00, 1397.00) =                     | 1.5694     | Pr =             | 0.210                           |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                                 |                    |               |
| Chronic disease (HEDIS) (n=467)                     | 5.7        | [3.6,8.7]        | 94.3                            | [91.3,96.4]        | 100.0         |
| No chronic disease (n=942)                          | 3.4        | [2.3,4.9]        | 96.6                            | [95.1,97.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.8592     |                  |                                 |                    |               |
| Design-based F(1.00, 1397.00) =                     | 3.1296     | Pr =             | 0.077                           |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                                 |                    |               |
| MH/SA (HEDIS) (n=815)                               | 4.0        | [2.7,5.8]        | 96.0                            | [94.2,97.3]        | 100.0         |
| No MH/SA (n=594)                                    | 4.1        | [2.7,6.3]        | 95.9                            | [93.7,97.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0132     |                  |                                 |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0104     | Pr =             | 0.919                           |                    |               |
| <b>Total (n=1,409)</b>                              | <b>4.0</b> | <b>[3.0,5.4]</b> | <b>96.0</b>                     | <b>[94.6,97.0]</b> | <b>100.0</b>  |

### 3.25.4 Did not get needed care- Plan wouldn't pay for the treatment

Universe: Respondents who didn't get needed health care

|   | Yes        |                  | No care: plan wouldn't pay |                    | Total<br>Row% |
|---|------------|------------------|----------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                 | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                            |                    |               |
| 0-35% (n=578)                                       | 8.2        | [5.9,11.3]       | 91.8                       | [88.7,94.1]        | 100.0         |
| 36-99% (n=491)                                      | 7.0        | [4.7,10.4]       | 93.0                       | [89.6,95.3]        | 100.0         |
| ≥ 100% (n = 340)                                    | 8.1        | [5.4,11.9]       | 91.9                       | [88.1,94.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.5157     |                  |                            |                    |               |
| Design-based F(1.95, 2723.52) =                     | 0.2096     | Pr =             | 0.805                      |                    |               |
| <b>Region</b>                                       |            |                  |                            |                    |               |
| UP/NW/NE (n=262)                                    | 6.5        | [3.8,10.8]       | 93.5                       | [89.2,96.2]        | 100.0         |
| W/E Central/E (n=426)                               | 7.7        | [5.3,11.1]       | 92.3                       | [88.9,94.7]        | 100.0         |
| S Central/SW/SE (n=340)                             | 9.4        | [6.1,14.1]       | 90.6                       | [85.9,93.9]        | 100.0         |
| Detroit Metro (n=381)                               | 7.5        | [5.0,11.1]       | 92.5                       | [88.9,95.0]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.3991     |                  |                            |                    |               |
| Design-based F(2.70, 3777.44) =                     | 0.3803     | Pr =             | 0.746                      |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                            |                    |               |
| Yes (n=118)   | 7.0        | [3.3,14.4]       | 93.0                       | [85.6,96.7]        | 100.0         |
| No (n=1,291)  | 8.0        | [6.3,10.0]       | 92.0                       | [90.0,93.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1748     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.1089     | Pr =             | 0.741                      |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                            |                    |               |
| Yes (n=67)  | 11.2       | [4.3,26.1]       | 88.8                       | [73.9,95.7]        | 100.0         |
| No (n=1,342)  | 7.7        | [6.1,9.6]        | 92.3                       | [90.4,93.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.1781     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.6048     | Pr =             | 0.437                      |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                            |                    |               |
| Chronic disease (HEDIS) (n=467)                     | 8.0        | [5.4,11.7]       | 92.0                       | [88.3,94.6]        | 100.0         |
| No chronic disease (n=942)                          | 7.8        | [6.0,10.1]       | 92.2                       | [89.9,94.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0096     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0067     | Pr =             | 0.935                      |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                            |                    |               |
| MH/SA (HEDIS) (n=815)                               | 8.9        | [6.7,11.7]       | 91.1                       | [88.3,93.3]        | 100.0         |
| No MH/SA (n=594)                                    | 6.6        | [4.7,9.2]        | 93.4                       | [90.8,95.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.4743     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 1.7365     | Pr =             | 0.188                      |                    |               |
| <b>Total (n=1,409)</b>                              | <b>7.9</b> | <b>[6.3,9.8]</b> | <b>92.1</b>                | <b>[90.2,93.7]</b> | <b>100.0</b>  |

### 3.25.5 Did not get needed care- Couldn't get an appointment soon enough

Universe: Respondents who didn't get needed health care

|   | Yes        |                  | No care: no appointment |                    | Total<br>Row% |
|---|------------|------------------|-------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%              | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                         |                    |               |
| 0-35% (n=578)                                       | 3.8        | [2.4,5.9]        | 96.2                    | [94.1,97.6]        | 100.0         |
| 36-99% (n=491)                                      | 3.7        | [2.2,6.2]        | 96.3                    | [93.8,97.8]        | 100.0         |
| ≥ 100%(n = 340)                                     | 2.4        | [1.2,4.8]        | 97.6                    | [95.2,98.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1431     |                  |                         |                    |               |
| Design-based F(1.94, 2710.49) =                     | 0.5405     | Pr =             | 0.577                   |                    |               |
| <b>Region</b>                                       |            |                  |                         |                    |               |
| UP/NW/NE (n=262)                                    | 3.1        | [1.6,6.2]        | 96.9                    | [93.8,98.4]        | 100.0         |
| W/E Central/E (n=426)                               | 2.0        | [1.1,3.8]        | 98.0                    | [96.2,98.9]        | 100.0         |
| S Central/SW/SE (n=340)                             | 4.1        | [2.5,6.9]        | 95.9                    | [93.1,97.5]        | 100.0         |
| Detroit Metro (n=381)                               | 4.3        | [2.5,7.2]        | 95.7                    | [92.8,97.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.8899     |                  |                         |                    |               |
| Design-based F(2.68, 3740.88) =                     | 1.3913     | Pr =             | 0.246                   |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                         |                    |               |
| Yes (n=118)   | 3.2        | [1.4,7.3]        | 96.8                    | [92.7,98.6]        | 100.0         |
| No (n=1,291)  | 3.5        | [2.5,5.0]        | 96.5                    | [95.0,97.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0482     |                  |                         |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0510     | Pr =             | 0.821                   |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                         |                    |               |
| Yes (n=67)  | 7.8        | [2.9,19.4]       | 92.2                    | [80.6,97.1]        | 100.0         |
| No (n=1,342)  | 3.3        | [2.3,4.6]        | 96.7                    | [95.4,97.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.1297     |                  |                         |                    |               |
| Design-based F(1.00, 1397.00) =                     | 2.8248     | Pr =             | 0.093                   |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                         |                    |               |
| Chronic disease (HEDIS) (n=467)                     | 4.0        | [2.5,6.2]        | 96.0                    | [93.8,97.5]        | 100.0         |
| No chronic disease (n=942)                          | 3.3        | [2.2,5.0]        | 96.7                    | [95.0,97.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3660     |                  |                         |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.3337     | Pr =             | 0.564                   |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                         |                    |               |
| MH/SA (HEDIS) (n=815)                               | 3.8        | [2.5,5.6]        | 96.2                    | [94.4,97.5]        | 100.0         |
| No MH/SA (n=594)                                    | 3.2        | [1.9,5.2]        | 96.8                    | [94.8,98.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3221     |                  |                         |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.2435     | Pr =             | 0.622                   |                    |               |
| <b>Total (n=1,409)</b>                              | <b>3.5</b> | <b>[2.6,4.8]</b> | <b>96.5</b>             | <b>[95.2,97.4]</b> | <b>100.0</b>  |

### 3.25.6 Did not get needed care- Didn't have transportation

Universe: Respondents who didn't get needed health care

|   | Yes        |                  | No care: no transportation |                    | Total<br>Row% |
|---|------------|------------------|----------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                 | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                            |                    |               |
| 0-35% (n=578)                                       | 3.5        | [2.1,5.6]        | 96.5                       | [94.4,97.9]        | 100.0         |
| 36-99% (n=491)                                      | 2.0        | [1.1,3.7]        | 98.0                       | [96.3,98.9]        | 100.0         |
| ≥ 100%(n = 340)                                     | 1.7        | [0.6,4.6]        | 98.3                       | [95.4,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2857     |                  |                            |                    |               |
| Design-based F(1.96, 2738.36) =                     | 1.4762     | Pr =             | 0.229                      |                    |               |
| <b>Region</b>                                       |            |                  |                            |                    |               |
| UP/NW/NE (n=262)                                    | 2.1        | [0.7,6.0]        | 97.9                       | [94.0,99.3]        | 100.0         |
| W/E Central/E (n=426)                               | 3.1        | [1.5,6.1]        | 96.9                       | [93.9,98.5]        | 100.0         |
| S Central/SW/SE (n=340)                             | 3.2        | [1.8,5.5]        | 96.8                       | [94.5,98.2]        | 100.0         |
| Detroit Metro (n=381)                               | 2.4        | [1.2,4.9]        | 97.6                       | [95.1,98.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.8907     |                  |                            |                    |               |
| Design-based F(2.73, 3819.55) =                     | 0.2423     | Pr =             | 0.849                      |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                            |                    |               |
| Yes (n=118)   | 5.1        | [2.2,11.5]       | 94.9                       | [88.5,97.8]        | 100.0         |
| No (n=1,291)  | 2.5        | [1.6,3.7]        | 97.5                       | [96.3,98.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.4053     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 2.3478     | Pr =             | 0.126                      |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                            |                    |               |
| Yes (n=67)  | 3.6        | [1.1,11.8]       | 96.4                       | [88.2,98.9]        | 100.0         |
| No (n=1,342)  | 2.7        | [1.8,4.0]        | 97.3                       | [96.0,98.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2368     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.2182     | Pr =             | 0.640                      |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                            |                    |               |
| Chronic disease (HEDIS) (n=467)                     | 3.5        | [1.7,6.9]        | 96.5                       | [93.1,98.3]        | 100.0         |
| No chronic disease (n=942)                          | 2.4        | [1.6,3.8]        | 97.6                       | [96.2,98.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.1838     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.7372     | Pr =             | 0.391                      |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                            |                    |               |
| MH/SA (HEDIS) (n=815)                               | 3.2        | [1.9,5.1]        | 96.8                       | [94.9,98.1]        | 100.0         |
| No MH/SA (n=594)                                    | 2.2        | [1.3,3.8]        | 97.8                       | [96.2,98.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.1971     |                  |                            |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.9139     | Pr =             | 0.339                      |                    |               |
| <b>Total (n=1,409)</b>                              | <b>2.7</b> | <b>[1.9,4.0]</b> | <b>97.3</b>                | <b>[96.0,98.1]</b> | <b>100.0</b>  |



### 3.25.7 Did not get needed care- No doctor

Universe: Respondents who didn't get needed health care

|   | Yes        |                  | No care: Other—didn't have a doctor |                    | Total<br>Row% |
|---|------------|------------------|-------------------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                          | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                                     |                    |               |
| 0-35% (n=578)                                       | 1.1        | [0.6,2.2]        | 98.9                                | [97.8,99.4]        | 100.0         |
| 36-99% (n=491)                                      | 1.8        | [0.9,3.5]        | 98.2                                | [96.5,99.1]        | 100.0         |
| ≥ 100% (n = 340)                                    | 0.8        | [0.3,2.3]        | 99.2                                | [97.7,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.3268     |                  |                                     |                    |               |
| Design-based F(1.93, 2691.65) =                     | 0.8359     | Pr =             | 0.430                               |                    |               |
| <b>Region</b>                                       |            |                  |                                     |                    |               |
| UP/NW/NE (n=262)                                    | 2.7        | [1.3,5.8]        | 97.3                                | [94.2,98.7]        | 100.0         |
| W/E Central/E (n=426)                               | 0.9        | [0.4,2.2]        | 99.1                                | [97.8,99.6]        | 100.0         |
| S Central/SW/SE (n=340)                             | 2.3        | [1.0,4.9]        | 97.7                                | [95.1,99.0]        | 100.0         |
| Detroit Metro (n=381)                               | 0.5        | [0.2,1.8]        | 99.5                                | [98.2,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 7.6342     |                  |                                     |                    |               |
| Design-based F(2.81, 3923.11) =                     | 2.8955     | Pr =             | 0.037                               |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                                     |                    |               |
| Yes (n=118)   | 1.7        | [0.3,8.1]        | 98.3                                | [91.9,99.7]        | 100.0         |
| No (n=1,291)  | 1.2        | [0.8,1.8]        | 98.8                                | [98.2,99.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2833     |                  |                                     |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.1813     | Pr =             | 0.670                               |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                                     |                    |               |
| Yes (n=67)  | 1.1        | [0.1,7.3]        | 98.9                                | [92.7,99.9]        | 100.0         |
| No (n=1,342)  | 1.2        | [0.8,2.0]        | 98.8                                | [98.0,99.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0151     |                  |                                     |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0189     | Pr =             | 0.891                               |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                                     |                    |               |
| Chronic disease (HEDIS) (n=467)                     | 1.2        | [0.5,2.9]        | 98.8                                | [97.1,99.5]        | 100.0         |
| No chronic disease (n=942)                          | 1.2        | [0.7,2.1]        | 98.8                                | [97.9,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0000     |                  |                                     |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.0000     | Pr =             | 0.995                               |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                                     |                    |               |
| MH/SA (HEDIS) (n=815)                               | 1.3        | [0.8,2.4]        | 98.7                                | [97.6,99.2]        | 100.0         |
| No MH/SA (n=594)                                    | 1.1        | [0.5,2.2]        | 98.9                                | [97.8,99.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1743     |                  |                                     |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.1895     | Pr =             | 0.663                               |                    |               |
| <b>Total (n=1,409)</b>                              | <b>1.2</b> | <b>[0.8,1.9]</b> | <b>98.8</b>                         | <b>[98.1,99.2]</b> | <b>100.0</b>  |

### 3.25.8 Did not get needed care- Care wasn't sufficient or of poor quality

Universe: Respondents who didn't get needed health care

|   | Yes        |                  | No care: Other-got care, not acceptable |                    | Total<br>Row% |
|---|------------|------------------|---|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                              | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |   |                    |               |
| 0-35% (n=578)                                       | 1.0        | [0.4,2.4]        | 99.0                                    | [97.6,99.6]        | 100.0         |
| 36-99% (n=491)                                      | 1.6        | [0.8,3.2]        | 98.4                                    | [96.8,99.2]        | 100.0         |
| ≥ 100%(n = 340)                                     | 0.6        | [0.2,1.9]        | 99.4                                    | [98.1,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.7041     |                  |   |                    |               |
| Design-based F(1.79, 2507.51) =                     | 0.9491     | Pr =             | 0.379                                   |                    |               |
| <b>Region</b>                                       |            |                  |   |                    |               |
| UP/NW/NE (n=262)                                    | 1.5        | [0.4,5.1]        | 98.5                                    | [94.9,99.6]        | 100.0         |
| W/E Central/E (n=426)                               | 1.3        | [0.5,3.4]        | 98.7                                    | [96.6,99.5]        | 100.0         |
| S Central/SW/SE (n=340)                             | 1.0        | [0.4,2.5]        | 99.0                                    | [97.5,99.6]        | 100.0         |
| Detroit Metro (n=381)                               | 0.9        | [0.3,2.5]        | 99.1                                    | [97.5,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.5814     |                  |   |                    |               |
| Design-based F(2.81, 3920.82) =                     | 0.1899     | Pr =             | 0.892                                   |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |   |                    |               |
| Yes (n=118)   | 0.5        | [0.1,3.8]        | 99.5                                    | [96.2,99.9]        | 100.0         |
| No (n=1,291)  | 1.2        | [0.7,2.0]        | 98.8                                    | [98.0,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4655     |                  |   |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.5638     | Pr =             | 0.453                                   |                    |               |
| <b>High ER utilizers</b>                            |            |                  |   |                    |               |
| Yes (n=67)  | 4.8        | [1.3,16.4]       | 95.2                                    | [83.6,98.7]        | 100.0         |
| No (n=1,342)  | 0.9        | [0.5,1.6]        | 99.1                                    | [98.4,99.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 9.5429     |                  |   |                    |               |
| Design-based F(1.00, 1397.00) =                     | 6.4347     | Pr =             | 0.011                                   |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |   |                    |               |
| Chronic disease (HEDIS) (n=467)                     | 1.7        | [0.8,3.7]        | 98.3                                    | [96.3,99.2]        | 100.0         |
| No chronic disease (n=942)                          | 0.8        | [0.4,1.8]        | 99.2                                    | [98.2,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.9894     |                  |   |                    |               |
| Design-based F(1.00, 1397.00) =                     | 1.7251     | Pr =             | 0.189                                   |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |   |                    |               |
| MH/SA (HEDIS) (n=815)                               | 1.3        | [0.6,2.7]        | 98.7                                    | [97.3,99.4]        | 100.0         |
| No MH/SA (n=594)                                    | 0.8        | [0.4,1.7]        | 99.2                                    | [98.3,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7427     |                  |   |                    |               |
| Design-based F(1.00, 1397.00) =                     | 0.8056     | Pr =             | 0.370                                   |                    |               |
| <b>Total (n=1,409)</b>                              | <b>1.1</b> | <b>[0.6,1.9]</b> | <b>98.9</b>                             | <b>[98.1,99.4]</b> | <b>100.0</b>  |

### 3.25.9 Did not get needed care- Don't know

*Universe:* Respondents who didn't get needed health care

| <b>No care: Don't know</b> | No.             |
|----------------------------|-----------------|
| Yes                        | 692.0           |
| No                         | 125121.9        |
| <b>Total</b>               | <b>125813.8</b> |

### 3.25.10 Did not get needed care- Refused

*Universe:* Respondents who didn't get needed health care

| <b>No care: Refused</b> | No.             |
|-------------------------|-----------------|
| No                      | 125813.8        |
| <b>Total</b>            | <b>125813.8</b> |

### 3.26 Q: In the last 12 months, was there any time when you didn't get the medical or dental care you needed?

Universe: All respondents

|   | Yes     |             | Unmet medical/dental need |             |                    |           | Total<br>Row% |
|---|---------|-------------|---------------------------|-------------|--------------------|-----------|---------------|
|   | Row%    | 95%CI       | No<br>Row%                | 95%CI       | Don't know<br>Row% | 95%CI     |               |
| <b>FPL category</b>                                 |         |             |                           |             |                    |           |               |
| 0-35% (n=1,597)                                     | 16.0    | [13.9,18.4] | 83.6                      | [81.2,85.7] | 0.4                | [0.2,0.8] | 100.0         |
| 36-99% (n=1,447)                                    | 15.4    | [13.2,17.8] | 84.2                      | [81.7,86.3] | 0.4                | [0.2,0.9] | 100.0         |
| ≥ 100% (n = 1,040)                                  | 15.0    | [12.7,17.6] | 84.6                      | [81.9,86.9] | 0.4                | [0.2,1.0] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 0.7124  |             |                           |             |                    |           |               |
| Design-based F(3.65, 14881.82) =                    | 0.1634  | Pr =        | 0.947                     |             |                    |           |               |
| <b>Region</b>                                       |         |             |                           |             |                    |           |               |
| UP/NW/NE (n=746)                                    | 12.5    | [10.1,15.4] | 87.1                      | [84.2,89.6] | 0.4                | [0.1,1.4] | 100.0         |
| W/E Central/E (n=1,262)                             | 14.3    | [12.2,16.7] | 85.3                      | [82.8,87.4] | 0.4                | [0.2,0.9] | 100.0         |
| S Central/SW/SE (n=836)                             | 18.9    | [16.0,22.2] | 80.9                      | [77.6,83.9] | 0.1                | [0.0,0.5] | 100.0         |
| Detroit Metro (n=1,240)                             | 15.8    | [13.4,18.5] | 83.7                      | [81.0,86.1] | 0.5                | [0.2,1.0] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 12.3157 |             |                           |             |                    |           |               |
| Design-based F(4.96, 20192.84) =                    | 2.1280  | Pr =        | 0.060                     |             |                    |           |               |
| <b>Low healthcare utilizers</b>                     |         |             |                           |             |                    |           |               |
| Yes (n=489)   | 14.6    | [11.1,18.9] | 84.7                      | [80.3,88.2] | 0.7                | [0.2,2.4] | 100.0         |
| No (n=3,595)  | 15.8    | [14.4,17.4] | 83.8                      | [82.2,85.3] | 0.3                | [0.2,0.5] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.7257  |             |                           |             |                    |           |               |
| Design-based F(1.96, 7965.39) =                     | 0.8206  | Pr =        | 0.438                     |             |                    |           |               |
| <b>High ER utilizers</b>                            |         |             |                           |             |                    |           |               |
| Yes (n=155)   | 16.6    | [11.0,24.4] | 82.9                      | [75.1,88.6] | 0.5                | [0.1,3.2] | 100.0         |
| No (n=3,929)  | 15.6    | [14.2,17.1] | 84.0                      | [82.5,85.4] | 0.4                | [0.2,0.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1541  |             |                           |             |                    |           |               |
| Design-based F(1.84, 7512.57) =                     | 0.0657  | Pr =        | 0.924                     |             |                    |           |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                           |             |                    |           |               |
| Chronic disease (HEDIS) (n=1,160)                   | 16.4    | [13.9,19.4] | 83.3                      | [80.4,85.9] | 0.2                | [0.1,0.6] | 100.0         |
| No chronic disease (n=2,924)                        | 15.4    | [13.8,17.1] | 84.2                      | [82.4,85.8] | 0.5                | [0.3,0.8] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.5694  |             |                           |             |                    |           |               |
| Design-based F(1.77, 7189.59) =                     | 0.6984  | Pr =        | 0.480                     |             |                    |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                           |             |                    |           |               |
| MH/SA (HEDIS) (n=2,030)                             | 17.9    | [15.9,20.0] | 81.8                      | [79.6,83.7] | 0.3                | [0.2,0.6] | 100.0         |
| No MH/SA (n=2,054)                                  | 13.6    | [11.7,15.7] | 86.0                      | [83.9,87.9] | 0.4                | [0.2,0.9] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.5027 |             |                           |             |                    |           |               |
| Design-based F(1.83, 7465.23) =                     | 5.6324  | Pr =        | 0.005                     |             |                    |           |               |
| <b>Total (n=4,084)</b>                              | 15.6    | [14.3,17.1] | 84.0                      | [82.5,85.3] | 0.4                | [0.2,0.6] | 100.0         |

### 3.27 Q: Why didn't you get the care you needed?

#### 3.27.1 Unmet need- Worried about cost

Universe: Respondents who did not receive needed medical or dental care

|   | Yes         |                    | Didn't get care: cost |                    | Total Row%   |
|---|-------------|--------------------|-----------------------|--------------------|--------------|
|   | Row%        | 95%CI              | Row%                  | 95%CI              |              |
| <b>FPL category</b>                                 |             |                    |                       |                    |              |
| 0-35% (n=252)                                       | 26.6        | [20.4,33.9]        | 73.4                  | [66.1,79.6]        | 100.0        |
| 36-99% (n=215)                                      | 26.0        | [19.5,33.7]        | 74.0                  | [66.3,80.5]        | 100.0        |
| ≥ 100% (n = 162)                                    | 21.0        | [15.0,28.6]        | 79.0                  | [71.4,85.0]        | 100.0        |
| Pearson: Uncorrected chi2(2) =                      | 1.5212      |                    |                       |                    |              |
| Design-based F(1.90, 1170.81) =                     | 0.6104      | Pr =               | 0.535                 |                    |              |
| <b>Region</b>                                       |             |                    |                       |                    |              |
| UP/NW/NE (n=98)                                     | 22.7        | [15.0,32.8]        | 77.3                  | [67.2,85.0]        | 100.0        |
| W/E Central/E (n=175)                               | 25.4        | [18.8,33.4]        | 74.6                  | [66.6,81.2]        | 100.0        |
| S Central/SW/SE (n=161)                             | 29.8        | [22.3,38.5]        | 70.2                  | [61.5,77.7]        | 100.0        |
| Detroit Metro (n=195)                               | 23.5        | [16.8,31.9]        | 76.5                  | [68.1,83.2]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 2.1364      |                    |                       |                    |              |
| Design-based F(2.55, 1575.32) =                     | 0.5948      | Pr =               | 0.592                 |                    |              |
| <b>Low healthcare utilizers</b>                     |             |                    |                       |                    |              |
| Yes (n=75)  | 35.9        | [23.5,50.7]        | 64.1                  | [49.3,76.5]        | 100.0        |
| No (n=554)  | 23.6        | [19.5,28.3]        | 76.4                  | [71.7,80.5]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 6.1199      |                    |                       |                    |              |
| Design-based F(1.00, 617.00) =                      | 3.2762      | Pr =               | 0.071                 |                    |              |
| <b>High ER utilizers</b>                            |             |                    |                       |                    |              |
| Yes (n=30)  | 23.3        | [10.2,44.9]        | 76.7                  | [55.1,89.8]        | 100.0        |
| No (n=599)  | 25.5        | [21.3,30.2]        | 74.5                  | [69.8,78.7]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 0.0680      |                    |                       |                    |              |
| Design-based F(1.00, 617.00) =                      | 0.0508      | Pr =               | 0.822                 |                    |              |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                       |                    |              |
| Chronic disease (HEDIS) (n=174)                     | 17.2        | [11.9,24.2]        | 82.8                  | [75.8,88.1]        | 100.0        |
| No chronic disease (n=455)                          | 28.3        | [23.3,33.9]        | 71.7                  | [66.1,76.7]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 7.9377      |                    |                       |                    |              |
| Design-based F(1.00, 617.00) =                      | 6.3487      | Pr =               | 0.012                 |                    |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                       |                    |              |
| MH/SA (HEDIS) (n=361)                               | 26.3        | [21.3,32.1]        | 73.7                  | [67.9,78.7]        | 100.0        |
| No MH/SA (n=268)                                    | 24.2        | [17.9,31.8]        | 75.8                  | [68.2,82.1]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 0.3673      |                    |                       |                    |              |
| Design-based F(1.00, 617.00) =                      | 0.2174      | Pr =               | 0.641                 |                    |              |
| <b>Total (n=629)</b>                                | <b>25.4</b> | <b>[21.3,29.9]</b> | <b>74.6</b>           | <b>[70.1,78.7]</b> | <b>100.0</b> |

### 3.27.2 Unmet need- Did not have health insurance

Universe: Respondents who did not receive needed medical or dental care

|   | Didn't get care: no insurance |                   |             |                    | Total<br>Row% |
|---|-------------------------------|-------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                   | 95%CI             | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                               |                   |             |                    |               |
| 0-35% (n=252)                                       | 10.6                          | [6.1,17.6]        | 89.4        | [82.4,93.9]        | 100.0         |
| 36-99% (n=215)                                      | 6.1                           | [3.3,10.8]        | 93.9        | [89.2,96.7]        | 100.0         |
| ≥ 100%(n = 162)                                     | 6.4                           | [3.5,11.4]        | 93.6        | [88.6,96.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.8962                        |                   |             |                    |               |
| Design-based F(1.82, 1123.09) =                     | 1.5789                        | Pr =              | 0.209       |                    |               |
| <b>Region</b>                                       |                               |                   |             |                    |               |
| UP/NW/NE (n=98)                                     | 3.0                           | [1.0,9.0]         | 97.0        | [91.0,99.0]        | 100.0         |
| W/E Central/E (n=175)                               | 7.6                           | [4.1,13.6]        | 92.4        | [86.4,95.9]        | 100.0         |
| S Central/SW/SE (n=161)                             | 5.7                           | [2.6,12.2]        | 94.3        | [87.8,97.4]        | 100.0         |
| Detroit Metro (n=195)                               | 11.4                          | [6.4,19.5]        | 88.6        | [80.5,93.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 6.3512                        |                   |             |                    |               |
| Design-based F(2.44, 1508.32) =                     | 1.6846                        | Pr =              | 0.178       |                    |               |
| <b>Low healthcare utilizers</b>                     |                               |                   |             |                    |               |
| Yes (n=75)  | 18.4                          | [9.1,33.7]        | 81.6        | [66.3,90.9]        | 100.0         |
| No (n=554)  | 6.9                           | [4.3,10.8]        | 93.1        | [89.2,95.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 12.9294                       |                   |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 5.6962                        | Pr =              | 0.017       |                    |               |
| <b>High ER utilizers</b>                            |                               |                   |             |                    |               |
| Yes (n=30)  | 20.8                          | [6.8,48.7]        | 79.2        | [51.3,93.2]        | 100.0         |
| No (n=599)  | 7.9                           | [5.2,11.8]        | 92.1        | [88.2,94.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.0149                        |                   |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 2.8792                        | Pr =              | 0.090       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |                   |             |                    |               |
| Chronic disease (HEDIS) (n=174)                     | 8.5                           | [4.2,16.3]        | 91.5        | [83.7,95.8]        | 100.0         |
| No chronic disease (n=455)                          | 8.5                           | [5.4,13.3]        | 91.5        | [86.7,94.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0001                        |                   |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.0001                        | Pr =              | 0.994       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |                   |             |                    |               |
| MH/SA (HEDIS) (n=361)                               | 7.6                           | [4.5,12.6]        | 92.4        | [87.4,95.5]        | 100.0         |
| No MH/SA (n=268)                                    | 9.7                           | [5.5,16.5]        | 90.3        | [83.5,94.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.8426                        |                   |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.3815                        | Pr =              | 0.537       |                    |               |
| <b>Total (n=629)</b>                                | <b>8.5</b>                    | <b>[5.8,12.4]</b> | <b>91.5</b> | <b>[87.6,94.2]</b> | <b>100.0</b>  |

### 3.27.3 Unmet need- Doctor or hospital would not accept

Universe: Respondents who did not receive needed medical or dental care

|   | Didn't get care: insurance not accepted |                    |             |                    | Total<br>Row% |
|---|---|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                             | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |   |                    |             |                    |               |
| 0-35% (n=252)                                       | 27.6                                    | [21.1,35.3]        | 72.4        | [64.7,78.9]        | 100.0         |
| 36-99% (n=215)                                      | 17.1                                    | [12.4,23.0]        | 82.9        | [77.0,87.6]        | 100.0         |
| ≥ 100%(n = 162)                                     | 23.3                                    | [16.4,32.1]        | 76.7        | [67.9,83.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.0500                                  |                    |             |                    |               |
| Design-based F(1.92, 1182.77) =                     | 2.8543                                  | Pr =               | 0.060       |                    |               |
| <b>Region</b>                                       |   |                    |             |                    |               |
| UP/NW/NE (n=98)                                     | 25.3                                    | [16.6,36.6]        | 74.7        | [63.4,83.4]        | 100.0         |
| W/E Central/E (n=175)                               | 24.8                                    | [18.0,33.2]        | 75.2        | [66.8,82.0]        | 100.0         |
| S Central/SW/SE (n=161)                             | 21.3                                    | [14.8,29.7]        | 78.7        | [70.3,85.2]        | 100.0         |
| Detroit Metro (n=195)                               | 24.4                                    | [17.5,33.0]        | 75.6        | [67.0,82.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.6930                                  |                    |             |                    |               |
| Design-based F(2.63, 1625.75) =                     | 0.1811                                  | Pr =               | 0.888       |                    |               |
| <b>Low healthcare utilizers</b>                     |   |                    |             |                    |               |
| Yes (n=75)  | 24.7                                    | [14.5,38.8]        | 75.3        | [61.2,85.5]        | 100.0         |
| No (n=554)  | 23.7                                    | [19.4,28.7]        | 76.3        | [71.3,80.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0374                                  |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.0202                                  | Pr =               | 0.887       |                    |               |
| <b>High ER utilizers</b>                            |   |                    |             |                    |               |
| Yes (n=30)  | 53.0                                    | [32.6,72.5]        | 47.0        | [27.5,67.4]        | 100.0         |
| No (n=599)  | 22.4                                    | [18.3,27.2]        | 77.6        | [72.8,81.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 14.4013                                 |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 10.4138                                 | Pr =               | 0.001       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                    |             |                    |               |
| Chronic disease (HEDIS) (n=174)                     | 28.0                                    | [19.9,37.8]        | 72.0        | [62.2,80.1]        | 100.0         |
| No chronic disease (n=455)                          | 22.4                                    | [17.8,27.7]        | 77.6        | [72.3,82.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.1312                                  |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 1.2316                                  | Pr =               | 0.268       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                    |             |                    |               |
| MH/SA (HEDIS) (n=361)                               | 24.8                                    | [19.5,31.0]        | 75.2        | [69.0,80.5]        | 100.0         |
| No MH/SA (n=268)                                    | 22.7                                    | [16.7,30.1]        | 77.3        | [69.9,83.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3852                                  |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.2169                                  | Pr =               | 0.642       |                    |               |
| <b>Total (n=629)</b>                                | <b>23.9</b>                             | <b>[19.8,28.5]</b> | <b>76.1</b> | <b>[71.5,80.2]</b> | <b>100.0</b>  |



### 3.27.4 Unmet need- Plan wouldn't pay

Universe: Respondents who did not receive needed medical or dental care

|   | Didn't get care: health plan wouldn't pay |                    |             |                    | Total<br>Row% |
|---|---|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                               | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |   |                    |             |                    |               |
| 0-35% (n=252)                                       | 36.3                                      | [29.4,43.9]        | 63.7        | [56.1,70.6]        | 100.0         |
| 36-99% (n=215)                                      | 48.1                                      | [40.0,56.2]        | 51.9        | [43.8,60.0]        | 100.0         |
| ≥ 100%(n = 162)                                     | 36.5                                      | [28.6,45.3]        | 63.5        | [54.7,71.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.2596                                    |                    |             |                    |               |
| Design-based F(1.92, 1185.61) =                     | 2.8058                                    | Pr =               | 0.063       |                    |               |
| <b>Region</b>                                       |   |                    |             |                    |               |
| UP/NW/NE (n=98)                                     | 33.7                                      | [24.1,44.8]        | 66.3        | [55.2,75.9]        | 100.0         |
| W/E Central/E (n=175)                               | 34.6                                      | [27.0,43.1]        | 65.4        | [56.9,73.0]        | 100.0         |
| S Central/SW/SE (n=161)                             | 35.0                                      | [27.0,43.9]        | 65.0        | [56.1,73.0]        | 100.0         |
| Detroit Metro (n=195)                               | 46.0                                      | [37.5,54.7]        | 54.0        | [45.3,62.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 8.4028                                    |                    |             |                    |               |
| Design-based F(2.64, 1628.11) =                     | 2.3675                                    | Pr =               | 0.077       |                    |               |
| <b>Low healthcare utilizers</b>                     |   |                    |             |                    |               |
| Yes (n=75)  | 36.4                                      | [23.6,51.4]        | 63.6        | [48.6,76.4]        | 100.0         |
| No (n=554)  | 40.2                                      | [35.2,45.4]        | 59.8        | [54.6,64.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4540                                    |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.2320                                    | Pr =               | 0.630       |                    |               |
| <b>High ER utilizers</b>                            |   |                    |             |                    |               |
| Yes (n=30)  | 24.0                                      | [11.4,43.7]        | 76.0        | [56.3,88.6]        | 100.0         |
| No (n=599)  | 40.4                                      | [35.5,45.5]        | 59.6        | [54.5,64.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.1537                                    |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 2.7591                                    | Pr =               | 0.097       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                    |             |                    |               |
| Chronic disease (HEDIS) (n=174)                     | 40.9                                      | [32.2,50.2]        | 59.1        | [49.8,67.8]        | 100.0         |
| No chronic disease (n=455)                          | 39.2                                      | [33.7,45.0]        | 60.8        | [55.0,66.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1465                                    |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.0964                                    | Pr =               | 0.756       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                    |             |                    |               |
| MH/SA (HEDIS) (n=361)                               | 41.7                                      | [35.6,48.0]        | 58.3        | [52.0,64.4]        | 100.0         |
| No MH/SA (n=268)                                    | 37.1                                      | [29.9,45.0]        | 62.9        | [55.0,70.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3446                                    |                    |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.8173                                    | Pr =               | 0.366       |                    |               |
| <b>Total (n=629)</b>                                | <b>39.6</b>                               | <b>[34.9,44.5]</b> | <b>60.4</b> | <b>[55.5,65.1]</b> | <b>100.0</b>  |

### 3.27.5 Unmet need- Couldn't get an appointment soon enough

Universe: Respondents who did not receive needed medical or dental care

|   | Yes    |             | Didn't get care: no close appt |             | Total<br>Row% |
|---|--------|-------------|--------------------------------|-------------|---------------|
|   | Row%   | 95%CI       | No<br>Row%                     | 95%CI       |               |
| <b>FPL category</b>                                 |        |             |                                |             |               |
| 0-35% (n=252)                                       | 12.1   | [7.9,18.0]  | 87.9                           | [82.0,92.1] | 100.0         |
| 36-99% (n=215)                                      | 9.2    | [5.9,14.1]  | 90.8                           | [85.9,94.1] | 100.0         |
| ≥ 100%(n = 163)                                     | 13.1   | [8.0,20.6]  | 86.9                           | [79.4,92.0] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.3375 |             |                                |             |               |
| Design-based F(1.92, 1188.75) =                     | 0.5582 | Pr =        | 0.566                          |             |               |
| <b>Region</b>                                       |        |             |                                |             |               |
| UP/NW/NE (n=99)                                     | 13.2   | [7.4,22.4]  | 86.8                           | [77.6,92.6] | 100.0         |
| W/E Central/E (n=175)                               | 12.6   | [7.9,19.3]  | 87.4                           | [80.7,92.1] | 100.0         |
| S Central/SW/SE (n=161)                             | 16.2   | [10.2,24.9] | 83.8                           | [75.1,89.8] | 100.0         |
| Detroit Metro (n=195)                               | 8.1    | [4.4,14.3]  | 91.9                           | [85.7,95.6] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 6.6253 |             |                                |             |               |
| Design-based F(2.58, 1593.65) =                     | 1.7167 | Pr =        | 0.169                          |             |               |
| <b>Low healthcare utilizers</b>                     |        |             |                                |             |               |
| Yes (n=75)  | 10.9   | [4.4,24.4]  | 89.1                           | [75.6,95.6] | 100.0         |
| No (n=555)  | 11.6   | [8.7,15.2]  | 88.4                           | [84.8,91.3] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0329 |             |                                |             |               |
| Design-based F(1.00, 618.00) =                      | 0.0162 | Pr =        | 0.899                          |             |               |
| <b>High ER utilizers</b>                            |        |             |                                |             |               |
| Yes (n=30)  | 9.2    | [3.2,23.6]  | 90.8                           | [76.4,96.8] | 100.0         |
| No (n=600)  | 11.6   | [8.7,15.2]  | 88.4                           | [84.8,91.3] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1610 |             |                                |             |               |
| Design-based F(1.00, 618.00) =                      | 0.1955 | Pr =        | 0.659                          |             |               |
| <b>Chronic disease (HEDIS)</b>                      |        |             |                                |             |               |
| Chronic disease (HEDIS) (n=174)                     | 8.6    | [4.8,14.7]  | 91.4                           | [85.3,95.2] | 100.0         |
| No chronic disease (n=456)                          | 12.5   | [9.1,16.9]  | 87.5                           | [83.1,90.9] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.8748 |             |                                |             |               |
| Design-based F(1.00, 618.00) =                      | 1.4131 | Pr =        | 0.235                          |             |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |        |             |                                |             |               |
| MH/SA (HEDIS) (n=361)                               | 10.2   | [7.1,14.4]  | 89.8                           | [85.6,92.9] | 100.0         |
| No MH/SA (n=269)                                    | 13.1   | [8.6,19.3]  | 86.9                           | [80.7,91.4] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.2869 |             |                                |             |               |
| Design-based F(1.00, 618.00) =                      | 0.8276 | Pr =        | 0.363                          |             |               |
| <b>Total (n=630)</b>                                | 11.5   | [8.7,14.9]  | 88.5                           | [85.1,91.3] | 100.0         |

### 3.27.6 Unmet need- Didn't have transportation

Universe: Respondents who did not receive needed medical or dental care

|   | Yes        |                  | Didn't get care: no transportation |                    | Total<br>Row% |
|---|------------|------------------|------------------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                         | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                                    |                    |               |
| 0-35% (n=252)                                       | 8.7        | [5.1,14.6]       | 91.3                               | [85.4,94.9]        | 100.0         |
| 36-99% (n=215)                                      | 2.4        | [0.9,6.5]        | 97.6                               | [93.5,99.1]        | 100.0         |
| ≥ 100%(n = 162)                                     | 4.1        | [1.6,10.1]       | 95.9                               | [89.9,98.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 8.9524     |                  |                                    |                    |               |
| Design-based F(1.97, 1217.21) =                     | 3.4908     | Pr =             | 0.031                              |                    |               |
| <b>Region</b>                                       |            |                  |                                    |                    |               |
| UP/NW/NE (n=98)                                     | 2.7        | [0.8,8.2]        | 97.3                               | [91.8,99.2]        | 100.0         |
| W/E Central/E (n=175)                               | 5.5        | [2.7,11.1]       | 94.5                               | [88.9,97.3]        | 100.0         |
| S Central/SW/SE (n=161)                             | 10.8       | [6.1,18.3]       | 89.2                               | [81.7,93.9]        | 100.0         |
| Detroit Metro (n=195)                               | 4.6        | [1.6,12.2]       | 95.4                               | [87.8,98.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 7.5932     |                  |                                    |                    |               |
| Design-based F(2.15, 1325.49) =                     | 1.6666     | Pr =             | 0.187                              |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                                    |                    |               |
| Yes (n=75)  | 14.6       | [5.9,32.0]       | 85.4                               | [68.0,94.1]        | 100.0         |
| No (n=554)  | 4.7        | [2.9,7.4]        | 95.3                               | [92.6,97.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 13.1820    |                  |                                    |                    |               |
| Design-based F(1.00, 617.00) =                      | 5.3240     | Pr =             | 0.021                              |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                                    |                    |               |
| Yes (n=30)  | 0.0        |                  | 100.0                              |                    | 100.0         |
| No (n=599)  | 6.4        | [4.1,9.8]        | 93.6                               | [90.2,95.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.9972     |                  |                                    |                    |               |
| Design-based F(1.00, 617.00) =                      | 1.2455     | Pr =             | 0.265                              |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                                    |                    |               |
| Chronic disease (HEDIS) (n=174)                     | 5.5        | [2.3,13.0]       | 94.5                               | [87.0,97.7]        | 100.0         |
| No chronic disease (n=455)                          | 6.3        | [3.8,10.3]       | 93.7                               | [89.7,96.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1114     |                  |                                    |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.0556     | Pr =             | 0.814                              |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                                    |                    |               |
| MH/SA (HEDIS) (n=361)                               | 6.1        | [3.6,10.0]       | 93.9                               | [90.0,96.4]        | 100.0         |
| No MH/SA (n=268)                                    | 6.1        | [2.8,12.6]       | 93.9                               | [87.4,97.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0000     |                  |                                    |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.0000     | Pr =             | 0.997                              |                    |               |
| <b>Total (n=629)</b>                                | <b>6.1</b> | <b>[3.9,9.4]</b> | <b>93.9</b>                        | <b>[90.6,96.1]</b> | <b>100.0</b>  |

### 3.27.7 Unmet need- Other

Universe: Respondents who did not receive needed medical or dental care

|   | Yes         |                    | Didn't get care: other response-record |                    | Total<br>Row% |
|---|-------------|--------------------|--|--------------------|---------------|
|   | Row%        | 95%CI              | No<br>Row%                             | 95%CI              |               |
| <b>FPL category</b>                                 |             |                    |  |                    |               |
| 0-35% (n=252)                                       | 30.9        | [24.5,38.2]        | 69.1                                   | [61.8,75.5]        | 100.0         |
| 36-99% (n=215)                                      | 24.9        | [18.8,32.2]        | 75.1                                   | [67.8,81.2]        | 100.0         |
| ≥ 100%(n = 163)                                     | 33.9        | [26.1,42.6]        | 66.1                                   | [57.4,73.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.1650      |                    |  |                    |               |
| Design-based F(1.94, 1199.87) =                     | 1.2844      | Pr =               | 0.277                                  |                    |               |
| <b>Region</b>                                       |             |                    |  |                    |               |
| UP/NW/NE (n=99)                                     | 36.5        | [26.3,48.0]        | 63.5                                   | [52.0,73.7]        | 100.0         |
| W/E Central/E (n=175)                               | 29.4        | [22.6,37.2]        | 70.6                                   | [62.8,77.4]        | 100.0         |
| S Central/SW/SE (n=161)                             | 36.1        | [27.7,45.5]        | 63.9                                   | [54.5,72.3]        | 100.0         |
| Detroit Metro (n=195)                               | 25.7        | [19.0,33.8]        | 74.3                                   | [66.2,81.0]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.8590      |                    |  |                    |               |
| Design-based F(2.67, 1649.51) =                     | 1.6299      | Pr =               | 0.186                                  |                    |               |
| <b>Low healthcare utilizers</b>                     |             |                    |  |                    |               |
| Yes (n=75)  | 31.6        | [20.5,45.3]        | 68.4                                   | [54.7,79.5]        | 100.0         |
| No (n=555)  | 29.5        | [25.0,34.4]        | 70.5                                   | [65.6,75.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1576      |                    |  |                    |               |
| Design-based F(1.00, 618.00) =                      | 0.0944      | Pr =               | 0.759                                  |                    |               |
| <b>High ER utilizers</b>                            |             |                    |  |                    |               |
| Yes (n=30)  | 21.2        | [9.3,41.2]         | 78.8                                   | [58.8,90.7]        | 100.0         |
| No (n=600)  | 30.2        | [25.9,34.9]        | 69.8                                   | [65.1,74.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0947      |                    |  |                    |               |
| Design-based F(1.00, 618.00) =                      | 0.9241      | Pr =               | 0.337                                  |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |  |                    |               |
| Chronic disease (HEDIS) (n=174)                     | 23.7        | [17.2,31.6]        | 76.3                                   | [68.4,82.8]        | 100.0         |
| No chronic disease (n=456)                          | 32.0        | [26.9,37.6]        | 68.0                                   | [62.4,73.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.0486      |                    |  |                    |               |
| Design-based F(1.00, 618.00) =                      | 3.0605      | Pr =               | 0.081                                  |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |  |                    |               |
| MH/SA (HEDIS) (n=361)                               | 29.0        | [23.9,34.8]        | 71.0                                   | [65.2,76.1]        | 100.0         |
| No MH/SA (n=269)                                    | 30.7        | [24.0,38.3]        | 69.3                                   | [61.7,76.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2081      |                    |  |                    |               |
| Design-based F(1.00, 618.00) =                      | 0.1324      | Pr =               | 0.716                                  |                    |               |
| <b>Total (n=630)</b>                                | <b>29.8</b> | <b>[25.6,34.4]</b> | <b>70.2</b>                            | <b>[65.6,74.4]</b> | <b>100.0</b>  |

### 3.27.8 Unmet need- No doctor

Universe: Respondents who did not receive needed medical or dental care

|   | Didn't get care: other—did not have doctor/could not find doctor |                  |             |                    | Total<br>Row% |
|---|--|------------------|-------------|--------------------|---------------|
|   | Yes  |                  | No          |                    |               |
|   | Row%   | 95%CI            | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |  |                  |             |                    |               |
| 0-35% (n=252)                                       | 4.5  | [2.3,8.9]        | 95.5        | [91.1,97.7]        | 100.0         |
| 36-99% (n=215)                                      | 5.3  | [2.8,9.6]        | 94.7        | [90.4,97.2]        | 100.0         |
| ≥ 100%(n = 162)                                     | 2.0  | [0.6,5.9]        | 98.0        | [94.1,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.0404   |                  |             |                    |               |
| Design-based F(1.88, 1157.61) =                     | 0.9310   | Pr =             | 0.389       |                    |               |
| <b>Region</b>                                       |  |                  |             |                    |               |
| UP/NW/NE (n=98)                                     | 7.3  | [3.3,15.4]       | 92.7        | [84.6,96.7]        | 100.0         |
| W/E Central/E (n=175)                               | 1.1  | [0.3,4.5]        | 98.9        | [95.5,99.7]        | 100.0         |
| S Central/SW/SE (n=161)                             | 9.2  | [4.4,18.2]       | 90.8        | [81.8,95.6]        | 100.0         |
| Detroit Metro (n=195)                               | 3.1  | [1.4,6.7]        | 96.9        | [93.3,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 14.4763  |                  |             |                    |               |
| Design-based F(2.66, 1642.20) =                     | 4.3887   | Pr =             | 0.006       |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                  |             |                    |               |
| Yes (n=75)  | 11.3   | [5.5,21.9]       | 88.7        | [78.1,94.5]        | 100.0         |
| No (n=554)  | 3.1  | [1.7,5.6]        | 96.9        | [94.4,98.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 12.7056  |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 8.3847   | Pr =             | 0.004       |                    |               |
| <b>High ER utilizers</b>                            |  |                  |             |                    |               |
| Yes (n=30)  | 0.0  |                  | 100.0       |                    | 100.0         |
| No (n=599)  | 4.5  | [2.8,7.0]        | 95.5        | [93.0,97.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3710   |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.9661   | Pr =             | 0.326       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                  |             |                    |               |
| Chronic disease (HEDIS) (n=174)                     | 1.5  | [0.4,6.0]        | 98.5        | [94.0,99.6]        | 100.0         |
| No chronic disease (n=455)                          | 5.2  | [3.2,8.4]        | 94.8        | [91.6,96.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.2603   |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 3.1789   | Pr =             | 0.075       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                  |             |                    |               |
| MH/SA (HEDIS) (n=361)                               | 3.3  | [1.8,6.0]        | 96.7        | [94.0,98.2]        | 100.0         |
| No MH/SA (n=268)                                    | 5.4  | [2.8,10.3]       | 94.6        | [89.7,97.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.7246   |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 1.1916   | Pr =             | 0.275       |                    |               |
| <b>Total (n=629)</b>                                | <b>4.3</b>   | <b>[2.7,6.7]</b> | <b>95.7</b> | <b>[93.3,97.3]</b> | <b>100.0</b>  |

### 3.27.9 Unmet need- Care wasn't sufficient or of poor quality

Universe: Respondents who did not receive needed medical or dental care

|   | Didn't get care: other—treatment didn't help, bad care |                  |             |                    | Total<br>Row% |
|---|--|------------------|-------------|--------------------|---------------|
|   | Yes  |                  | No          |                    |               |
|   | Row%   | 95%CI            | Row%        | 95%CI              |               |
| <b>FPL category</b>                                 |  |                  |             |                    |               |
| 0-35% (n=252)                                       | 4.0  | [2.1,7.4]        | 96.0        | [92.6,97.9]        | 100.0         |
| 36-99% (n=215)                                      | 3.5  | [1.7,6.8]        | 96.5        | [93.2,98.3]        | 100.0         |
| ≥ 100%(n = 162)                                     | 5.8  | [2.9,11.3]       | 94.2        | [88.7,97.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0327   |                  |             |                    |               |
| Design-based F(1.95, 1205.82) =                     | 0.5314   | Pr =             | 0.584       |                    |               |
| <b>Region</b>                                       |  |                  |             |                    |               |
| UP/NW/NE (n=98)                                     | 10.2   | [4.1,23.3]       | 89.8        | [76.7,95.9]        | 100.0         |
| W/E Central/E (n=175)                               | 3.9  | [2.0,7.4]        | 96.1        | [92.6,98.0]        | 100.0         |
| S Central/SW/SE (n=161)                             | 4.0  | [1.8,8.7]        | 96.0        | [91.3,98.2]        | 100.0         |
| Detroit Metro (n=195)                               | 3.5  | [1.7,7.4]        | 96.5        | [92.6,98.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.3355   |                  |             |                    |               |
| Design-based F(2.91, 1795.30) =                     | 1.3920   | Pr =             | 0.244       |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                  |             |                    |               |
| Yes (n=75)  | 4.0  | [1.2,12.8]       | 96.0        | [87.2,98.8]        | 100.0         |
| No (n=554)  | 4.3  | [2.8,6.4]        | 95.7        | [93.6,97.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0131   |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.0096   | Pr =             | 0.922       |                    |               |
| <b>High ER utilizers</b>                            |  |                  |             |                    |               |
| Yes (n=30)  | 0.0  |                  | 100.0       |                    | 100.0         |
| No (n=599)  | 4.4  | [3.0,6.5]        | 95.6        | [93.5,97.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3574   |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 1.0885   | Pr =             | 0.297       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                  |             |                    |               |
| Chronic disease (HEDIS) (n=174)                     | 6.0  | [3.1,11.4]       | 94.0        | [88.6,96.9]        | 100.0         |
| No chronic disease (n=455)                          | 3.6  | [2.1,5.8]        | 96.4        | [94.2,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.8792   |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 1.6436   | Pr =             | 0.200       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                  |             |                    |               |
| MH/SA (HEDIS) (n=361)                               | 3.7  | [2.2,6.1]        | 96.3        | [93.9,97.8]        | 100.0         |
| No MH/SA (n=268)                                    | 4.9  | [2.7,8.7]        | 95.1        | [91.3,97.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5562   |                  |             |                    |               |
| Design-based F(1.00, 617.00) =                      | 0.5034   | Pr =             | 0.478       |                    |               |
| <b>Total (n=629)</b>                                | <b>4.2</b>   | <b>[2.8,6.2]</b> | <b>95.8</b> | <b>[93.8,97.2]</b> | <b>100.0</b>  |

**3.27.10 Unmet need- Don't know**

*Universe:* Respondents who did not receive needed medical or dental care

| <b>Didn't get care: don't know</b> | No.            |
|------------------------------------|----------------|
| No                                 | 59630.0        |
| <b>Total</b>                       | <b>59630.0</b> |

### 3.27.11 Unmet need- Refused

*Universe:* Respondents who did not receive needed medical or dental care

| <b>Didn't get care: refused</b> | No.            |
|---------------------------------|----------------|
| No                              | 59630.0        |
| <b>Total</b>                    | <b>59630.0</b> |



### 3.28 Q: Was there any time in the last 12 months when you needed or wanted any of the following but could not afford it?

#### 3.28.1 Could not afford- Checkup, physical, or wellness visit

*Universe:* Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Yes         |                   | Could not afford: checkup<br>No |                    | Total<br>Row% |
|---|-------------|-------------------|---------------------------------|--------------------|---------------|
|   | Row%        | 95%CI             | Row%                            | 95%CI              |               |
| <b>FPL category</b>                                 |             |                   |                                 |                    |               |
| 0-35% (n=156)                                       | 15.6        | [9.8,24.0]        | 84.4                            | [76.0,90.2]        | 100.0         |
| 36-99% (n=142)                                      | 11.3        | [6.8,18.1]        | 88.7                            | [81.9,93.2]        | 100.0         |
| ≥ 100% (n = 95)                                     | 9.7         | [4.7,19.3]        | 90.3                            | [80.7,95.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.1303      |                   |                                 |                    |               |
| Design-based F(1.94, 738.61) =                      | 0.9250      | Pr =              | 0.394                           |                    |               |
| <b>Region</b>                                       |             |                   |                                 |                    |               |
| UP/NW/NE (n=55)                                     | 13.2        | [5.2,29.8]        | 86.8                            | [70.2,94.8]        | 100.0         |
| W/E Central/E (n=115)                               | 11.6        | [6.1,21.0]        | 88.4                            | [79.0,93.9]        | 100.0         |
| S Central/SW/SE (n=92)                              | 29.5        | [19.3,42.3]       | 70.5                            | [57.7,80.7]        | 100.0         |
| Detroit Metro (n=131)                               | 7.6         | [3.4,16.2]        | 92.4                            | [83.8,96.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 22.7803     |                   |                                 |                    |               |
| Design-based F(2.64, 1007.37) =                     | 5.2979      | Pr =              | 0.002                           |                    |               |
| <b>Low healthcare utilizers</b>                     |             |                   |                                 |                    |               |
| Yes (n=43)  | 33.9        | [18.7,53.2]       | 66.1                            | [46.8,81.3]        | 100.0         |
| No (n=350)  | 9.8         | [6.7,14.2]        | 90.2                            | [85.8,93.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 24.6291     |                   |                                 |                    |               |
| Design-based F(1.00, 381.00) =                      | 12.7485     | Pr =              | 0.000                           |                    |               |
| <b>High ER utilizers</b>                            |             |                   |                                 |                    |               |
| Yes (n=21)  | 23.5        | [9.4,47.6]        | 76.5                            | [52.4,90.6]        | 100.0         |
| No (n=372)  | 12.8        | [9.0,17.9]        | 87.2                            | [82.1,91.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.9348      |                   |                                 |                    |               |
| Design-based F(1.00, 381.00) =                      | 1.6050      | Pr =              | 0.206                           |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                   |                                 |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 7.9         | [3.7,16.0]        | 92.1                            | [84.0,96.3]        | 100.0         |
| No chronic disease (n=287)                          | 15.1        | [10.5,21.2]       | 84.9                            | [78.8,89.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.2610      |                   |                                 |                    |               |
| Design-based F(1.00, 381.00) =                      | 2.5869      | Pr =              | 0.109                           |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                   |                                 |                    |               |
| MH/SA (HEDIS) (n=227)                               | 11.4        | [7.4,17.2]        | 88.6                            | [82.8,92.6]        | 100.0         |
| No MH/SA (n=166)                                    | 15.8        | [9.6,24.9]        | 84.2                            | [75.1,90.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.5942      |                   |                                 |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.9651      | Pr =              | 0.327                           |                    |               |
| <b>Total (n=393)</b>                                | <b>13.3</b> | <b>[9.6,18.2]</b> | <b>86.7</b>                     | <b>[81.8,90.4]</b> | <b>100.0</b>  |

### 3.28.2 Could not afford- To see a specialist

*Universe:* Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Could not afford: specialist |                    |             |                    | Total<br>Row% |
|---|------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                  | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                              |                    |             |                    |               |
| 0-35% (n=156)                                       | 26.6                         | [18.8,36.1]        | 73.4        | [63.9,81.2]        | 100.0         |
| 36-99% (n=142)                                      | 12.2                         | [6.5,21.8]         | 87.8        | [78.2,93.5]        | 100.0         |
| ≥ 100%(n = 95)                                      | 23.0                         | [15.3,33.0]        | 77.0        | [67.0,84.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.1811                       |                    |             |                    |               |
| Design-based F(1.86, 709.18) =                      | 3.4349                       | Pr =               | 0.036       |                    |               |
| <b>Region</b>                                       |                              |                    |             |                    |               |
| UP/NW/NE (n=55)                                     | 28.8                         | [17.2,44.0]        | 71.2        | [56.0,82.8]        | 100.0         |
| W/E Central/E (n=115)                               | 11.4                         | [6.4,19.6]         | 88.6        | [80.4,93.6]        | 100.0         |
| S Central/SW/SE (n=92)                              | 34.5                         | [24.0,46.8]        | 65.5        | [53.2,76.0]        | 100.0         |
| Detroit Metro (n=131)                               | 21.5                         | [13.5,32.4]        | 78.5        | [67.6,86.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 14.9653                      |                    |             |                    |               |
| Design-based F(2.59, 986.18) =                      | 4.0908                       | Pr =               | 0.010       |                    |               |
| <b>Low healthcare utilizers</b>                     |                              |                    |             |                    |               |
| Yes (n=43)  | 13.2                         | [5.7,27.6]         | 86.8        | [72.4,94.3]        | 100.0         |
| No (n=350)  | 23.1                         | [17.7,29.6]        | 76.9        | [70.4,82.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.8561                       |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 1.9432                       | Pr =               | 0.164       |                    |               |
| <b>High ER utilizers</b>                            |                              |                    |             |                    |               |
| Yes (n=21)  | 34.1                         | [13.8,62.7]        | 65.9        | [37.3,86.2]        | 100.0         |
| No (n=372)  | 21.0                         | [16.0,27.0]        | 79.0        | [73.0,84.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.9898                       |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 1.1907                       | Pr =               | 0.276       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                              |                    |             |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 25.3                         | [15.8,37.9]        | 74.7        | [62.1,84.2]        | 100.0         |
| No chronic disease (n=287)                          | 20.5                         | [15.0,27.3]        | 79.5        | [72.7,85.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.9967                       |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.5896                       | Pr =               | 0.443       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                              |                    |             |                    |               |
| MH/SA (HEDIS) (n=227)                               | 23.1                         | [16.8,30.8]        | 76.9        | [69.2,83.2]        | 100.0         |
| No MH/SA (n=166)                                    | 19.9                         | [12.8,29.7]        | 80.1        | [70.3,87.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5701                       |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.3107                       | Pr =               | 0.578       |                    |               |
| <b>Total (n=393)</b>                                | <b>21.7</b>                  | <b>[16.8,27.5]</b> | <b>78.3</b> | <b>[72.5,83.2]</b> | <b>100.0</b>  |

### 3.28.3 Could not afford- Mental health care or counseling

*Universe:* Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Could not afford: mental health care |                   |             |                    | Total<br>Row% |
|---|--------------------------------------|-------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                          | 95%CI             | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                      |                   |             |                    |               |
| 0-35% (n=156)                                       | 11.3                                 | [6.5,18.9]        | 88.7        | [81.1,93.5]        | 100.0         |
| 36-99% (n=142)                                      | 7.1                                  | [3.3,14.7]        | 92.9        | [85.3,96.7]        | 100.0         |
| ≥ 100%(n = 95)                                      | 4.3                                  | [1.5,12.1]        | 95.7        | [87.9,98.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.6790                               |                   |             |                    |               |
| Design-based F(1.90, 724.67) =                      | 1.5100                               | Pr =              | 0.222       |                    |               |
| <b>Region</b>                                       |                                      |                   |             |                    |               |
| UP/NW/NE (n=55)                                     | 5.5                                  | [1.7,16.2]        | 94.5        | [83.8,98.3]        | 100.0         |
| W/E Central/E (n=115)                               | 9.1                                  | [4.8,16.8]        | 90.9        | [83.2,95.2]        | 100.0         |
| S Central/SW/SE (n=92)                              | 14.9                                 | [7.8,26.5]        | 85.1        | [73.5,92.2]        | 100.0         |
| Detroit Metro (n=131)                               | 6.7                                  | [2.7,15.5]        | 93.3        | [84.5,97.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.9079                               |                   |             |                    |               |
| Design-based F(2.38, 907.86) =                      | 1.2757                               | Pr =              | 0.281       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                      |                   |             |                    |               |
| Yes (n=43)  | 10.6                                 | [3.1,30.8]        | 89.4        | [69.2,96.9]        | 100.0         |
| No (n=350)  | 8.6                                  | [5.5,13.1]        | 91.4        | [86.9,94.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2385                               |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.1031                               | Pr =              | 0.748       |                    |               |
| <b>High ER utilizers</b>                            |                                      |                   |             |                    |               |
| Yes (n=21)  | 12.3                                 | [2.9,40.0]        | 87.7        | [60.0,97.1]        | 100.0         |
| No (n=372)  | 8.7                                  | [5.6,13.3]        | 91.3        | [86.7,94.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3119                               |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.2199                               | Pr =              | 0.639       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                      |                   |             |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 9.4                                  | [4.4,19.1]        | 90.6        | [80.9,95.6]        | 100.0         |
| No chronic disease (n=287)                          | 8.7                                  | [5.2,14.1]        | 91.3        | [85.9,94.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0491                               |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.0317                               | Pr =              | 0.859       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                      |                   |             |                    |               |
| MH/SA (HEDIS) (n=227)                               | 11.6                                 | [7.2,18.0]        | 88.4        | [82.0,92.8]        | 100.0         |
| No MH/SA (n=166)                                    | 5.4                                  | [2.2,12.8]        | 94.6        | [87.2,97.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.5138                               |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 2.3627                               | Pr =              | 0.125       |                    |               |
| <b>Total (n=393)</b>                                | <b>8.9</b>                           | <b>[5.8,13.3]</b> | <b>91.1</b> | <b>[86.7,94.2]</b> | <b>100.0</b>  |

### 3.28.4 Could not afford- Substance use treatment services

Universe: Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Could not afford: substance use treatment |                  |             |                    | Total<br>Row% |
|---|---|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                               | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |   |                  |             |                    |               |
| 0-35% (n=156)                                       | 0.0                                       |                  | 100.0       |                    | 100.0         |
| 36-99% (n=142)                                      | 1.2                                       | [0.2,8.0]        | 98.8        | [92.0,99.8]        | 100.0         |
| ≥ 100%(n = 95)                                      | 1.8                                       | [0.2,11.7]       | 98.2        | [88.3,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.1749                                    |                  |             |                    |               |
| Design-based F(1.99, 757.57) =                      | 1.2305                                    | Pr =             | 0.293       |                    |               |
| <b>Region</b>                                       |   |                  |             |                    |               |
| UP/NW/NE (n=55)                                     | 0.0                                       |                  | 100.0       |                    | 100.0         |
| W/E Central/E (n=115)                               | 1.1                                       | [0.2,7.4]        | 98.9        | [92.6,99.8]        | 100.0         |
| S Central/SW/SE (n=92)                              | 1.8                                       | [0.3,11.9]       | 98.2        | [88.1,99.7]        | 100.0         |
| Detroit Metro (n=131)                               | 0.0                                       |                  | 100.0       |                    | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.2774                                    |                  |             |                    |               |
| Design-based F(2.21, 842.09) =                      | 1.2035                                    | Pr =             | 0.303       |                    |               |
| <b>Low healthcare utilizers</b>                     |   |                  |             |                    |               |
| Yes (n=43)  | 2.4                                       | [0.3,15.5]       | 97.6        | [84.5,99.7]        | 100.0         |
| No (n=350)  | 0.4                                       | [0.0,2.5]        | 99.6        | [97.5,100.0]       | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.2247                                    |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 2.4927                                    | Pr =             | 0.115       |                    |               |
| <b>High ER utilizers</b>                            |   |                  |             |                    |               |
| Yes (n=21)  | 0.0                                       |                  | 100.0       |                    | 100.0         |
| No (n=372)  | 0.7                                       | [0.2,2.8]        | 99.3        | [97.2,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1437                                    |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.1095                                    | Pr =             | 0.741       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                  |             |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 0.0                                       |                  | 100.0       |                    | 100.0         |
| No chronic disease (n=287)                          | 0.9                                       | [0.2,3.5]        | 99.1        | [96.5,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.8561                                    |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.6600                                    | Pr =             | 0.417       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                  |             |                    |               |
| MH/SA (HEDIS) (n=227)                               | 0.5                                       | [0.1,3.7]        | 99.5        | [96.3,99.9]        | 100.0         |
| No MH/SA (n=166)                                    | 0.8                                       | [0.1,5.6]        | 99.2        | [94.4,99.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1120                                    |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.0874                                    | Pr =             | 0.768       |                    |               |
| <b>Total (n=393)</b>                                | <b>0.7</b>                                | <b>[0.2,2.6]</b> | <b>99.3</b> | <b>[97.4,99.8]</b> | <b>100.0</b>  |

### 3.28.5 Could not afford- Prescription medication

Universe: Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Could not afford: prescription meds |                    |             |                    | Total<br>Row% |
|---|-------------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                         | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                     |                    |             |                    |               |
| 0-35% (n=156)                                       | 25.0                                | [17.6,34.3]        | 75.0        | [65.7,82.4]        | 100.0         |
| 36-99% (n=142)                                      | 15.0                                | [9.7,22.5]         | 85.0        | [77.5,90.3]        | 100.0         |
| ≥ 100%(n = 95)                                      | 12.5                                | [6.7,22.3]         | 87.5        | [77.7,93.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.4910                              |                    |             |                    |               |
| Design-based F(1.94, 737.26) =                      | 3.3140                              | Pr =               | 0.038       |                    |               |
| <b>Region</b>                                       |                                     |                    |             |                    |               |
| UP/NW/NE (n=55)                                     | 19.5                                | [10.7,32.7]        | 80.5        | [67.3,89.3]        | 100.0         |
| W/E Central/E (n=115)                               | 17.4                                | [10.8,26.8]        | 82.6        | [73.2,89.2]        | 100.0         |
| S Central/SW/SE (n=92)                              | 29.5                                | [19.4,42.0]        | 70.5        | [58.0,80.6]        | 100.0         |
| Detroit Metro (n=131)                               | 17.5                                | [10.6,27.4]        | 82.5        | [72.6,89.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.4781                              |                    |             |                    |               |
| Design-based F(2.54, 967.33) =                      | 1.5194                              | Pr =               | 0.214       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                     |                    |             |                    |               |
| Yes (n=43)  | 25.3                                | [12.3,45.0]        | 74.7        | [55.0,87.7]        | 100.0         |
| No (n=350)  | 19.0                                | [14.3,24.7]        | 81.0        | [75.3,85.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.2371                              |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.5916                              | Pr =               | 0.442       |                    |               |
| <b>High ER utilizers</b>                            |                                     |                    |             |                    |               |
| Yes (n=21)  | 32.8                                | [12.7,62.0]        | 67.2        | [38.0,87.3]        | 100.0         |
| No (n=372)  | 19.2                                | [14.6,24.8]        | 80.8        | [75.2,85.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.2428                              |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 1.3029                              | Pr =               | 0.254       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                    |             |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 30.4                                | [20.5,42.6]        | 69.6        | [57.4,79.5]        | 100.0         |
| No chronic disease (n=287)                          | 16.5                                | [11.7,22.7]        | 83.5        | [77.3,88.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 8.9902                              |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 5.6904                              | Pr =               | 0.018       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                    |             |                    |               |
| MH/SA (HEDIS) (n=227)                               | 25.0                                | [18.4,33.0]        | 75.0        | [67.0,81.6]        | 100.0         |
| No MH/SA (n=166)                                    | 13.4                                | [8.3,20.9]         | 86.6        | [79.1,91.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 8.1286                              |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 5.2927                              | Pr =               | 0.022       |                    |               |
| <b>Total (n=393)</b>                                | <b>19.9</b>                         | <b>[15.3,25.5]</b> | <b>80.1</b> | <b>[74.5,84.7]</b> | <b>100.0</b>  |

### 3.28.6 Could not afford- Dental care

Universe: Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Could not afford: dental care |                    |             |                    | Total<br>Row% |
|---|-------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                   | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                               |                    |             |                    |               |
| 0-35% (n=156)                                       | 59.9                          | [50.6,68.5]        | 40.1        | [31.5,49.4]        | 100.0         |
| 36-99% (n=142)                                      | 64.1                          | [53.2,73.7]        | 35.9        | [26.3,46.8]        | 100.0         |
| ≥ 100%(n = 95)                                      | 72.0                          | [60.8,81.0]        | 28.0        | [19.0,39.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2693                        |                    |             |                    |               |
| Design-based F(1.90, 724.78) =                      | 1.2641                        | Pr =               | 0.282       |                    |               |
| <b>Region</b>                                       |                               |                    |             |                    |               |
| UP/NW/NE (n=55)                                     | 57.2                          | [42.3,70.9]        | 42.8        | [29.1,57.7]        | 100.0         |
| W/E Central/E (n=115)                               | 61.1                          | [50.8,70.6]        | 38.9        | [29.4,49.2]        | 100.0         |
| S Central/SW/SE (n=92)                              | 50.6                          | [38.9,62.2]        | 49.4        | [37.8,61.1]        | 100.0         |
| Detroit Metro (n=131)                               | 70.5                          | [59.6,79.5]        | 29.5        | [20.5,40.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 10.0260                       |                    |             |                    |               |
| Design-based F(2.58, 982.33) =                      | 2.8011                        | Pr =               | 0.047       |                    |               |
| <b>Low healthcare utilizers</b>                     |                               |                    |             |                    |               |
| Yes (n=43)  | 67.9                          | [49.1,82.3]        | 32.1        | [17.7,50.9]        | 100.0         |
| No (n=350)  | 62.4                          | [55.9,68.5]        | 37.6        | [31.5,44.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.6463                        |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.3366                        | Pr =               | 0.562       |                    |               |
| <b>High ER utilizers</b>                            |                               |                    |             |                    |               |
| Yes (n=21)  | 39.5                          | [19.0,64.5]        | 60.5        | [35.5,81.0]        | 100.0         |
| No (n=372)  | 64.5                          | [58.2,70.3]        | 35.5        | [29.7,41.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.2501                        |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 3.9553                        | Pr =               | 0.047       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |                    |             |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 49.7                          | [38.4,60.9]        | 50.3        | [39.1,61.6]        | 100.0         |
| No chronic disease (n=287)                          | 67.7                          | [60.6,74.0]        | 32.3        | [26.0,39.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 10.1986                       |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 7.2911                        | Pr =               | 0.007       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |                    |             |                    |               |
| MH/SA (HEDIS) (n=227)                               | 57.0                          | [48.9,64.8]        | 43.0        | [35.2,51.1]        | 100.0         |
| No MH/SA (n=166)                                    | 71.1                          | [61.9,78.9]        | 28.9        | [21.1,38.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 8.2845                        |                    |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 5.3218                        | Pr =               | 0.022       |                    |               |
| <b>Total (n=393)</b>                                | <b>63.2</b>                   | <b>[57.0,69.0]</b> | <b>36.8</b> | <b>[31.0,43.0]</b> | <b>100.0</b>  |

### 3.28.7 Could not afford- Other

Universe: Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Could not afford: other response-record |                   |             |                    | Total<br>Row% |
|---|---|-------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                             | 95%CI             | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |   |                   |             |                    |               |
| 0-35% (n=156)                                       | 13.2                                    | [8.3,20.3]        | 86.8        | [79.7,91.7]        | 100.0         |
| 36-99% (n=142)                                      | 16.0                                    | [8.9,27.1]        | 84.0        | [72.9,91.1]        | 100.0         |
| ≥ 100%(n = 95)                                      | 6.9                                     | [2.8,16.1]        | 93.1        | [83.9,97.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.1193                                  |                   |             |                    |               |
| Design-based F(1.89, 719.22) =                      | 1.1055                                  | Pr =              | 0.329       |                    |               |
| <b>Region</b>                                       |   |                   |             |                    |               |
| UP/NW/NE (n=55)                                     | 15.2                                    | [7.9,27.1]        | 84.8        | [72.9,92.1]        | 100.0         |
| W/E Central/E (n=115)                               | 11.9                                    | [6.8,19.9]        | 88.1        | [80.1,93.2]        | 100.0         |
| S Central/SW/SE (n=92)                              | 18.2                                    | [10.5,29.7]       | 81.8        | [70.3,89.5]        | 100.0         |
| Detroit Metro (n=131)                               | 11.1                                    | [5.7,20.7]        | 88.9        | [79.3,94.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.6267                                  |                   |             |                    |               |
| Design-based F(2.43, 924.88) =                      | 0.7268                                  | Pr =              | 0.509       |                    |               |
| <b>Low healthcare utilizers</b>                     |   |                   |             |                    |               |
| Yes (n=43)  | 9.3                                     | [3.2,24.1]        | 90.7        | [75.9,96.8]        | 100.0         |
| No (n=350)  | 13.6                                    | [9.5,19.0]        | 86.4        | [81.0,90.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.8139                                  |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.5062                                  | Pr =              | 0.477       |                    |               |
| <b>High ER utilizers</b>                            |   |                   |             |                    |               |
| Yes (n=21)  | 16.9                                    | [4.3,47.7]        | 83.1        | [52.3,95.7]        | 100.0         |
| No (n=372)  | 12.7                                    | [9.0,17.8]        | 87.3        | [82.2,91.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2933                                  |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.1748                                  | Pr =              | 0.676       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                   |             |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 17.1                                    | [10.2,27.2]       | 82.9        | [72.8,89.8]        | 100.0         |
| No chronic disease (n=287)                          | 11.6                                    | [7.5,17.5]        | 88.4        | [82.5,92.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.9521                                  |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 1.3492                                  | Pr =              | 0.246       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                   |             |                    |               |
| MH/SA (HEDIS) (n=227)                               | 14.8                                    | [9.9,21.7]        | 85.2        | [78.3,90.1]        | 100.0         |
| No MH/SA (n=166)                                    | 10.5                                    | [5.8,18.3]        | 89.5        | [81.7,94.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.5876                                  |                   |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.9663                                  | Pr =              | 0.326       |                    |               |
| <b>Total (n=393)</b>                                | <b>13.0</b>                             | <b>[9.2,17.9]</b> | <b>87.0</b> | <b>[82.1,90.8]</b> | <b>100.0</b>  |

### 3.28.8 Could not afford- None

*Universe:* Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

|   | Could not afford: None |                  |             |                    | Total<br>Row% |
|---|------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%            | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                        |                  |             |                    |               |
| 0-35% (n=156)                                       | 4.2                    | [2.1,8.3]        | 95.8        | [91.7,97.9]        | 100.0         |
| 36-99% (n=142)                                      | 8.8                    | [5.0,15.1]       | 91.2        | [84.9,95.0]        | 100.0         |
| ≥ 100% (n = 95)                                     | 4.4                    | [1.8,10.7]       | 95.6        | [89.3,98.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.1928                 |                  |             |                    |               |
| Design-based F(1.93, 734.10) =                      | 1.8485                 | Pr =             | 0.160       |                    |               |
| <b>Region</b>                                       |                        |                  |             |                    |               |
| UP/NW/NE (n=55)                                     | 9.8                    | [3.8,23.2]       | 90.2        | [76.8,96.2]        | 100.0         |
| W/E Central/E (n=115)                               | 7.8                    | [3.9,14.9]       | 92.2        | [85.1,96.1]        | 100.0         |
| S Central/SW/SE (n=92)                              | 5.1                    | [1.9,12.8]       | 94.9        | [87.2,98.1]        | 100.0         |
| Detroit Metro (n=131)                               | 4.0                    | [2.0,7.9]        | 96.0        | [92.1,98.0]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.7545                 |                  |             |                    |               |
| Design-based F(2.89, 1101.89) =                     | 1.0584                 | Pr =             | 0.364       |                    |               |
| <b>Low healthcare utilizers</b>                     |                        |                  |             |                    |               |
| Yes (n=43)  | 5.1                    | [1.6,15.0]       | 94.9        | [85.0,98.4]        | 100.0         |
| No (n=350)  | 5.7                    | [3.7,8.7]        | 94.3        | [91.3,96.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0374                 |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.0366                 | Pr =             | 0.848       |                    |               |
| <b>High ER utilizers</b>                            |                        |                  |             |                    |               |
| Yes (n=21)  | 9.6                    | [2.3,32.3]       | 90.4        | [67.7,97.7]        | 100.0         |
| No (n=372)  | 5.4                    | [3.6,8.2]        | 94.6        | [91.8,96.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.6337                 |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.6020                 | Pr =             | 0.438       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                        |                  |             |                    |               |
| Chronic disease (HEDIS) (n=106)                     | 5.8                    | [2.7,12.0]       | 94.2        | [88.0,97.3]        | 100.0         |
| No chronic disease (n=287)                          | 5.6                    | [3.5,8.9]        | 94.4        | [91.1,96.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0069                 |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.0075                 | Pr =             | 0.931       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                        |                  |             |                    |               |
| MH/SA (HEDIS) (n=227)                               | 6.1                    | [3.7,10.1]       | 93.9        | [89.9,96.3]        | 100.0         |
| No MH/SA (n=166)                                    | 5.0                    | [2.6,9.5]        | 95.0        | [90.5,97.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2331                 |                  |             |                    |               |
| Design-based F(1.00, 381.00) =                      | 0.2332                 | Pr =             | 0.629       |                    |               |
| <b>Total (n=393)</b>                                | <b>5.6</b>             | <b>[3.8,8.3]</b> | <b>94.4</b> | <b>[91.7,96.2]</b> | <b>100.0</b>  |



**3.28.9 Could not afford- Don't know**

*Universe:* Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

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| <b>Could not afford: don't know</b> | No.            |
|-------------------------------------|----------------|
| Yes                                 | 93.6           |
| No                                  | 38060.1        |
| <b>Total</b>                        | <b>38153.7</b> |

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### 3.28.10 Could not afford- Refused

*Universe:* Respondents who did not receive needed care due to: plan not paying, being worried about the cost, insurance not accepted, or having no insurance

| <b>Could not afford: refused</b> | No.            |
|----------------------------------|----------------|
| Yes                              | 44.9           |
| No                               | 38108.7        |
| <b>Total</b>                     | <b>38153.7</b> |

### 3.29 Q: In the last 12 months, when you felt sick or wanted advice about your health, how easy or difficult was it to get an appointment to see your primary care provider?

Universe: Respondents who have seen their PCP in the last 12 months

|   | PCP appointment ease |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
|---|----------------------|--------------------|-------------|--------------------|------------|-------------------|------------|------------------|----------------|------------------|------------|------------------|--------------|
|   | Very easy            |                    | Easy        |                    | Neutral    |                   | Difficult  |                  | Very Difficult |                  | Don't know |                  | Total        |
|   | Row%                 | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI             | Row%       | 95%CI            | Row%           | 95%CI            | Row%       | 95%CI            | Row%         |
| <b>FPL category</b>                                 |                      |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| 0-35% (n=1,322)                                     | 42.3                 | [39.0,45.7]        | 40.1        | [36.8,43.5]        | 10.4       | [8.4,12.9]        | 4.2        | [3.1,5.6]        | 2.8            | [1.8,4.2]        | 0.2        | [0.0,0.7]        | 100.0        |
| 36-99% (n=1,209)                                    | 42.1                 | [38.8,45.5]        | 44.1        | [40.7,47.5]        | 7.8        | [6.2,9.7]         | 4.1        | [3.1,5.4]        | 2.0            | [1.2,3.2]        | 0.0        |                  | 100.0        |
| ≥ 100% (n = 855)                                    | 40.5                 | [36.7,44.4]        | 43.9        | [40.1,47.9]        | 6.5        | [4.9,8.4]         | 7.6        | [5.6,10.2]       | 1.5            | [0.9,2.6]        | 0.0        |                  | 100.0        |
| Pearson: Uncorrected chi2(10) =                     | 33.2727              |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Design-based F(8.91, 30046.43) =                    | 2.7810               |                    | Pr =        | 0.003              |            |                   |            |                  |                |                  |            |                  |              |
| <b>Region</b>                                       |                      |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| UP/NW/NE (n=638)                                    | 45.4                 | [41.1,49.8]        | 41.3        | [37.0,45.7]        | 8.1        | [5.9,11.1]        | 4.2        | [2.7,6.4]        | 1.0            | [0.5,2.0]        | 0.0        |                  | 100.0        |
| W/E Central/E (n=1,074)                             | 42.9                 | [39.5,46.3]        | 42.6        | [39.2,46.0]        | 7.3        | [5.6,9.4]         | 4.7        | [3.5,6.3]        | 2.5            | [1.6,3.8]        | 0.1        | [0.0,0.9]        | 100.0        |
| S Central/SW/SE (n=666)                             | 38.5                 | [34.1,43.1]        | 41.3        | [36.9,45.9]        | 10.4       | [8.0,13.5]        | 6.4        | [4.6,8.9]        | 3.1            | [1.9,5.1]        | 0.3        | [0.0,2.0]        | 100.0        |
| Detroit Metro (n=1,008)                             | 41.9                 | [38.1,45.7]        | 42.0        | [38.3,45.9]        | 9.5        | [7.4,12.2]        | 4.4        | [3.2,6.1]        | 2.1            | [1.2,3.8]        | 0.0        |                  | 100.0        |
| Pearson: Uncorrected chi2(15) =                     | 21.1621              |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Design-based F(12.61, 42552.75) =                   | 1.1491               |                    | Pr =        | 0.313              |            |                   |            |                  |                |                  |            |                  |              |
| <b>Low healthcare utilizers</b>                     |                      |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Yes (n=168)   | 40.8                 | [31.1,51.2]        | 46.1        | [36.5,55.9]        | 4.5        | [2.1,9.5]         | 6.3        | [3.2,12.2]       | 1.7            | [0.5,5.5]        | 0.6        | [0.1,3.9]        | 100.0        |
| No (n=3,218)  | 42.0                 | [39.9,44.2]        | 41.7        | [39.6,43.9]        | 9.2        | [7.9,10.7]        | 4.7        | [3.9,5.7]        | 2.3            | [1.7,3.2]        | 0.1        | [0.0,0.4]        | 100.0        |
| Pearson: Uncorrected chi2(5) =                      | 13.7469              |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Design-based F(4.78, 16120.59) =                    | 1.5958               |                    | Pr =        | 0.161              |            |                   |            |                  |                |                  |            |                  |              |
| <b>High ER utilizers</b>                            |                      |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Yes (n=130)   | 34.8                 | [25.4,45.5]        | 39.0        | [28.9,50.2]        | 13.8       | [6.6,26.8]        | 6.9        | [3.1,14.9]       | 5.5            | [2.5,11.6]       | 0.0        |                  | 100.0        |
| No (n=3,256)  | 42.2                 | [40.1,44.4]        | 42.1        | [40.0,44.3]        | 8.7        | [7.5,10.0]        | 4.7        | [3.9,5.7]        | 2.1            | [1.6,2.9]        | 0.1        | [0.0,0.4]        | 100.0        |
| Pearson: Uncorrected chi2(5) =                      | 15.2410              |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Design-based F(4.54, 15324.67) =                    | 1.5779               |                    | Pr =        | 0.169              |            |                   |            |                  |                |                  |            |                  |              |
| <b>Chronic disease (HEDIS)</b>                      |                      |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Chronic disease (HEDIS) (n=1,095)                   | 42.6                 | [39.0,46.2]        | 41.6        | [38.0,45.3]        | 8.0        | [6.1,10.3]        | 5.6        | [4.2,7.5]        | 2.2            | [1.4,3.4]        | 0.0        |                  | 100.0        |
| No chronic disease (n=2,291)                        | 41.6                 | [39.1,44.3]        | 42.1        | [39.6,44.7]        | 9.3        | [7.8,11.0]        | 4.5        | [3.6,5.6]        | 2.3            | [1.6,3.4]        | 0.1        | [0.0,0.5]        | 100.0        |
| Pearson: Uncorrected chi2(5) =                      | 4.7247               |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Design-based F(4.98, 16816.51) =                    | 0.6375               |                    | Pr =        | 0.671              |            |                   |            |                  |                |                  |            |                  |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                      |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| MH/SA (HEDIS) (n=1,820)                             | 41.9                 | [39.1,44.8]        | 39.4        | [36.7,42.2]        | 9.6        | [7.9,11.6]        | 6.2        | [5.0,7.6]        | 2.9            | [2.0,4.2]        | 0.0        |                  | 100.0        |
| No MH/SA (n=1,566)                                  | 41.9                 | [38.8,45.1]        | 44.9        | [41.7,48.1]        | 8.1        | [6.5,10.1]        | 3.3        | [2.4,4.5]        | 1.6            | [1.0,2.6]        | 0.2        | [0.0,0.8]        | 100.0        |
| Pearson: Uncorrected chi2(5) =                      | 31.8504              |                    |             |                    |            |                   |            |                  |                |                  |            |                  |              |
| Design-based F(4.96, 16736.46) =                    | 3.9778               |                    | Pr =        | 0.001              |            |                   |            |                  |                |                  |            |                  |              |
| <b>Total (n=3,386)</b>                              | <b>41.9</b>          | <b>[39.8,44.0]</b> | <b>42.0</b> | <b>[39.9,44.1]</b> | <b>8.9</b> | <b>[7.7,10.3]</b> | <b>4.8</b> | <b>[4.0,5.8]</b> | <b>2.3</b>     | <b>[1.7,3.1]</b> | <b>0.1</b> | <b>[0.0,0.4]</b> | <b>100.0</b> |

### 3.30 Q: What made it difficult?

#### 3.30.1 PCP Appointment difficult- Could not get through on the telephone

Universe: Respondents who found it difficult or very difficult to see their PCP in the last 12 months

|   | Difficult appt: phone |                   |             |                    | Total Row%   |
|---|-----------------------|-------------------|-------------|--------------------|--------------|
|   | Yes Row%              | 95%CI             | No Row%     | 95%CI              |              |
| <b>FPL category</b>                                 |                       |                   |             |                    |              |
| 0-35% (n=89)  | 5.8                   | [2.0,15.6]        | 94.2        | [84.4,98.0]        | 100.0        |
| 36-99% (n=77)                                       | 9.6                   | [4.5,19.0]        | 90.4        | [81.0,95.5]        | 100.0        |
| ≥ 100% (n = 69)                                     | 9.8                   | [4.5,20.1]        | 90.2        | [79.9,95.5]        | 100.0        |
| Pearson: Uncorrected chi2(2) =                      | 1.2247                |                   |             |                    |              |
| Design-based F(1.85, 413.64) =                      | 0.4997                | Pr =              | 0.593       |                    |              |
| <b>Region</b>                                       |                       |                   |             |                    |              |
| UP/NW/NE (n=34)                                     | 6.5                   | [1.9,19.9]        | 93.5        | [80.1,98.1]        | 100.0        |
| W/E Central/E (n=74)                                | 10.8                  | [5.5,20.2]        | 89.2        | [79.8,94.5]        | 100.0        |
| S Central/SW/SE (n=65)                              | 9.8                   | [4.3,20.7]        | 90.2        | [79.3,95.7]        | 100.0        |
| Detroit Metro (n=62)                                | 4.5                   | [0.9,19.0]        | 95.5        | [81.0,99.1]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 2.6445                |                   |             |                    |              |
| Design-based F(2.17, 485.02) =                      | 0.7238                | Pr =              | 0.496       |                    |              |
| <b>Low healthcare utilizers</b>                     |                       |                   |             |                    |              |
| Yes (n=15)  | 0.0                   |                   | 100.0       |                    | 100.0        |
| No (n=220)  | 8.4                   | [5.0,13.7]        | 91.6        | [86.3,95.0]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 1.5901                |                   |             |                    |              |
| Design-based F(1.00, 223.00) =                      | 1.1100                | Pr =              | 0.293       |                    |              |
| <b>High ER utilizers</b>                            |                       |                   |             |                    |              |
| Yes (n=17)  | 10.2                  | [2.9,30.4]        | 89.8        | [69.6,97.1]        | 100.0        |
| No (n=218)  | 7.5                   | [4.3,12.9]        | 92.5        | [87.1,95.7]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 0.1752                |                   |             |                    |              |
| Design-based F(1.00, 223.00) =                      | 0.2029                | Pr =              | 0.653       |                    |              |
| <b>Chronic disease (HEDIS)</b>                      |                       |                   |             |                    |              |
| Chronic disease (HEDIS) (n=86)                      | 4.8                   | [1.9,11.3]        | 95.2        | [88.7,98.1]        | 100.0        |
| No chronic disease (n=149)                          | 9.2                   | [5.0,16.2]        | 90.8        | [83.8,95.0]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 1.3935                |                   |             |                    |              |
| Design-based F(1.00, 223.00) =                      | 1.5326                | Pr =              | 0.217       |                    |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                       |                   |             |                    |              |
| MH/SA (HEDIS) (n=154)                               | 9.2                   | [5.1,16.2]        | 90.8        | [83.8,94.9]        | 100.0        |
| No MH/SA (n=81)                                     | 4.7                   | [1.7,12.0]        | 95.3        | [88.0,98.3]        | 100.0        |
| Pearson: Uncorrected chi2(1) =                      | 1.5143                |                   |             |                    |              |
| Design-based F(1.00, 223.00) =                      | 1.4504                | Pr =              | 0.230       |                    |              |
| <b>Total (n=235)</b>                                | <b>7.7</b>            | <b>[4.6,12.7]</b> | <b>92.3</b> | <b>[87.3,95.4]</b> | <b>100.0</b> |

### 3.30.2 PCP Appointment difficult- Could not get an appointment soon enough

Universe: Respondents who found it difficult or very difficult to see their PCP in the last 12 months

|   | Difficult appt: none soon |                    |             |                    | Total<br>Row% |
|---|---------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%               | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                           |                    |             |                    |               |
| 0-35% (n=89)  | 84.8                      | [74.0,91.6]        | 15.2        | [8.4,26.0]         | 100.0         |
| 36-99% (n=77)                                       | 81.5                      | [69.5,89.4]        | 18.5        | [10.6,30.5]        | 100.0         |
| ≥ 100%(n = 69)                                      | 85.1                      | [73.7,92.1]        | 14.9        | [7.9,26.3]         | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.3815                    |                    |             |                    |               |
| Design-based F(1.94, 432.77) =                      | 0.1626                    | Pr =               | 0.844       |                    |               |
| <b>Region</b>                                       |                           |                    |             |                    |               |
| UP/NW/NE (n=34)                                     | 80.0                      | [62.8,90.5]        | 20.0        | [9.5,37.2]         | 100.0         |
| W/E Central/E (n=74)                                | 77.6                      | [64.4,86.9]        | 22.4        | [13.1,35.6]        | 100.0         |
| S Central/SW/SE (n=65)                              | 87.7                      | [75.8,94.1]        | 12.3        | [5.9,24.2]         | 100.0         |
| Detroit Metro (n=62)                                | 87.4                      | [75.3,94.0]        | 12.6        | [6.0,24.7]         | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.6648                    |                    |             |                    |               |
| Design-based F(2.62, 583.36) =                      | 1.1157                    | Pr =               | 0.338       |                    |               |
| <b>Low healthcare utilizers</b>                     |                           |                    |             |                    |               |
| Yes (n=15)  | 80.7                      | [49.4,94.7]        | 19.3        | [5.3,50.6]         | 100.0         |
| No (n=220)  | 84.3                      | [77.8,89.2]        | 15.7        | [10.8,22.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1524                    |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.1029                    | Pr =               | 0.749       |                    |               |
| <b>High ER utilizers</b>                            |                           |                    |             |                    |               |
| Yes (n=17)  | 96.9                      | [80.0,99.6]        | 3.1         | [0.4,20.0]         | 100.0         |
| No (n=218)  | 82.9                      | [76.2,88.0]        | 17.1        | [12.0,23.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.4700                    |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 4.0218                    | Pr =               | 0.046       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |                    |             |                    |               |
| Chronic disease (HEDIS) (n=86)                      | 86.0                      | [76.9,91.9]        | 14.0        | [8.1,23.1]         | 100.0         |
| No chronic disease (n=149)                          | 83.1                      | [74.6,89.2]        | 16.9        | [10.8,25.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3190                    |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.2994                    | Pr =               | 0.585       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |                    |             |                    |               |
| MH/SA (HEDIS) (n=154)                               | 79.8                      | [71.2,86.3]        | 20.2        | [13.7,28.8]        | 100.0         |
| No MH/SA (n=81)                                     | 92.8                      | [85.0,96.7]        | 7.2         | [3.3,15.0]         | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.5502                    |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 6.6278                    | Pr =               | 0.011       |                    |               |
| <b>Total (n=235)</b>                                | <b>84.0</b>               | <b>[77.8,88.8]</b> | <b>16.0</b> | <b>[11.2,22.2]</b> | <b>100.0</b>  |

### 3.30.3 PCP Appointment difficult- Inconvenient hours

Universe: Respondents who found it difficult or very difficult to see their PCP in the last 12 months

|   | Difficult appt: inconvenient hours |                    |             |                    | Total<br>Row% |
|---|------------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                        | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                    |                    |             |                    |               |
| 0-35% (n=89)  | 17.7                               | [10.2,28.9]        | 82.3        | [71.1,89.8]        | 100.0         |
| 36-99% (n=77)                                       | 18.5                               | [10.4,30.9]        | 81.5        | [69.1,89.6]        | 100.0         |
| ≥ 100%(n = 69)                                      | 20.3                               | [11.8,32.8]        | 79.7        | [67.2,88.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1811                             |                    |             |                    |               |
| Design-based F(1.95, 434.28) =                      | 0.0737                             | Pr =               | 0.925       |                    |               |
| <b>Region</b>                                       |                                    |                    |             |                    |               |
| UP/NW/NE (n=34)                                     | 16.2                               | [6.8,33.9]         | 83.8        | [66.1,93.2]        | 100.0         |
| W/E Central/E (n=74)                                | 21.4                               | [12.8,33.6]        | 78.6        | [66.4,87.2]        | 100.0         |
| S Central/SW/SE (n=65)                              | 17.3                               | [9.2,30.1]         | 82.7        | [69.9,90.8]        | 100.0         |
| Detroit Metro (n=62)                                | 17.6                               | [9.1,31.1]         | 82.4        | [68.9,90.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.5580                             |                    |             |                    |               |
| Design-based F(2.62, 583.48) =                      | 0.1675                             | Pr =               | 0.896       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                    |                    |             |                    |               |
| Yes (n=15)  | 8.7                                | [1.2,42.8]         | 91.3        | [57.2,98.8]        | 100.0         |
| No (n=220)  | 19.3                               | [13.8,26.4]        | 80.7        | [73.6,86.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.2230                             |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.7988                             | Pr =               | 0.372       |                    |               |
| <b>High ER utilizers</b>                            |                                    |                    |             |                    |               |
| Yes (n=17)  | 27.6                               | [9.3,58.8]         | 72.4        | [41.2,90.7]        | 100.0         |
| No (n=218)  | 17.8                               | [12.6,24.5]        | 82.2        | [75.5,87.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0949                             |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.6811                             | Pr =               | 0.410       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                    |                    |             |                    |               |
| Chronic disease (HEDIS) (n=86)                      | 19.7                               | [11.4,32.1]        | 80.3        | [67.9,88.6]        | 100.0         |
| No chronic disease (n=149)                          | 18.0                               | [11.8,26.3]        | 82.0        | [73.7,88.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1057                             |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.0776                             | Pr =               | 0.781       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                    |                    |             |                    |               |
| MH/SA (HEDIS) (n=154)                               | 18.7                               | [12.4,27.3]        | 81.3        | [72.7,87.6]        | 100.0         |
| No MH/SA (n=81)                                     | 18.2                               | [10.4,30.0]        | 81.8        | [70.0,89.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0078                             |                    |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.0059                             | Pr =               | 0.939       |                    |               |
| <b>Total (n=235)</b>                                | <b>18.5</b>                        | <b>[13.3,25.2]</b> | <b>81.5</b> | <b>[74.8,86.7]</b> | <b>100.0</b>  |

### 3.30.4 PCP Appointment difficult- No transportation

Universe: Respondents who found it difficult or very difficult to see their PCP in the last 12 months

|   | Difficult appt: transportation |                  |             |                    | Total<br>Row% |
|---|--------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                    | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                |                  |             |                    |               |
| 0-35% (n=89)  | 4.4                            | [1.8,10.5]       | 95.6        | [89.5,98.2]        | 100.0         |
| 36-99% (n=77)                                       | 2.2                            | [0.5,9.0]        | 97.8        | [91.0,99.5]        | 100.0         |
| ≥ 100%(n = 69)                                      | 3.8                            | [1.2,11.1]       | 96.2        | [88.9,98.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.5520                         |                  |             |                    |               |
| Design-based F(1.98, 441.23) =                      | 0.3454                         | Pr =             | 0.706       |                    |               |
| <b>Region</b>                                       |                                |                  |             |                    |               |
| UP/NW/NE (n=34)                                     | 14.9                           | [6.1,31.9]       | 85.1        | [68.1,93.9]        | 100.0         |
| W/E Central/E (n=74)                                | 3.2                            | [1.0,10.4]       | 96.8        | [89.6,99.0]        | 100.0         |
| S Central/SW/SE (n=65)                              | 3.9                            | [1.2,11.8]       | 96.1        | [88.2,98.8]        | 100.0         |
| Detroit Metro (n=62)                                | 2.0                            | [0.3,13.1]       | 98.0        | [86.9,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 6.5813                         |                  |             |                    |               |
| Design-based F(2.52, 562.61) =                      | 2.1522                         | Pr =             | 0.104       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                |                  |             |                    |               |
| Yes (n=15)  | 8.4                            | [1.9,30.1]       | 91.6        | [69.9,98.1]        | 100.0         |
| No (n=220)  | 3.3                            | [1.6,6.7]        | 96.7        | [93.3,98.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.1841                         |                  |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 1.3549                         | Pr =             | 0.246       |                    |               |
| <b>High ER utilizers</b>                            |                                |                  |             |                    |               |
| Yes (n=17)  | 0.0                            |                  | 100.0       |                    | 100.0         |
| No (n=218)  | 4.0                            | [2.1,7.5]        | 96.0        | [92.5,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7663                         |                  |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.6528                         | Pr =             | 0.420       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                |                  |             |                    |               |
| Chronic disease (HEDIS) (n=86)                      | 4.4                            | [2.0,9.6]        | 95.6        | [90.4,98.0]        | 100.0         |
| No chronic disease (n=149)                          | 3.3                            | [1.3,8.2]        | 96.7        | [91.8,98.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1827                         |                  |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.2267                         | Pr =             | 0.634       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                |                  |             |                    |               |
| MH/SA (HEDIS) (n=154)                               | 4.8                            | [2.4,9.4]        | 95.2        | [90.6,97.6]        | 100.0         |
| No MH/SA (n=81)                                     | 1.3                            | [0.2,8.9]        | 98.7        | [91.1,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.8085                         |                  |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 1.8071                         | Pr =             | 0.180       |                    |               |
| <b>Total (n=235)</b>                                | <b>3.7</b>                     | <b>[1.9,6.9]</b> | <b>96.3</b> | <b>[93.1,98.1]</b> | <b>100.0</b>  |

### 3.30.5 PCP Appointment difficult- Other

Universe: Respondents who found it difficult or very difficult to see their PCP in the last 12 months

|   | Difficult appt: other response-record |                   |             |                    | Total<br>Row% |
|---|---------------------------------------|-------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                           | 95%CI             | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                       |                   |             |                    |               |
| 0-35% (n=89)  | 12.3                                  | [5.2,26.4]        | 87.7        | [73.6,94.8]        | 100.0         |
| 36-99% (n=77)                                       | 8.0                                   | [3.1,19.0]        | 92.0        | [81.0,96.9]        | 100.0         |
| ≥ 100%(n = 69)                                      | 3.5                                   | [1.1,10.7]        | 96.5        | [89.3,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.8194                                |                   |             |                    |               |
| Design-based F(1.80, 402.16) =                      | 1.5465                                | Pr =              | 0.216       |                    |               |
| <b>Region</b>                                       |                                       |                   |             |                    |               |
| UP/NW/NE (n=34)                                     | 4.9                                   | [1.1,19.5]        | 95.1        | [80.5,98.9]        | 100.0         |
| W/E Central/E (n=74)                                | 10.5                                  | [4.1,24.2]        | 89.5        | [75.8,95.9]        | 100.0         |
| S Central/SW/SE (n=65)                              | 1.8                                   | [0.2,12.0]        | 98.2        | [88.0,99.8]        | 100.0         |
| Detroit Metro (n=62)                                | 12.9                                  | [5.0,29.7]        | 87.1        | [70.3,95.0]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.8052                                |                   |             |                    |               |
| Design-based F(2.31, 515.68) =                      | 1.5206                                | Pr =              | 0.217       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                       |                   |             |                    |               |
| Yes (n=15)  | 10.9                                  | [1.5,49.6]        | 89.1        | [50.4,98.5]        | 100.0         |
| No (n=220)  | 8.9                                   | [4.5,16.7]        | 91.1        | [83.3,95.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0790                                |                   |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 0.0402                                | Pr =              | 0.841       |                    |               |
| <b>High ER utilizers</b>                            |                                       |                   |             |                    |               |
| Yes (n=17)  | 0.0                                   |                   | 100.0       |                    | 100.0         |
| No (n=218)  | 9.8                                   | [5.2,17.7]        | 90.2        | [82.3,94.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.9825                                |                   |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 1.0886                                | Pr =              | 0.298       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                       |                   |             |                    |               |
| Chronic disease (HEDIS) (n=86)                      | 5.5                                   | [2.0,14.3]        | 94.5        | [85.7,98.0]        | 100.0         |
| No chronic disease (n=149)                          | 10.7                                  | [5.1,21.1]        | 89.3        | [78.9,94.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.6980                                |                   |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 1.2254                                | Pr =              | 0.269       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                       |                   |             |                    |               |
| MH/SA (HEDIS) (n=154)                               | 12.2                                  | [6.2,22.6]        | 87.8        | [77.4,93.8]        | 100.0         |
| No MH/SA (n=81)                                     | 2.4                                   | [0.7,8.1]         | 97.6        | [91.9,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.0701                                |                   |             |                    |               |
| Design-based F(1.00, 223.00) =                      | 6.6698                                | Pr =              | 0.010       |                    |               |
| <b>Total (n=235)</b>                                | <b>9.0</b>                            | <b>[4.8,16.4]</b> | <b>91.0</b> | <b>[83.6,95.2]</b> | <b>100.0</b>  |



### 3.30.6 PCP Appointment difficult- Don't know

*Universe:* Respondents who found it difficult or very difficult to see their PCP in the last 12 months

| <b>Difficult appt: don't know</b> | No.            |
|-----------------------------------|----------------|
| No                                | 21543.2        |
| <b>Total</b>                      | <b>21543.2</b> |

### 3.30.7 PCP Appointment difficult- Refused

*Universe:* Respondents who found it difficult or very difficult to see their PCP in the last 12 months

| <b>Difficult appt: refused</b> | No.            |
|--------------------------------|----------------|
| No                             | 21543.2        |
| <b>Total</b>                   | <b>21543.2</b> |

### 3.31 Q: In the last 12 months, have you ever felt that a doctor or medical staff judged you unfairly or treated you with disrespect because of:

#### 3.31.1 Discrimination due to race

Universe: All respondents

|   | Yes        |                  | Discrimination: race/ethnicity |                    |                    |                  | Total<br>Row% |
|---|------------|------------------|--------------------------------|--------------------|--------------------|------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                     | 95%CI              | Don't know<br>Row% | 95%CI            |               |
| <b>FPL category</b>                                 |            |                  |                                |                    |                    |                  |               |
| 0-35% (n=1,595)                                     | 3.2        | [2.3,4.4]        | 96.0                           | [94.8,97.0]        | 0.7                | [0.4,1.3]        | 100.0         |
| 36-99% (n=1,444)                                    | 2.3        | [1.5,3.5]        | 96.9                           | [95.6,97.8]        | 0.7                | [0.4,1.5]        | 100.0         |
| ≥ 100% (n = 1,037)                                  | 2.8        | [1.8,4.2]        | 96.4                           | [94.9,97.5]        | 0.8                | [0.4,1.6]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 2.0585     |                  |                                |                    |                    |                  |               |
| Design-based F(3.88, 15753.92) =                    | 0.4378     | Pr =             | 0.775                          |                    |                    |                  |               |
| <b>Region</b>                                       |            |                  |                                |                    |                    |                  |               |
| UP/NW/NE (n=745)                                    | 1.4        | [0.6,3.5]        | 97.7                           | [95.5,98.8]        | 0.9                | [0.4,2.3]        | 100.0         |
| W/E Central/E (n=1,258)                             | 2.7        | [1.9,3.9]        | 96.5                           | [95.3,97.5]        | 0.7                | [0.4,1.4]        | 100.0         |
| S Central/SW/SE (n=835)                             | 3.7        | [2.4,5.6]        | 94.9                           | [92.8,96.5]        | 1.4                | [0.7,2.8]        | 100.0         |
| Detroit Metro (n=1,238)                             | 2.9        | [2.0,4.3]        | 96.6                           | [95.2,97.6]        | 0.5                | [0.2,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 10.7786    |                  |                                |                    |                    |                  |               |
| Design-based F(5.71, 23216.39) =                    | 1.4858     | Pr =             | 0.182                          |                    |                    |                  |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                                |                    |                    |                  |               |
| Yes (n=486)   | 1.5        | [0.6,3.7]        | 95.2                           | [92.6,96.9]        | 3.3                | [2.0,5.4]        | 100.0         |
| No (n=3,590)  | 3.1        | [2.5,3.9]        | 96.6                           | [95.8,97.2]        | 0.3                | [0.2,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 69.0683    |                  |                                |                    |                    |                  |               |
| Design-based F(1.86, 7572.11) =                     | 22.0796    | Pr =             | 0.000                          |                    |                    |                  |               |
| <b>High ER utilizers</b>                            |            |                  |                                |                    |                    |                  |               |
| Yes (n=155)   | 4.6        | [2.1,10.0]       | 94.8                           | [89.4,97.5]        | 0.5                | [0.1,3.7]        | 100.0         |
| No (n=3,921)  | 2.8        | [2.2,3.5]        | 96.4                           | [95.7,97.1]        | 0.8                | [0.5,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.1895     |                  |                                |                    |                    |                  |               |
| Design-based F(1.93, 7857.99) =                     | 0.9154     | Pr =             | 0.398                          |                    |                    |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                                |                    |                    |                  |               |
| Chronic disease (HEDIS) (n=1,158)                   | 5.1        | [3.6,7.1]        | 94.8                           | [92.7,96.3]        | 0.1                | [0.0,0.6]        | 100.0         |
| No chronic disease (n=2,918)                        | 2.1        | [1.6,2.9]        | 96.9                           | [96.1,97.6]        | 1.0                | [0.6,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 31.1323    |                  |                                |                    |                    |                  |               |
| Design-based F(1.82, 7411.11) =                     | 13.0127    | Pr =             | 0.000                          |                    |                    |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                                |                    |                    |                  |               |
| MH/SA (HEDIS) (n=2,029)                             | 4.0        | [3.0,5.3]        | 95.7                           | [94.4,96.8]        | 0.2                | [0.1,0.5]        | 100.0         |
| No MH/SA (n=2,047)                                  | 1.8        | [1.3,2.6]        | 96.9                           | [96.0,97.7]        | 1.2                | [0.8,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 30.7056    |                  |                                |                    |                    |                  |               |
| Design-based F(1.88, 7649.67) =                     | 13.9552    | Pr =             | 0.000                          |                    |                    |                  |               |
| <b>Total (n=4,076)</b>                              | <b>2.9</b> | <b>[2.3,3.6]</b> | <b>96.4</b>                    | <b>[95.6,97.0]</b> | <b>0.8</b>         | <b>[0.5,1.1]</b> | <b>100.0</b>  |

### 3.31.2 Discrimination due to English speaking ability

Universe: All respondents

|   | Discrimination: English ability |                  |             |                    |            |                  | Total<br>Row% |
|---|---------------------------------|------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                             |                  | No          |                    | Don't know |                  |               |
|   | Row%                            | 95%CI            | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                 |                  |             |                    |            |                  |               |
| 0-35% (n=1,594)                                     | 1.5                             | [1.0,2.4]        | 97.4        | [96.2,98.3]        | 1.0        | [0.5,2.1]        | 100.0         |
| 36-99% (n=1,444)                                    | 2.2                             | [1.4,3.5]        | 97.2        | [95.8,98.2]        | 0.6        | [0.3,1.4]        | 100.0         |
| ≥ 100% (n = 1,037)                                  | 1.5                             | [0.8,2.7]        | 97.3        | [95.9,98.3]        | 1.2        | [0.7,2.2]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 4.5505                          |                  |             |                    |            |                  |               |
| Design-based F(3.82, 15526.54) =                    | 0.7746                          | Pr =             | 0.536       |                    |            |                  |               |
| <b>Region</b>                                       |                                 |                  |             |                    |            |                  |               |
| UP/NW/NE (n=744)                                    | 1.0                             | [0.5,2.2]        | 97.5        | [95.4,98.7]        | 1.5        | [0.6,3.6]        | 100.0         |
| W/E Central/E (n=1,259)                             | 1.6                             | [1.0,2.6]        | 97.6        | [96.4,98.4]        | 0.8        | [0.4,1.6]        | 100.0         |
| S Central/SW/SE (n=835)                             | 1.7                             | [0.9,3.2]        | 96.7        | [94.8,97.9]        | 1.6        | [0.8,3.1]        | 100.0         |
| Detroit Metro (n=1,237)                             | 1.9                             | [1.2,3.0]        | 97.5        | [96.0,98.4]        | 0.6        | [0.2,2.1]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 8.2813                          |                  |             |                    |            |                  |               |
| Design-based F(4.51, 18325.99) =                    | 0.8865                          | Pr =             | 0.481       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                 |                  |             |                    |            |                  |               |
| Yes (n=485)   | 2.2                             | [1.0,4.5]        | 94.0        | [91.1,95.9]        | 3.9        | [2.4,6.0]        | 100.0         |
| No (n=3,590)  | 1.6                             | [1.2,2.2]        | 98.0        | [97.2,98.5]        | 0.4        | [0.2,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 67.0700                         |                  |             |                    |            |                  |               |
| Design-based F(1.93, 7843.41) =                     | 14.6762                         | Pr =             | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                                 |                  |             |                    |            |                  |               |
| Yes (n=155)   | 0.4                             | [0.1,2.7]        | 99.3        | [97.1,99.8]        | 0.3        | [0.0,2.4]        | 100.0         |
| No (n=3,920)  | 1.8                             | [1.3,2.4]        | 97.3        | [96.5,97.9]        | 1.0        | [0.6,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.7033                          |                  |             |                    |            |                  |               |
| Design-based F(1.99, 8099.81) =                     | 1.9972                          | Pr =             | 0.136       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                 |                  |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,158)                   | 1.6                             | [1.0,2.8]        | 98.1        | [96.9,98.9]        | 0.2        | [0.1,1.0]        | 100.0         |
| No chronic disease (n=2,917)                        | 1.7                             | [1.2,2.4]        | 97.1        | [96.2,97.8]        | 1.2        | [0.7,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.1914                          |                  |             |                    |            |                  |               |
| Design-based F(2.00, 8122.55) =                     | 2.6228                          | Pr =             | 0.073       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                 |                  |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,028)                             | 1.5                             | [1.0,2.3]        | 97.9        | [96.7,98.6]        | 0.7        | [0.2,1.9]        | 100.0         |
| No MH/SA (n=2,047)                                  | 1.9                             | [1.3,2.8]        | 96.9        | [95.9,97.7]        | 1.2        | [0.8,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.1069                          |                  |             |                    |            |                  |               |
| Design-based F(1.80, 7311.73) =                     | 0.9215                          | Pr =             | 0.389       |                    |            |                  |               |
| <b>Total (n=4,075)</b>                              | <b>1.7</b>                      | <b>[1.3,2.3]</b> | <b>97.4</b> | <b>[96.6,97.9]</b> | <b>0.9</b> | <b>[0.6,1.5]</b> | <b>100.0</b>  |

### 3.31.3 Discrimination due to insurance

Universe: All respondents

|   | Discrimination: Health insurance/ability to pay |             |       |             |            |           | Total<br>Row% |
|---|---|-------------|-------|-------------|------------|-----------|---------------|
|   | Yes   |             | No    |             | Don't know |           |               |
|   | Row%  | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |   |             |       |             |            |           |               |
| 0-35% (n=1,595)                                     | 12.5  | [10.6,14.6] | 85.9  | [83.6,87.9] | 1.6        | [1.1,2.5] | 100.0         |
| 36-99% (n=1,445)                                    | 10.5  | [8.8,12.5]  | 88.6  | [86.5,90.4] | 1.0        | [0.5,1.7] | 100.0         |
| ≥ 100% (n = 1,037)                                  | 10.8  | [8.8,13.1]  | 87.7  | [85.2,89.8] | 1.5        | [0.8,2.8] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 6.2351  |             |       |             |            |           |               |
| Design-based F(3.90, 15872.76) =                    | 1.2552  | Pr =        | 0.286 |             |            |           |               |
| <b>Region</b>                                       |   |             |       |             |            |           |               |
| UP/NW/NE (n=745)                                    | 10.8  | [8.6,13.5]  | 87.1  | [84.1,89.7] | 2.1        | [1.0,4.1] | 100.0         |
| W/E Central/E (n=1,260)                             | 12.6  | [10.6,14.8] | 86.0  | [83.6,88.1] | 1.4        | [0.9,2.4] | 100.0         |
| S Central/SW/SE (n=834)                             | 13.9  | [11.1,17.1] | 83.7  | [80.3,86.7] | 2.4        | [1.4,4.1] | 100.0         |
| Detroit Metro (n=1,238)                             | 10.1  | [8.2,12.4]  | 89.0  | [86.7,91.0] | 0.9        | [0.4,1.7] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 19.9632   |             |       |             |            |           |               |
| Design-based F(5.49, 22302.21) =                    | 2.5410  | Pr =        | 0.022 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |   |             |       |             |            |           |               |
| Yes (n=487)   | 8.8   | [5.8,13.0]  | 86.4  | [81.9,89.9] | 4.9        | [3.1,7.5] | 100.0         |
| No (n=3,590)  | 12.1  | [10.8,13.5] | 87.1  | [85.7,88.4] | 0.8        | [0.5,1.2] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 65.4120   |             |       |             |            |           |               |
| Design-based F(1.88, 7626.36) =                     | 17.5287   | Pr =        | 0.000 |             |            |           |               |
| <b>High ER utilizers</b>                            |   |             |       |             |            |           |               |
| Yes (n=155)   | 20.3  | [14.0,28.6] | 78.8  | [70.5,85.2] | 0.9        | [0.2,3.6] | 100.0         |
| No (n=3,922)  | 11.2  | [10.0,12.5] | 87.4  | [86.0,88.7] | 1.4        | [1.1,2.0] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.3836   |             |       |             |            |           |               |
| Design-based F(1.85, 7509.45) =                     | 6.0349  | Pr =        | 0.003 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |   |             |       |             |            |           |               |
| Chronic disease (HEDIS) (n=1,157)                   | 13.5  | [11.1,16.3] | 85.4  | [82.5,87.8] | 1.1        | [0.6,2.2] | 100.0         |
| No chronic disease (n=2,920)                        | 10.9  | [9.6,12.4]  | 87.6  | [86.0,89.0] | 1.5        | [1.1,2.1] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.7617  |             |       |             |            |           |               |
| Design-based F(1.99, 8095.61) =                     | 1.9603  | Pr =        | 0.141 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |             |       |             |            |           |               |
| MH/SA (HEDIS) (n=2,029)                             | 14.9  | [13.0,17.0] | 84.1  | [82.0,86.0] | 1.0        | [0.7,1.7] | 100.0         |
| No MH/SA (n=2,048)                                  | 8.5   | [7.1,10.1]  | 89.7  | [88.0,91.3] | 1.8        | [1.2,2.6] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 43.3607   |             |       |             |            |           |               |
| Design-based F(1.97, 8013.20) =                     | 14.8210   | Pr =        | 0.000 |             |            |           |               |
| <b>Total (n=4,077)</b>                              | 11.6  | [10.4,12.9] | 87.0  | [85.7,88.3] | 1.4        | [1.1,1.9] | 100.0         |

### 3.32 Q: Would you say that your ability to get care through the Healthy Michigan Plan is better, worse, or about the same compared to before?

#### 3.32.1 Access to primary care

Universe: All respondents

|   | Better      |                    | Worse      |                  | About the same |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|------------|------------------|----------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%       | 95%CI            | Row%           | 95%CI              | Row%       | 95%CI            |               |
| <b>Better/worse: primary care</b>                   |             |                    |            |                  |                |                    |            |                  |               |
| <b>FPL category</b>                                 |             |                    |            |                  |                |                    |            |                  |               |
| 0-35% (n=1,597)                                     | 60.5        | [57.4,63.6]        | 2.4        | [1.6,3.5]        | 32.7           | [29.8,35.7]        | 4.4        | [3.1,6.3]        | 100.0         |
| 36-99% (n=1,448)                                    | 57.0        | [53.9,60.1]        | 2.4        | [1.6,3.5]        | 37.1           | [34.2,40.1]        | 3.5        | [2.5,4.9]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 51.8        | [48.2,55.3]        | 2.6        | [1.6,4.1]        | 42.5           | [39.0,46.0]        | 3.2        | [2.1,4.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 27.3262     |                    |            |                  |                |                    |            |                  |               |
| Design-based F(5.72, 23313.30) =                    | 3.0876      | Pr =               | 0.006      |                  |                |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |            |                  |                |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 55.5        | [51.4,59.6]        | 2.0        | [1.1,3.4]        | 39.1           | [35.2,43.2]        | 3.4        | [2.2,5.0]        | 100.0         |
| W/E Central/E (n=1,264)                             | 57.9        | [54.7,61.0]        | 2.6        | [1.7,3.9]        | 35.5           | [32.6,38.7]        | 4.0        | [2.8,5.8]        | 100.0         |
| S Central/SW/SE (n=835)                             | 57.3        | [53.2,61.3]        | 2.7        | [1.7,4.2]        | 36.1           | [32.3,40.1]        | 4.0        | [2.3,6.8]        | 100.0         |
| Detroit Metro (n=1,240)                             | 58.4        | [54.9,61.8]        | 2.3        | [1.4,3.6]        | 35.3           | [32.1,38.7]        | 4.0        | [2.7,5.8]        | 100.0         |
| Pearson: Uncorrected chi2(9) =                      | 2.8729      |                    |            |                  |                |                    |            |                  |               |
| Design-based F(7.45, 30326.43) =                    | 0.2229      | Pr =               | 0.984      |                  |                |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |            |                  |                |                    |            |                  |               |
| Yes (n=490)   | 46.8        | [41.0,52.7]        | 4.1        | [2.3,7.0]        | 35.5           | [30.3,41.1]        | 13.6       | [10.0,18.3]      | 100.0         |
| No (n=3,595)  | 59.8        | [57.7,61.8]        | 2.1        | [1.6,2.8]        | 35.9           | [34.0,38.0]        | 2.2        | [1.5,3.1]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 200.6082    |                    |            |                  |                |                    |            |                  |               |
| Design-based F(2.98, 12118.43) =                    | 31.7011     | Pr =               | 0.000      |                  |                |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |            |                  |                |                    |            |                  |               |
| Yes (n=156)   | 60.2        | [49.4,70.2]        | 2.5        | [1.1,5.7]        | 32.0           | [22.6,43.2]        | 5.2        | [1.7,15.0]       | 100.0         |
| No (n=3,929)  | 57.7        | [55.7,59.7]        | 2.4        | [1.9,3.1]        | 36.1           | [34.2,38.0]        | 3.9        | [3.0,4.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.8151      |                    |            |                  |                |                    |            |                  |               |
| Design-based F(2.49, 10144.34) =                    | 0.2905      | Pr =               | 0.795      |                  |                |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |            |                  |                |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 61.4        | [57.7,64.9]        | 1.6        | [0.9,2.8]        | 35.3           | [31.9,38.8]        | 1.7        | [0.7,4.0]        | 100.0         |
| No chronic disease (n=2,924)                        | 56.6        | [54.3,58.9]        | 2.7        | [2.0,3.5]        | 36.1           | [33.9,38.3]        | 4.7        | [3.7,5.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 23.6101     |                    |            |                  |                |                    |            |                  |               |
| Design-based F(2.55, 10372.00) =                    | 3.8206      | Pr =               | 0.014      |                  |                |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |            |                  |                |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,032)                             | 62.9        | [60.2,65.6]        | 2.2        | [1.5,3.1]        | 32.3           | [29.7,35.0]        | 2.6        | [1.7,4.0]        | 100.0         |
| No MH/SA (n=2,053)                                  | 53.0        | [50.2,55.8]        | 2.6        | [1.9,3.7]        | 39.2           | [36.6,42.0]        | 5.1        | [3.9,6.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 48.6635     |                    |            |                  |                |                    |            |                  |               |
| Design-based F(2.88, 11744.74) =                    | 8.6587      | Pr =               | 0.000      |                  |                |                    |            |                  |               |
| <b>Total (n=4,085)</b>                              | <b>57.8</b> | <b>[55.8,59.7]</b> | <b>2.4</b> | <b>[1.9,3.1]</b> | <b>35.9</b>    | <b>[34.0,37.8]</b> | <b>3.9</b> | <b>[3.1,4.9]</b> | <b>100.0</b>  |

### 3.32.2 Access to specialty care

Universe: All respondents

|   | Better/worse: specialist care |             |       |            |                |             |            |             |       |
|---|-------------------------------|-------------|-------|------------|----------------|-------------|------------|-------------|-------|
|   | Better                        |             | Worse |            | About the same |             | Don't know |             | Total |
|   | Row%                          | 95%CI       | Row%  | 95%CI      | Row%           | 95%CI       | Row%       | 95%CI       | Row%  |
| <b>FPL category</b>                                 |                               |             |       |            |                |             |            |             |       |
| 0-35% (n=1,597)                                     | 45.2                          | [42.2,48.3] | 4.3   | [3.3,5.7]  | 22.1           | [19.6,24.8] | 28.4       | [25.5,31.4] | 100.0 |
| 36-99% (n=1,448)                                    | 44.2                          | [41.2,47.3] | 4.0   | [3.0,5.3]  | 22.6           | [20.0,25.4] | 29.2       | [26.4,32.2] | 100.0 |
| ≥ 100% (n = 1,040)                                  | 42.6                          | [39.1,46.1] | 4.4   | [3.2,6.0]  | 23.9           | [21.0,27.1] | 29.1       | [25.8,32.5] | 100.0 |
| Pearson: Uncorrected chi2(6) =                      | 2.3365                        |             |       |            |                |             |            |             |       |
| Design-based F(5.75, 23421.88) =                    | 0.2912                        |             | Pr =  | 0.936      |                |             |            |             |       |
| <b>Region</b>                                       |                               |             |       |            |                |             |            |             |       |
| UP/NW/NE (n=746)                                    | 44.7                          | [40.7,48.8] | 3.9   | [2.7,5.8]  | 22.6           | [19.2,26.3] | 28.8       | [25.2,32.7] | 100.0 |
| W/E Central/E (n=1,264)                             | 45.3                          | [42.1,48.4] | 4.3   | [3.2,5.7]  | 22.3           | [19.7,25.1] | 28.1       | [25.3,31.2] | 100.0 |
| S Central/SW/SE (n=835)                             | 45.0                          | [41.0,49.1] | 4.4   | [3.1,6.2]  | 22.8           | [19.5,26.6] | 27.8       | [24.2,31.7] | 100.0 |
| Detroit Metro (n=1,240)                             | 43.6                          | [40.2,47.0] | 4.2   | [3.0,5.8]  | 22.7           | [20.0,25.7] | 29.5       | [26.3,33.0] | 100.0 |
| Pearson: Uncorrected chi2(9) =                      | 1.5509                        |             |       |            |                |             |            |             |       |
| Design-based F(8.00, 32572.55) =                    | 0.1377                        |             | Pr =  | 0.998      |                |             |            |             |       |
| <b>Low healthcare utilizers</b>                     |                               |             |       |            |                |             |            |             |       |
| Yes (n=490)   | 27.7                          | [22.6,33.4] | 2.2   | [1.1,4.1]  | 24.5           | [20.1,29.6] | 45.6       | [39.9,51.5] | 100.0 |
| No (n=3,595)  | 47.4                          | [45.4,49.5] | 4.6   | [3.8,5.5]  | 22.3           | [20.6,24.0] | 25.7       | [23.9,27.6] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 127.9212                      |             |       |            |                |             |            |             |       |
| Design-based F(2.92, 11903.84) =                    | 22.2440                       |             | Pr =  | 0.000      |                |             |            |             |       |
| <b>High ER utilizers</b>                            |                               |             |       |            |                |             |            |             |       |
| Yes (n=156)   | 56.3                          | [46.1,65.9] | 5.9   | [2.8,12.0] | 18.5           | [12.4,26.8] | 19.3       | [12.0,29.6] | 100.0 |
| No (n=3,929)  | 43.9                          | [41.9,45.9] | 4.2   | [3.5,5.0]  | 22.8           | [21.1,24.5] | 29.2       | [27.3,31.1] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 14.4127                       |             |       |            |                |             |            |             |       |
| Design-based F(2.90, 11807.87) =                    | 2.6107                        |             | Pr =  | 0.052      |                |             |            |             |       |
| <b>Chronic disease (HEDIS)</b>                      |                               |             |       |            |                |             |            |             |       |
| Chronic disease (HEDIS) (n=1,161)                   | 52.4                          | [48.8,56.0] | 4.0   | [2.8,5.5]  | 23.0           | [20.1,26.3] | 20.6       | [17.8,23.8] | 100.0 |
| No chronic disease (n=2,924)                        | 41.7                          | [39.5,44.0] | 4.3   | [3.5,5.3]  | 22.5           | [20.6,24.4] | 31.5       | [29.3,33.8] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 51.4145                       |             |       |            |                |             |            |             |       |
| Design-based F(2.99, 12168.72) =                    | 11.7546                       |             | Pr =  | 0.000      |                |             |            |             |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |             |       |            |                |             |            |             |       |
| MH/SA (HEDIS) (n=2,032)                             | 51.1                          | [48.4,53.9] | 5.2   | [4.1,6.6]  | 21.6           | [19.4,24.0] | 22.0       | [19.7,24.5] | 100.0 |
| No MH/SA (n=2,053)                                  | 38.2                          | [35.5,40.9] | 3.3   | [2.5,4.4]  | 23.5           | [21.2,26.0] | 35.0       | [32.3,37.8] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 108.4091                      |             |       |            |                |             |            |             |       |
| Design-based F(2.98, 12146.51) =                    | 22.5981                       |             | Pr =  | 0.000      |                |             |            |             |       |
| <b>Total (n=4,085)</b>                              | 44.4                          | [42.5,46.4] | 4.2   | [3.5,5.1]  | 22.6           | [21.0,24.3] | 28.7       | [26.9,30.6] | 100.0 |

### 3.32.3 Access to dental care

Universe: All respondents

|   | Better/worse: dental care |                    |            |                  |                |                    |             |                    |              |
|---|---------------------------|--------------------|------------|------------------|----------------|--------------------|-------------|--------------------|--------------|
|   | Better                    |                    | Worse      |                  | About the same |                    | Don't know  |                    | Total        |
|   | Row%                      | 95%CI              | Row%       | 95%CI            | Row%           | 95%CI              | Row%        | 95%CI              | Row%         |
| <b>FPL category</b>                                 |                           |                    |            |                  |                |                    |             |                    |              |
| 0-35% (n=1,596)                                     | 46.8                      | [43.7,49.9]        | 5.3        | [4.1,7.0]        | 28.2           | [25.4,31.2]        | 19.7        | [17.3,22.2]        | 100.0        |
| 36-99% (n=1,448)                                    | 46.3                      | [43.2,49.4]        | 6.8        | [5.4,8.7]        | 29.6           | [26.7,32.6]        | 17.3        | [15.0,19.8]        | 100.0        |
| ≥ 100% (n = 1,040)                                  | 43.6                      | [40.2,47.2]        | 7.8        | [6.0,10.1]       | 32.1           | [28.8,35.5]        | 16.5        | [14.0,19.3]        | 100.0        |
| Pearson: Uncorrected chi2(6) =                      | 15.0498                   |                    |            |                  |                |                    |             |                    |              |
| Design-based F(5.78, 23553.26) =                    | 1.7671                    | Pr =               | 0.104      |                  |                |                    |             |                    |              |
| <b>Region</b>                                       |                           |                    |            |                  |                |                    |             |                    |              |
| UP/NW/NE (n=746)                                    | 48.8                      | [44.7,52.9]        | 6.5        | [4.9,8.5]        | 28.0           | [24.3,32.0]        | 16.8        | [14.1,19.8]        | 100.0        |
| W/E Central/E (n=1,263)                             | 47.3                      | [44.2,50.5]        | 5.9        | [4.4,7.8]        | 28.1           | [25.3,31.1]        | 18.6        | [16.2,21.3]        | 100.0        |
| S Central/SW/SE (n=835)                             | 45.4                      | [41.4,49.5]        | 5.8        | [4.2,8.0]        | 27.9           | [24.1,31.9]        | 20.9        | [17.9,24.3]        | 100.0        |
| Detroit Metro (n=1,240)                             | 44.9                      | [41.5,48.4]        | 6.6        | [5.1,8.5]        | 31.0           | [27.9,34.4]        | 17.4        | [14.9,20.3]        | 100.0        |
| Pearson: Uncorrected chi2(9) =                      | 9.6776                    |                    |            |                  |                |                    |             |                    |              |
| Design-based F(7.90, 32186.72) =                    | 0.8398                    | Pr =               | 0.566      |                  |                |                    |             |                    |              |
| <b>Low healthcare utilizers</b>                     |                           |                    |            |                  |                |                    |             |                    |              |
| Yes (n=490)   | 39.9                      | [34.4,45.7]        | 6.2        | [4.1,9.2]        | 33.1           | [27.8,38.9]        | 20.8        | [16.4,26.1]        | 100.0        |
| No (n=3,594)  | 47.2                      | [45.1,49.2]        | 6.3        | [5.3,7.4]        | 28.7           | [26.8,30.6]        | 17.9        | [16.4,19.5]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 12.0255                   |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.97, 12088.70) =                    | 1.9851                    | Pr =               | 0.115      |                  |                |                    |             |                    |              |
| <b>High ER utilizers</b>                            |                           |                    |            |                  |                |                    |             |                    |              |
| Yes (n=156)   | 54.1                      | [44.1,63.9]        | 3.7        | [1.9,7.3]        | 26.4           | [18.2,36.8]        | 15.7        | [10.3,23.2]        | 100.0        |
| No (n=3,928)  | 45.7                      | [43.7,47.7]        | 6.4        | [5.4,7.4]        | 29.5           | [27.6,31.4]        | 18.5        | [17.0,20.1]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 5.8494                    |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.69, 10939.29) =                    | 1.2981                    | Pr =               | 0.274      |                  |                |                    |             |                    |              |
| <b>Chronic disease (HEDIS)</b>                      |                           |                    |            |                  |                |                    |             |                    |              |
| Chronic disease (HEDIS) (n=1,161)                   | 44.4                      | [40.9,48.0]        | 5.5        | [3.9,7.7]        | 28.1           | [25.0,31.5]        | 22.0        | [19.1,25.1]        | 100.0        |
| No chronic disease (n=2,923)                        | 46.6                      | [44.3,48.9]        | 6.5        | [5.5,7.7]        | 29.8           | [27.6,32.0]        | 17.1        | [15.4,19.0]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 12.6484                   |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.98, 12138.54) =                    | 2.6748                    | Pr =               | 0.046      |                  |                |                    |             |                    |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |                    |            |                  |                |                    |             |                    |              |
| MH/SA (HEDIS) (n=2,032)                             | 48.5                      | [45.7,51.2]        | 6.2        | [5.0,7.7]        | 27.2           | [24.7,29.8]        | 18.1        | [16.1,20.3]        | 100.0        |
| No MH/SA (n=2,052)                                  | 43.8                      | [41.0,46.6]        | 6.3        | [5.0,7.8]        | 31.3           | [28.8,34.0]        | 18.6        | [16.5,20.9]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 10.8740                   |                    |            |                  |                |                    |             |                    |              |
| Design-based F(3.00, 12207.99) =                    | 2.1720                    | Pr =               | 0.089      |                  |                |                    |             |                    |              |
| <b>Total (n=4,084)</b>                              | <b>46.1</b>               | <b>[44.1,48.0]</b> | <b>6.2</b> | <b>[5.4,7.3]</b> | <b>29.3</b>    | <b>[27.5,31.2]</b> | <b>18.4</b> | <b>[16.9,19.9]</b> | <b>100.0</b> |



### 3.32.4 Access to mental health care

Universe: All respondents

|   | Better/worse: mental health care |             |       |           |                |             |            |             |       |  |
|---|----------------------------------|-------------|-------|-----------|----------------|-------------|------------|-------------|-------|--|
|   | Better                           |             | Worse |           | About the same |             | Don't know |             | Total |  |
|   | Row%                             | 95%CI       | Row%  | 95%CI     | Row%           | 95%CI       | Row%       | 95%CI       | Row%  |  |
| <b>FPL category</b>                                 |                                  |             |       |           |                |             |            |             |       |  |
| 0-35% (n=1,597)                                     | 30.8                             | [28.0,33.7] | 3.3   | [2.4,4.5] | 24.3           | [21.6,27.2] | 41.7       | [38.6,44.7] | 100.0 |  |
| 36-99% (n=1,447)                                    | 25.9                             | [23.2,28.7] | 1.7   | [1.1,2.8] | 21.6           | [19.1,24.3] | 50.8       | [47.7,53.9] | 100.0 |  |
| ≥ 100% (n = 1,040)                                  | 21.3                             | [18.5,24.4] | 1.4   | [0.9,2.3] | 23.1           | [20.2,26.3] | 54.2       | [50.6,57.7] | 100.0 |  |
| Pearson: Uncorrected chi2(6) =                      | 60.4309                          |             |       |           |                |             |            |             |       |  |
| Design-based F(5.69, 23152.70) =                    | 7.7744                           |             | Pr =  | 0.000     |                |             |            |             |       |  |
| <b>Region</b>                                       |                                  |             |       |           |                |             |            |             |       |  |
| UP/NW/NE (n=746)                                    | 23.6                             | [20.3,27.3] | 2.5   | [1.5,4.1] | 27.7           | [24.1,31.6] | 46.2       | [42.2,50.3] | 100.0 |  |
| W/E Central/E (n=1,263)                             | 28.2                             | [25.5,31.2] | 2.3   | [1.4,3.5] | 22.1           | [19.5,24.9] | 47.4       | [44.3,50.6] | 100.0 |  |
| S Central/SW/SE (n=835)                             | 30.4                             | [26.8,34.2] | 2.8   | [1.8,4.4] | 24.1           | [20.5,28.1] | 42.7       | [38.7,46.8] | 100.0 |  |
| Detroit Metro (n=1,240)                             | 26.6                             | [23.6,29.9] | 2.4   | [1.6,3.8] | 22.8           | [19.9,26.0] | 48.1       | [44.7,51.6] | 100.0 |  |
| Pearson: Uncorrected chi2(9) =                      | 13.2713                          |             |       |           |                |             |            |             |       |  |
| Design-based F(7.92, 32251.56) =                    | 1.1410                           |             | Pr =  | 0.332     |                |             |            |             |       |  |
| <b>Low healthcare utilizers</b>                     |                                  |             |       |           |                |             |            |             |       |  |
| Yes (n=490)   | 24.2                             | [19.4,29.6] | 1.6   | [0.7,3.8] | 28.2           | [23.0,34.0] | 46.1       | [40.4,51.9] | 100.0 |  |
| No (n=3,594)  | 28.1                             | [26.3,30.0] | 2.6   | [2.0,3.4] | 22.4           | [20.7,24.2] | 46.9       | [44.8,48.9] | 100.0 |  |
| Pearson: Uncorrected chi2(3) =                      | 13.1065                          |             |       |           |                |             |            |             |       |  |
| Design-based F(2.99, 12158.38) =                    | 2.0583                           |             | Pr =  | 0.104     |                |             |            |             |       |  |
| <b>High ER utilizers</b>                            |                                  |             |       |           |                |             |            |             |       |  |
| Yes (n=156)   | 41.0                             | [31.6,51.1] | 3.2   | [1.3,7.4] | 20.6           | [14.2,28.9] | 35.3       | [25.9,46.0] | 100.0 |  |
| No (n=3,928)  | 26.9                             | [25.1,28.7] | 2.4   | [1.9,3.1] | 23.4           | [21.7,25.2] | 47.3       | [45.3,49.3] | 100.0 |  |
| Pearson: Uncorrected chi2(3) =                      | 18.7539                          |             |       |           |                |             |            |             |       |  |
| Design-based F(2.83, 11517.18) =                    | 3.8587                           |             | Pr =  | 0.010     |                |             |            |             |       |  |
| <b>Chronic disease (HEDIS)</b>                      |                                  |             |       |           |                |             |            |             |       |  |
| Chronic disease (HEDIS) (n=1,161)                   | 26.1                             | [23.1,29.3] | 2.2   | [1.4,3.4] | 23.3           | [20.3,26.6] | 48.5       | [44.9,52.1] | 100.0 |  |
| No chronic disease (n=2,923)                        | 28.0                             | [25.9,30.2] | 2.6   | [1.9,3.4] | 23.3           | [21.3,25.4] | 46.2       | [43.9,48.5] | 100.0 |  |
| Pearson: Uncorrected chi2(3) =                      | 2.3696                           |             |       |           |                |             |            |             |       |  |
| Design-based F(2.98, 12145.29) =                    | 0.5490                           |             | Pr =  | 0.648     |                |             |            |             |       |  |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                  |             |       |           |                |             |            |             |       |  |
| MH/SA (HEDIS) (n=2,031)                             | 39.1                             | [36.5,41.8] | 4.0   | [3.0,5.2] | 24.5           | [22.1,27.0] | 32.5       | [30.0,35.1] | 100.0 |  |
| No MH/SA (n=2,053)                                  | 16.7                             | [14.5,19.1] | 1.1   | [0.6,1.8] | 22.2           | [19.8,24.7] | 60.1       | [57.2,62.8] | 100.0 |  |
| Pearson: Uncorrected chi2(3) =                      | 389.1020                         |             |       |           |                |             |            |             |       |  |
| Design-based F(2.99, 12184.38) =                    | 73.6091                          |             | Pr =  | 0.000     |                |             |            |             |       |  |
| <b>Total (n=4,084)</b>                              | 27.5                             | [25.8,29.3] | 2.5   | [1.9,3.2] | 23.3           | [21.6,25.0] | 46.7       | [44.8,48.7] | 100.0 |  |

### 3.32.5 Access to substance use treatment services

Universe: All respondents

|   | Better/worse: substance use treatment |                   |            |                  |                |                   |             |                    |              |
|---|---------------------------------------|-------------------|------------|------------------|----------------|-------------------|-------------|--------------------|--------------|
|   | Better                                |                   | Worse      |                  | About the same |                   | Don't know  |                    | Total        |
|   | Row%                                  | 95%CI             | Row%       | 95%CI            | Row%           | 95%CI             | Row%        | 95%CI              | Row%         |
| <b>FPL category</b>                                 |                                       |                   |            |                  |                |                   |             |                    |              |
| 0-35% (n=1,596)                                     | 13.0                                  | [11.0,15.4]       | 0.2        | [0.1,0.6]        | 10.9           | [9.0,13.2]        | 75.8        | [72.9,78.5]        | 100.0        |
| 36-99% (n=1,448)                                    | 6.6                                   | [5.3,8.2]         | 0.2        | [0.1,0.7]        | 7.0            | [5.5,8.9]         | 86.2        | [83.9,88.2]        | 100.0        |
| ≥ 100% (n = 1,039)                                  | 5.7                                   | [4.2,7.8]         | 0.2        | [0.0,1.1]        | 8.3            | [6.5,10.6]        | 85.8        | [83.0,88.2]        | 100.0        |
| Pearson: Uncorrected chi2(6) =                      | 75.2415                               |                   |            |                  |                |                   |             |                    |              |
| Design-based F(5.80, 23627.54) =                    | 9.5893                                |                   | Pr =       | 0.000            |                |                   |             |                    |              |
| <b>Region</b>                                       |                                       |                   |            |                  |                |                   |             |                    |              |
| UP/NW/NE (n=746)                                    | 7.0                                   | [5.2,9.2]         | 0.1        | [0.0,0.6]        | 9.3            | [7.1,12.1]        | 83.6        | [80.3,86.4]        | 100.0        |
| W/E Central/E (n=1,263)                             | 10.8                                  | [8.8,13.1]        | 0.6        | [0.2,1.4]        | 8.0            | [6.4,10.1]        | 80.6        | [77.8,83.2]        | 100.0        |
| S Central/SW/SE (n=835)                             | 10.0                                  | [7.5,13.0]        | 0.2        | [0.0,0.9]        | 9.7            | [7.4,12.6]        | 80.1        | [76.4,83.4]        | 100.0        |
| Detroit Metro (n=1,239)                             | 9.6                                   | [7.6,12.0]        | 0.0        |                  | 10.0           | [7.9,12.5]        | 80.4        | [77.3,83.2]        | 100.0        |
| Pearson: Uncorrected chi2(9) =                      | 18.2100                               |                   |            |                  |                |                   |             |                    |              |
| Design-based F(7.32, 29781.49) =                    | 1.6335                                |                   | Pr =       | 0.117            |                |                   |             |                    |              |
| <b>Low healthcare utilizers</b>                     |                                       |                   |            |                  |                |                   |             |                    |              |
| Yes (n=490)   | 15.1                                  | [11.0,20.4]       | 0.2        | [0.0,1.7]        | 14.6           | [10.6,19.8]       | 70.0        | [64.0,75.4]        | 100.0        |
| No (n=3,593)  | 8.8                                   | [7.7,10.1]        | 0.2        | [0.1,0.5]        | 8.4            | [7.2,9.7]         | 82.6        | [80.9,84.2]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 54.2015                               |                   |            |                  |                |                   |             |                    |              |
| Design-based F(2.85, 11596.22) =                    | 8.5143                                |                   | Pr =       | 0.000            |                |                   |             |                    |              |
| <b>High ER utilizers</b>                            |                                       |                   |            |                  |                |                   |             |                    |              |
| Yes (n=156)   | 20.6                                  | [13.3,30.5]       | 0.0        |                  | 10.6           | [5.0,21.2]        | 68.8        | [57.9,77.9]        | 100.0        |
| No (n=3,927)  | 9.3                                   | [8.1,10.6]        | 0.2        | [0.1,0.5]        | 9.2            | [8.1,10.6]        | 81.3        | [79.6,82.9]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 26.9392                               |                   |            |                  |                |                   |             |                    |              |
| Design-based F(2.69, 10968.16) =                    | 4.3393                                |                   | Pr =       | 0.006            |                |                   |             |                    |              |
| <b>Chronic disease (HEDIS)</b>                      |                                       |                   |            |                  |                |                   |             |                    |              |
| Chronic disease (HEDIS) (n=1,161)                   | 8.4                                   | [6.7,10.6]        | 0.3        | [0.1,1.0]        | 7.8            | [6.2,9.9]         | 83.4        | [80.7,85.8]        | 100.0        |
| No chronic disease (n=2,922)                        | 10.2                                  | [8.8,11.9]        | 0.2        | [0.1,0.4]        | 9.8            | [8.4,11.5]        | 79.8        | [77.7,81.8]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 7.8338                                |                   |            |                  |                |                   |             |                    |              |
| Design-based F(2.97, 12109.73) =                    | 1.9101                                |                   | Pr =       | 0.126            |                |                   |             |                    |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                       |                   |            |                  |                |                   |             |                    |              |
| MH/SA (HEDIS) (n=2,032)                             | 13.9                                  | [12.0,16.0]       | 0.2        | [0.1,0.6]        | 9.3            | [7.6,11.3]        | 76.6        | [74.0,79.0]        | 100.0        |
| No MH/SA (n=2,051)                                  | 5.9                                   | [4.6,7.6]         | 0.2        | [0.1,0.6]        | 9.3            | [7.8,11.2]        | 84.6        | [82.3,86.6]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 74.5671                               |                   |            |                  |                |                   |             |                    |              |
| Design-based F(2.86, 11646.94) =                    | 14.2016                               |                   | Pr =       | 0.000            |                |                   |             |                    |              |
| <b>Total (n=4,083)</b>                              | <b>9.8</b>                            | <b>[8.6,11.1]</b> | <b>0.2</b> | <b>[0.1,0.4]</b> | <b>9.3</b>     | <b>[8.1,10.6]</b> | <b>80.7</b> | <b>[79.0,82.3]</b> | <b>100.0</b> |

### 3.32.6 Access to prescription medications

Universe: All respondents

|   | Better/worse: prescription meds |                    |            |                  |                |                    |             |                    |              |  |
|---|---------------------------------|--------------------|------------|------------------|----------------|--------------------|-------------|--------------------|--------------|--|
|   | Better                          |                    | Worse      |                  | About the same |                    | Don't know  |                    | Total        |  |
|   | Row%                            | 95%CI              | Row%       | 95%CI            | Row%           | 95%CI              | Row%        | 95%CI              | Row%         |  |
| <b>FPL category</b>                                 |                                 |                    |            |                  |                |                    |             |                    |              |  |
| 0-35% (n=1,597)                                     | 60.2                            | [57.0,63.2]        | 3.1        | [2.2,4.4]        | 25.9           | [23.2,28.8]        | 10.8        | [9.0,12.9]         | 100.0        |  |
| 36-99% (n=1,448)                                    | 59.5                            | [56.4,62.5]        | 3.0        | [2.1,4.3]        | 25.2           | [22.6,28.0]        | 12.3        | [10.3,14.5]        | 100.0        |  |
| ≥ 100% (n = 1,040)                                  | 56.8                            | [53.2,60.3]        | 3.2        | [2.1,4.9]        | 26.9           | [23.9,30.3]        | 13.0        | [10.7,15.7]        | 100.0        |  |
| Pearson: Uncorrected chi2(6) =                      | 4.6962                          |                    |            |                  |                |                    |             |                    |              |  |
| Design-based F(5.82, 23720.99) =                    | 0.5536                          |                    | Pr =       | 0.762            |                |                    |             |                    |              |  |
| <b>Region</b>                                       |                                 |                    |            |                  |                |                    |             |                    |              |  |
| UP/NW/NE (n=746)                                    | 56.6                            | [52.4,60.7]        | 4.6        | [3.0,6.9]        | 24.8           | [21.3,28.5]        | 14.0        | [11.2,17.5]        | 100.0        |  |
| W/E Central/E (n=1,264)                             | 61.2                            | [58.0,64.3]        | 2.8        | [2.0,4.1]        | 24.7           | [21.9,27.6]        | 11.3        | [9.4,13.6]         | 100.0        |  |
| S Central/SW/SE (n=835)                             | 59.1                            | [55.0,63.2]        | 3.2        | [2.1,4.8]        | 26.1           | [22.7,29.9]        | 11.5        | [8.9,14.8]         | 100.0        |  |
| Detroit Metro (n=1,240)                             | 58.7                            | [55.2,62.1]        | 2.9        | [1.9,4.5]        | 26.9           | [23.9,30.2]        | 11.4        | [9.5,13.7]         | 100.0        |  |
| Pearson: Uncorrected chi2(9) =                      | 8.0187                          |                    |            |                  |                |                    |             |                    |              |  |
| Design-based F(8.14, 33137.09) =                    | 0.6682                          |                    | Pr =       | 0.723            |                |                    |             |                    |              |  |
| <b>Low healthcare utilizers</b>                     |                                 |                    |            |                  |                |                    |             |                    |              |  |
| Yes (n=490)   | 39.1                            | [33.5,45.0]        | 1.5        | [0.7,3.1]        | 26.8           | [21.9,32.4]        | 32.6        | [27.5,38.1]        | 100.0        |  |
| No (n=3,595)  | 63.0                            | [60.9,65.0]        | 3.4        | [2.7,4.3]        | 25.8           | [24.0,27.7]        | 7.9         | [6.9,9.0]          | 100.0        |  |
| Pearson: Uncorrected chi2(3) =                      | 335.3246                        |                    |            |                  |                |                    |             |                    |              |  |
| Design-based F(2.88, 11718.26) =                    | 61.6022                         |                    | Pr =       | 0.000            |                |                    |             |                    |              |  |
| <b>High ER utilizers</b>                            |                                 |                    |            |                  |                |                    |             |                    |              |  |
| Yes (n=156)   | 72.9                            | [63.5,80.6]        | 3.3        | [1.3,8.1]        | 17.1           | [11.2,25.2]        | 6.7         | [3.0,14.6]         | 100.0        |  |
| No (n=3,929)  | 58.7                            | [56.7,60.7]        | 3.1        | [2.5,3.9]        | 26.3           | [24.6,28.2]        | 11.9        | [10.6,13.2]        | 100.0        |  |
| Pearson: Uncorrected chi2(3) =                      | 15.4558                         |                    |            |                  |                |                    |             |                    |              |  |
| Design-based F(2.89, 11764.92) =                    | 3.0031                          |                    | Pr =       | 0.031            |                |                    |             |                    |              |  |
| <b>Chronic disease (HEDIS)</b>                      |                                 |                    |            |                  |                |                    |             |                    |              |  |
| Chronic disease (HEDIS) (n=1,161)                   | 66.9                            | [63.4,70.3]        | 4.9        | [3.3,7.1]        | 24.9           | [21.8,28.2]        | 3.3         | [2.3,4.8]          | 100.0        |  |
| No chronic disease (n=2,924)                        | 56.8                            | [54.4,59.1]        | 2.5        | [1.9,3.3]        | 26.3           | [24.2,28.4]        | 14.4        | [12.9,16.1]        | 100.0        |  |
| Pearson: Uncorrected chi2(3) =                      | 109.5390                        |                    |            |                  |                |                    |             |                    |              |  |
| Design-based F(2.97, 12080.94) =                    | 23.7830                         |                    | Pr =       | 0.000            |                |                    |             |                    |              |  |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                 |                    |            |                  |                |                    |             |                    |              |  |
| MH/SA (HEDIS) (n=2,032)                             | 66.1                            | [63.4,68.7]        | 3.8        | [2.9,5.0]        | 24.2           | [21.8,26.7]        | 5.9         | [4.7,7.3]          | 100.0        |  |
| No MH/SA (n=2,053)                                  | 53.0                            | [50.2,55.8]        | 2.4        | [1.7,3.5]        | 27.6           | [25.1,30.2]        | 17.0        | [15.0,19.2]        | 100.0        |  |
| Pearson: Uncorrected chi2(3) =                      | 148.3825                        |                    |            |                  |                |                    |             |                    |              |  |
| Design-based F(3.00, 12202.38) =                    | 29.6408                         |                    | Pr =       | 0.000            |                |                    |             |                    |              |  |
| <b>Total (n=4,085)</b>                              | <b>59.3</b>                     | <b>[57.4,61.3]</b> | <b>3.1</b> | <b>[2.5,3.9]</b> | <b>25.9</b>    | <b>[24.2,27.7]</b> | <b>11.6</b> | <b>[10.4,13.0]</b> | <b>100.0</b> |  |

### 3.32.7 Access to cancer screenings

Universe: All respondents

|   | Better/worse: cancer screening |                    |            |                  |                |                    |             |                    |              |
|---|--------------------------------|--------------------|------------|------------------|----------------|--------------------|-------------|--------------------|--------------|
|   | Better                         |                    | Worse      |                  | About the same |                    | Don't know  |                    | Total        |
|   | Row%                           | 95%CI              | Row%       | 95%CI            | Row%           | 95%CI              | Row%        | 95%CI              | Row%         |
| <b>FPL category</b>                                 |                                |                    |            |                  |                |                    |             |                    |              |
| 0-35% (n=1,597)                                     | 25.6                           | [23.1,28.3]        | 0.6        | [0.3,1.4]        | 14.4           | [12.4,16.7]        | 59.3        | [56.3,62.3]        | 100.0        |
| 36-99% (n=1,447)                                    | 26.8                           | [24.2,29.6]        | 0.7        | [0.4,1.3]        | 15.2           | [12.9,17.8]        | 57.3        | [54.1,60.3]        | 100.0        |
| ≥ 100% (n = 1,040)                                  | 24.6                           | [21.7,27.6]        | 0.3        | [0.1,0.8]        | 16.3           | [14.0,19.0]        | 58.8        | [55.3,62.2]        | 100.0        |
| Pearson: Uncorrected chi2(6) =                      | 4.3800                         |                    |            |                  |                |                    |             |                    |              |
| Design-based F(5.51, 22447.73) =                    | 0.5979                         | Pr =               | 0.718      |                  |                |                    |             |                    |              |
| <b>Region</b>                                       |                                |                    |            |                  |                |                    |             |                    |              |
| UP/NW/NE (n=745)                                    | 22.8                           | [19.7,26.3]        | 1.2        | [0.6,2.4]        | 15.3           | [12.7,18.4]        | 60.7        | [56.7,64.5]        | 100.0        |
| W/E Central/E (n=1,264)                             | 26.0                           | [23.4,28.8]        | 0.5        | [0.2,1.2]        | 13.6           | [11.5,15.9]        | 59.9        | [56.7,62.9]        | 100.0        |
| S Central/SW/SE (n=835)                             | 24.4                           | [21.1,28.1]        | 0.4        | [0.1,1.3]        | 12.9           | [10.6,15.7]        | 62.3        | [58.3,66.1]        | 100.0        |
| Detroit Metro (n=1,240)                             | 26.7                           | [23.9,29.8]        | 0.6        | [0.2,1.5]        | 16.8           | [14.4,19.5]        | 55.9        | [52.4,59.3]        | 100.0        |
| Pearson: Uncorrected chi2(9) =                      | 17.2725                        |                    |            |                  |                |                    |             |                    |              |
| Design-based F(8.01, 32625.36) =                    | 1.6029                         | Pr =               | 0.118      |                  |                |                    |             |                    |              |
| <b>Low healthcare utilizers</b>                     |                                |                    |            |                  |                |                    |             |                    |              |
| Yes (n=490)   | 18.5                           | [14.2,23.7]        | 0.0        | [0.0,0.3]        | 14.5           | [10.7,19.4]        | 67.0        | [61.1,72.4]        | 100.0        |
| No (n=3,594)  | 27.1                           | [25.3,28.9]        | 0.7        | [0.4,1.1]        | 15.1           | [13.7,16.6]        | 57.1        | [55.1,59.2]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 27.7656                        |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.25, 9143.28) =                     | 5.6906                         | Pr =               | 0.002      |                  |                |                    |             |                    |              |
| <b>High ER utilizers</b>                            |                                |                    |            |                  |                |                    |             |                    |              |
| Yes (n=156)   | 20.2                           | [14.1,28.1]        | 1.8        | [0.2,11.3]       | 10.4           | [6.5,16.3]         | 67.7        | [58.5,75.6]        | 100.0        |
| No (n=3,928)  | 26.0                           | [24.3,27.8]        | 0.5        | [0.3,0.9]        | 15.2           | [13.8,16.7]        | 58.2        | [56.2,60.2]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 11.8637                        |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.57, 10452.11) =                    | 2.1267                         | Pr =               | 0.105      |                  |                |                    |             |                    |              |
| <b>Chronic disease (HEDIS)</b>                      |                                |                    |            |                  |                |                    |             |                    |              |
| Chronic disease (HEDIS) (n=1,160)                   | 29.0                           | [26.0,32.3]        | 0.8        | [0.3,1.9]        | 17.1           | [14.6,19.8]        | 53.1        | [49.6,56.7]        | 100.0        |
| No chronic disease (n=2,924)                        | 24.6                           | [22.7,26.7]        | 0.5        | [0.3,1.0]        | 14.3           | [12.7,16.1]        | 60.5        | [58.2,62.7]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 17.4330                        |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.98, 12126.89) =                    | 3.8869                         | Pr =               | 0.009      |                  |                |                    |             |                    |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                |                    |            |                  |                |                    |             |                    |              |
| MH/SA (HEDIS) (n=2,031)                             | 27.5                           | [25.1,29.9]        | 1.1        | [0.6,1.9]        | 15.0           | [13.1,17.2]        | 56.4        | [53.6,59.1]        | 100.0        |
| No MH/SA (n=2,053)                                  | 24.2                           | [21.9,26.6]        | 0.1        | [0.1,0.3]        | 15.0           | [13.1,17.0]        | 60.7        | [58.0,63.4]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 24.0160                        |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.68, 10905.27) =                    | 6.2227                         | Pr =               | 0.001      |                  |                |                    |             |                    |              |
| <b>Total (n=4,084)</b>                              | <b>25.7</b>                    | <b>[24.1,27.5]</b> | <b>0.6</b> | <b>[0.4,1.0]</b> | <b>15.0</b>    | <b>[13.7,16.5]</b> | <b>58.6</b> | <b>[56.7,60.5]</b> | <b>100.0</b> |

### 3.32.8 Access to preventive care

Universe: All respondents

|   | Better/worse: prevention |                    |            |                  |                |                    |             |                    |              |
|---|--------------------------|--------------------|------------|------------------|----------------|--------------------|-------------|--------------------|--------------|
|   | Better                   |                    | Worse      |                  | About the same |                    | Don't know  |                    | Total        |
|   | Row%                     | 95%CI              | Row%       | 95%CI            | Row%           | 95%CI              | Row%        | 95%CI              | Row%         |
| <b>FPL category</b>                                 |                          |                    |            |                  |                |                    |             |                    |              |
| 0-35% (n=1,597)                                     | 53.9                     | [50.8,57.0]        | 1.2        | [0.7,1.9]        | 30.4           | [27.6,33.4]        | 14.5        | [12.4,16.9]        | 100.0        |
| 36-99% (n=1,447)                                    | 50.8                     | [47.7,53.9]        | 1.2        | [0.7,1.9]        | 33.7           | [30.9,36.7]        | 14.3        | [12.3,16.6]        | 100.0        |
| ≥ 100% (n = 1,040)                                  | 48.6                     | [45.0,52.1]        | 0.6        | [0.3,1.4]        | 36.0           | [32.7,39.5]        | 14.8        | [12.3,17.7]        | 100.0        |
| Pearson: Uncorrected chi2(6) =                      | 12.0421                  |                    |            |                  |                |                    |             |                    |              |
| Design-based F(5.73, 23322.70) =                    | 1.5689                   | Pr =               | 0.155      |                  |                |                    |             |                    |              |
| <b>Region</b>                                       |                          |                    |            |                  |                |                    |             |                    |              |
| UP/NW/NE (n=746)                                    | 50.3                     | [46.2,54.4]        | 1.8        | [1.0,3.2]        | 34.3           | [30.4,38.3]        | 13.7        | [11.0,16.9]        | 100.0        |
| W/E Central/E (n=1,264)                             | 50.4                     | [47.2,53.6]        | 1.3        | [0.7,2.1]        | 33.4           | [30.4,36.5]        | 14.9        | [12.7,17.5]        | 100.0        |
| S Central/SW/SE (n=834)                             | 50.6                     | [46.4,54.7]        | 1.1        | [0.5,2.1]        | 32.8           | [29.2,36.7]        | 15.6        | [12.9,18.6]        | 100.0        |
| Detroit Metro (n=1,240)                             | 53.9                     | [50.4,57.4]        | 0.8        | [0.4,1.6]        | 31.4           | [28.2,34.7]        | 14.0        | [11.7,16.6]        | 100.0        |
| Pearson: Uncorrected chi2(9) =                      | 8.3536                   |                    |            |                  |                |                    |             |                    |              |
| Design-based F(8.02, 32640.02) =                    | 0.7586                   | Pr =               | 0.640      |                  |                |                    |             |                    |              |
| <b>Low healthcare utilizers</b>                     |                          |                    |            |                  |                |                    |             |                    |              |
| Yes (n=490)   | 40.3                     | [34.6,46.3]        | 0.6        | [0.2,1.5]        | 34.2           | [29.0,39.8]        | 24.9        | [20.4,30.1]        | 100.0        |
| No (n=3,594)  | 54.1                     | [52.0,56.1]        | 1.1        | [0.8,1.6]        | 32.2           | [30.3,34.1]        | 12.6        | [11.3,14.1]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 76.4168                  |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.65, 10782.59) =                    | 15.4800                  | Pr =               | 0.000      |                  |                |                    |             |                    |              |
| <b>High ER utilizers</b>                            |                          |                    |            |                  |                |                    |             |                    |              |
| Yes (n=156)   | 60.8                     | [50.1,70.5]        | 2.9        | [0.8,10.1]       | 20.0           | [12.7,30.2]        | 16.3        | [9.6,26.4]         | 100.0        |
| No (n=3,928)  | 51.6                     | [49.5,53.6]        | 1.0        | [0.7,1.3]        | 33.1           | [31.2,35.0]        | 14.4        | [13.1,15.9]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 18.0928                  |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.99, 12161.41) =                    | 2.7020                   | Pr =               | 0.044      |                  |                |                    |             |                    |              |
| <b>Chronic disease (HEDIS)</b>                      |                          |                    |            |                  |                |                    |             |                    |              |
| Chronic disease (HEDIS) (n=1,161)                   | 59.2                     | [55.6,62.7]        | 1.3        | [0.6,2.5]        | 30.9           | [27.7,34.3]        | 8.6         | [6.8,10.9]         | 100.0        |
| No chronic disease (n=2,923)                        | 49.5                     | [47.2,51.9]        | 1.0        | [0.7,1.4]        | 33.0           | [30.8,35.2]        | 16.5        | [14.8,18.3]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 48.3969                  |                    |            |                  |                |                    |             |                    |              |
| Design-based F(3.00, 12206.76) =                    | 11.0230                  | Pr =               | 0.000      |                  |                |                    |             |                    |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                          |                    |            |                  |                |                    |             |                    |              |
| MH/SA (HEDIS) (n=2,031)                             | 55.9                     | [53.1,58.6]        | 1.7        | [1.2,2.5]        | 30.9           | [28.3,33.5]        | 11.6        | [9.8,13.5]         | 100.0        |
| No MH/SA (n=2,053)                                  | 48.3                     | [45.5,51.1]        | 0.4        | [0.2,0.8]        | 34.0           | [31.4,36.6]        | 17.3        | [15.3,19.5]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 52.7650                  |                    |            |                  |                |                    |             |                    |              |
| Design-based F(2.87, 11699.53) =                    | 11.9614                  | Pr =               | 0.000      |                  |                |                    |             |                    |              |
| <b>Total (n=4,084)</b>                              | <b>52.0</b>              | <b>[50.0,53.9]</b> | <b>1.1</b> | <b>[0.8,1.5]</b> | <b>32.5</b>    | <b>[30.7,34.3]</b> | <b>14.5</b> | <b>[13.2,16.0]</b> | <b>100.0</b> |

### 3.32.9 Access to birth control/family planning services

Universe: All respondents

|   | Better/worse: birth control/family planning |             |       |            |                |             |            |             |       |
|---|---|-------------|-------|------------|----------------|-------------|------------|-------------|-------|
|   | Better                                      |             | Worse |            | About the same |             | Don't know |             | Total |
|   | Row%  | 95%CI       | Row%  | 95%CI      | Row%           | 95%CI       | Row%       | 95%CI       | Row%  |
| <b>FPL category</b>                                 |   |             |       |            |                |             |            |             |       |
| 0-35% (n=1,595)                                     | 15.1  | [12.8,17.7] | 0.6   | [0.3,1.2]  | 10.3           | [8.4,12.5]  | 74.1       | [71.1,76.9] | 100.0 |
| 36-99% (n=1,448)                                    | 17.1  | [14.8,19.8] | 0.2   | [0.1,0.6]  | 14.2           | [12.2,16.6] | 68.4       | [65.4,71.3] | 100.0 |
| ≥ 100% (n = 1,039)                                  | 17.3  | [14.7,20.3] | 0.6   | [0.3,1.6]  | 15.4           | [12.9,18.2] | 66.7       | [63.2,70.0] | 100.0 |
| Pearson: Uncorrected chi2(6) =                      | 28.5656                                     |             |       |            |                |             |            |             |       |
| Design-based F(5.61, 22832.27) =                    | 3.3966                                      | Pr =        | 0.003 |            |                |             |            |             |       |
| <b>Region</b>                                       |   |             |       |            |                |             |            |             |       |
| UP/NW/NE (n=746)                                    | 13.8  | [11.1,17.1] | 0.9   | [0.3,2.7]  | 12.9           | [10.4,16.1] | 72.3       | [68.4,76.0] | 100.0 |
| W/E Central/E (n=1,263)                             | 14.9  | [12.8,17.4] | 0.5   | [0.2,1.3]  | 11.4           | [9.5,13.7]  | 73.1       | [70.2,75.9] | 100.0 |
| S Central/SW/SE (n=835)                             | 16.7  | [13.4,20.5] | 0.4   | [0.1,1.4]  | 12.7           | [10.2,15.7] | 70.3       | [66.1,74.1] | 100.0 |
| Detroit Metro (n=1,238)                             | 17.1  | [14.6,20.0] | 0.4   | [0.1,1.1]  | 12.8           | [10.6,15.4] | 69.7       | [66.3,72.9] | 100.0 |
| Pearson: Uncorrected chi2(9) =                      | 8.1213                                      |             |       |            |                |             |            |             |       |
| Design-based F(8.24, 33543.41) =                    | 0.6474                                      | Pr =        | 0.743 |            |                |             |            |             |       |
| <b>Low healthcare utilizers</b>                     |   |             |       |            |                |             |            |             |       |
| Yes (n=490)   | 17.8  | [13.2,23.5] | 0.4   | [0.1,1.7]  | 14.4           | [10.7,19.2] | 67.4       | [61.4,73.0] | 100.0 |
| No (n=3,592)  | 15.8  | [14.3,17.4] | 0.5   | [0.3,0.9]  | 12.0           | [10.7,13.5] | 71.7       | [69.7,73.5] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 5.0232                                      |             |       |            |                |             |            |             |       |
| Design-based F(2.79, 11372.01) =                    | 0.8037                                      | Pr =        | 0.484 |            |                |             |            |             |       |
| <b>High ER utilizers</b>                            |   |             |       |            |                |             |            |             |       |
| Yes (n=156)   | 27.5  | [19.3,37.5] | 2.5   | [0.6,10.4] | 13.5           | [8.0,21.8]  | 56.6       | [46.4,66.2] | 100.0 |
| No (n=3,926)  | 15.6  | [14.1,17.2] | 0.4   | [0.2,0.7]  | 12.4           | [11.1,13.8] | 71.7       | [69.8,73.5] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 37.5599                                     |             |       |            |                |             |            |             |       |
| Design-based F(2.97, 12107.04) =                    | 6.1566                                      | Pr =        | 0.000 |            |                |             |            |             |       |
| <b>Chronic disease (HEDIS)</b>                      |   |             |       |            |                |             |            |             |       |
| Chronic disease (HEDIS) (n=1,160)                   | 9.1   | [7.2,11.5]  | 0.4   | [0.1,1.9]  | 8.6            | [6.8,10.9]  | 81.9       | [78.9,84.6] | 100.0 |
| No chronic disease (n=2,922)                        | 18.5  | [16.6,20.4] | 0.5   | [0.3,0.9]  | 13.7           | [12.1,15.4] | 67.4       | [65.1,69.6] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 80.9489                                     |             |       |            |                |             |            |             |       |
| Design-based F(2.86, 11620.15) =                    | 14.9957                                     | Pr =        | 0.000 |            |                |             |            |             |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |             |       |            |                |             |            |             |       |
| MH/SA (HEDIS) (n=2,030)                             | 16.0  | [14.0,18.2] | 0.6   | [0.2,1.2]  | 11.2           | [9.6,13.2]  | 72.2       | [69.6,74.7] | 100.0 |
| No MH/SA (n=2,052)                                  | 16.2  | [14.1,18.6] | 0.4   | [0.2,0.8]  | 13.5           | [11.7,15.5] | 69.9       | [67.2,72.5] | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 5.5575                                      |             |       |            |                |             |            |             |       |
| Design-based F(2.97, 12105.56) =                    | 1.1104                                      | Pr =        | 0.343 |            |                |             |            |             |       |
| <b>Total (n=4,082)</b>                              | 16.1  | [14.6,17.7] | 0.5   | [0.3,0.8]  | 12.4           | [11.1,13.8] | 71.0       | [69.1,72.8] | 100.0 |

### 3.33 Q: The amount I might have to pay for my prescription influences my decisions about filling prescriptions.

Universe: All respondents

|   | HMP: prescription price impacts decision to fill |             |       |             |         |            |          |             |                   |           |            |           | Total<br>Row% |
|---|--|-------------|-------|-------------|---------|------------|----------|-------------|-------------------|-----------|------------|-----------|---------------|
|   | Strongly agree                                   |             | Agree |             | Neutral |            | Disagree |             | Strongly disagree |           | Don't know |           |               |
|   | Row%   | 95%CI       | Row%  | 95%CI       | Row%    | 95%CI      | Row%     | 95%CI       | Row%              | 95%CI     | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |  |             |       |             |         |            |          |             |                   |           |            |           |               |
| 0-35% (n=1,597)                                     | 16.7   | [14.5,19.2] | 43.1  | [40.0,46.2] | 6.8     | [5.4,8.4]  | 27.5     | [24.8,30.3] | 3.6               | [2.7,4.9] | 2.4        | [1.6,3.5] | 100.0         |
| 36-99% (n=1,448)                                    | 16.1   | [13.9,18.5] | 43.4  | [40.3,46.5] | 7.0     | [5.4,8.9]  | 27.1     | [24.4,30.0] | 3.6               | [2.6,4.9] | 2.9        | [2.0,4.2] | 100.0         |
| ≥ 100% (n = 1, 039)                                 | 12.3   | [10.2,14.9] | 43.2  | [39.7,46.8] | 7.5     | [5.8,9.5]  | 30.5     | [27.3,33.9] | 2.9               | [2.1,4.1] | 3.6        | [2.5,5.1] | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 14.4814  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Design-based F(9.56, 38934.97) =                    | 1.0996   |             | Pr =  | 0.358       |         |            |          |             |                   |           |            |           |               |
| <b>Region</b>                                       |  |             |       |             |         |            |          |             |                   |           |            |           |               |
| UP/NW/NE (n=745)                                    | 16.1   | [13.3,19.4] | 41.4  | [37.4,45.5] | 7.5     | [5.6,9.9]  | 27.9     | [24.4,31.7] | 3.5               | [2.3,5.5] | 3.5        | [2.3,5.5] | 100.0         |
| W/E Central/E (n=1,263)                             | 16.2   | [13.9,18.9] | 41.0  | [37.9,44.2] | 7.4     | [5.9,9.4]  | 29.3     | [26.5,32.4] | 3.3               | [2.4,4.5] | 2.7        | [1.9,3.9] | 100.0         |
| S Central/SW/SE (n=836)                             | 16.7   | [13.9,20.0] | 42.4  | [38.3,46.5] | 7.3     | [5.4,9.8]  | 26.8     | [23.5,30.4] | 3.5               | [2.3,5.2] | 3.3        | [1.8,6.1] | 100.0         |
| Detroit Metro (n=1,240)                             | 14.8   | [12.4,17.4] | 45.3  | [41.8,48.8] | 6.4     | [4.9,8.2]  | 27.6     | [24.6,30.8] | 3.6               | [2.6,5.0] | 2.4        | [1.7,3.4] | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 10.8949  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Design-based F(13.14, 53505.34) =                   | 0.5665   |             | Pr =  | 0.884       |         |            |          |             |                   |           |            |           |               |
| <b>Low healthcare utilizers</b>                     |  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Yes (n=490)   | 14.1   | [10.4,18.9] | 47.8  | [42.0,53.7] | 7.0     | [4.8,10.1] | 24.5     | [20.1,29.6] | 2.1               | [1.2,3.7] | 4.4        | [2.4,7.9] | 100.0         |
| No (n=3,594)  | 15.9   | [14.5,17.5] | 42.3  | [40.3,44.4] | 6.9     | [6.0,8.1]  | 28.6     | [26.8,30.5] | 3.7               | [3.0,4.6] | 2.5        | [2.0,3.1] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 18.6982  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Design-based F(4.72, 19237.35) =                    | 2.0037   |             | Pr =  | 0.079       |         |            |          |             |                   |           |            |           |               |
| <b>High ER utilizers</b>                            |  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Yes (n=156)   | 11.8   | [7.3,18.7]  | 46.6  | [36.8,56.7] | 1.7     | [0.6,4.6]  | 34.7     | [25.6,45.2] | 2.4               | [0.7,7.4] | 2.7        | [1.2,6.2] | 100.0         |
| No (n=3,928)  | 15.8   | [14.4,17.4] | 43.0  | [41.0,45.0] | 7.2     | [6.2,8.3]  | 27.7     | [25.9,29.5] | 3.5               | [2.9,4.3] | 2.8        | [2.2,3.5] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 13.4130  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Design-based F(4.51, 18350.02) =                    | 1.9662   |             | Pr =  | 0.088       |         |            |          |             |                   |           |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Chronic disease (HEDIS) (n=1,158)                   | 15.6   | [13.2,18.4] | 43.7  | [40.2,47.3] | 5.5     | [4.0,7.3]  | 27.7     | [24.7,31.0] | 4.4               | [3.2,6.0] | 3.1        | [2.1,4.4] | 100.0         |
| No chronic disease (n=2,926)                        | 15.7   | [14.0,17.5] | 43.0  | [40.7,45.3] | 7.5     | [6.3,8.7]  | 28.1     | [26.0,30.2] | 3.2               | [2.5,4.0] | 2.7        | [2.0,3.5] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 8.2822   |             |       |             |         |            |          |             |                   |           |            |           |               |
| Design-based F(4.98, 20288.37) =                    | 1.1965   |             | Pr =  | 0.308       |         |            |          |             |                   |           |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |             |       |             |         |            |          |             |                   |           |            |           |               |
| MH/SA (HEDIS) (n=2,030)                             | 18.0   | [16.0,20.3] | 43.3  | [40.5,46.1] | 5.6     | [4.5,7.1]  | 26.7     | [24.3,29.2] | 4.1               | [3.2,5.2] | 2.3        | [1.7,3.2] | 100.0         |
| No MH/SA (n=2,054)                                  | 13.4   | [11.6,15.5] | 43.1  | [40.3,45.9] | 8.2     | [6.8,9.8]  | 29.2     | [26.8,31.7] | 2.9               | [2.1,4.0] | 3.2        | [2.3,4.3] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 31.9913  |             |       |             |         |            |          |             |                   |           |            |           |               |
| Design-based F(4.98, 20283.40) =                    | 4.0858   |             | Pr =  | 0.001       |         |            |          |             |                   |           |            |           |               |
| <b>Total (n=4,084)</b>                              | 15.7   | [14.3,17.2] | 43.2  | [41.2,45.2] | 7.0     | [6.0,8.0]  | 28.0     | [26.3,29.8] | 3.5               | [2.9,4.2] | 2.8        | [2.2,3.5] | 100.0         |

### 3.34 Q: Please tell me how likely you are to do the following:

#### 3.34.1 Likely to find out how much a service costs before getting it

Universe: All respondents

|   | Very likely |             | Somewhat likely |             | Find out health service costs before |             |                       |             | Don't know |           | Total<br>Row% |
|---|-------------|-------------|-----------------|-------------|--------------------------------------|-------------|-----------------------|-------------|------------|-----------|---------------|
|   | Row%        | 95%CI       | Row%            | 95%CI       | Somewhat unlikely<br>Row%            | 95%CI       | Very unlikely<br>Row% | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |             |             |                 |             |                                      |             |                       |             |            |           |               |
| 0-35% (n=1,592)                                     | 45.0        | [41.9,48.1] | 25.3            | [22.6,28.2] | 11.6                                 | [9.7,13.7]  | 15.9                  | [13.8,18.3] | 2.3        | [1.5,3.3] | 100.0         |
| 36-99% (n=1,445)                                    | 46.7        | [43.5,49.8] | 26.8            | [24.1,29.8] | 13.4                                 | [11.4,15.7] | 11.5                  | [9.7,13.6]  | 1.6        | [1.0,2.4] | 100.0         |
| ≥ 100% (n = 1,039)                                  | 42.4        | [38.9,46.0] | 29.6            | [26.5,32.9] | 11.4                                 | [9.4,13.8]  | 14.7                  | [12.4,17.4] | 1.8        | [1.1,3.1] | 100.0         |
| Pearson: Uncorrected chi2(8) =                      | 20.5662     |             |                 |             |                                      |             |                       |             |            |           |               |
| Design-based F(7.70, 31305.64) =                    | 1.9597      |             | Pr =            | 0.050       |                                      |             |                       |             |            |           |               |
| <b>Region</b>                                       |             |             |                 |             |                                      |             |                       |             |            |           |               |
| UP/NW/NE (n=744)                                    | 42.9        | [38.9,47.0] | 25.2            | [21.8,29.0] | 13.1                                 | [10.6,16.1] | 16.9                  | [14.0,20.3] | 1.9        | [1.0,3.6] | 100.0         |
| W/E Central/E (n=1,258)                             | 45.5        | [42.3,48.7] | 26.8            | [24.1,29.6] | 11.4                                 | [9.4,13.6]  | 14.9                  | [12.8,17.4] | 1.4        | [0.9,2.3] | 100.0         |
| S Central/SW/SE (n=834)                             | 43.7        | [39.6,47.8] | 28.6            | [25.0,32.5] | 15.2                                 | [12.3,18.6] | 10.7                  | [8.6,13.3]  | 1.8        | [1.1,2.9] | 100.0         |
| Detroit Metro (n=1,240)                             | 45.6        | [42.1,49.1] | 25.9            | [22.9,29.2] | 11.0                                 | [9.1,13.2]  | 15.1                  | [12.8,17.8] | 2.4        | [1.6,3.7] | 100.0         |
| Pearson: Uncorrected chi2(12) =                     | 24.0889     |             |                 |             |                                      |             |                       |             |            |           |               |
| Design-based F(10.67, 43373.34) =                   | 1.6591      |             | Pr =            | 0.079       |                                      |             |                       |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |             |             |                 |             |                                      |             |                       |             |            |           |               |
| Yes (n=489)   | 44.0        | [38.3,49.8] | 33.4            | [28.0,39.4] | 8.5                                  | [6.0,11.8]  | 11.7                  | [8.6,15.7]  | 2.4        | [1.0,5.6] | 100.0         |
| No (n=3,587)  | 45.1        | [43.1,47.2] | 25.4            | [23.6,27.2] | 12.7                                 | [11.4,14.2] | 14.9                  | [13.5,16.5] | 1.9        | [1.5,2.5] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 25.4396     |             |                 |             |                                      |             |                       |             |            |           |               |
| Design-based F(3.90, 15830.97) =                    | 3.0538      |             | Pr =            | 0.017       |                                      |             |                       |             |            |           |               |
| <b>High ER utilizers</b>                            |             |             |                 |             |                                      |             |                       |             |            |           |               |
| Yes (n=155)   | 34.3        | [26.1,43.5] | 32.3            | [23.2,43.0] | 5.8                                  | [2.9,11.2]  | 26.0                  | [17.4,36.9] | 1.6        | [0.5,4.9] | 100.0         |
| No (n=3,921)  | 45.4        | [43.4,47.5] | 26.3            | [24.6,28.1] | 12.4                                 | [11.1,13.7] | 13.9                  | [12.6,15.3] | 2.0        | [1.5,2.6] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 30.7443     |             |                 |             |                                      |             |                       |             |            |           |               |
| Design-based F(3.59, 14591.71) =                    | 4.8330      |             | Pr =            | 0.001       |                                      |             |                       |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |             |             |                 |             |                                      |             |                       |             |            |           |               |
| Chronic disease (HEDIS) (n=1,157)                   | 42.3        | [38.8,45.9] | 23.7            | [20.8,26.8] | 13.4                                 | [11.1,16.2] | 17.5                  | [14.8,20.5] | 3.1        | [2.1,4.5] | 100.0         |
| No chronic disease (n=2,919)                        | 45.8        | [43.5,48.2] | 27.6            | [25.5,29.7] | 11.6                                 | [10.2,13.1] | 13.4                  | [11.9,15.0] | 1.6        | [1.1,2.3] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 25.9545     |             |                 |             |                                      |             |                       |             |            |           |               |
| Design-based F(3.99, 16222.05) =                    | 4.3882      |             | Pr =            | 0.002       |                                      |             |                       |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |             |                 |             |                                      |             |                       |             |            |           |               |
| MH/SA (HEDIS) (n=2,025)                             | 42.8        | [40.1,45.6] | 25.3            | [22.9,27.9] | 12.5                                 | [10.9,14.4] | 17.2                  | [15.2,19.5] | 2.1        | [1.5,2.9] | 100.0         |
| No MH/SA (n=2,051)                                  | 46.9        | [44.2,49.8] | 27.8            | [25.4,30.4] | 11.6                                 | [9.9,13.6]  | 11.8                  | [10.2,13.6] | 1.8        | [1.2,2.8] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 28.3832     |             |                 |             |                                      |             |                       |             |            |           |               |
| Design-based F(3.99, 16229.36) =                    | 4.4151      |             | Pr =            | 0.001       |                                      |             |                       |             |            |           |               |
| <b>Total (n=4,076)</b>                              | 45.0        | [43.0,46.9] | 26.6            | [24.9,28.4] | 12.1                                 | [10.9,13.4] | 14.4                  | [13.1,15.8] | 2.0        | [1.5,2.6] | 100.0         |



### 3.34.2 Likely to talk with doctor about how much different health care options will cost

Universe: All respondents

|   | Talk to doctor about health care costs |                    |                 |                    |                   |                    |               |                    |            |                  |              |
|---|--|--------------------|-----------------|--------------------|-------------------|--------------------|---------------|--------------------|------------|------------------|--------------|
|   | Very likely                            |                    | Somewhat likely |                    | Somewhat unlikely |                    | Very unlikely |                    | Don't know |                  | Total        |
|   | Row%                                   | 95%CI              | Row%            | 95%CI              | Row%              | 95%CI              | Row%          | 95%CI              | Row%       | 95%CI            | Row%         |
| <b>FPL category</b>                                 |  |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| 0-35% (n=1,593)                                     | 42.7                                   | [39.6,45.8]        | 24.6            | [22.1,27.3]        | 13.2              | [11.1,15.6]        | 16.8          | [14.7,19.2]        | 2.8        | [1.9,3.9]        | 100.0        |
| 36-99% (n=1,444)                                    | 39.5                                   | [36.5,42.6]        | 29.2            | [26.4,32.1]        | 15.2              | [13.0,17.7]        | 14.0          | [12.1,16.2]        | 2.1        | [1.3,3.3]        | 100.0        |
| ≥ 100% (n = 1, 039)                                 | 37.8                                   | [34.4,41.3]        | 30.6            | [27.4,34.0]        | 13.3              | [11.1,15.8]        | 16.2          | [13.7,19.0]        | 2.1        | [1.4,3.3]        | 100.0        |
| Pearson: Uncorrected chi2(8) =                      | 22.1056                                |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Design-based F(7.65, 31097.72) =                    | 2.0712                                 |                    | Pr =            | 0.038              |                   |                    |               |                    |            |                  |              |
| <b>Region</b>                                       |  |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| UP/NW/NE (n=744)                                    | 39.5                                   | [35.5,43.6]        | 27.3            | [23.8,31.1]        | 13.9              | [11.3,16.9]        | 17.5          | [14.7,20.7]        | 1.9        | [1.1,3.3]        | 100.0        |
| W/E Central/E (n=1,258)                             | 38.9                                   | [35.8,42.0]        | 30.3            | [27.4,33.3]        | 13.0              | [11.0,15.3]        | 15.7          | [13.5,18.1]        | 2.2        | [1.5,3.3]        | 100.0        |
| S Central/SW/SE (n=836)                             | 41.4                                   | [37.3,45.6]        | 26.7            | [23.4,30.3]        | 14.7              | [12.1,17.8]        | 15.8          | [13.3,18.8]        | 1.4        | [0.7,2.5]        | 100.0        |
| Detroit Metro (n=1,238)                             | 42.1                                   | [38.7,45.6]        | 25.2            | [22.3,28.2]        | 13.8              | [11.5,16.6]        | 15.7          | [13.3,18.4]        | 3.2        | [2.2,4.6]        | 100.0        |
| Pearson: Uncorrected chi2(12) =                     | 19.1262                                |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Design-based F(10.55, 42863.83) =                   | 1.3270                                 |                    | Pr =            | 0.205              |                   |                    |               |                    |            |                  |              |
| <b>Low healthcare utilizers</b>                     |  |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Yes (n=488)   | 41.5                                   | [35.9,47.4]        | 25.3            | [20.7,30.6]        | 14.3              | [10.4,19.3]        | 15.4          | [11.6,20.1]        | 3.5        | [1.8,6.4]        | 100.0        |
| No (n=3,588)  | 40.7                                   | [38.6,42.8]        | 27.4            | [25.6,29.3]        | 13.7              | [12.3,15.2]        | 16.0          | [14.6,17.5]        | 2.3        | [1.8,2.9]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 4.1933                                 |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Design-based F(3.97, 16152.68) =                    | 0.4882                                 |                    | Pr =            | 0.743              |                   |                    |               |                    |            |                  |              |
| <b>High ER utilizers</b>                            |  |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Yes (n=155)   | 33.3                                   | [25.1,42.6]        | 26.6            | [18.2,37.1]        | 16.6              | [9.5,27.4]         | 20.4          | [13.7,29.3]        | 3.0        | [1.1,8.0]        | 100.0        |
| No (n=3,921)  | 41.2                                   | [39.2,43.2]        | 27.1            | [25.4,28.9]        | 13.6              | [12.3,15.1]        | 15.7          | [14.3,17.2]        | 2.4        | [1.9,3.1]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 6.4372                                 |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Design-based F(3.76, 15289.19) =                    | 0.8450                                 |                    | Pr =            | 0.491              |                   |                    |               |                    |            |                  |              |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Chronic disease (HEDIS) (n=1,157)                   | 40.6                                   | [37.1,44.2]        | 23.7            | [20.9,26.7]        | 13.1              | [10.7,15.8]        | 19.2          | [16.5,22.2]        | 3.4        | [2.3,4.9]        | 100.0        |
| No chronic disease (n=2,919)                        | 40.9                                   | [38.6,43.2]        | 28.2            | [26.2,30.3]        | 14.0              | [12.4,15.8]        | 14.8          | [13.2,16.5]        | 2.1        | [1.6,2.9]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 20.8062                                |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Design-based F(3.99, 16195.87) =                    | 3.5278                                 |                    | Pr =            | 0.007              |                   |                    |               |                    |            |                  |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| MH/SA (HEDIS) (n=2,025)                             | 41.4                                   | [38.7,44.2]        | 24.9            | [22.6,27.3]        | 14.2              | [12.4,16.3]        | 17.3          | [15.4,19.5]        | 2.2        | [1.5,3.0]        | 100.0        |
| No MH/SA (n=2,051)                                  | 40.3                                   | [37.5,43.1]        | 29.2            | [26.7,31.7]        | 13.3              | [11.4,15.5]        | 14.5          | [12.7,16.5]        | 2.7        | [1.9,3.8]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 14.2325                                |                    |                 |                    |                   |                    |               |                    |            |                  |              |
| Design-based F(3.98, 16177.92) =                    | 2.2122                                 |                    | Pr =            | 0.065              |                   |                    |               |                    |            |                  |              |
| <b>Total (n=4,076)</b>                              | <b>40.8</b>                            | <b>[38.9,42.8]</b> | <b>27.1</b>     | <b>[25.4,28.8]</b> | <b>13.8</b>       | <b>[12.4,15.2]</b> | <b>15.9</b>   | <b>[14.5,17.3]</b> | <b>2.4</b> | <b>[1.9,3.1]</b> | <b>100.0</b> |

### 3.34.3 Likely to look for cheaper options

Universe: All respondents

|   | Very likely |                    | Somewhat likely |                    | Ask doctor for less costly drug |                         |                    |                     | Don't know |                  | Total Row%   |
|---|-------------|--------------------|-----------------|--------------------|---------------------------------|-------------------------|--------------------|---------------------|------------|------------------|--------------|
|   | Row%        | 95%CI              | Row%            | 95%CI              | Somewhat unlikely Row%          | Somewhat unlikely 95%CI | Very unlikely Row% | Very unlikely 95%CI | Row%       | 95%CI            |              |
| <b>FPL category</b>                                 |             |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| 0-35% (n=1,593)                                     | 50.1        | [47.0,53.3]        | 21.5            | [19.0,24.2]        | 10.9                            | [8.9,13.3]              | 15.1               | [13.0,17.4]         | 2.4        | [1.7,3.3]        | 100.0        |
| 36-99% (n=1,443)                                    | 52.2        | [49.1,55.3]        | 26.8            | [24.1,29.6]        | 8.9                             | [7.3,11.0]              | 9.6                | [8.0,11.6]          | 2.4        | [1.6,3.5]        | 100.0        |
| ≥ 100% (n = 1, 038)                                 | 50.8        | [47.2,54.4]        | 28.4            | [25.2,31.9]        | 7.3                             | [5.6,9.4]               | 11.2               | [9.1,13.6]          | 2.3        | [1.4,3.7]        | 100.0        |
| Pearson: Uncorrected chi2(8) =                      | 44.1546     |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Design-based F(7.69, 31224.89) =                    | 4.1204      | Pr =               | 0.000           |                    |                                 |                         |                    |                     |            |                  |              |
| <b>Region</b>                                       |             |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| UP/NW/NE (n=744)                                    | 54.9        | [50.8,59.0]        | 24.7            | [21.3,28.5]        | 7.3                             | [5.4,9.6]               | 10.9               | [8.6,13.6]          | 2.2        | [1.1,4.3]        | 100.0        |
| W/E Central/E (n=1,258)                             | 51.4        | [48.1,54.5]        | 26.6            | [23.8,29.5]        | 8.4                             | [6.7,10.5]              | 11.8               | [9.8,14.0]          | 1.9        | [1.3,2.8]        | 100.0        |
| S Central/SW/SE (n=835)                             | 52.5        | [48.4,56.6]        | 26.4            | [22.9,30.2]        | 8.3                             | [6.2,10.9]              | 10.4               | [8.4,12.8]          | 2.5        | [1.6,3.9]        | 100.0        |
| Detroit Metro (n=1,237)                             | 49.0        | [45.5,52.5]        | 22.0            | [19.2,25.0]        | 11.6                            | [9.3,14.3]              | 14.8               | [12.5,17.5]         | 2.6        | [1.8,3.8]        | 100.0        |
| Pearson: Uncorrected chi2(12) =                     | 35.7463     |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Design-based F(10.64, 43214.19) =                   | 2.4231      | Pr =               | 0.006           |                    |                                 |                         |                    |                     |            |                  |              |
| <b>Low healthcare utilizers</b>                     |             |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Yes (n=487)   | 45.6        | [39.9,51.5]        | 28.4            | [23.4,34.0]        | 9.9                             | [6.8,14.2]              | 12.0               | [8.6,16.6]          | 4.0        | [2.3,6.9]        | 100.0        |
| No (n=3,587)  | 51.8        | [49.7,53.9]        | 23.7            | [22.0,25.4]        | 9.6                             | [8.3,11.1]              | 12.9               | [11.5,14.3]         | 2.1        | [1.6,2.6]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 17.6766     |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Design-based F(3.95, 16057.82) =                    | 2.1038      | Pr =               | 0.078           |                    |                                 |                         |                    |                     |            |                  |              |
| <b>High ER utilizers</b>                            |             |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Yes (n=154)   | 45.6        | [36.0,55.5]        | 25.5            | [16.4,37.3]        | 6.7                             | [3.4,12.8]              | 20.9               | [13.7,30.5]         | 1.4        | [0.4,4.6]        | 100.0        |
| No (n=3,920)  | 51.1        | [49.1,53.1]        | 24.3            | [22.7,26.1]        | 9.8                             | [8.5,11.2]              | 12.4               | [11.1,13.8]         | 2.4        | [1.9,3.0]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 13.1069     |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Design-based F(3.54, 14384.15) =                    | 1.9009      | Pr =               | 0.116           |                    |                                 |                         |                    |                     |            |                  |              |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Chronic disease (HEDIS) (n=1,157)                   | 52.4        | [48.7,55.9]        | 20.9            | [18.1,24.0]        | 8.3                             | [6.3,11.0]              | 15.3               | [12.9,18.1]         | 3.1        | [2.1,4.4]        | 100.0        |
| No chronic disease (n=2,917)                        | 50.4        | [48.0,52.7]        | 25.5            | [23.6,27.6]        | 10.1                            | [8.6,11.8]              | 11.9               | [10.4,13.5]         | 2.1        | [1.6,2.8]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 19.9343     |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Design-based F(3.89, 15798.95) =                    | 3.2764      | Pr =               | 0.012           |                    |                                 |                         |                    |                     |            |                  |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| MH/SA (HEDIS) (n=2,025)                             | 53.1        | [50.3,55.9]        | 22.1            | [19.8,24.5]        | 8.9                             | [7.3,10.7]              | 14.1               | [12.3,16.2]         | 1.8        | [1.3,2.5]        | 100.0        |
| No MH/SA (n=2,049)                                  | 48.8        | [46.0,51.6]        | 26.5            | [24.1,29.0]        | 10.4                            | [8.6,12.5]              | 11.5               | [9.8,13.4]          | 2.9        | [2.1,3.9]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 25.0223     |                    |                 |                    |                                 |                         |                    |                     |            |                  |              |
| Design-based F(3.87, 15729.25) =                    | 3.8501      | Pr =               | 0.004           |                    |                                 |                         |                    |                     |            |                  |              |
| <b>Total (n=4,074)</b>                              | <b>50.9</b> | <b>[48.9,52.8]</b> | <b>24.4</b>     | <b>[22.7,26.1]</b> | <b>9.7</b>                      | <b>[8.4,11.0]</b>       | <b>12.8</b>        | <b>[11.5,14.1]</b>  | <b>2.4</b> | <b>[1.9,3.0]</b> | <b>100.0</b> |

### 3.34.4 Likely to check reviews

Universe: All respondents

|   | Check reviews of doctors or hospitals |                    |                 |                    |                   |                  |               |                   |            |                  |              |
|---|---------------------------------------|--------------------|-----------------|--------------------|-------------------|------------------|---------------|-------------------|------------|------------------|--------------|
|   | Very likely                           |                    | Somewhat likely |                    | Somewhat unlikely |                  | Very unlikely |                   | Don't know |                  | Total        |
|   | Row%                                  | 95%CI              | Row%            | 95%CI              | Row%              | 95%CI            | Row%          | 95%CI             | Row%       | 95%CI            | Row%         |
| <b>FPL category</b>                                 |                                       |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| 0-35% (n=1,592)                                     | 54.0                                  | [50.9,57.1]        | 22.4            | [19.9,25.2]        | 8.6               | [6.9,10.6]       | 12.3          | [10.4,14.5]       | 2.6        | [1.9,3.6]        | 100.0        |
| 36-99% (n=1,445)                                    | 53.3                                  | [50.2,56.4]        | 26.3            | [23.5,29.3]        | 8.9               | [7.3,10.8]       | 8.8           | [7.2,10.7]        | 2.7        | [1.9,3.9]        | 100.0        |
| ≥ 100% (n = 1,037)                                  | 53.9                                  | [50.4,57.4]        | 26.5            | [23.5,29.7]        | 6.8               | [5.3,8.7]        | 10.8          | [8.9,13.0]        | 2.0        | [1.3,3.1]        | 100.0        |
| Pearson: Uncorrected chi2(8) =                      | 19.0085                               |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Design-based F(7.58, 30796.09) =                    | 1.8553                                | Pr =               | 0.066           |                    |                   |                  |               |                   |            |                  |              |
| <b>Region</b>                                       |                                       |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| UP/NW/NE (n=744)                                    | 45.9                                  | [41.8,50.0]        | 24.4            | [21.0,28.1]        | 12.1              | [9.6,15.1]       | 14.9          | [12.2,18.1]       | 2.8        | [1.7,4.6]        | 100.0        |
| W/E Central/E (n=1,258)                             | 53.0                                  | [49.8,56.2]        | 26.3            | [23.6,29.2]        | 8.3               | [6.7,10.3]       | 10.5          | [8.7,12.6]        | 1.9        | [1.3,2.8]        | 100.0        |
| S Central/SW/SE (n=835)                             | 51.5                                  | [47.4,55.5]        | 28.1            | [24.5,31.9]        | 8.8               | [6.8,11.2]       | 9.1           | [7.2,11.4]        | 2.6        | [1.7,4.0]        | 100.0        |
| Detroit Metro (n=1,237)                             | 56.9                                  | [53.4,60.4]        | 21.5            | [18.7,24.6]        | 7.4               | [5.6,9.7]        | 11.4          | [9.3,13.9]        | 2.8        | [2.0,4.0]        | 100.0        |
| Pearson: Uncorrected chi2(12) =                     | 39.3107                               |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Design-based F(10.38, 42164.17) =                   | 2.6750                                | Pr =               | 0.002           |                    |                   |                  |               |                   |            |                  |              |
| <b>Low healthcare utilizers</b>                     |                                       |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Yes (n=486)   | 52.0                                  | [46.1,57.8]        | 28.6            | [23.6,34.1]        | 7.2               | [4.4,11.5]       | 9.8           | [6.9,13.7]        | 2.5        | [1.3,4.7]        | 100.0        |
| No (n=3,588)  | 54.1                                  | [52.0,56.2]        | 23.6            | [21.9,25.4]        | 8.5               | [7.4,9.8]        | 11.3          | [10.0,12.7]       | 2.5        | [2.0,3.2]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 7.9752                                |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Design-based F(3.87, 15723.17) =                    | 0.9501                                | Pr =               | 0.432           |                    |                   |                  |               |                   |            |                  |              |
| <b>High ER utilizers</b>                            |                                       |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Yes (n=155)   | 50.3                                  | [40.3,60.3]        | 26.9            | [18.6,37.1]        | 5.8               | [2.9,11.1]       | 15.3          | [8.5,25.9]        | 1.8        | [0.5,6.0]        | 100.0        |
| No (n=3,919)  | 53.9                                  | [51.9,55.9]        | 24.2            | [22.5,26.0]        | 8.4               | [7.3,9.7]        | 10.8          | [9.7,12.1]        | 2.6        | [2.0,3.2]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 5.9035                                |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Design-based F(3.67, 14896.56) =                    | 0.8255                                | Pr =               | 0.500           |                    |                   |                  |               |                   |            |                  |              |
| <b>Chronic disease (HEDIS)</b>                      |                                       |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Chronic disease (HEDIS) (n=1,157)                   | 52.4                                  | [48.8,56.0]        | 19.4            | [16.7,22.3]        | 9.5               | [7.6,11.7]       | 14.8          | [12.3,17.7]       | 4.0        | [2.8,5.5]        | 100.0        |
| No chronic disease (n=2,917)                        | 54.3                                  | [51.9,56.6]        | 26.0            | [24.0,28.1]        | 7.9               | [6.7,9.4]        | 9.8           | [8.5,11.2]        | 2.0        | [1.5,2.7]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 45.9058                               |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Design-based F(3.97, 16130.02) =                    | 7.9233                                | Pr =               | 0.000           |                    |                   |                  |               |                   |            |                  |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                       |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| MH/SA (HEDIS) (n=2,025)                             | 53.7                                  | [51.0,56.5]        | 22.2            | [20.0,24.7]        | 9.0               | [7.5,10.8]       | 12.6          | [10.9,14.6]       | 2.4        | [1.8,3.3]        | 100.0        |
| No MH/SA (n=2,049)                                  | 53.8                                  | [51.0,56.6]        | 26.3            | [23.9,28.8]        | 7.7               | [6.2,9.4]        | 9.6           | [8.0,11.3]        | 2.6        | [1.9,3.5]        | 100.0        |
| Pearson: Uncorrected chi2(4) =                      | 17.7645                               |                    |                 |                    |                   |                  |               |                   |            |                  |              |
| Design-based F(3.94, 16013.25) =                    | 2.7675                                | Pr =               | 0.026           |                    |                   |                  |               |                   |            |                  |              |
| <b>Total (n=4,074)</b>                              | <b>53.8</b>                           | <b>[51.8,55.7]</b> | <b>24.3</b>     | <b>[22.7,26.1]</b> | <b>8.3</b>        | <b>[7.3,9.5]</b> | <b>11.0</b>   | <b>[9.9,12.3]</b> | <b>2.5</b> | <b>[2.0,3.1]</b> | <b>100.0</b> |

### 3.35 Q: For the following statements, do you strongly agree, agree, are neutral, disagree, or strongly disagree.

#### 3.35.1 Carefully review MIHA statement

Universe: Respondents that have received a MI Health Account statement through Healthy Michigan Plan

|   | Carefully review statements |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|-----------------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree              |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%                        | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=1,146)                                     | 25.4                        | [22.4,28.7]        | 63.3        | [59.7,66.7]        | 3.4        | [2.3,5.0]        | 6.9        | [5.2,9.0]        | 0.6               | [0.3,1.3]        | 0.4        | [0.2,0.9]        | 100.0         |
| 36-99% (n=1,039)                                    | 26.9                        | [23.7,30.3]        | 62.2        | [58.5,65.8]        | 2.6        | [1.7,3.9]        | 6.5        | [4.9,8.7]        | 1.6               | [0.8,3.4]        | 0.1        | [0.0,1.0]        | 100.0         |
| ≥ 100% (n = 820)                                    | 23.3                        | [20.0,26.8]        | 63.3        | [59.3,67.1]        | 5.0        | [3.3,7.4]        | 7.3        | [5.5,9.6]        | 0.8               | [0.4,1.8]        | 0.4        | [0.1,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 14.9288                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.62, 28791.37) =                    | 1.1154                      | Pr =               | 0.346       |                    |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=592)                                    | 24.8                        | [21.1,29.0]        | 62.8        | [58.1,67.2]        | 4.1        | [2.4,6.9]        | 7.1        | [4.8,10.3]       | 0.8               | [0.3,1.9]        | 0.4        | [0.1,1.9]        | 100.0         |
| W/E Central/E (n=954)                               | 25.0                        | [22.1,28.3]        | 65.4        | [61.9,68.7]        | 2.1        | [1.3,3.5]        | 6.2        | [4.6,8.3]        | 0.5               | [0.2,1.1]        | 0.7        | [0.3,1.6]        | 100.0         |
| S Central/SW/SE (n=616)                             | 23.6                        | [20.0,27.7]        | 63.5        | [58.9,67.8]        | 4.6        | [2.9,7.3]        | 6.4        | [4.6,8.8]        | 1.8               | [1.0,3.5]        | 0.0        |                  | 100.0         |
| Detroit Metro (n=843)                               | 26.5                        | [22.9,30.4]        | 61.0        | [56.8,65.0]        | 3.9        | [2.6,5.8]        | 7.5        | [5.6,10.1]       | 0.9               | [0.4,2.2]        | 0.2        | [0.0,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 25.2711                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(13.40, 40117.64) =                   | 1.3899                      | Pr =               | 0.152       |                    |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=260)   | 27.3                        | [21.1,34.6]        | 56.6        | [48.8,64.1]        | 5.1        | [2.7,9.5]        | 9.4        | [5.5,15.5]       | 1.3               | [0.5,3.5]        | 0.3        | [0.0,2.1]        | 100.0         |
| No (n=2,745)  | 25.1                        | [23.1,27.2]        | 63.7        | [61.4,66.0]        | 3.3        | [2.6,4.3]        | 6.6        | [5.5,7.9]        | 0.9               | [0.5,1.5]        | 0.3        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 9.0398                      |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.61, 13795.32) =                    | 1.1548                      | Pr =               | 0.329       |                    |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=97)  | 27.7                        | [18.3,39.6]        | 58.1        | [46.1,69.2]        | 3.3        | [0.5,19.6]       | 8.2        | [3.4,18.3]       | 2.7               | [1.0,7.3]        | 0.0        |                  | 100.0         |
| No (n=2,908)  | 25.3                        | [23.3,27.3]        | 63.2        | [60.9,65.4]        | 3.5        | [2.8,4.5]        | 6.8        | [5.7,8.1]        | 0.9               | [0.5,1.4]        | 0.3        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 5.0960                      |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(3.99, 11933.73) =                    | 0.5886                      | Pr =               | 0.670       |                    |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=905)                     | 26.6                        | [23.1,30.5]        | 63.2        | [59.1,67.1]        | 2.3        | [1.3,3.9]        | 5.9        | [4.3,8.1]        | 1.8               | [0.8,3.6]        | 0.2        | [0.1,0.9]        | 100.0         |
| No chronic disease (n=2,100)                        | 24.9                        | [22.6,27.3]        | 62.9        | [60.2,65.5]        | 4.0        | [3.0,5.2]        | 7.2        | [5.9,8.8]        | 0.6               | [0.4,1.1]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 15.3537                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.88, 14612.13) =                    | 2.1970                      | Pr =               | 0.053       |                    |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=1,497)                             | 27.0                        | [24.2,30.0]        | 61.2        | [58.1,64.3]        | 3.6        | [2.5,5.1]        | 6.3        | [5.1,7.9]        | 1.5               | [0.9,2.6]        | 0.3        | [0.1,0.8]        | 100.0         |
| No MH/SA (n=1,508)                                  | 23.8                        | [21.2,26.6]        | 64.6        | [61.5,67.6]        | 3.5        | [2.5,4.8]        | 7.4        | [5.7,9.4]        | 0.4               | [0.2,0.9]        | 0.3        | [0.1,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 15.3587                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.85, 14519.80) =                    | 2.1490                      | Pr =               | 0.059       |                    |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=3,005)</b>                              | <b>25.3</b>                 | <b>[23.4,27.4]</b> | <b>63.0</b> | <b>[60.8,65.1]</b> | <b>3.5</b> | <b>[2.8,4.5]</b> | <b>6.9</b> | <b>[5.8,8.1]</b> | <b>0.9</b>        | <b>[0.6,1.5]</b> | <b>0.3</b> | <b>[0.2,0.6]</b> | <b>100.0</b>  |

### 3.35.2 MIHA statements help me be aware of cost of health care

Universe: Respondents that have received a MI Health Account statement through the Healthy Michigan Plan

|   | Helps me be more aware of cost |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|--------------------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree                 |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%                           | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=1,146)                                     | 23.1                           | [20.2,26.3]        | 66.9        | [63.5,70.2]        | 3.7        | [2.6,5.2]        | 4.9        | [3.6,6.6]        | 0.3               | [0.1,0.8]        | 1.1        | [0.6,2.0]        | 100.0         |
| 36-99% (n=1,040)                                    | 23.0                           | [19.9,26.5]        | 65.3        | [61.6,68.8]        | 4.9        | [3.6,6.5]        | 4.8        | [3.5,6.6]        | 0.9               | [0.5,1.6]        | 1.1        | [0.6,2.1]        | 100.0         |
| ≥ 100%(n = 819)                                     | 18.3                           | [15.4,21.5]        | 66.6        | [62.8,70.3]        | 5.6        | [3.8,8.0]        | 8.4        | [6.5,10.9]       | 0.5               | [0.2,1.2]        | 0.6        | [0.3,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 26.0637                        |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.46, 28320.89) =                    | 2.1881                         |                    | Pr =        | 0.018              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                                |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=593)                                    | 20.8                           | [17.3,24.8]        | 65.1        | [60.5,69.5]        | 5.0        | [3.2,7.9]        | 7.2        | [4.9,10.4]       | 0.5               | [0.2,1.5]        | 1.3        | [0.6,3.0]        | 100.0         |
| W/E Central/E (n=953)                               | 22.8                           | [20.0,26.0]        | 65.3        | [61.8,68.7]        | 4.1        | [2.9,6.0]        | 5.8        | [4.4,7.8]        | 0.5               | [0.2,1.0]        | 1.4        | [0.8,2.7]        | 100.0         |
| S Central/SW/SE (n=616)                             | 18.3                           | [14.9,22.1]        | 67.0        | [62.5,71.2]        | 5.2        | [3.6,7.6]        | 7.6        | [5.6,10.3]       | 1.2               | [0.5,2.7]        | 0.8        | [0.3,1.8]        | 100.0         |
| Detroit Metro (n=843)                               | 23.5                           | [20.1,27.3]        | 67.2        | [63.2,71.0]        | 4.2        | [2.9,5.9]        | 4.2        | [2.9,6.1]        | 0.2               | [0.1,0.6]        | 0.7        | [0.3,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 26.8915                        |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(13.35, 39946.61) =                   | 1.5921                         |                    | Pr =        | 0.077              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=259)   | 24.0                           | [18.2,31.1]        | 58.8        | [51.0,66.2]        | 6.4        | [3.7,11.1]       | 8.5        | [4.8,14.7]       | 1.4               | [0.6,3.2]        | 0.8        | [0.3,2.5]        | 100.0         |
| No (n=2,746)  | 21.8                           | [19.9,23.9]        | 67.3        | [65.0,69.4]        | 4.2        | [3.4,5.2]        | 5.3        | [4.5,6.3]        | 0.4               | [0.2,0.7]        | 1.0        | [0.6,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 17.1502                        |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.43, 13266.34) =                    | 2.2776                         |                    | Pr =        | 0.052              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                                |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=97)  | 29.5                           | [20.0,41.1]        | 58.1        | [46.4,68.9]        | 1.6        | [0.4,6.2]        | 7.4        | [3.1,16.8]       | 2.2               | [0.7,6.8]        | 1.3        | [0.2,8.4]        | 100.0         |
| No (n=2,908)  | 21.8                           | [19.9,23.8]        | 66.7        | [64.5,68.8]        | 4.5        | [3.7,5.5]        | 5.6        | [4.7,6.6]        | 0.4               | [0.3,0.7]        | 1.0        | [0.6,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 13.0474                        |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.67, 13991.65) =                    | 2.1136                         |                    | Pr =        | 0.065              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=905)                     | 25.2                           | [21.6,29.2]        | 64.1        | [60.0,68.0]        | 3.3        | [2.1,5.0]        | 6.2        | [4.6,8.4]        | 0.6               | [0.3,1.5]        | 0.6        | [0.3,1.3]        | 100.0         |
| No chronic disease (n=2,100)                        | 20.8                           | [18.7,23.1]        | 67.3        | [64.7,69.7]        | 4.9        | [3.9,6.1]        | 5.4        | [4.4,6.7]        | 0.5               | [0.3,0.8]        | 1.1        | [0.7,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 12.2684                        |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.78, 14301.93) =                    | 1.9844                         |                    | Pr =        | 0.081              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=1,495)                             | 23.8                           | [21.1,26.7]        | 65.3        | [62.2,68.2]        | 3.3        | [2.4,4.4]        | 6.0        | [4.8,7.5]        | 0.7               | [0.4,1.3]        | 1.0        | [0.5,1.8]        | 100.0         |
| No MH/SA (n=1,510)                                  | 20.4                           | [17.9,23.1]        | 67.4        | [64.4,70.4]        | 5.5        | [4.3,7.1]        | 5.3        | [4.0,6.9]        | 0.3               | [0.1,0.7]        | 1.0        | [0.6,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 16.7028                        |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.80, 14354.07) =                    | 2.5548                         |                    | Pr =        | 0.028              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=3,005)</b>                              | <b>22.0</b>                    | <b>[20.2,24.0]</b> | <b>66.4</b> | <b>[64.2,68.5]</b> | <b>4.4</b> | <b>[3.6,5.4]</b> | <b>5.6</b> | <b>[4.7,6.7]</b> | <b>0.5</b>        | <b>[0.3,0.8]</b> | <b>1.0</b> | <b>[0.6,1.5]</b> | <b>100.0</b>  |

### 3.35.3 Information on MIHA statement led me to change some of my decisions about health care

Universe: Respondents who have received a MI Health Account statement through Healthy Michigan Plan

|   | Changed decisions about health care |            |       |             |         |             |          |             |                   |           |            |           | Total<br>Row% |
|---|-------------------------------------|------------|-------|-------------|---------|-------------|----------|-------------|-------------------|-----------|------------|-----------|---------------|
|   | Strongly agree                      |            | Agree |             | Neutral |             | Disagree |             | Strongly disagree |           | Don't know |           |               |
|   | Row%                                | 95%CI      | Row%  | 95%CI       | Row%    | 95%CI       | Row%     | 95%CI       | Row%              | 95%CI     | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                                     |            |       |             |         |             |          |             |                   |           |            |           |               |
| 0-35% (n=1,145)                                     | 5.9                                 | [4.4,7.8]  | 26.3  | [23.2,29.7] | 14.5    | [12.0,17.6] | 46.7     | [43.1,50.3] | 3.6               | [2.5,5.1] | 2.9        | [1.9,4.6] | 100.0         |
| 36-99% (n=1,042)                                    | 5.7                                 | [4.0,8.0]  | 24.7  | [21.7,28.1] | 14.7    | [12.1,17.7] | 48.2     | [44.6,51.9] | 3.3               | [2.2,4.9] | 3.3        | [2.1,5.1] | 100.0         |
| ≥ 100% (n = 819)                                    | 2.8                                 | [1.7,4.6]  | 25.1  | [21.8,28.7] | 15.8    | [13.1,18.9] | 50.9     | [46.9,54.9] | 2.6               | [1.7,3.9] | 2.9        | [1.8,4.5] | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 13.8829                             |            |       |             |         |             |          |             |                   |           |            |           |               |
| Design-based F(9.50, 28431.45) =                    | 0.9829                              |            | Pr =  | 0.454       |         |             |          |             |                   |           |            |           |               |
| <b>Region</b>                                       |                                     |            |       |             |         |             |          |             |                   |           |            |           |               |
| UP/NW/NE (n=592)                                    | 3.7                                 | [2.3,6.1]  | 20.9  | [17.4,24.9] | 17.2    | [13.9,21.1] | 54.0     | [49.4,58.5] | 2.5               | [1.4,4.4] | 1.6        | [0.9,3.0] | 100.0         |
| W/E Central/E (n=955)                               | 5.3                                 | [3.9,7.1]  | 22.8  | [19.9,26.0] | 15.5    | [13.0,18.4] | 50.2     | [46.6,53.9] | 3.4               | [2.3,4.9] | 2.8        | [1.6,4.7] | 100.0         |
| S Central/SW/SE (n=615)                             | 3.5                                 | [2.1,5.7]  | 29.0  | [24.7,33.6] | 13.3    | [10.3,17.0] | 46.8     | [42.2,51.4] | 3.7               | [2.4,5.8] | 3.8        | [2.5,5.7] | 100.0         |
| Detroit Metro (n=844)                               | 6.2                                 | [4.4,8.7]  | 27.3  | [23.8,31.1] | 14.5    | [11.5,18.1] | 45.6     | [41.4,49.7] | 3.2               | [2.1,5.0] | 3.2        | [2.0,5.1] | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 27.4564                             |            |       |             |         |             |          |             |                   |           |            |           |               |
| Design-based F(13.05, 39068.43) =                   | 1.4158                              |            | Pr =  | 0.142       |         |             |          |             |                   |           |            |           |               |
| <b>Low healthcare utilizers</b>                     |                                     |            |       |             |         |             |          |             |                   |           |            |           |               |
| Yes (n=260)   | 9.6                                 | [5.4,16.3] | 26.2  | [19.9,33.7] | 14.1    | [9.9,19.6]  | 43.9     | [36.3,51.7] | 3.9               | [2.0,7.4] | 2.3        | [0.5,9.6] | 100.0         |
| No (n=2,746)  | 4.7                                 | [3.7,5.8]  | 25.5  | [23.5,27.7] | 14.9    | [13.2,16.9] | 48.5     | [46.2,50.9] | 3.2               | [2.5,4.1] | 3.1        | [2.4,4.0] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 15.5142                             |            |       |             |         |             |          |             |                   |           |            |           |               |
| Design-based F(4.31, 12913.78) =                    | 1.3746                              |            | Pr =  | 0.237       |         |             |          |             |                   |           |            |           |               |
| <b>High ER utilizers</b>                            |                                     |            |       |             |         |             |          |             |                   |           |            |           |               |
| Yes (n=97)  | 10.7                                | [5.3,20.4] | 28.0  | [18.9,39.4] | 15.3    | [8.1,26.8]  | 41.3     | [30.5,52.9] | 2.4               | [0.6,9.5] | 2.3        | [0.7,7.7] | 100.0         |
| No (n=2,909)  | 5.0                                 | [4.0,6.1]  | 25.5  | [23.5,27.6] | 14.8    | [13.2,16.7] | 48.3     | [46.0,50.6] | 3.3               | [2.6,4.2] | 3.0        | [2.3,4.0] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 8.2968                              |            |       |             |         |             |          |             |                   |           |            |           |               |
| Design-based F(4.84, 14488.74) =                    | 1.1601                              |            | Pr =  | 0.326       |         |             |          |             |                   |           |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |            |       |             |         |             |          |             |                   |           |            |           |               |
| Chronic disease (HEDIS) (n=906)                     | 6.1                                 | [4.3,8.6]  | 25.9  | [22.4,29.7] | 10.9    | [8.4,14.0]  | 49.5     | [45.5,53.6] | 4.4               | [3.0,6.3] | 3.2        | [1.9,5.1] | 100.0         |
| No chronic disease (n=2,100)                        | 4.8                                 | [3.7,6.2]  | 25.5  | [23.2,28.0] | 16.3    | [14.3,18.6] | 47.5     | [44.8,50.2] | 2.9               | [2.1,3.9] | 3.0        | [2.1,4.1] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 18.6012                             |            |       |             |         |             |          |             |                   |           |            |           |               |
| Design-based F(4.95, 14835.26) =                    | 2.3119                              |            | Pr =  | 0.042       |         |             |          |             |                   |           |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |            |       |             |         |             |          |             |                   |           |            |           |               |
| MH/SA (HEDIS) (n=1,496)                             | 5.3                                 | [4.0,6.9]  | 26.0  | [23.2,28.9] | 12.6    | [10.5,15.1] | 48.9     | [45.7,52.1] | 4.2               | [3.1,5.6] | 3.1        | [2.1,4.4] | 100.0         |
| No MH/SA (n=1,510)                                  | 5.1                                 | [3.7,6.8]  | 25.3  | [22.6,28.2] | 17.0    | [14.6,19.7] | 47.2     | [44.0,50.4] | 2.5               | [1.7,3.6] | 3.0        | [2.0,4.4] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 17.3233                             |            |       |             |         |             |          |             |                   |           |            |           |               |
| Design-based F(4.96, 14856.61) =                    | 2.0510                              |            | Pr =  | 0.069       |         |             |          |             |                   |           |            |           |               |
| <b>Total (n=3,006)</b>                              | 5.2                                 | [4.2,6.3]  | 25.6  | [23.7,27.6] | 14.9    | [13.2,16.7] | 48.0     | [45.8,50.3] | 3.3               | [2.6,4.2] | 3.0        | [2.3,4.0] | 100.0         |

### 3.36 Q: What is your current job status?

Universe: All respondents

|   | Employed or self-employed |             | Out of work >=1 year |             | Out of work <1 year |             | Employment status<br>Homemaker |            | Student |            | Retired |           | Unable to work |             | Don't know |           | Total<br>Row% |
|---|---------------------------|-------------|----------------------|-------------|---------------------|-------------|--------------------------------|------------|---------|------------|---------|-----------|----------------|-------------|------------|-----------|---------------|
|   | Row%                      | 95%CI       | Row%                 | 95%CI       | Row%                | 95%CI       | Row%                           | 95%CI      | Row%    | 95%CI      | Row%    | 95%CI     | Row%           | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                           |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| 0-35% (n=1,589)                                     | 31.9                      | [28.9,35.0] | 31.1                 | [28.3,34.0] | 11.0                | [9.1,13.2]  | 2.4                            | [1.6,3.6]  | 5.8     | [4.4,7.5]  | 1.6     | [1.0,2.4] | 16.1           | [14.1,18.3] | 0.2        | [0.1,0.7] | 100.0         |
| 36-99% (n=1,447)                                    | 65.4                      | [62.4,68.3] | 9.6                  | [7.8,11.8]  | 4.9                 | [3.8,6.2]   | 7.4                            | [6.0,9.1]  | 3.9     | [2.8,5.4]  | 3.1     | [2.3,4.3] | 5.5            | [4.3,7.1]   | 0.1        | [0.0,0.5] | 100.0         |
| ≥ 100% (n = 1,039)                                  | 69.4                      | [66.0,72.6] | 4.2                  | [3.1,5.8]   | 4.0                 | [2.8,5.6]   | 5.9                            | [4.5,7.8]  | 5.4     | [3.7,8.0]  | 4.1     | [3.1,5.4] | 6.9            | [5.4,8.8]   | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(14) =                     | 773.5738                  |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Design-based F(12.86, 52234.24) =                   | 43.7255                   | Pr =        | 0.000                |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| <b>Region</b>                                       |                           |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| UP/NW/NE (n=746)                                    | 52.5                      | [48.6,56.4] | 15.7                 | [13.0,18.8] | 6.0                 | [4.2,8.4]   | 5.6                            | [4.0,7.7]  | 3.9     | [2.5,6.2]  | 5.0     | [3.8,6.7] | 11.1           | [8.9,13.7]  | 0.2        | [0.1,1.0] | 100.0         |
| W/E Central/E (n=1,259)                             | 46.9                      | [44.0,49.9] | 20.7                 | [18.2,23.4] | 7.6                 | [6.0,9.6]   | 3.9                            | [2.9,5.2]  | 4.8     | [3.3,6.8]  | 2.7     | [2.0,3.6] | 13.2           | [11.3,15.5] | 0.3        | [0.1,0.8] | 100.0         |
| S Central/SW/SE (n=834)                             | 53.3                      | [49.4,57.2] | 16.3                 | [13.4,19.6] | 8.8                 | [6.7,11.5]  | 4.1                            | [2.9,5.6]  | 5.3     | [3.7,7.5]  | 2.2     | [1.5,3.2] | 10.1           | [8.0,12.7]  | 0.0        |           | 100.0         |
| Detroit Metro (n=1,236)                             | 47.4                      | [44.1,50.8] | 21.3                 | [18.5,24.3] | 8.1                 | [6.2,10.4]  | 4.9                            | [3.8,6.4]  | 5.7     | [4.2,7.6]  | 2.0     | [1.3,3.1] | 10.5           | [8.6,12.8]  | 0.1        | [0.0,0.9] | 100.0         |
| Pearson: Uncorrected chi2(21) =                     | 44.2104                   |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Design-based F(17.48, 71007.65) =                   | 1.7471                    | Pr =        | 0.027                |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                           |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Yes (n=488)   | 52.7                      | [46.8,58.4] | 20.7                 | [16.4,25.9] | 13.9                | [10.0,19.1] | 2.4                            | [1.1,5.0]  | 7.2     | [4.7,10.9] | 0.7     | [0.3,1.4] | 2.2            | [1.1,4.3]   | 0.2        | [0.0,0.9] | 100.0         |
| No (n=3,587)  | 48.2                      | [46.2,50.2] | 19.5                 | [17.8,21.2] | 6.8                 | [5.8,7.9]   | 4.9                            | [4.2,5.8]  | 4.8     | [3.9,5.9]  | 2.8     | [2.3,3.5] | 12.9           | [11.6,14.3] | 0.2        | [0.1,0.4] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 112.2927                  |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Design-based F(6.06, 24619.94) =                    | 9.4801                    | Pr =        | 0.000                |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| <b>High ER utilizers</b>                            |                           |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Yes (n=154)   | 40.8                      | [31.2,51.2] | 19.8                 | [12.5,30.1] | 10.6                | [6.1,17.7]  | 6.3                            | [2.6,14.6] | 1.1     | [0.3,4.5]  | 0.9     | [0.3,2.9] | 19.8           | [13.5,28.0] | 0.7        | [0.1,4.6] | 100.0         |
| No (n=3,921)  | 49.2                      | [47.3,51.1] | 19.7                 | [18.1,21.3] | 7.7                 | [6.7,9.0]   | 4.4                            | [3.8,5.2]  | 5.4     | [4.4,6.5]  | 2.6     | [2.1,3.1] | 10.9           | [9.7,12.1]  | 0.1        | [0.1,0.4] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 28.4732                   |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Design-based F(6.10, 24779.19) =                    | 2.6654                    | Pr =        | 0.013                |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Chronic disease (HEDIS) (n=1,158)                   | 39.0                      | [35.7,42.5] | 22.6                 | [19.6,25.9] | 5.4                 | [4.0,7.2]   | 4.5                            | [3.2,6.4]  | 2.7     | [1.6,4.4]  | 4.1     | [3.0,5.6] | 21.5           | [18.8,24.6] | 0.1        | [0.0,0.3] | 100.0         |
| No chronic disease (n=2,917)                        | 52.1                      | [49.9,54.4] | 18.7                 | [16.9,20.7] | 8.7                 | [7.4,10.2]  | 4.5                            | [3.8,5.4]  | 6.0     | [4.9,7.3]  | 2.0     | [1.5,2.5] | 7.8            | [6.7,9.1]   | 0.2        | [0.1,0.5] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 202.8911                  |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Design-based F(6.42, 26086.51) =                    | 21.6056                   | Pr =        | 0.000                |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| MH/SA (HEDIS) (n=2,026)                             | 43.3                      | [40.6,46.0] | 19.9                 | [17.8,22.3] | 8.1                 | [6.7,9.8]   | 3.6                            | [2.8,4.6]  | 4.5     | [3.3,6.0]  | 1.9     | [1.4,2.6] | 18.3           | [16.3,20.5] | 0.3        | [0.1,0.7] | 100.0         |
| No MH/SA (n=2,049)                                  | 54.0                      | [51.3,56.8] | 19.4                 | [17.2,21.9] | 7.6                 | [6.1,9.5]   | 5.4                            | [4.4,6.6]  | 5.8     | [4.6,7.4]  | 3.0     | [2.4,3.9] | 4.6            | [3.6,5.9]   | 0.1        | [0.0,0.3] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 212.2011                  |             |                      |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| Design-based F(6.50, 26397.66) =                    | 20.1871                   | Pr =        | 0.000                |             |                     |             |                                |            |         |            |         |           |                |             |            |           |               |
| <b>Total (n=4,075)</b>                              | 48.8                      | [47.0,50.7] | 19.7                 | [18.1,21.3] | 7.9                 | [6.8,9.1]   | 4.5                            | [3.8,5.3]  | 5.2     | [4.3,6.2]  | 2.5     | [2.1,3.0] | 11.3           | [10.1,12.5] | 0.2        | [0.1,0.4] | 100.0         |

### 3.37 Q: In the past 12 months, about how many days did you miss school because of illness or injury (do not include maternity leave)?

Universe: Student respondents

|   | Mean  | Std. Dev | CI             | P-value |
|---|-------|----------|----------------|---------|
| <b>FPL category</b>                                 |       |          |                | 0.7293  |
| 0-35% (n=77)  | 3.10  | 8.66     | [1.15,5.05]    |         |
| 36-99% (n=47)                                       | 3.49  | 13.19    | [-0.31,7.29]   |         |
| ≥ 100%(n = 35)                                      | 1.86  | 3.52     | [0.68,3.03]    |         |
| <b>Region</b>                                       |       |          |                | 0.5533  |
| UP/NW/NE (n=21)                                     | 3.67  | 7.00     | [0.65,6.68]    |         |
| W/E Central/E (n=42)                                | 3.90  | 13.99    | [-0.36,8.17]   |         |
| S Central/SW/SE (n=37)                              | 1.03  | 2.22     | [0.31,1.74]    |         |
| Detroit Metro (n=59)                                | 3.20  | 9.11     | [0.86,5.55]    |         |
| <b>Low healthcare utilizers</b>                     |       |          |                | 0.2330  |
| Yes (n=28)  | 1.00  | 1.76     | [0.32,1.68]    |         |
| No (n=131)  | 3.35  | 10.37    | [1.57,5.15]    |         |
| <b>High ER utilizers</b>                            |       |          |                | 0.5285  |
| Yes (n=2)   | 30.00 | 42.43    | [-29.25,89.25] |         |
| No (n=157)  | 2.60  | 8.36     | [1.28,3.92]    |         |
| <b>Chronic disease (HEDIS)</b>                      |       |          |                | 0.1363  |
| Chronic disease (HEDIS) (n=20)                      | 7.35  | 14.199   | [1.07,13.62]   |         |
| No chronic disease (n=139)                          | 2.31  | 8.47     | [0.89,3.73]    |         |
| <b>Mental health/substance use disorder (HEDIS)</b> |       |          |                | 0.0504  |
| MH/SA (HEDIS) (n=68)                                | 4.88  | 13.69    | [1.46,4.43]    |         |
| No MH/SA (n=91)                                     | 1.49  | 3.62     | [0.74,2.25]    |         |
| <b>Total (n=159)</b>                                | 2.94  | 9.47     | [1.46,4.43]    |         |

<sup>1</sup> All models were tested for homogeneity of variance using Levene's test

<sup>2</sup> FPL categories did not violate Levene's test,  $F(2,156)=0.933$ ,  $p=0.396$ ; An ANOVA was used,  $F(2,156)=0.32$ ,  $p=0.7293$

<sup>3</sup> Region did not violate Levene's test,  $F(3,155)=1.487$ ,  $p=0.220$ ; An ANOVA was used,  $F(3,155)=0.70$ ,  $p=0.5533$

<sup>4</sup> Low healthcare utilizers did not violate Levene's test,  $F(1,157)=3.428$ ,  $p=0.0660$ ; Student's t-test was used,  $t(157)=-1.197$ ,  $p=0.2330$

<sup>5</sup> High ER utilizers violated Levene's test,  $F(1,157)=24.160$ ,  $p<.0001$ ; Welch's t-test was used,  $t(1.003)=0.913$ ,  $p=0.5285$

<sup>6</sup> HEDIS Chronic Disease violated Levene's test,  $F(1,157)=6.320$ ,  $p=0.0129$ ; Welch's t-test was used,  $t(21.199)=1.548$ ,  $p=0.1363$

<sup>7</sup> HEDIS MH/SA violated Levene's test,  $F(1,157)=13.159$ ,  $p=0.0004$ ; Welch's t-test was used,  $t(74.224)=1.989$ ,  $p=0.0504$



### 3.38 Q: Compared to the 12 months before this time, was this more, less, or about the same?

Universe: Student respondents

|   | School days missed more/less |                  |             |                    |                |                    |            |                  |              |
|---|------------------------------|------------------|-------------|--------------------|----------------|--------------------|------------|------------------|--------------|
|   | More                         |                  | Less        |                    | About the same |                    | Don't know |                  | Total        |
|   | Row%                         | 95%CI            | Row%        | 95%CI              | Row%           | 95%CI              | Row%       | 95%CI            | Row%         |
| <b>FPL category</b>                                 |                              |                  |             |                    |                |                    |            |                  |              |
| 0-35% (n=78)  | 2.3                          | [0.6,8.1]        | 18.8        | [9.5,33.6]         | 77.6           | [63.2,87.5]        | 1.3        | [0.2,8.9]        | 100.0        |
| 36-99% (n=47)                                       | 14.3                         | [5.1,34.0]       | 15.8        | [8.0,28.8]         | 70.0           | [52.0,83.3]        | 0.0        |                  | 100.0        |
| ≥ 100% (n = 35)                                     | 0.0                          |                  | 11.0        | [4.2,25.6]         | 89.0           | [74.4,95.8]        | 0.0        |                  | 100.0        |
| Pearson: Uncorrected chi2(6) =                      | 12.6766                      |                  |             |                    |                |                    |            |                  |              |
| Design-based F(5.29, 783.15) =                      | 2.1446                       |                  | Pr =        | 0.055              |                |                    |            |                  |              |
| <b>Region</b>                                       |                              |                  |             |                    |                |                    |            |                  |              |
| UP/NW/NE (n=22)                                     | 6.4                          | [0.8,35.3]       | 36.5        | [16.7,62.3]        | 45.0           | [23.2,68.9]        | 12.1       | [1.7,52.2]       | 100.0        |
| W/E Central/E (n=42)                                | 1.2                          | [0.2,8.3]        | 14.4        | [6.9,27.7]         | 84.4           | [71.0,92.3]        | 0.0        |                  | 100.0        |
| S Central/SW/SE (n=37)                              | 5.1                          | [1.5,15.6]       | 5.8         | [1.9,16.7]         | 89.1           | [78.3,94.9]        | 0.0        |                  | 100.0        |
| Detroit Metro (n=59)                                | 5.7                          | [1.7,17.3]       | 19.2        | [8.9,36.8]         | 75.1           | [57.9,86.9]        | 0.0        |                  | 100.0        |
| Pearson: Uncorrected chi2(9) =                      | 26.7533                      |                  |             |                    |                |                    |            |                  |              |
| Design-based F(7.19, 1064.25) =                     | 3.8790                       |                  | Pr =        | 0.000              |                |                    |            |                  |              |
| <b>Low healthcare utilizers</b>                     |                              |                  |             |                    |                |                    |            |                  |              |
| Yes (n=28)  | 0.0                          |                  | 9.1         | [2.4,28.6]         | 90.9           | [71.4,97.6]        | 0.0        |                  | 100.0        |
| No (n=132)  | 5.6                          | [2.5,12.2]       | 18.5        | [11.1,29.1]        | 74.9           | [64.2,83.3]        | 1.0        | [0.1,6.6]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 4.5478                       |                  |             |                    |                |                    |            |                  |              |
| Design-based F(2.98, 441.23) =                      | 1.1691                       |                  | Pr =        | 0.321              |                |                    |            |                  |              |
| <b>High ER utilizers</b>                            |                              |                  |             |                    |                |                    |            |                  |              |
| Yes (n=2)   | 0.0                          |                  | 65.7        | [10.5,96.9]        | 34.3           | [3.1,89.5]         | 0.0        |                  | 100.0        |
| No (n=158)  | 4.5                          | [2.0,9.8]        | 16.0        | [9.8,25.1]         | 78.7           | [69.4,85.8]        | 0.8        | [0.1,5.3]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 2.6391                       |                  |             |                    |                |                    |            |                  |              |
| Design-based F(2.74, 405.64) =                      | 0.9303                       |                  | Pr =        | 0.419              |                |                    |            |                  |              |
| <b>Chronic disease (HEDIS)</b>                      |                              |                  |             |                    |                |                    |            |                  |              |
| Chronic disease (HEDIS) (n=22)                      | 10.1                         | [2.4,34.0]       | 8.6         | [2.0,29.8]         | 75.5           | [51.1,90.1]        | 5.8        | [0.8,32.0]       | 100.0        |
| No chronic disease (n=138)                          | 3.6                          | [1.3,9.5]        | 17.7        | [10.7,27.8]        | 78.8           | [68.4,86.4]        | 0.0        |                  | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 10.7564                      |                  |             |                    |                |                    |            |                  |              |
| Design-based F(2.97, 440.09) =                      | 3.0758                       |                  | Pr =        | 0.028              |                |                    |            |                  |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                              |                  |             |                    |                |                    |            |                  |              |
| MH/SA (HEDIS) (n=69)                                | 5.6                          | [2.3,12.7]       | 22.1        | [11.8,37.5]        | 70.6           | [55.4,82.2]        | 1.8        | [0.3,12.1]       | 100.0        |
| No MH/SA (n=91)                                     | 3.6                          | [0.8,14.4]       | 12.5        | [5.7,25.2]         | 83.9           | [70.8,91.8]        | 0.0        |                  | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 5.0732                       |                  |             |                    |                |                    |            |                  |              |
| Design-based F(2.91, 430.22) =                      | 1.1440                       |                  | Pr =        | 0.330              |                |                    |            |                  |              |
| <b>Total (n=160)</b>                                | <b>4.4</b>                   | <b>[2.0,9.7]</b> | <b>16.5</b> | <b>[10.2,25.5]</b> | <b>78.3</b>    | <b>[69.1,85.4]</b> | <b>0.8</b> | <b>[0.1,5.3]</b> | <b>100.0</b> |

### 3.39 Q: In the past 12 months, about how many days did you miss work because of illness or injury (do not include maternity leave)?

Universe: Respondents who are employed/self-employed, or out of work < 1 yr

|   | Mean  | Std. Dev | CI            | P-value |
|---|-------|----------|---------------|---------|
| <b>FPL category</b>                                 |       |          |               | 0.0008  |
| 0-35% (n=594)                                       | 9.86  | 40.27    | [6.62,13.10]  |         |
| 36-99% (n=980)                                      | 8.84  | 29.46    | [7.00, 10.69] |         |
| ≥ 100%(n = 735)                                     | 5.17  | 17.60    | [3.89,6.44]   |         |
| <b>Region</b>                                       |       |          |               | 0.1382  |
| UP/NW/NE (n=409)                                    | 7.86  | 29.60    | [4.99,10.73]  |         |
| W/E Central/E (n=682)                               | 7.10  | 30.39    | [4.82,9.38]   |         |
| S Central/SW/SE (n=501)                             | 10.97 | 37.55    | [7.68,14.26]  |         |
| Detroit Metro (n=717)                               | 6.65  | 22.10    | [5.02,8.27]   |         |
| <b>Low healthcare utilizers</b>                     |       |          |               | 0.0028  |
| Yes (n=326)   | 3.36  | 18.64    | [1.33,5.39]   |         |
| No (n=1,983)  | 8.69  | 31.18    | [7.31,10.06]  |         |
| <b>High ER utilizers</b>                            |       |          |               | 0.1314  |
| Yes (n=81)  | 12.84 | 22.28    | [7.98,17.70]  |         |
| No (n=2,228)  | 7.76  | 30.01    | [6.51, 9.00]  |         |
| <b>Chronic disease (HEDIS)</b>                      |       |          |               | 0.0078  |
| Chronic disease (HEDIS) (n=526)                     | 11.51 | 37.01    | [8.35,14.68]  |         |
| No chronic disease (n=1,783)                        | 6.88  | 27.21    | [5.61,8.14]   |         |
| <b>Mental health/substance use disorder (HEDIS)</b> |       |          |               | 0.0001  |
| MH/SA (HEDIS) (n=1,040)                             | 10.74 | 35.76    | [8.56,12.91]  |         |
| No MH/SA (n=1,269)                                  | 5.64  | 23.56    | [4.34,6.93]   |         |
| <b>Total (n=2,309)</b>                              | 7.94  | 29.78    | [6.72,9.15]   |         |

<sup>1</sup> All models were tested for homogeneity of variance using Levene's test

<sup>2</sup> FPL categories violated Levene's test,  $F(2,2306)= 17.73$ ,  $p < 0.001$ ; Welch's ANOVA was conducted,  $F(2,1271.14)= 7.206$ ,  $p= 0.0008$

<sup>3</sup> Region violated Levene's test,  $F(3,2305)= 6.17$ ,  $p= 0.0004$ ; Welch's ANOVA was conducted,  $F(3,1105.65)= 1.840$ ,  $p= 0.1382$

<sup>4</sup> Low healthcare utilizers violated Levene's test,  $F(1,2307)= 20.54$ ,  $p < 0.001$ ; Welch's t-test was used,  $t(2307)= -2.997$ ,  $p= 0.0028$

<sup>5</sup> High ER utilizers did not violate Levene's test,  $F(1,2307)= 1.109$ ,  $p= 0.31$ ; Student's t-test was used,  $t(2307)= 1.509$ ,  $p= 0.1314$

<sup>6</sup> HEDIS Chronic Disease violated Levene's test,  $F(1,2307)= 18.757$ ,  $p < 0.001$ ; Welch's t-test was used,  $t(701.185)= 2.668$ ,  $p= 0.0078$

<sup>7</sup> HEDIS MH/SA violated Levene's test,  $F(1,2307)= 33.309$ ,  $p < 0.001$ ; Welch's t-test was used,  $t(1731.47)= 3.951$ ,  $p= 0.0001$

### 3.40 Q: Compared to the 12 months before this time, was this more, less, or about the same?

Universe: Respondents who are employed/self-employed, or out of work < 1 yr

|   | Work days missed more/less |                    |             |                    |                |                    |            |                  |              |
|---|----------------------------|--------------------|-------------|--------------------|----------------|--------------------|------------|------------------|--------------|
|   | More                       |                    | Less        |                    | About the same |                    | Don't know |                  | Total        |
|   | Row%                       | 95%CI              | Row%        | 95%CI              | Row%           | 95%CI              | Row%       | 95%CI            | Row%         |
| <b>FPL category</b>                                 |                            |                    |             |                    |                |                    |            |                  |              |
| 0-35% (n=604)                                       | 13.2                       | [10.4,16.7]        | 15.8        | [12.4,19.9]        | 67.6           | [62.7,72.1]        | 3.4        | [1.8,6.3]        | 100.0        |
| 36-99% (n=990)                                      | 11.1                       | [9.0,13.6]         | 18.2        | [15.6,21.2]        | 69.3           | [65.8,72.6]        | 1.3        | [0.7,2.5]        | 100.0        |
| ≥ 100%(n = 737)                                     | 14.0                       | [11.3,17.1]        | 15.5        | [12.7,18.8]        | 69.6           | [65.6,73.3]        | 1.0        | [0.5,2.0]        | 100.0        |
| Pearson: Uncorrected chi2(6) =                      | 18.6730                    |                    |             |                    |                |                    |            |                  |              |
| Design-based F(5.56, 12890.94) =                    | 2.1555                     |                    | Pr =        | 0.049              |                |                    |            |                  |              |
| <b>Region</b>                                       |                            |                    |             |                    |                |                    |            |                  |              |
| UP/NW/NE (n=413)                                    | 10.7                       | [7.9,14.3]         | 15.9        | [12.4,20.3]        | 72.3           | [67.3,76.8]        | 1.1        | [0.5,2.4]        | 100.0        |
| W/E Central/E (n=692)                               | 14.6                       | [11.8,17.9]        | 15.1        | [12.4,18.4]        | 68.3           | [64.2,72.1]        | 2.0        | [1.1,3.7]        | 100.0        |
| S Central/SW/SE (n=505)                             | 13.4                       | [10.3,17.2]        | 19.8        | [15.8,24.6]        | 65.3           | [60.0,70.2]        | 1.5        | [0.7,3.3]        | 100.0        |
| Detroit Metro (n=721)                               | 11.5                       | [9.0,14.6]         | 16.1        | [13.0,19.8]        | 69.8           | [65.4,73.9]        | 2.6        | [1.2,5.3]        | 100.0        |
| Pearson: Uncorrected chi2(9) =                      | 12.1846                    |                    |             |                    |                |                    |            |                  |              |
| Design-based F(7.53, 17469.23) =                    | 1.0524                     |                    | Pr =        | 0.393              |                |                    |            |                  |              |
| <b>Low healthcare utilizers</b>                     |                            |                    |             |                    |                |                    |            |                  |              |
| Yes (n=328)   | 6.8                        | [4.3,10.6]         | 13.0        | [8.5,19.3]         | 78.0           | [71.4,83.5]        | 2.2        | [0.8,5.8]        | 100.0        |
| No (n=2,003)  | 13.9                       | [12.2,15.9]        | 17.4        | [15.4,19.5]        | 66.7           | [64.0,69.2]        | 2.0        | [1.2,3.3]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 24.1058                    |                    |             |                    |                |                    |            |                  |              |
| Design-based F(2.90, 6721.98) =                     | 3.6988                     |                    | Pr =        | 0.012              |                |                    |            |                  |              |
| <b>High ER utilizers</b>                            |                            |                    |             |                    |                |                    |            |                  |              |
| Yes (n=81)  | 20.8                       | [12.5,32.6]        | 27.0        | [16.9,40.3]        | 50.8           | [36.9,64.6]        | 1.3        | [0.2,8.9]        | 100.0        |
| No (n=2,250)  | 12.3                       | [10.8,14.1]        | 16.2        | [14.3,18.2]        | 69.4           | [66.9,71.8]        | 2.1        | [1.3,3.3]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 16.2328                    |                    |             |                    |                |                    |            |                  |              |
| Design-based F(2.89, 6699.26) =                     | 3.5091                     |                    | Pr =        | 0.016              |                |                    |            |                  |              |
| <b>Chronic disease (HEDIS)</b>                      |                            |                    |             |                    |                |                    |            |                  |              |
| Chronic disease (HEDIS) (n=533)                     | 13.5                       | [10.6,17.1]        | 20.9        | [17.1,25.2]        | 62.1           | [57.1,66.9]        | 3.4        | [1.9,6.2]        | 100.0        |
| No chronic disease (n=1,798)                        | 12.4                       | [10.7,14.5]        | 15.5        | [13.5,17.8]        | 70.3           | [67.5,73.0]        | 1.7        | [1.0,3.1]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 15.6083                    |                    |             |                    |                |                    |            |                  |              |
| Design-based F(2.85, 6600.18) =                     | 3.4783                     |                    | Pr =        | 0.017              |                |                    |            |                  |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                            |                    |             |                    |                |                    |            |                  |              |
| MH/SA (HEDIS) (n=1,052)                             | 14.9                       | [12.5,17.6]        | 21.0        | [18.1,24.4]        | 61.7           | [57.9,65.4]        | 2.3        | [1.1,4.8]        | 100.0        |
| No MH/SA (n=1,279)                                  | 10.9                       | [8.9,13.3]         | 13.1        | [10.9,15.7]        | 74.1           | [70.9,77.1]        | 1.8        | [1.1,3.1]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 42.5592                    |                    |             |                    |                |                    |            |                  |              |
| Design-based F(2.84, 6583.20) =                     | 7.5758                     |                    | Pr =        | 0.000              |                |                    |            |                  |              |
| <b>Total (n=2,331)</b>                              | <b>12.7</b>                | <b>[11.1,14.4]</b> | <b>16.6</b> | <b>[14.7,18.6]</b> | <b>68.7</b>    | <b>[66.2,71.0]</b> | <b>2.1</b> | <b>[1.3,3.2]</b> | <b>100.0</b> |

### 3.41 Q: Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work?

Universe: Respondents who are employed/self-employed

|   | Yes     |             | Better job at work<br>No |             | Don't know |            | Total<br>Row% |
|---|---------|-------------|--------------------------|-------------|------------|------------|---------------|
|   | Row%    | 95%CI       | Row%                     | 95%CI       | Row%       | 95%CI      |               |
| <b>FPL category</b>                                 |         |             |                          |             |            |            |               |
| 0-35% (n=460)                                       | 73.5    | [68.0,78.4] | 21.6                     | [17.0,26.9] | 4.9        | [3.0,8.0]  | 100.0         |
| 36-99% (n=917)                                      | 69.3    | [65.6,72.7] | 25.7                     | [22.5,29.1] | 5.1        | [3.7,6.9]  | 100.0         |
| ≥ 100%(n = 700)                                     | 64.6    | [60.3,68.6] | 31.4                     | [27.5,35.6] | 4.0        | [2.5,6.3]  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 16.6268 |             |                          |             |            |            |               |
| Design-based F(3.73, 7709.45) =                     | 2.5740  | Pr =        | 0.040                    |             |            |            |               |
| <b>Region</b>                                       |         |             |                          |             |            |            |               |
| UP/NW/NE (n=376)                                    | 67.2    | [61.5,72.5] | 29.9                     | [24.8,35.5] | 2.9        | [1.4,5.7]  | 100.0         |
| W/E Central/E (n=616)                               | 66.6    | [62.2,70.8] | 27.2                     | [23.4,31.4] | 6.2        | [4.1,9.2]  | 100.0         |
| S Central/SW/SE (n=445)                             | 69.8    | [64.6,74.6] | 24.2                     | [20.0,29.1] | 5.9        | [3.9,9.0]  | 100.0         |
| Detroit Metro (n=640)                               | 71.4    | [66.8,75.7] | 24.9                     | [20.9,29.5] | 3.6        | [2.3,5.7]  | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 11.2086 |             |                          |             |            |            |               |
| Design-based F(5.47, 11302.19) =                    | 1.4491  | Pr =        | 0.198                    |             |            |            |               |
| <b>Low healthcare utilizers</b>                     |         |             |                          |             |            |            |               |
| Yes (n=278)   | 55.0    | [47.3,62.6] | 39.5                     | [32.2,47.3] | 5.5        | [3.1,9.4]  | 100.0         |
| No (n=1,799)  | 72.2    | [69.6,74.7] | 23.2                     | [20.9,25.7] | 4.6        | [3.5,6.0]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 41.5849 |             |                          |             |            |            |               |
| Design-based F(1.97, 4061.74) =                     | 11.5738 | Pr =        | 0.000                    |             |            |            |               |
| <b>High ER utilizers</b>                            |         |             |                          |             |            |            |               |
| Yes (n=66)  | 85.7    | [73.3,92.9] | 9.3                      | [3.8,21.0]  | 5.0        | [1.7,14.0] | 100.0         |
| No (n=2,011)  | 68.8    | [66.1,71.3] | 26.5                     | [24.2,29.0] | 4.7        | [3.7,6.0]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.4275 |             |                          |             |            |            |               |
| Design-based F(1.97, 4070.70) =                     | 4.1636  | Pr =        | 0.016                    |             |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                          |             |            |            |               |
| Chronic disease (HEDIS) (n=476)                     | 76.2    | [70.9,80.8] | 19.4                     | [15.1,24.5] | 4.4        | [2.7,7.2]  | 100.0         |
| No chronic disease (n=1,601)                        | 67.7    | [64.7,70.5] | 27.5                     | [24.9,30.4] | 4.8        | [3.6,6.3]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.0068 |             |                          |             |            |            |               |
| Design-based F(1.99, 4100.90) =                     | 4.2137  | Pr =        | 0.015                    |             |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                          |             |            |            |               |
| MH/SA (HEDIS) (n=914)                               | 76.4    | [72.9,79.7] | 19.0                     | [16.1,22.4] | 4.5        | [3.2,6.4]  | 100.0         |
| No MH/SA (n=1,163)                                  | 64.1    | [60.5,67.5] | 31.1                     | [27.8,34.5] | 4.9        | [3.5,6.7]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 39.7535 |             |                          |             |            |            |               |
| Design-based F(2.00, 4128.26) =                     | 13.0380 | Pr =        | 0.000                    |             |            |            |               |
| <b>Total (n=2,077)</b>                              | 69.4    | [66.8,71.8] | 25.9                     | [23.6,28.4] | 4.7        | [3.7,6.0]  | 100.0         |

### 3.42 Q: Have you changed jobs in the last 12 months?

Universe: Respondents who are employed/self-employed

|   | Changed jobs past 12 months |                    |             |                    |            |                  | Total<br>Row% |
|---|-----------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                         |                    | No          |                    | Don't know |                  |               |
|   | Row%                        | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                             |                    |             |                    |            |                  |               |
| 0-35% (n=438)                                       | 38.9                        | [33.0,45.2]        | 61.1        | [54.8,67.0]        | 0.0        |                  | 100.0         |
| 36-99% (n=868)                                      | 21.5                        | [18.2,25.3]        | 78.2        | [74.4,81.6]        | 0.2        | [0.0,1.6]        | 100.0         |
| ≥ 100% (n = 673)                                    | 22.2                        | [18.8,26.1]        | 77.8        | [73.9,81.2]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 67.1483                     |                    |             |                    |            |                  |               |
| Design-based F(3.29, 6466.06) =                     | 12.0175                     | Pr =               | 0.000       |                    |            |                  |               |
| <b>Region</b>                                       |                             |                    |             |                    |            |                  |               |
| UP/NW/NE (n=365)                                    | 22.1                        | [17.7,27.2]        | 77.9        | [72.8,82.3]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=586)                               | 24.3                        | [20.5,28.5]        | 75.7        | [71.5,79.5]        | 0.0        |                  | 100.0         |
| S Central/SW/SE (n=419)                             | 28.7                        | [23.4,34.8]        | 71.3        | [65.2,76.6]        | 0.0        |                  | 100.0         |
| Detroit Metro (n=609)                               | 30.4                        | [25.6,35.7]        | 69.4        | [64.1,74.2]        | 0.2        | [0.0,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 11.9707                     |                    |             |                    |            |                  |               |
| Design-based F(4.18, 8231.33) =                     | 1.8336                      | Pr =               | 0.116       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                             |                    |             |                    |            |                  |               |
| Yes (n=261)   | 29.7                        | [22.4,38.3]        | 70.3        | [61.7,77.6]        | 0.0        |                  | 100.0         |
| No (n=1,718)  | 27.2                        | [24.4,30.1]        | 72.7        | [69.8,75.5]        | 0.1        | [0.0,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2044                      |                    |             |                    |            |                  |               |
| Design-based F(1.94, 3819.57) =                     | 0.2859                      | Pr =               | 0.745       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                             |                    |             |                    |            |                  |               |
| Yes (n=62)  | 18.4                        | [10.0,31.4]        | 81.6        | [68.6,90.0]        | 0.0        |                  | 100.0         |
| No (n=1,917)  | 27.9                        | [25.2,30.8]        | 72.0        | [69.1,74.7]        | 0.1        | [0.0,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2790                      |                    |             |                    |            |                  |               |
| Design-based F(1.98, 3886.02) =                     | 1.0308                      | Pr =               | 0.356       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=454)                     | 22.6                        | [17.9,28.2]        | 76.9        | [71.3,81.7]        | 0.4        | [0.1,3.0]        | 100.0         |
| No chronic disease (n=1,525)                        | 28.8                        | [25.8,32.1]        | 71.2        | [67.9,74.2]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.8376                     |                    |             |                    |            |                  |               |
| Design-based F(2.00, 3932.86) =                     | 3.7453                      | Pr =               | 0.024       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=874)                               | 29.2                        | [25.2,33.6]        | 70.8        | [66.4,74.8]        | 0.0        |                  | 100.0         |
| No MH/SA (n=1,105)                                  | 26.4                        | [22.9,30.2]        | 73.5        | [69.7,77.0]        | 0.2        | [0.0,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2435                      |                    |             |                    |            |                  |               |
| Design-based F(1.99, 3919.29) =                     | 0.8750                      | Pr =               | 0.417       |                    |            |                  |               |
| <b>Total (n=1,979)</b>                              | <b>27.6</b>                 | <b>[24.9,30.4]</b> | <b>72.3</b> | <b>[69.5,75.0]</b> | <b>0.1</b> | <b>[0.0,0.6]</b> | <b>100.0</b>  |

### 3.43 Q: How much do you agree or disagree with the following statement: Having health insurance through the Healthy Michigan Plan helped me get a better job.

Universe: Respondents who have changed jobs in the last 12 months

|   | HMP helped get better job |            |       |             |         |             |          |             |                   |            |            |            | Total<br>Row% |
|---|---------------------------|------------|-------|-------------|---------|-------------|----------|-------------|-------------------|------------|------------|------------|---------------|
|   | Strongly agree            |            | Agree |             | Neutral |             | Disagree |             | Strongly disagree |            | Don't know |            |               |
|   | Row%                      | 95%CI      | Row%  | 95%CI       | Row%    | 95%CI       | Row%     | 95%CI       | Row%              | 95%CI      | Row%       | 95%CI      | Row%          |
| <b>FPL category</b>                                 |                           |            |       |             |         |             |          |             |                   |            |            |            |               |
| 0-35% (n=144)                                       | 9.7                       | [5.1,17.8] | 30.6  | [21.3,41.9] | 20.1    | [13.2,29.4] | 33.0     | [23.8,43.8] | 4.2               | [1.6,10.2] | 2.3        | [0.7,7.2]  | 100.0         |
| 36-99% (n=161)                                      | 6.4                       | [3.4,11.7] | 31.1  | [23.0,40.4] | 22.2    | [15.5,30.8] | 33.4     | [24.5,43.6] | 5.5               | [2.5,11.4] | 1.5        | [0.4,6.0]  | 100.0         |
| ≥ 100% (n = 142)                                    | 5.1                       | [2.3,10.7] | 23.7  | [16.3,33.2] | 23.5    | [16.5,32.3] | 34.5     | [26.5,43.4] | 12.2              | [7.1,20.1] | 1.0        | [0.2,3.9]  | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 12.2184                   |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(9.03, 3929.93) =                     | 0.9444                    |            | Pr =  | 0.485       |         |             |          |             |                   |            |            |            |               |
| <b>Region</b>                                       |                           |            |       |             |         |             |          |             |                   |            |            |            |               |
| UP/NW/NE (n=76)                                     | 6.0                       | [2.3,14.8] | 27.4  | [17.5,40.1] | 24.6    | [15.5,36.8] | 38.1     | [26.9,50.7] | 2.9               | [0.7,11.9] | 1.1        | [0.1,7.2]  | 100.0         |
| W/E Central/E (n=128)                               | 7.5                       | [3.8,14.5] | 22.8  | [15.9,31.4] | 22.4    | [15.0,32.0] | 38.1     | [29.1,48.0] | 8.7               | [4.6,15.8] | 0.5        | [0.1,3.4]  | 100.0         |
| S Central/SW/SE (n=101)                             | 6.6                       | [2.8,15.0] | 35.2  | [23.4,49.1] | 20.0    | [12.9,29.7] | 27.2     | [18.1,38.8] | 6.9               | [3.3,13.7] | 4.1        | [1.4,11.6] | 100.0         |
| Detroit Metro (n=142)                               | 8.5                       | [4.2,16.4] | 30.1  | [21.0,41.0] | 21.2    | [14.1,30.7] | 33.1     | [23.7,44.1] | 5.6               | [2.6,11.9] | 1.5        | [0.3,6.8]  | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 11.5192                   |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(12.31, 5355.18) =                    | 0.6885                    |            | Pr =  | 0.768       |         |             |          |             |                   |            |            |            |               |
| <b>Low healthcare utilizers</b>                     |                           |            |       |             |         |             |          |             |                   |            |            |            |               |
| Yes (n=59)  | 5.6                       | [1.9,15.6] | 29.7  | [15.2,49.9] | 27.9    | [15.7,44.4] | 26.7     | [15.1,42.6] | 5.3               | [2.1,12.6] | 4.9        | [1.2,18.5] | 100.0         |
| No (n=388)  | 8.1                       | [5.1,12.7] | 29.1  | [23.4,35.5] | 20.2    | [15.7,25.6] | 34.9     | [28.8,41.6] | 6.6               | [4.1,10.4] | 1.1        | [0.5,2.6]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 9.2494                    |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.39, 1908.68) =                     | 1.0809                    |            | Pr =  | 0.366       |         |             |          |             |                   |            |            |            |               |
| <b>High ER utilizers</b>                            |                           |            |       |             |         |             |          |             |                   |            |            |            |               |
| Yes (n=15)  | 7.1                       | [1.6,26.1] | 43.6  | [19.8,70.7] | 35.7    | [12.3,68.7] | 7.1      | [1.0,37.7]  | 6.5               | [0.9,35.5] | 0.0        |            | 100.0         |
| No (n=432)  | 7.7                       | [5.0,11.7] | 28.8  | [23.2,35.2] | 21.2    | [16.7,26.4] | 34.1     | [28.4,40.4] | 6.4               | [4.2,9.7]  | 1.8        | [0.8,4.1]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 4.3551                    |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.31, 1876.48) =                     | 0.9792                    |            | Pr =  | 0.422       |         |             |          |             |                   |            |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |            |       |             |         |             |          |             |                   |            |            |            |               |
| Chronic disease (HEDIS) (n=88)                      | 8.2                       | [2.6,23.0] | 28.7  | [18.6,41.4] | 28.8    | [17.2,44.0] | 27.3     | [17.5,40.0] | 5.4               | [2.0,13.5] | 1.7        | [0.4,6.8]  | 100.0         |
| No chronic disease (n=359)                          | 7.6                       | [4.8,11.9] | 29.3  | [23.0,36.4] | 20.1    | [15.5,25.6] | 34.7     | [28.3,41.6] | 6.6               | [4.2,10.3] | 1.8        | [0.7,4.5]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 3.3315                    |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.53, 1970.24) =                     | 0.4901                    |            | Pr =  | 0.766       |         |             |          |             |                   |            |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |            |       |             |         |             |          |             |                   |            |            |            |               |
| MH/SA (HEDIS) (n=221)                               | 7.9                       | [4.1,14.7] | 32.1  | [24.1,41.3] | 20.0    | [14.3,27.4] | 28.6     | [21.2,37.3] | 9.2               | [5.4,15.4] | 2.1        | [0.9,5.2]  | 100.0         |
| No MH/SA (n=226)                                    | 7.5                       | [4.2,13.0] | 26.8  | [19.5,35.5] | 22.7    | [16.5,30.4] | 37.6     | [29.6,46.2] | 4.0               | [2.1,7.6]  | 1.5        | [0.3,6.1]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 9.1531                    |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.89, 2125.78) =                     | 1.1435                    |            | Pr =  | 0.335       |         |             |          |             |                   |            |            |            |               |
| <b>Total (n=447)</b>                                | 7.7                       | [5.0,11.6] | 29.2  | [23.6,35.4] | 21.5    | [17.1,26.7] | 33.5     | [27.8,39.6] | 6.4               | [4.2,9.6]  | 1.8        | [0.8,4.0]  | 100.0         |

### 3.44 Q: How much do you agree or disagree with the following statement: Having health insurance through the Healthy Michigan Plan has made me better able to look for a job.

Universe: Respondents who are out of work for > 1 yr, or out of work for < 1 yr

|   | HMP helped me look for job |             |       |             |         |             |          |             |                   |            |            |            | Total<br>Row% |
|---|----------------------------|-------------|-------|-------------|---------|-------------|----------|-------------|-------------------|------------|------------|------------|---------------|
|   | Strongly agree             |             | Agree |             | Neutral |             | Disagree |             | Strongly disagree |            | Don't know |            |               |
|   | Row%                       | 95%CI       | Row%  | 95%CI       | Row%    | 95%CI       | Row%     | 95%CI       | Row%              | 95%CI      | Row%       | 95%CI      |               |
| <b>FPL category</b>                                 |                            |             |       |             |         |             |          |             |                   |            |            |            |               |
| 0-35% (n=659)                                       | 16.2                       | [13.1,19.8] | 39.3  | [34.9,43.9] | 17.6    | [14.0,21.9] | 17.7     | [14.0,22.1] | 3.6               | [2.3,5.7]  | 5.6        | [3.7,8.2]  | 100.0         |
| 36-99% (n=210)                                      | 20.4                       | [14.5,27.9] | 32.6  | [26.0,40.0] | 23.8    | [16.8,32.6] | 14.4     | [9.5,21.2]  | 4.2               | [2.0,8.6]  | 4.6        | [1.7,11.7] | 100.0         |
| ≥ 100% (n = 88)                                     | 5.6                        | [2.0,14.6]  | 40.0  | [28.9,52.2] | 30.7    | [20.7,42.8] | 16.6     | [10.2,25.9] | 0.4               | [0.1,2.6]  | 6.8        | [2.9,15.3] | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 16.3161                    |             |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(8.70, 8218.13) =                     | 1.6556                     |             | Pr =  | 0.097       |         |             |          |             |                   |            |            |            |               |
| <b>Region</b>                                       |                            |             |       |             |         |             |          |             |                   |            |            |            |               |
| UP/NW/NE (n=158)                                    | 11.2                       | [6.9,17.7]  | 47.9  | [38.8,57.2] | 15.6    | [10.7,22.3] | 15.5     | [10.0,23.4] | 6.3               | [2.5,15.0] | 3.4        | [1.6,7.4]  | 100.0         |
| W/E Central/E (n=317)                               | 16.2                       | [12.1,21.3] | 41.8  | [35.7,48.1] | 19.1    | [14.7,24.4] | 12.3     | [8.6,17.1]  | 1.7               | [0.7,3.7]  | 9.0        | [5.4,14.7] | 100.0         |
| S Central/SW/SE (n=185)                             | 16.1                       | [11.1,22.7] | 41.4  | [32.8,50.5] | 15.0    | [10.5,20.9] | 16.9     | [11.5,24.2] | 5.4               | [2.5,11.0] | 5.2        | [2.4,10.7] | 100.0         |
| Detroit Metro (n=297)                               | 17.0                       | [12.7,22.5] | 33.6  | [27.8,39.9] | 21.5    | [16.0,28.3] | 20.6     | [15.1,27.4] | 3.6               | [1.9,6.8]  | 3.7        | [1.9,7.1]  | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 32.3284                    |             |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(12.82, 12118.19) =                   | 1.8684                     |             | Pr =  | 0.029       |         |             |          |             |                   |            |            |            |               |
| <b>Low healthcare utilizers</b>                     |                            |             |       |             |         |             |          |             |                   |            |            |            |               |
| Yes (n=140)   | 9.7                        | [5.3,17.4]  | 31.5  | [23.4,41.0] | 24.1    | [15.8,35.0] | 22.2     | [14.3,33.0] | 3.7               | [1.2,10.7] | 8.7        | [4.0,17.8] | 100.0         |
| No (n=817)  | 17.7                       | [14.7,21.2] | 40.0  | [35.8,44.2] | 18.1    | [14.9,21.9] | 15.9     | [12.7,19.8] | 3.5               | [2.3,5.2]  | 4.7        | [3.3,6.8]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 18.9666                    |             |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.91, 4644.17) =                     | 1.8554                     |             | Pr =  | 0.100       |         |             |          |             |                   |            |            |            |               |
| <b>High ER utilizers</b>                            |                            |             |       |             |         |             |          |             |                   |            |            |            |               |
| Yes (n=40)  | 21.1                       | [10.7,37.4] | 42.5  | [25.6,61.3] | 18.4    | [5.7,45.4]  | 15.8     | [6.6,33.4]  | 0.0               |            | 2.2        | [0.3,14.5] | 100.0         |
| No (n=917)  | 16.0                       | [13.2,19.1] | 38.1  | [34.3,42.1] | 19.3    | [16.1,23.0] | 17.2     | [14.0,21.0] | 3.7               | [2.5,5.5]  | 5.7        | [4.0,8.0]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 3.6893                     |             |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.14, 3907.58) =                     | 0.4383                     |             | Pr =  | 0.787       |         |             |          |             |                   |            |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |                            |             |       |             |         |             |          |             |                   |            |            |            |               |
| Chronic disease (HEDIS) (n=281)                     | 16.8                       | [12.3,22.4] | 37.6  | [31.0,44.6] | 18.1    | [12.6,25.3] | 17.0     | [11.9,23.9] | 5.8               | [3.1,10.6] | 4.8        | [2.5,8.8]  | 100.0         |
| No chronic disease (n=676)                          | 16.0                       | [12.9,19.7] | 38.6  | [34.2,43.3] | 19.7    | [16.0,24.0] | 17.2     | [13.5,21.6] | 2.8               | [1.7,4.6]  | 5.7        | [3.8,8.6]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 5.2753                     |             |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.90, 4633.07) =                     | 0.7114                     |             | Pr =  | 0.612       |         |             |          |             |                   |            |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                            |             |       |             |         |             |          |             |                   |            |            |            |               |
| MH/SA (HEDIS) (n=510)                               | 17.4                       | [13.7,21.8] | 38.4  | [33.5,43.6] | 19.6    | [15.5,24.3] | 14.5     | [11.1,18.9] | 4.5               | [2.7,7.5]  | 5.6        | [3.5,8.7]  | 100.0         |
| No MH/SA (n=447)                                    | 15.0                       | [11.5,19.5] | 38.2  | [32.7,44.1] | 19.0    | [14.4,24.7] | 19.7     | [14.8,25.7] | 2.6               | [1.4,4.6]  | 5.4        | [3.2,9.1]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 7.1073                     |             |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.91, 4637.11) =                     | 0.8787                     |             | Pr =  | 0.493       |         |             |          |             |                   |            |            |            |               |
| <b>Total (n=957)</b>                                | 16.2                       | [13.5,19.3] | 38.3  | [34.6,42.2] | 19.3    | [16.1,22.9] | 17.2     | [14.0,20.8] | 3.5               | [2.4,5.2]  | 5.5        | [3.9,7.7]  | 100.0         |

### 3.45 Q: In the past 12 months, about how many days were you unable to do your activities because of illness or injury?

Universe: Respondents who are retired, homemakers, or unable to work

|   | Mean   | Std. Dev | CI               | P-value  |
|---|--------|----------|------------------|----------|
| <b>FPL category</b>                                 |        |          |                  | < 0.0001 |
| 0-35% (n=359)                                       | 172.65 | 154.56   | [156.64,188.66]  |          |
| 36-99% (n=247)                                      | 74.70  | 112.00   | [59.72,89.69]    |          |
| ≥ 100%(n = 203)                                     | 85.30  | 131.94   | [67.12,103.47]   |          |
| <b>Region</b>                                       |        |          |                  | 0.2555   |
| UP/NW/NE (n=175)                                    | 106.75 | 140.29   | [85.93,127.57]   |          |
| W/E Central/E (n=260)                               | 133.81 | 150.16   | [115.53,152.09]  |          |
| S Central/SW/SE (n=156)                             | 123.29 | 145.99   | [100.35,146.23]  |          |
| Detroit Metro (n=218)                               | 114.88 | 147.18   | [95.31,134.45]   |          |
| <b>Low healthcare utilizers</b>                     |        |          |                  | < 0.0001 |
| Yes (n=40)  | 48.76  | 99.37    | [16.99,80.56]    |          |
| No (n=769)  | 124.57 | 147.69   | [114.12,135.03]  |          |
| <b>High ER utilizers</b>                            |        |          |                  | 0.0016   |
| Yes (n=41)  | 191.07 | 140.90   | [146.60, 235.55] |          |
| No (n=768)  | 117.08 | 146.00   | [106.73,127.42]  |          |
| <b>Chronic disease (HEDIS)</b>                      |        |          |                  | < 0.0001 |
| Chronic disease (HEDIS) (n=342)                     | 148.96 | 152.46   | [132.74,165.18]  |          |
| No chronic disease (n=467)                          | 100.22 | 138.67   | [87.62,112.83]   |          |
| <b>Mental health/substance use disorder (HEDIS)</b> |        |          |                  | < 0.0001 |
| MH/SA (HEDIS) (n=485)                               | 160.41 | 152.32   | [146.82,174.00]  |          |
| No MH/SA (n=324)                                    | 61.57  | 114.42   | [49.06,74.07]    |          |
| <b>Total (n=809)</b>                                | 120.82 | 146.56   | [110.71,130.94]  |          |

<sup>1</sup> All models were tested for homogeneity of variance using Levene's test

<sup>2</sup> FPL categories violated Levene's test,  $F(2,806) = 40.195$ ,  $p < 0.0001$ ; Welch's ANOVA was used,  $F(2,495.64) = 43.654$ ,  $p < 0.0001$

<sup>3</sup> Region did not violate Levene's test,  $F(3,805) = 1.97$ ,  $p = 0.1168$ ; ANOVA was used,  $F(3,805) = 1.35$ ,  $p = 0.2555$

<sup>4</sup> Low healthcare utilizers violated Levene's test,  $F(1,807) = 35.58$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(48.927) = -4.5689$ ,  $p < 0.0001$

<sup>5</sup> High ER utilizers did not violate Levene's test,  $F(1,807) = 0.521$ ,  $p = 0.4707$ ; Student's t-test was used,  $t(807) = 3.167$ ,  $p = 0.0016$

<sup>6</sup> HEDIS Chronic Disease violated Levene's test,  $F(1,807) = 19.446$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(694.997) = 4.665$ ,  $p < 0.0001$

<sup>7</sup> HEDIS MH/SA violated Levene's test,  $F(1,807) = 128.37$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(798.115) = 10.522$ ,  $p < 0.0001$



### 3.46 Q: Compared to the 12 months before this time, was this more, less, or about the same?

Universe: Respondents who are either retired, homemaker, or unable to work

|   | Activity days missed more/less |             |       |             |                |             |            |            |       |
|---|--------------------------------|-------------|-------|-------------|----------------|-------------|------------|------------|-------|
|   | More                           |             | Less  |             | About the same |             | Don't know |            | Total |
|   | Row%                           | 95%CI       | Row%  | 95%CI       | Row%           | 95%CI       | Row%       | 95%CI      | Row%  |
| <b>FPL category</b>                                 |                                |             |       |             |                |             |            |            |       |
| 0-35% (n=382)                                       | 20.4                           | [15.6,26.1] | 20.2  | [15.2,26.2] | 56.8           | [50.4,63.1] | 2.6        | [1.3,5.2]  | 100.0 |
| 36-99% (n=263)                                      | 16.1                           | [11.6,21.8] | 14.4  | [10.3,19.9] | 65.9           | [58.7,72.4] | 3.6        | [1.3,9.7]  | 100.0 |
| ≥ 100% (n = 214)                                    | 16.6                           | [11.5,23.4] | 9.8   | [6.4,14.8]  | 68.0           | [60.0,75.0] | 5.6        | [2.3,13.0] | 100.0 |
| Pearson: Uncorrected chi2(6) =                      | 17.0486                        |             |       |             |                |             |            |            |       |
| Design-based F(5.57, 4718.37) =                     | 1.9748                         | Pr =        | 0.071 |             |                |             |            |            |       |
| <b>Region</b>                                       |                                |             |       |             |                |             |            |            |       |
| UP/NW/NE (n=184)                                    | 16.2                           | [11.0,23.2] | 12.8  | [8.4,18.9]  | 67.7           | [59.8,74.8] | 3.3        | [1.4,7.7]  | 100.0 |
| W/E Central/E (n=278)                               | 20.6                           | [15.7,26.6] | 16.4  | [11.8,22.3] | 62.0           | [55.2,68.3] | 1.1        | [0.3,3.6]  | 100.0 |
| S Central/SW/SE (n=164)                             | 17.6                           | [11.6,25.8] | 17.4  | [10.9,26.5] | 63.0           | [53.6,71.6] | 2.0        | [0.7,5.5]  | 100.0 |
| Detroit Metro (n=233)                               | 18.1                           | [12.7,25.3] | 18.0  | [12.4,25.3] | 58.1           | [50.1,65.8] | 5.8        | [3.0,10.7] | 100.0 |
| Pearson: Uncorrected chi2(9) =                      | 14.2956                        |             |       |             |                |             |            |            |       |
| Design-based F(7.71, 6532.88) =                     | 1.2846                         | Pr =        | 0.248 |             |                |             |            |            |       |
| <b>Low healthcare utilizers</b>                     |                                |             |       |             |                |             |            |            |       |
| Yes (n=40)  | 20.4                           | [5.0,55.4]  | 17.8  | [5.5,44.5]  | 60.0           | [34.9,80.7] | 1.9        | [0.3,12.4] | 100.0 |
| No (n=819)  | 18.5                           | [15.4,22.1] | 16.8  | [13.6,20.6] | 61.2           | [56.8,65.4] | 3.5        | [2.1,5.7]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 0.3854                         |             |       |             |                |             |            |            |       |
| Design-based F(2.25, 1909.12) =                     | 0.0565                         | Pr =        | 0.959 |             |                |             |            |            |       |
| <b>High ER utilizers</b>                            |                                |             |       |             |                |             |            |            |       |
| Yes (n=45)  | 17.9                           | [8.5,33.8]  | 17.2  | [7.4,35.1]  | 62.6           | [44.9,77.4] | 2.4        | [0.6,9.3]  | 100.0 |
| No (n=814)  | 18.6                           | [15.4,22.5] | 16.8  | [13.5,20.7] | 61.1           | [56.6,65.4] | 3.5        | [2.1,5.7]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 0.2349                         |             |       |             |                |             |            |            |       |
| Design-based F(2.68, 2267.13) =                     | 0.0555                         | Pr =        | 0.975 |             |                |             |            |            |       |
| <b>Chronic disease (HEDIS)</b>                      |                                |             |       |             |                |             |            |            |       |
| Chronic disease (HEDIS) (n=370)                     | 18.7                           | [14.6,23.6] | 13.0  | [9.1,18.3]  | 66.2           | [60.1,71.9] | 2.1        | [1.0,4.1]  | 100.0 |
| No chronic disease (n=489)                          | 18.5                           | [14.1,23.9] | 19.5  | [15.1,24.9] | 57.6           | [51.7,63.2] | 4.4        | [2.4,7.9]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 11.0727                        |             |       |             |                |             |            |            |       |
| Design-based F(2.94, 2486.40) =                     | 2.4010                         | Pr =        | 0.067 |             |                |             |            |            |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                |             |       |             |                |             |            |            |       |
| MH/SA (HEDIS) (n=521)                               | 19.2                           | [15.5,23.5] | 18.4  | [14.3,23.4] | 58.6           | [53.1,63.8] | 3.9        | [2.1,6.9]  | 100.0 |
| No MH/SA (n=338)                                    | 17.6                           | [12.1,24.8] | 14.1  | [9.8,19.9]  | 65.6           | [58.2,72.3] | 2.7        | [1.1,6.2]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 4.8668                         |             |       |             |                |             |            |            |       |
| Design-based F(2.99, 2530.06) =                     | 0.8910                         | Pr =        | 0.445 |             |                |             |            |            |       |
| <b>Total (n=859)</b>                                | 18.6                           | [15.4,22.2] | 16.8  | [13.7,20.6] | 61.2           | [56.8,65.3] | 3.4        | [2.1,5.5]  | 100.0 |

### 3.47 Q: During the 12 months before you were enrolled in the Healthy Michigan Plan, about how much did you spend out-of-pocket for your own medical and dental care?

Universe: All respondents

|   | OOP categories pre-HMP |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
|---|------------------------|-------------|----------|------------|-----------|-------------|------------|-------------|-------------|------------|-------------|-----------|------------------|------------|------------|-----------|-------|
|   | Less than \$50         |             | \$51-100 |            | \$101-500 |             | \$501-2000 |             | \$2001-3000 |            | \$3001-5000 |           | More than \$5000 |            | Don't know |           | Total |
|   | Row%                   | 95%CI       | Row%     | 95%CI      | Row%      | 95%CI       | Row%       | 95%CI       | Row%        | 95%CI      | Row%        | 95%CI     | Row%             | 95%CI      | Row%       | 95%CI     | Row%  |
| <b>FPL category</b>                                 |                        |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| 0-35% (n=1,596)                                     | 44.8                   | [41.8,47.9] | 8.7      | [7.1,10.6] | 20.8      | [18.3,23.6] | 12.8       | [10.9,14.9] | 4.8         | [3.5,6.5]  | 2.8         | [2.0,4.0] | 2.4              | [1.7,3.5]  | 2.8        | [1.9,4.2] | 100.0 |
| 36-99% (n=1,447)                                    | 39.9                   | [36.9,43.0] | 8.7      | [7.3,10.4] | 25.7      | [22.9,28.7] | 14.6       | [12.6,17.0] | 3.4         | [2.5,4.6]  | 3.0         | [2.2,4.2] | 2.1              | [1.3,3.2]  | 2.6        | [1.6,4.1] | 100.0 |
| ≥ 100% (n = 1,039)                                  | 39.4                   | [35.9,43.0] | 9.9      | [7.9,12.2] | 24.0      | [21.1,27.2] | 17.9       | [15.4,20.7] | 3.0         | [2.0,4.3]  | 2.1         | [1.4,3.1] | 2.4              | [1.4,4.1]  | 1.4        | [0.8,2.5] | 100.0 |
| Pearson: Uncorrected chi2(14) =                     | 40.0503                |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Design-based F(13.19, 53703.13) =                   | 2.1128                 | Pr = 0.010  |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| <b>Region</b>                                       |                        |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| UP/NW/NE (n=745)                                    | 39.6                   | [35.7,43.7] | 7.3      | [5.6,9.6]  | 23.2      | [19.9,26.8] | 17.9       | [14.9,21.4] | 4.1         | [2.8,6.0]  | 2.8         | [1.8,4.3] | 3.8              | [2.4,5.9]  | 1.2        | [0.6,2.2] | 100.0 |
| W/E Central/E (n=1,262)                             | 44.2                   | [41.0,47.4] | 9.6      | [7.8,11.7] | 22.5      | [19.9,25.3] | 13.8       | [11.8,16.0] | 2.6         | [1.8,3.7]  | 2.9         | [2.1,4.1] | 2.8              | [1.9,4.0]  | 1.7        | [1.1,2.5] | 100.0 |
| S Central/SW/SE (n=836)                             | 42.6                   | [38.6,46.7] | 8.6      | [6.4,11.6] | 22.2      | [18.9,25.8] | 15.0       | [12.4,17.9] | 4.9         | [3.2,7.5]  | 2.8         | [1.8,4.3] | 1.4              | [0.7,2.7]  | 2.6        | [1.6,4.2] | 100.0 |
| Detroit Metro (n=1,239)                             | 41.6                   | [38.2,45.1] | 9.0      | [7.3,11.0] | 23.3      | [20.4,26.4] | 13.7       | [11.5,16.2] | 4.6         | [3.3,6.4]  | 2.5         | [1.6,3.9] | 2.1              | [1.3,3.5]  | 3.2        | [2.1,5.0] | 100.0 |
| Pearson: Uncorrected chi2(21) =                     | 34.6535                |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Design-based F(18.05, 73481.70) =                   | 1.3177                 | Pr = 0.164  |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| <b>Low healthcare utilizers</b>                     |                        |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Yes (n=490)   | 53.3                   | [47.4,59.1] | 7.9      | [5.0,12.3] | 21.5      | [16.8,27.0] | 8.4        | [6.1,11.5]  | 2.6         | [1.3,5.1]  | 1.8         | [0.9,3.6] | 1.2              | [0.4,3.5]  | 3.3        | [1.6,6.7] | 100.0 |
| No (n=3,592)  | 40.4                   | [38.4,42.4] | 9.1      | [8.1,10.3] | 23.1      | [21.4,24.9] | 15.4       | [14.0,16.9] | 4.3         | [3.4,5.3]  | 2.9         | [2.3,3.6] | 2.5              | [1.9,3.3]  | 2.3        | [1.7,3.2] | 100.0 |
| Pearson: Uncorrected chi2(7) =                      | 51.9776                |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Design-based F(6.68, 27180.35) =                    | 3.4986                 | Pr = 0.001  |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| <b>High ER utilizers</b>                            |                        |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Yes (n=156)   | 40.8                   | [31.3,51.2] | 4.4      | [1.7,11.4] | 18.3      | [12.3,26.4] | 16.5       | [10.8,24.4] | 9.7         | [4.2,20.7] | 2.8         | [1.2,6.8] | 6.9              | [3.5,13.1] | 0.5        | [0.1,3.2] | 100.0 |
| No (n=3,926)  | 42.4                   | [40.5,44.4] | 9.2      | [8.1,10.4] | 23.0      | [21.4,24.8] | 14.2       | [12.9,15.6] | 3.8         | [3.0,4.7]  | 2.7         | [2.2,3.4] | 2.1              | [1.6,2.8]  | 2.6        | [1.9,3.4] | 100.0 |
| Pearson: Uncorrected chi2(7) =                      | 42.1470                |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Design-based F(6.01, 24445.33) =                    | 3.5603                 | Pr = 0.002  |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| <b>Chronic disease (HEDIS)</b>                      |                        |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Chronic disease (HEDIS) (n=1,159)                   | 35.5                   | [32.1,39.0] | 7.8      | [6.3,9.7]  | 25.5      | [22.5,28.8] | 15.6       | [13.2,18.3] | 5.3         | [3.8,7.2]  | 4.0         | [2.8,5.7] | 3.3              | [2.2,4.9]  | 3.0        | [1.7,5.3] | 100.0 |
| No chronic disease (n=2,923)                        | 44.7                   | [42.3,47.0] | 9.3      | [8.1,10.8] | 21.9      | [20.0,24.0] | 13.9       | [12.4,15.5] | 3.6         | [2.7,4.7]  | 2.3         | [1.7,3.0] | 2.0              | [1.4,2.8]  | 2.3        | [1.7,3.2] | 100.0 |
| Pearson: Uncorrected chi2(7) =                      | 43.8700                |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Design-based F(6.60, 26877.87) =                    | 3.8942                 | Pr = 0.000  |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |                        |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| MH/SA (HEDIS) (n=2,029)                             | 40.9                   | [38.2,43.7] | 8.4      | [7.0,10.1] | 22.1      | [19.8,24.5] | 15.6       | [13.8,17.6] | 5.1         | [3.8,6.7]  | 3.3         | [2.5,4.4] | 2.6              | [1.9,3.6]  | 2.0        | [1.3,3.0] | 100.0 |
| No MH/SA (n=2,053)                                  | 43.7                   | [40.9,46.5] | 9.4      | [8.0,11.1] | 23.6      | [21.2,26.1] | 13.1       | [11.4,15.0] | 3.0         | [2.2,4.2]  | 2.2         | [1.5,3.0] | 2.1              | [1.4,3.1]  | 2.9        | [2.0,4.3] | 100.0 |
| Pearson: Uncorrected chi2(7) =                      | 29.3855                |             |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| Design-based F(6.91, 28130.95) =                    | 2.4848                 | Pr = 0.015  |          |            |           |             |            |             |             |            |             |           |                  |            |            |           |       |
| <b>Total</b> (n=4,082)                              | 42.4                   | [40.4,44.3] | 8.9      | [7.9,10.1] | 22.8      | [21.2,24.6] | 14.3       | [13.0,15.7] | 4.0         | [3.3,5.0]  | 2.7         | [2.2,3.4] | 2.3              | [1.8,3.0]  | 2.5        | [1.9,3.3] | 100.0 |

### 3.48 Q: In the 12 months before enrolling in the Healthy Michigan Plan, did you have problems paying medical bills?

Universe: All respondents

|   | Problems paying bills pre-HMP |                    |             |                    |            |                  | Total<br>Row% |
|---|-------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                           |                    | No          |                    | Don't know |                  |               |
|   | Row%                          | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                               |                    |             |                    |            |                  |               |
| 0-35% (n=1,597)                                     | 47.2                          | [44.1,50.3]        | 52.7        | [49.6,55.8]        | 0.1        | [0.0,0.5]        | 100.0         |
| 36-99% (n=1,448)                                    | 41.8                          | [38.7,44.8]        | 57.3        | [54.2,60.3]        | 1.0        | [0.5,1.8]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 42.4                          | [38.9,45.9]        | 57.2        | [53.7,60.7]        | 0.4        | [0.2,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 21.5757                       |                    |             |                    |            |                  |               |
| Design-based F(3.80, 15488.37) =                    | 4.6495                        | Pr =               | 0.001       |                    |            |                  |               |
| <b>Region</b>                                       |                               |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 46.8                          | [42.7,50.9]        | 52.9        | [48.8,57.0]        | 0.3        | [0.1,0.9]        | 100.0         |
| W/E Central/E (n=1,263)                             | 43.4                          | [40.3,46.6]        | 56.0        | [52.8,59.1]        | 0.6        | [0.3,1.3]        | 100.0         |
| S Central/SW/SE (n=835)                             | 46.5                          | [42.4,50.6]        | 52.9        | [48.8,56.9]        | 0.6        | [0.3,1.6]        | 100.0         |
| Detroit Metro (n=1,241)                             | 44.3                          | [40.9,47.8]        | 55.4        | [51.9,58.8]        | 0.3        | [0.1,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 5.4197                        |                    |             |                    |            |                  |               |
| Design-based F(5.16, 21001.27) =                    | 0.8452                        | Pr =               | 0.520       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                               |                    |             |                    |            |                  |               |
| Yes (n=490)   | 33.1                          | [27.9,38.8]        | 66.8        | [61.1,72.0]        | 0.1        | [0.0,0.9]        | 100.0         |
| No (n=3,595)  | 46.8                          | [44.7,48.8]        | 52.8        | [50.7,54.8]        | 0.5        | [0.3,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 42.5298                       |                    |             |                    |            |                  |               |
| Design-based F(1.65, 6735.81) =                     | 14.7870                       | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                               |                    |             |                    |            |                  |               |
| Yes (n=156)   | 62.9                          | [52.2,72.4]        | 36.4        | [26.9,47.1]        | 0.7        | [0.1,4.9]        | 100.0         |
| No (n=3,929)  | 43.8                          | [41.9,45.8]        | 55.7        | [53.7,57.7]        | 0.4        | [0.3,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 26.1857                       |                    |             |                    |            |                  |               |
| Design-based F(1.89, 7684.95) =                     | 7.7318                        | Pr =               | 0.001       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 56.6                          | [53.0,60.2]        | 43.0        | [39.5,46.7]        | 0.4        | [0.1,1.1]        | 100.0         |
| No chronic disease (n=2,925)                        | 40.7                          | [38.4,43.0]        | 58.9        | [56.6,61.1]        | 0.5        | [0.3,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 78.8906                       |                    |             |                    |            |                  |               |
| Design-based F(1.97, 8029.31) =                     | 29.7041                       | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,031)                             | 52.1                          | [49.3,54.8]        | 47.7        | [44.9,50.5]        | 0.2        | [0.1,0.5]        | 100.0         |
| No MH/SA (n=2,054)                                  | 37.8                          | [35.1,40.5]        | 61.6        | [58.9,64.3]        | 0.6        | [0.4,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 86.6345                       |                    |             |                    |            |                  |               |
| Design-based F(1.80, 7329.93) =                     | 34.8948                       | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=4,085)</b>                              | <b>44.7</b>                   | <b>[42.7,46.6]</b> | <b>54.9</b> | <b>[52.9,56.8]</b> | <b>0.4</b> | <b>[0.3,0.7]</b> | <b>100.0</b>  |

### 3.49 Q: Have you been contacted by a collections agency?

Universe: Respondents who had problems paying medical bills

|   | Contacted by collections |                    |             |                    |            |                  | Total<br>Row% |
|---|--------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                      |                    | No          |                    | Don't know |                  |               |
|   | Row%                     | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                          |                    |             |                    |            |                  |               |
| 0-35% (n=772)                                       | 68.2                     | [63.8,72.2]        | 30.4        | [26.4,34.7]        | 1.4        | [0.6,3.3]        | 100.0         |
| 36-99% (n=641)                                      | 67.4                     | [63.1,71.5]        | 31.6        | [27.6,35.9]        | 1.0        | [0.5,2.0]        | 100.0         |
| ≥ 100% (n = 456)                                    | 63.7                     | [58.5,68.7]        | 36.3        | [31.3,41.5]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 8.5488                   |                    |             |                    |            |                  |               |
| Design-based F(3.17, 5888.30) =                     | 1.4440                   | Pr =               | 0.226       |                    |            |                  |               |
| <b>Region</b>                                       |                          |                    |             |                    |            |                  |               |
| UP/NW/NE (n=354)                                    | 68.3                     | [62.7,73.4]        | 31.2        | [26.1,36.8]        | 0.5        | [0.1,2.3]        | 100.0         |
| W/E Central/E (n=564)                               | 64.5                     | [59.9,68.9]        | 35.2        | [30.8,39.9]        | 0.3        | [0.1,1.2]        | 100.0         |
| S Central/SW/SE (n=407)                             | 72.5                     | [67.3,77.1]        | 26.1        | [21.6,31.3]        | 1.4        | [0.6,3.2]        | 100.0         |
| Detroit Metro (n=544)                               | 66.2                     | [61.1,71.0]        | 32.4        | [27.6,37.4]        | 1.4        | [0.5,3.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 12.8122                  |                    |             |                    |            |                  |               |
| Design-based F(5.06, 9405.06) =                     | 1.8892                   | Pr =               | 0.092       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                          |                    |             |                    |            |                  |               |
| Yes (n=165)   | 66.4                     | [56.1,75.3]        | 31.3        | [22.8,41.3]        | 2.3        | [0.3,14.6]       | 100.0         |
| No (n=1,704)  | 67.2                     | [64.4,70.0]        | 31.9        | [29.2,34.8]        | 0.9        | [0.5,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.9907                   |                    |             |                    |            |                  |               |
| Design-based F(1.83, 3405.60) =                     | 0.6572                   | Pr =               | 0.506       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                          |                    |             |                    |            |                  |               |
| Yes (n=106)   | 82.7                     | [68.0,91.5]        | 16.9        | [8.1,31.7]         | 0.5        | [0.1,3.4]        | 100.0         |
| No (n=1,763)  | 66.1                     | [63.2,68.9]        | 32.8        | [30.1,35.7]        | 1.1        | [0.5,2.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 13.5449                  |                    |             |                    |            |                  |               |
| Design-based F(1.41, 2620.75) =                     | 3.8984                   | Pr =               | 0.034       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                          |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=666)                     | 70.3                     | [66.1,74.3]        | 28.9        | [25.0,33.1]        | 0.8        | [0.3,2.2]        | 100.0         |
| No chronic disease (n=1,203)                        | 65.7                     | [62.1,69.1]        | 33.2        | [29.8,36.8]        | 1.1        | [0.5,2.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.0902                   |                    |             |                    |            |                  |               |
| Design-based F(1.99, 3703.01) =                     | 1.3692                   | Pr =               | 0.254       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                          |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=1,077)                             | 71.9                     | [68.4,75.1]        | 27.5        | [24.3,31.0]        | 0.7        | [0.3,1.5]        | 100.0         |
| No MH/SA (n=792)                                    | 61.1                     | [56.6,65.4]        | 37.4        | [33.2,41.9]        | 1.5        | [0.6,3.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 25.3295                  |                    |             |                    |            |                  |               |
| Design-based F(2.00, 3708.11) =                     | 7.3983                   | Pr =               | 0.001       |                    |            |                  |               |
| <b>Total (n=1,869)</b>                              | <b>67.1</b>              | <b>[64.4,69.8]</b> | <b>31.8</b> | <b>[29.2,34.6]</b> | <b>1.0</b> | <b>[0.5,2.0]</b> | <b>100.0</b>  |

### 3.50 Q: Have you thought about filing for bankruptcy?

Universe: Respondents who had problems paying medical bills

|   | Thought about bankruptcy |                    |             |                    |            |                  | Total<br>Row% |
|---|--------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                      |                    | No          |                    | Don't know |                  |               |
|   | Row%                     | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                          |                    |             |                    |            |                  |               |
| 0-35% (n=772)                                       | 33.5                     | [29.4,37.8]        | 66.2        | [61.9,70.3]        | 0.3        | [0.1,0.9]        | 100.0         |
| 36-99% (n=641)                                      | 26.7                     | [22.9,30.9]        | 72.8        | [68.6,76.6]        | 0.5        | [0.1,2.2]        | 100.0         |
| ≥ 100%(n = 456)                                     | 28.3                     | [23.8,33.4]        | 71.3        | [66.3,75.9]        | 0.3        | [0.0,2.3]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 8.6600                   |                    |             |                    |            |                  |               |
| Design-based F(3.91, 7269.77) =                     | 1.7727                   | Pr =               | 0.133       |                    |            |                  |               |
| <b>Region</b>                                       |                          |                    |             |                    |            |                  |               |
| UP/NW/NE (n=354)                                    | 29.1                     | [24.0,34.7]        | 70.9        | [65.3,76.0]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=564)                               | 30.0                     | [25.8,34.6]        | 69.3        | [64.7,73.6]        | 0.6        | [0.2,2.2]        | 100.0         |
| S Central/SW/SE (n=407)                             | 25.3                     | [20.6,30.7]        | 74.1        | [68.7,78.9]        | 0.5        | [0.1,2.2]        | 100.0         |
| Detroit Metro (n=544)                               | 33.9                     | [29.2,39.0]        | 66.0        | [60.9,70.7]        | 0.1        | [0.0,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 12.3242                  |                    |             |                    |            |                  |               |
| Design-based F(5.59, 10380.97) =                    | 1.7358                   | Pr =               | 0.114       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                          |                    |             |                    |            |                  |               |
| Yes (n=165)   | 28.5                     | [20.3,38.4]        | 71.5        | [61.6,79.7]        | 0.0        |                  | 100.0         |
| No (n=1,704)  | 31.0                     | [28.3,33.9]        | 68.6        | [65.7,71.3]        | 0.4        | [0.2,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.4068                   |                    |             |                    |            |                  |               |
| Design-based F(1.85, 3429.93) =                     | 0.4211                   | Pr =               | 0.640       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                          |                    |             |                    |            |                  |               |
| Yes (n=106)   | 36.6                     | [26.3,48.2]        | 63.4        | [51.8,73.7]        | 0.0        |                  | 100.0         |
| No (n=1,763)  | 30.3                     | [27.6,33.2]        | 69.3        | [66.5,72.0]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.3431                   |                    |             |                    |            |                  |               |
| Design-based F(1.96, 3630.79) =                     | 0.8364                   | Pr =               | 0.431       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                          |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=666)                     | 36.2                     | [31.8,40.8]        | 63.8        | [59.2,68.2]        | 0.0        |                  | 100.0         |
| No chronic disease (n=1,203)                        | 28.2                     | [25.0,31.6]        | 71.3        | [67.9,74.5]        | 0.5        | [0.2,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.7257                  |                    |             |                    |            |                  |               |
| Design-based F(1.97, 3653.87) =                     | 5.4845                   | Pr =               | 0.004       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                          |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=1,077)                             | 35.6                     | [32.1,39.3]        | 63.9        | [60.2,67.5]        | 0.5        | [0.2,1.2]        | 100.0         |
| No MH/SA (n=792)                                    | 24.4                     | [20.7,28.6]        | 75.4        | [71.3,79.1]        | 0.1        | [0.0,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 29.1395                  |                    |             |                    |            |                  |               |
| Design-based F(1.93, 3584.83) =                     | 10.2524                  | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=1,869)</b>                              | <b>30.7</b>              | <b>[28.1,33.5]</b> | <b>68.9</b> | <b>[66.2,71.6]</b> | <b>0.3</b> | <b>[0.1,0.8]</b> | <b>100.0</b>  |

### 3.51 Q: Did you file for bankruptcy?

Universe: Respondents who filed for bankruptcy

|   | Filed for bankruptcy |             |       |             |            |           | Total<br>Row% |
|---|----------------------|-------------|-------|-------------|------------|-----------|---------------|
|   | Yes                  |             | No    |             | Don't know |           |               |
|   | Row%                 | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                      |             |       |             |            |           |               |
| 0-35% (n=247)                                       | 15.7                 | [10.7,22.4] | 82.9  | [75.9,88.2] | 1.4        | [0.3,7.2] | 100.0         |
| 36-99% (n=177)                                      | 33.5                 | [26.1,41.9] | 66.5  | [58.1,73.9] | 0.0        |           | 100.0         |
| ≥ 100% (n = 135)                                    | 25.2                 | [17.5,34.7] | 74.8  | [65.3,82.5] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 21.1413              |             |       |             |            |           |               |
| Design-based F(2.58, 1410.75) =                     | 3.4268               | Pr =        | 0.022 |             |            |           |               |
| <b>Region</b>                                       |                      |             |       |             |            |           |               |
| UP/NW/NE (n=104)                                    | 17.7                 | [10.4,28.3] | 80.8  | [70.0,88.4] | 1.5        | [0.2,9.9] | 100.0         |
| W/E Central/E (n=166)                               | 21.3                 | [15.1,29.1] | 78.7  | [70.9,84.9] | 0.0        |           | 100.0         |
| S Central/SW/SE (n=100)                             | 22.2                 | [15.0,31.5] | 77.8  | [68.5,85.0] | 0.0        |           | 100.0         |
| Detroit Metro (n=189)                               | 22.0                 | [15.7,29.9] | 76.6  | [68.4,83.2] | 1.5        | [0.2,9.7] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 4.0444               |             |       |             |            |           |               |
| Design-based F(3.47, 1898.09) =                     | 0.4917               | Pr =        | 0.715 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                      |             |       |             |            |           |               |
| Yes (n=45)  | 24.4                 | [11.9,43.4] | 75.6  | [56.6,88.1] | 0.0        |           | 100.0         |
| No (n=514)  | 21.1                 | [17.1,25.7] | 78.0  | [73.2,82.1] | 0.9        | [0.2,4.8] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.8408               |             |       |             |            |           |               |
| Design-based F(1.90, 1038.01) =                     | 0.1585               | Pr =        | 0.843 |             |            |           |               |
| <b>High ER utilizers</b>                            |                      |             |       |             |            |           |               |
| Yes (n=38)  | 12.6                 | [3.7,35.1]  | 87.4  | [64.9,96.3] | 0.0        |           | 100.0         |
| No (n=521)  | 22.1                 | [18.1,26.8] | 77.0  | [72.1,81.2] | 0.9        | [0.2,4.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.5347               |             |       |             |            |           |               |
| Design-based F(1.91, 1042.80) =                     | 0.4858               | Pr =        | 0.606 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                      |             |       |             |            |           |               |
| Chronic disease (HEDIS) (n=230)                     | 26.8                 | [20.5,34.3] | 73.2  | [65.7,79.5] | 0.0        |           | 100.0         |
| No chronic disease (n=329)                          | 18.2                 | [13.6,24.0] | 80.5  | [74.3,85.4] | 1.3        | [0.2,6.8] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 8.2207               |             |       |             |            |           |               |
| Design-based F(1.75, 954.96) =                      | 1.7022               | Pr =        | 0.187 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                      |             |       |             |            |           |               |
| MH/SA (HEDIS) (n=363)                               | 22.5                 | [17.5,28.4] | 76.3  | [70.1,81.5] | 1.3        | [0.2,6.6] | 100.0         |
| No MH/SA (n=196)                                    | 19.5                 | [14.0,26.6] | 80.5  | [73.4,86.0] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2850               |             |       |             |            |           |               |
| Design-based F(1.71, 936.80) =                      | 0.6959               | Pr =        | 0.478 |             |            |           |               |
| <b>Total (n=559)</b>                                | 21.4                 | [17.6,25.9] | 77.7  | [73.1,81.8] | 0.8        | [0.2,4.4] | 100.0         |

### 3.52 Q: In the last 12 months, about how much did you spend out-of-pocket for your own medical and dental care?

Universe: All respondents

|   | OOP categories for all respondents post-HMP |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           | Total<br>Row% |
|---|---|-------------|----------|-------------|-----------|-------------|------------|-----------|-------------|-----------|-------------|-----------|------------------|-----------|------------|-----------|---------------|
|   | Less than \$50                              |             | \$51-100 |             | \$101-500 |             | \$501-2000 |           | \$2001-3000 |           | \$3001-5000 |           | More than \$5000 |           | Don't know |           |               |
|   | Row%  | 95%CI       | Row%     | 95%CI       | Row%      | 95%CI       | Row%       | 95%CI     | Row%        | 95%CI     | Row%        | 95%CI     | Row%             | 95%CI     | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |   |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| 0-35% (n=1,591)                                     | 70.4  | [67.4,73.3] | 9.8      | [8.1,11.9]  | 13.7      | [11.6,16.2] | 3.2        | [2.3,4.4] | 0.8         | [0.4,1.8] | 0.1         | [0.1,0.4] | 0.3              | [0.1,1.0] | 1.6        | [1.0,2.8] | 100.0         |
| 36-99% (n=1,445)                                    | 59.3  | [56.2,62.4] | 13.4     | [11.4,15.6] | 17.7      | [15.2,20.4] | 5.8        | [4.5,7.5] | 1.0         | [0.6,1.8] | 0.6         | [0.2,1.6] | 0.4              | [0.1,1.1] | 1.9        | [1.1,3.1] | 100.0         |
| ≥ 100% (n = 1,040)                                  | 50.2  | [46.6,53.8] | 14.7     | [12.4,17.4] | 25.6      | [22.6,28.8] | 7.3        | [5.7,9.3] | 0.7         | [0.3,1.4] | 0.2         | [0.1,0.7] | 0.2              | [0.0,0.8] | 1.2        | [0.6,2.1] | 100.0         |
| Pearson: Uncorrected chi2(14) =                     | 137.3446                                    |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Design-based F(12.62, 51279.32) =                   | 7.1594                                      | Pr = 0.000  |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| <b>Region</b>                                       |   |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| UP/NW/NE (n=746)                                    | 58.1  | [54.0,62.0] | 14.4     | [11.8,17.6] | 19.0      | [16.1,22.3] | 4.5        | [3.1,6.6] | 1.2         | [0.5,2.7] | 0.4         | [0.2,1.1] | 0.3              | [0.1,0.9] | 2.1        | [1.0,4.0] | 100.0         |
| W/E Central/E (n=1,261)                             | 65.9  | [62.8,68.8] | 12.5     | [10.5,14.8] | 15.6      | [13.4,18.1] | 4.5        | [3.4,6.0] | 0.3         | [0.1,0.8] | 0.2         | [0.1,0.6] | 0.2              | [0.0,0.7] | 0.9        | [0.5,1.5] | 100.0         |
| S Central/SW/SE (n=833)                             | 59.8  | [55.7,63.9] | 10.8     | [8.4,13.8]  | 21.8      | [18.3,25.7] | 5.4        | [4.0,7.3] | 0.7         | [0.3,1.7] | 0.1         | [0.0,0.6] | 0.1              | [0.0,0.5] | 1.3        | [0.7,2.4] | 100.0         |
| Detroit Metro (n=1,236)                             | 64.1  | [60.7,67.3] | 11.2     | [9.3,13.5]  | 15.9      | [13.5,18.7] | 4.6        | [3.5,6.2] | 1.2         | [0.6,2.3] | 0.4         | [0.1,1.1] | 0.4              | [0.1,1.3] | 2.2        | [1.3,3.6] | 100.0         |
| Pearson: Uncorrected chi2(21) =                     | 41.9165                                     |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Design-based F(17.96, 73001.26) =                   | 1.8391                                      | Pr = 0.016  |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| <b>Low healthcare utilizers</b>                     |   |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Yes (n=489)   | 69.8  | [64.2,74.8] | 10.9     | [7.8,14.9]  | 13.4      | [9.7,18.3]  | 3.9        | [2.5,6.0] | 0.3         | [0.1,1.0] | 0.3         | [0.1,0.9] | 0.7              | [0.2,3.5] | 0.7        | [0.3,1.6] | 100.0         |
| No (n=3,587)  | 62.1  | [60.0,64.1] | 12.0     | [10.7,13.4] | 17.9      | [16.3,19.6] | 4.9        | [4.1,5.8] | 0.9         | [0.6,1.5] | 0.3         | [0.1,0.6] | 0.2              | [0.1,0.4] | 1.8        | [1.3,2.5] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 24.7440                                     |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Design-based F(5.77, 23444.04) =                    | 2.4322                                      | Pr = 0.026  |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| <b>High ER utilizers</b>                            |   |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Yes (n=155)   | 69.3  | [60.1,77.1] | 5.6      | [2.7,11.1]  | 17.3      | [11.6,25.1] | 3.0        | [1.4,6.3] | 0.7         | [0.2,2.8] | 1.4         | [0.2,9.5] | 0.3              | [0.0,2.2] | 2.4        | [0.7,7.8] | 100.0         |
| No (n=3,921)  | 63.0  | [61.0,64.9] | 12.1     | [10.9,13.4] | 17.2      | [15.7,18.8] | 4.8        | [4.1,5.7] | 0.9         | [0.5,1.4] | 0.2         | [0.1,0.4] | 0.3              | [0.1,0.6] | 1.6        | [1.1,2.2] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 18.0844                                     |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Design-based F(5.91, 24015.22) =                    | 1.9945                                      | Pr = 0.064  |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |   |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Chronic disease (HEDIS) (n=1,157)                   | 63.5  | [60.0,66.9] | 10.9     | [9.0,13.1]  | 16.9      | [14.5,19.7] | 5.4        | [3.9,7.3] | 0.6         | [0.3,1.4] | 0.4         | [0.1,1.5] | 0.3              | [0.1,1.2] | 2.0        | [0.9,4.1] | 100.0         |
| No chronic disease (n=2,919)                        | 63.2  | [60.9,65.4] | 12.1     | [10.7,13.7] | 17.3      | [15.5,19.2] | 4.5        | [3.7,5.5] | 0.9         | [0.5,1.6] | 0.3         | [0.1,0.5] | 0.2              | [0.1,0.7] | 1.5        | [1.1,2.1] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 4.7664                                      |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Design-based F(6.61, 26873.91) =                    | 0.4187                                      | Pr = 0.883  |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| MH/SA (HEDIS) (n=2,029)                             | 64.0  | [61.3,66.6] | 11.8     | [10.2,13.7] | 15.9      | [14.0,18.1] | 5.5        | [4.4,6.8] | 0.8         | [0.4,1.7] | 0.3         | [0.1,0.8] | 0.2              | [0.1,0.4] | 1.5        | [0.9,2.5] | 100.0         |
| No MH/SA (n=2,047)                                  | 62.6  | [59.8,65.2] | 11.8     | [10.1,13.7] | 18.4      | [16.3,20.8] | 4.1        | [3.1,5.2] | 0.9         | [0.5,1.5] | 0.3         | [0.1,0.7] | 0.3              | [0.1,1.1] | 1.7        | [1.1,2.7] | 100.0         |
| Pearson: Uncorrected chi2(7) =                      | 9.3117                                      |             |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| Design-based F(6.87, 27933.41) =                    | 0.8140                                      | Pr = 0.573  |          |             |           |             |            |           |             |           |             |           |                  |           |            |           |               |
| <b>Total (n=4,076)</b>                              | 63.2  | [61.3,65.1] | 11.8     | [10.6,13.1] | 17.2      | [15.7,18.8] | 4.7        | [4.0,5.6] | 0.8         | [0.5,1.3] | 0.3         | [0.1,0.6] | 0.3              | [0.1,0.6] | 1.6        | [1.2,2.3] | 100.0         |

### 3.53 Q: Since enrolling in the Healthy Michigan Plan, have your problems paying medical bills gotten worse, stayed the same, or gotten better?

Universe: Respondents who had problems paying medical bills pre-HMP

|   | Ability to pay med bills better/worse |           |                 |             |               |             |            |            |       |
|---|---------------------------------------|-----------|-----------------|-------------|---------------|-------------|------------|------------|-------|
|   | Gotten worse                          |           | Stayed the same |             | Gotten better |             | Don't know |            | Total |
|   | Row%                                  | 95%CI     | Row%            | 95%CI       | Row%          | 95%CI       | Row%       | 95%CI      | Row%  |
| <b>FPL category</b>                                 |                                       |           |                 |             |               |             |            |            |       |
| 0-35% (n=772)                                       | 2.3                                   | [1.3,4.0] | 12.0            | [9.4,15.2]  | 84.4          | [80.9,87.4] | 1.2        | [0.5,3.1]  | 100.0 |
| 36-99% (n=641)                                      | 2.4                                   | [1.4,4.0] | 8.8             | [6.1,12.4]  | 88.3          | [84.6,91.2] | 0.5        | [0.2,1.3]  | 100.0 |
| ≥ 100%(n = 456)                                     | 3.9                                   | [2.1,6.9] | 8.9             | [6.4,12.3]  | 86.9          | [82.9,90.1] | 0.3        | [0.0,2.3]  | 100.0 |
| Pearson: Uncorrected chi2(6) =                      | 11.0315                               |           |                 |             |               |             |            |            |       |
| Design-based F(5.68, 10542.54) =                    | 1.4657                                |           | Pr =            | 0.189       |               |             |            |            |       |
| <b>Region</b>                                       |                                       |           |                 |             |               |             |            |            |       |
| UP/NW/NE (n=354)                                    | 3.8                                   | [2.1,6.8] | 10.8            | [7.7,14.9]  | 84.6          | [79.9,88.4] | 0.8        | [0.3,2.8]  | 100.0 |
| W/E Central/E (n=564)                               | 1.8                                   | [1.0,3.4] | 9.0             | [6.5,12.3]  | 88.6          | [85.1,91.3] | 0.6        | [0.2,1.9]  | 100.0 |
| S Central/SW/SE (n=407)                             | 2.9                                   | [1.3,6.2] | 8.3             | [5.8,11.9]  | 87.6          | [83.3,91.0] | 1.1        | [0.4,3.6]  | 100.0 |
| Detroit Metro (n=544)                               | 2.8                                   | [1.6,4.7] | 12.6            | [9.4,16.6]  | 83.7          | [79.4,87.3] | 0.9        | [0.2,3.6]  | 100.0 |
| Pearson: Uncorrected chi2(9) =                      | 10.0786                               |           |                 |             |               |             |            |            |       |
| Design-based F(7.48, 13888.33) =                    | 0.8540                                |           | Pr =            | 0.549       |               |             |            |            |       |
| <b>Low healthcare utilizers</b>                     |                                       |           |                 |             |               |             |            |            |       |
| Yes (n=165)   | 2.8                                   | [1.1,6.8] | 18.6            | [11.8,28.1] | 75.7          | [65.7,83.5] | 2.9        | [0.6,13.0] | 100.0 |
| No (n=1,704)  | 2.6                                   | [1.8,3.7] | 9.6             | [7.9,11.5]  | 87.2          | [85.0,89.1] | 0.6        | [0.3,1.3]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 28.1189                               |           |                 |             |               |             |            |            |       |
| Design-based F(2.71, 5037.91) =                     | 4.2633                                |           | Pr =            | 0.007       |               |             |            |            |       |
| <b>High ER utilizers</b>                            |                                       |           |                 |             |               |             |            |            |       |
| Yes (n=106)   | 2.7                                   | [1.0,7.6] | 9.1             | [4.8,16.6]  | 88.2          | [80.3,93.2] | 0.0        |            | 100.0 |
| No (n=1,763)  | 2.6                                   | [1.8,3.7] | 10.7            | [8.9,12.8]  | 85.8          | [83.4,87.8] | 0.9        | [0.4,2.0]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 1.4407                                |           |                 |             |               |             |            |            |       |
| Design-based F(2.62, 4872.03) =                     | 0.3260                                |           | Pr =            | 0.779       |               |             |            |            |       |
| <b>Chronic disease (HEDIS)</b>                      |                                       |           |                 |             |               |             |            |            |       |
| Chronic disease (HEDIS) (n=666)                     | 3.1                                   | [1.8,5.2] | 9.8             | [7.1,13.5]  | 87.0          | [83.1,90.0] | 0.1        | [0.0,0.5]  | 100.0 |
| No chronic disease (n=1,203)                        | 2.4                                   | [1.6,3.7] | 10.9            | [8.8,13.5]  | 85.4          | [82.6,87.8] | 1.2        | [0.6,2.7]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 6.9876                                |           |                 |             |               |             |            |            |       |
| Design-based F(2.49, 4630.49) =                     | 1.9157                                |           | Pr =            | 0.136       |               |             |            |            |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                       |           |                 |             |               |             |            |            |       |
| MH/SA (HEDIS) (n=1,077)                             | 3.4                                   | [2.3,5.1] | 10.7            | [8.5,13.5]  | 85.4          | [82.4,87.9] | 0.5        | [0.2,1.3]  | 100.0 |
| No MH/SA (n=792)                                    | 1.6                                   | [0.9,2.8] | 10.4            | [7.9,13.6]  | 86.6          | [83.1,89.5] | 1.4        | [0.5,3.7]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 10.7754                               |           |                 |             |               |             |            |            |       |
| Design-based F(2.93, 5436.92) =                     | 2.2428                                |           | Pr =            | 0.083       |               |             |            |            |       |
| <b>Total (n=1,869)</b>                              | 2.6                                   | [1.9,3.7] | 10.6            | [8.9,12.6]  | 85.9          | [83.7,87.9] | 0.9        | [0.4,1.8]  | 100.0 |



**4 AIM 2: Self-reported changes in health status, health behaviors, and facilitators and barriers to healthy behaviors, and strategies that facilitate or challenge improvements in health behaviors**

## 4.1 Q: In general, would you say your health is:

Universe: All respondents

|   | Health status |             |           |             |      |             |      |             |      |             |            |           | Total<br>Row% |
|---|---------------|-------------|-----------|-------------|------|-------------|------|-------------|------|-------------|------------|-----------|---------------|
|   | Excellent     |             | Very good |             | Good |             | Fair |             | Poor |             | Don't know |           |               |
|   | Row%          | 95%CI       | Row%      | 95%CI       | Row% | 95%CI       | Row% | 95%CI       | Row% | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |               |             |           |             |      |             |      |             |      |             |            |           |               |
| 0-35% (n=1,599)                                     | 8.8           | [7.1,10.8]  | 24.2      | [21.5,27.3] | 30.9 | [28.1,33.8] | 25.5 | [23.0,28.2] | 10.4 | [8.8,12.2]  | 0.2        | [0.0,0.7] | 100.0         |
| 36-99% (n=1,449)                                    | 10.3          | [8.4,12.5]  | 29.7      | [26.9,32.6] | 35.7 | [32.8,38.8] | 19.5 | [17.3,22.0] | 4.7  | [3.6,6.1]   | 0.1        | [0.0,0.3] | 100.0         |
| ≥ 100% (n = 1,040)                                  | 10.2          | [8.2,12.7]  | 29.4      | [26.3,32.7] | 38.8 | [35.4,42.4] | 17.3 | [14.9,20.1] | 4.1  | [3.0,5.6]   | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 97.3158       |             |           |             |      |             |      |             |      |             |            |           |               |
| Design-based F(8.89, 36242.81) =                    | 8.2097        |             | Pr =      | 0.000       |      |             |      |             |      |             |            |           |               |
| <b>Region</b>                                       |               |             |           |             |      |             |      |             |      |             |            |           |               |
| UP/NW/NE (n=746)                                    | 7.2           | [5.1,9.9]   | 27.0      | [23.5,30.8] | 34.6 | [30.8,38.7] | 23.3 | [20.1,26.9] | 7.6  | [5.9,9.8]   | 0.3        | [0.1,1.1] | 100.0         |
| W/E Central/E (n=1,264)                             | 9.5           | [7.6,11.8]  | 22.2      | [19.6,25.0] | 37.6 | [34.6,40.7] | 22.7 | [20.2,25.5] | 7.9  | [6.4,9.6]   | 0.1        | [0.0,0.5] | 100.0         |
| S Central/SW/SE (n=837)                             | 8.4           | [6.3,11.0]  | 26.6      | [23.0,30.6] | 37.1 | [33.2,41.1] | 21.2 | [18.2,24.6] | 6.7  | [5.0,8.9]   | 0.0        |           | 100.0         |
| Detroit Metro (n=1,241)                             | 10.5          | [8.6,12.8]  | 29.9      | [26.7,33.3] | 29.8 | [26.8,33.1] | 22.0 | [19.4,25.0] | 7.6  | [6.0,9.6]   | 0.2        | [0.0,0.9] | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 39.5899       |             |           |             |      |             |      |             |      |             |            |           |               |
| Design-based F(12.72, 51851.64) =                   | 2.1540        |             | Pr =      | 0.010       |      |             |      |             |      |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |               |             |           |             |      |             |      |             |      |             |            |           |               |
| Yes (n=491)   | 18.7          | [14.6,23.8] | 41.9      | [36.1,47.9] | 25.9 | [21.4,31.1] | 11.6 | [8.8,15.2]  | 1.7  | [0.9,3.3]   | 0.1        | [0.0,0.7] | 100.0         |
| No (n=3,597)  | 7.9           | [6.8,9.1]   | 24.1      | [22.3,25.9] | 35.3 | [33.3,37.3] | 24.1 | [22.4,25.9] | 8.6  | [7.5,9.8]   | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 212.2107      |             |           |             |      |             |      |             |      |             |            |           |               |
| Design-based F(4.48, 18269.24) =                    | 27.3998       |             | Pr =      | 0.000       |      |             |      |             |      |             |            |           |               |
| <b>High ER utilizers</b>                            |               |             |           |             |      |             |      |             |      |             |            |           |               |
| Yes (n=156)   | 5.7           | [2.7,11.7]  | 16.1      | [9.7,25.6]  | 28.4 | [20.3,38.1] | 38.2 | [28.8,48.6] | 11.3 | [6.9,17.8]  | 0.3        | [0.0,2.4] | 100.0         |
| No (n=3,932)  | 9.7           | [8.5,11.0]  | 27.3      | [25.5,29.2] | 34.1 | [32.2,36.0] | 21.5 | [19.9,23.1] | 7.3  | [6.4,8.4]   | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 38.5156       |             |           |             |      |             |      |             |      |             |            |           |               |
| Design-based F(4.52, 18407.24) =                    | 4.9800        |             | Pr =      | 0.000       |      |             |      |             |      |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |               |             |           |             |      |             |      |             |      |             |            |           |               |
| Chronic disease (HEDIS) (n=1,160)                   | 2.8           | [1.8,4.2]   | 13.8      | [11.3,16.7] | 34.2 | [30.8,37.7] | 34.3 | [31.0,37.7] | 14.6 | [12.3,17.2] | 0.4        | [0.1,1.4] | 100.0         |
| No chronic disease (n=2,928)                        | 11.8          | [10.3,13.4] | 31.2      | [29.0,33.4] | 33.7 | [31.6,35.9] | 18.2 | [16.4,20.0] | 5.1  | [4.2,6.3]   | 0.0        | [0.0,0.1] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 341.8981      |             |           |             |      |             |      |             |      |             |            |           |               |
| Design-based F(4.75, 19360.28) =                    | 50.8949       |             | Pr =      | 0.000       |      |             |      |             |      |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |               |             |           |             |      |             |      |             |      |             |            |           |               |
| MH/SA (HEDIS) (n=2,033)                             | 5.5           | [4.4,6.9]   | 18.8      | [16.6,21.2] | 35.7 | [33.1,38.3] | 27.9 | [25.5,30.4] | 11.9 | [10.2,13.8] | 0.2        | [0.1,0.7] | 100.0         |
| No MH/SA (n=2,055)                                  | 13.2          | [11.4,15.4] | 34.3      | [31.6,37.1] | 32.1 | [29.6,34.7] | 16.9 | [15.0,19.0] | 3.4  | [2.6,4.5]   | 0.0        | [0.0,0.1] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 314.7428      |             |           |             |      |             |      |             |      |             |            |           |               |
| Design-based F(4.54, 18484.95) =                    | 46.3865       |             | Pr =      | 0.000       |      |             |      |             |      |             |            |           |               |
| <b>Total (n=4,088)</b>                              | 9.5           | [8.4,10.8]  | 26.8      | [25.0,28.7] | 33.8 | [32.0,35.7] | 22.2 | [20.7,23.8] | 7.5  | [6.6,8.6]   | 0.1        | [0.0,0.4] | 100.0         |

## 4.2 Q: How many days in the past 30 days was your physical health not good?

Universe: All respondents

|   | Mean        | Std. Dev     | CI                 | P-value  |
|---|-------------|--------------|--------------------|----------|
| <b>FPL category</b>                                 |             |              |                    |          |
| 0-35% (n=1,574)                                     | 9.19        | 11.71        | [8.61,9.77]        | < 0.0001 |
| 36-99% (n=1,426)                                    | 6.18        | 10.15        | [5.65,6.71]        |          |
| ≥ 100%(n = 1,033)                                   | 5.71        | 9.53         | [5.13,6.30]        |          |
| <b>Region</b>                                       |             |              |                    |          |
| UP/NW/NE (n=732)                                    | 7.80        | 11.15        | [6.99,8.60]        | 0.0088   |
| W/E Central/E (n=1,248)                             | 7.68        | 11.02        | [7.07,8.29]        |          |
| S Central/SW/SE (n=828)                             | 7.27        | 10.83        | [6.53,8.01]        |          |
| Detroit Metro (n=1,225)                             | 6.42        | 10.13        | [5.86,6.99]        |          |
| <b>Low healthcare utilizers</b>                     |             |              |                    |          |
| Yes (n=485)   | 3.15        | 7.24         | [2.51,3.80]        | < 0.0001 |
| No (n=3,548)  | 7.79        | 11.03        | [7.43,8.16]        |          |
| <b>High ER utilizers</b>                            |             |              |                    |          |
| Yes (n=155)   | 11.27       | 11.48        | [9.45,13.08]       | < 0.0001 |
| No (n=3,878)  | 7.07        | 10.69        | [6.74,7.41]        |          |
| <b>Chronic disease (HEDIS)</b>                      |             |              |                    |          |
| Chronic disease (HEDIS) (n=1,139)                   | 11.09       | 12.19        | [10.38,11.80]      | < 0.0001 |
| No chronic disease (n=2,894)                        | 5.72        | 9.72         | [5.36,6.07]        |          |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |              |                    |          |
| MH/SA (HEDIS) (n=2,006)                             | 9.49        | 11.69        | [8.98,10.00]       | < 0.0001 |
| No MH/SA (n=2,027)                                  | 5.01        | 9.21         | [4.61,5.41]        |          |
| <b>Total (n=4,033)</b>                              | <b>7.24</b> | <b>10.75</b> | <b>[6.90,7.57]</b> |          |

<sup>1</sup> All models were tested for homogeneity of variance using Levene's test

<sup>2</sup> FPL categories violated Levene's test,  $F(2,4030) = 94.444$ ,  $p < 0.0001$ ; Welch's ANOVA was used,  $F(2,2579.32) = 41.554$ ,  $p < 0.0001$

<sup>3</sup> Region violated Levene's test,  $F(3,4029) = 10.04$ ,  $p < 0.0001$ ; Welch's ANOVA was used,  $F(3,2017.25) = 3.883$ ,  $p = 0.0088$

<sup>4</sup> Low healthcare utilizers violated Levene's test,  $F(1,4031) = 246.151$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(830.261) = -12.300$ ,  $p < 0.0001$

<sup>5</sup> High ER utilizers violated Levene's test,  $F(1,4031) = 7.464$ ,  $p = 0.0063$ ; Welch's t-test was used,  $t(164.993) = 4.473$ ,  $p < 0.0001$

<sup>6</sup> HEDIS Chronic Disease violated Levene's test,  $F(1,4031) = 271.033$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(1737.7) = 13.311$ ,  $p < 0.0001$

<sup>7</sup> HEDIS MH/SA violated Levene's test,  $F(1,4031) = 340.480$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(3806.66) = 13.517$ ,  $p < 0.0001$

### 4.3 Q: Overall, since you enrolled in the Healthy Michigan Plan, would you say your physical health has gotten better, stayed the same, or gotten worse?

Universe: All respondents

|   | Physical health better/worse |             |                 |             |              |            |            |           | Total<br>Row% |
|---|------------------------------|-------------|-----------------|-------------|--------------|------------|------------|-----------|---------------|
|   | Gotten better                |             | Stayed the same |             | Gotten worse |            | Don't know |           |               |
|   | Row%                         | 95%CI       | Row%            | 95%CI       | Row%         | 95%CI      | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                              |             |                 |             |              |            |            |           |               |
| 0-35% (n=1,599)                                     | 49.2                         | [46.1,52.3] | 42.9            | [39.8,46.0] | 7.1          | [5.9,8.6]  | 0.8        | [0.4,1.7] | 100.0         |
| 36-99% (n=1,448)                                    | 47.9                         | [44.8,51.1] | 48.1            | [45.0,51.2] | 3.6          | [2.8,4.8]  | 0.4        | [0.1,0.8] | 100.0         |
| ≥ 100%(n = 1,039)                                   | 44.0                         | [40.5,47.5] | 51.9            | [48.3,55.4] | 4.0          | [2.9,5.5]  | 0.1        | [0.0,0.6] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 40.7389                      |             |                 |             |              |            |            |           |               |
| Design-based F(5.52, 22486.31) =                    | 6.1643                       | Pr =        | 0.000           |             |              |            |            |           |               |
| <b>Region</b>                                       |                              |             |                 |             |              |            |            |           |               |
| UP/NW/NE (n=746)                                    | 51.0                         | [46.9,55.1] | 42.2            | [38.2,46.3] | 6.7          | [4.9,9.0]  | 0.1        | [0.0,0.4] | 100.0         |
| W/E Central/E (n=1,265)                             | 44.1                         | [41.0,47.3] | 47.1            | [43.9,50.3] | 7.7          | [6.3,9.5]  | 1.1        | [0.4,2.5] | 100.0         |
| S Central/SW/SE (n=835)                             | 46.3                         | [42.2,50.5] | 47.4            | [43.3,51.5] | 6.1          | [4.5,8.1]  | 0.2        | [0.0,1.0] | 100.0         |
| Detroit Metro (n=1,240)                             | 50.2                         | [46.7,53.7] | 45.8            | [42.3,49.3] | 3.6          | [2.6,4.9]  | 0.4        | [0.1,1.2] | 100.0         |
| Pearson: Uncorrected chi2(9) =                      | 41.7962                      |             |                 |             |              |            |            |           |               |
| Design-based F(7.21, 29373.75) =                    | 3.8400                       | Pr =        | 0.000           |             |              |            |            |           |               |
| <b>Low healthcare utilizers</b>                     |                              |             |                 |             |              |            |            |           |               |
| Yes (n=491)   | 31.7                         | [26.4,37.4] | 65.5            | [59.8,70.9] | 2.7          | [1.5,5.0]  | 0.1        | [0.0,0.7] | 100.0         |
| No (n=3,595)  | 50.7                         | [48.6,52.8] | 42.6            | [40.6,44.7] | 6.0          | [5.2,7.0]  | 0.6        | [0.3,1.2] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 113.1542                     |             |                 |             |              |            |            |           |               |
| Design-based F(2.53, 10312.03) =                    | 25.1767                      | Pr =        | 0.000           |             |              |            |            |           |               |
| <b>High ER utilizers</b>                            |                              |             |                 |             |              |            |            |           |               |
| Yes (n=156)   | 50.9                         | [40.9,60.9] | 39.2            | [29.4,50.0] | 8.8          | [5.1,14.7] | 1.1        | [0.3,4.4] | 100.0         |
| No (n=3,930)  | 47.7                         | [45.7,49.7] | 46.5            | [44.5,48.5] | 5.4          | [4.6,6.2]  | 0.5        | [0.3,1.0] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 6.9912                       |             |                 |             |              |            |            |           |               |
| Design-based F(2.76, 11251.06) =                    | 1.5329                       | Pr =        | 0.207           |             |              |            |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                              |             |                 |             |              |            |            |           |               |
| Chronic disease (HEDIS) (n=1,160)                   | 56.4                         | [52.8,59.9] | 34.8            | [31.5,38.3] | 8.2          | [6.5,10.1] | 0.6        | [0.2,1.6] | 100.0         |
| No chronic disease (n=2,926)                        | 44.9                         | [42.6,47.3] | 49.9            | [47.6,52.3] | 4.6          | [3.9,5.6]  | 0.5        | [0.2,1.1] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 76.6056                      |             |                 |             |              |            |            |           |               |
| Design-based F(2.93, 11917.13) =                    | 17.1615                      | Pr =        | 0.000           |             |              |            |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                              |             |                 |             |              |            |            |           |               |
| MH/SA (HEDIS) (n=2,032)                             | 51.2                         | [48.5,54.0] | 39.6            | [36.9,42.3] | 8.3          | [7.0,9.8]  | 0.9        | [0.4,1.9] | 100.0         |
| No MH/SA (n=2,054)                                  | 44.6                         | [41.8,47.4] | 52.3            | [49.5,55.1] | 2.9          | [2.2,3.8]  | 0.2        | [0.1,0.5] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 108.2961                     |             |                 |             |              |            |            |           |               |
| Design-based F(2.95, 12020.54) =                    | 25.2033                      | Pr =        | 0.000           |             |              |            |            |           |               |
| <b>Total (n=4,086)</b>                              | 47.8                         | [45.8,49.8] | 46.1            | [44.2,48.1] | 5.5          | [4.8,6.4]  | 0.5        | [0.3,1.0] | 100.0         |

#### 4.4 Q: How many days in the past 30 days was your mental health not good?

Universe: All respondents

|   | Mean        | Std. Dev    | CI                 | P-value  |
|---|-------------|-------------|--------------------|----------|
| <b>FPL category</b>                                 |             |             |                    | < 0.0001 |
| 0-35% (n=1,571)                                     | 7.66        | 11.17       | [7.11,8.22]        |          |
| 36-99% (n=1,416)                                    | 4.89        | 9.16        | [4.42,5.37]        |          |
| ≥ 100% (n = 1,015)                                  | 4.25        | 8.49        | [3.73,4.78]        |          |
| <b>Region</b>                                       |             |             |                    | < 0.0001 |
| UP/NW/NE (n=732)                                    | 6.19        | 10.06       | [5.46,6.92]        |          |
| W/E Central/E (n=1,229)                             | 6.04        | 10.08       | [5.48,6.60]        |          |
| S Central/SW/SE (n=825)                             | 6.71        | 10.57       | [5.99,7.43]        |          |
| Detroit Metro (n=1,216)                             | 4.77        | 9.24        | [4.25,5.29]        |          |
| <b>Low healthcare utilizers</b>                     |             |             |                    | < 0.0001 |
| Yes (n=479)   | 3.60        | 8.16        | [2.87,4.34]        |          |
| No (n=3,523)  | 6.12        | 10.14       | [5.78,6.45]        |          |
| <b>High ER utilizers</b>                            |             |             |                    | 0.0017   |
| Yes (n=154)   | 8.63        | 11.18       | [6.85,10.41]       |          |
| No (n=3,848)  | 5.71        | 9.89        | [5.39,6.02]        |          |
| <b>Chronic disease (HEDIS)</b>                      |             |             |                    | < 0.0001 |
| Chronic disease (HEDIS) (n=1,135)                   | 7.48        | 10.93       | [6.84,8.11]        |          |
| No chronic disease (n=2,867)                        | 5.16        | 9.46        | [4.82, 5.51]       |          |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |             |                    | < 0.0001 |
| MH/SA (HEDIS) (n=1,983)                             | 8.79        | 11.39       | [8.28,9.29]        |          |
| No MH/SA (n=2,019)                                  | 2.90        | 7.21        | [2.59, 3.22]       |          |
| <b>Total (n=4,002)</b>                              | <b>5.82</b> | <b>9.96</b> | <b>[5.51,6.13]</b> |          |

<sup>1</sup> All models were tested for homogeneity of variance using Levene's test

<sup>2</sup> FPL categories violated Levene's test,  $F(2,3999)= 115.395$ ,  $p < 0.0001$ ; Welch's ANOVA was used,  $F(2,2567.93)= 43.535$ ,  $p < 0.0001$

<sup>3</sup> Region violated Levene's test,  $F(3,3998)= 15.556$ ,  $p < 0.0001$ ; Welch's ANOVA was used,  $F(3,2002.18)= 7.637$ ,  $p < 0.0001$

<sup>4</sup> Low healthcare utilizers violated Levene's test,  $F(1,4000)= 71.93$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(696.772)= -6.139$ ,  $p < 0.0001$

<sup>5</sup> High ER utilizers violated Levene's test,  $F(1,4000)= 11.67$ ,  $p = 0.0001$ ; Welch's t-test was used,  $t(162.859)= 3.197$ ,  $p = 0.0017$

<sup>6</sup> HEDIS Chronic Disease violated Levene's test,  $F(1,4000)= 84.476$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(1843.87)= 6.260$ ,  $p < 0.0001$

<sup>7</sup> HEDIS MH/SA violated Levene's test,  $F(1,4000)= 851.47$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(3341.06)= 19.49$ ,  $p < 0.0001$

#### 4.5 Q: Overall, since you enrolled in the Healthy Michigan Plan, would you say your mental and emotional health has gotten better, stayed the same, or gotten worse?

Universe: All respondents

|   | Mental health better/worse |                    |                 |                    |              |                  |            |                  | Total<br>Row% |  |
|---|----------------------------|--------------------|-----------------|--------------------|--------------|------------------|------------|------------------|---------------|--|
|   | Gotten better              |                    | Stayed the same |                    | Gotten worse |                  | Don't know |                  |               |  |
|   | Row%                       | 95%CI              | Row%            | 95%CI              | Row%         | 95%CI            | Row%       | 95%CI            |               |  |
| <b>FPL category</b>                                 |                            |                    |                 |                    |              |                  |            |                  |               |  |
| 0-35% (n=1,597)                                     | 40.0                       | [37.0,43.1]        | 54.3            | [51.2,57.4]        | 5.5          | [4.3,6.9]        | 0.2        | [0.1,0.6]        | 100.0         |  |
| 36-99% (n=1,444)                                    | 37.3                       | [34.3,40.4]        | 57.7            | [54.5,60.7]        | 4.1          | [3.0,5.6]        | 0.9        | [0.5,1.6]        | 100.0         |  |
| ≥ 100%(n = 1,039)                                   | 34.6                       | [31.3,38.1]        | 61.9            | [58.3,65.3]        | 3.0          | [2.0,4.4]        | 0.5        | [0.2,1.2]        | 100.0         |  |
| Pearson: Uncorrected chi2(6) =                      | 26.8863                    |                    |                 |                    |              |                  |            |                  |               |  |
| Design-based F(5.73, 23305.69) =                    | 3.7393                     | Pr =               | 0.001           |                    |              |                  |            |                  |               |  |
| <b>Region</b>                                       |                            |                    |                 |                    |              |                  |            |                  |               |  |
| UP/NW/NE (n=745)                                    | 39.8                       | [35.9,43.9]        | 55.2            | [51.1,59.3]        | 4.5          | [3.1,6.6]        | 0.4        | [0.1,1.7]        | 100.0         |  |
| W/E Central/E (n=1,261)                             | 34.9                       | [31.9,37.9]        | 59.4            | [56.3,62.5]        | 5.2          | [4.0,6.9]        | 0.5        | [0.2,1.0]        | 100.0         |  |
| S Central/SW/SE (n=835)                             | 39.6                       | [35.6,43.8]        | 53.4            | [49.2,57.5]        | 6.4          | [4.7,8.8]        | 0.6        | [0.3,1.6]        | 100.0         |  |
| Detroit Metro (n=1,239)                             | 39.4                       | [36.0,42.8]        | 56.8            | [53.3,60.2]        | 3.4          | [2.4,4.9]        | 0.4        | [0.2,0.9]        | 100.0         |  |
| Pearson: Uncorrected chi2(9) =                      | 20.1409                    |                    |                 |                    |              |                  |            |                  |               |  |
| Design-based F(7.91, 32191.18) =                    | 1.9260                     | Pr =               | 0.052           |                    |              |                  |            |                  |               |  |
| <b>Low healthcare utilizers</b>                     |                            |                    |                 |                    |              |                  |            |                  |               |  |
| Yes (n=491)   | 32.3                       | [26.9,38.3]        | 64.1            | [58.2,69.7]        | 2.8          | [1.6,5.0]        | 0.7        | [0.2,2.0]        | 100.0         |  |
| No (n=3,589)  | 39.2                       | [37.2,41.3]        | 55.4            | [53.3,57.5]        | 4.9          | [4.1,5.9]        | 0.5        | [0.3,0.7]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 19.1338                    |                    |                 |                    |              |                  |            |                  |               |  |
| Design-based F(2.79, 11350.67) =                    | 3.7954                     | Pr =               | 0.012           |                    |              |                  |            |                  |               |  |
| <b>High ER utilizers</b>                            |                            |                    |                 |                    |              |                  |            |                  |               |  |
| Yes (n=156)   | 45.8                       | [36.0,55.9]        | 45.3            | [35.5,55.5]        | 8.9          | [4.9,15.6]       | 0.0        |                  | 100.0         |  |
| No (n=3,924)  | 37.8                       | [35.9,39.8]        | 57.3            | [55.3,59.3]        | 4.4          | [3.7,5.3]        | 0.5        | [0.3,0.8]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 15.9736                    |                    |                 |                    |              |                  |            |                  |               |  |
| Design-based F(2.81, 11437.97) =                    | 3.5349                     | Pr =               | 0.016           |                    |              |                  |            |                  |               |  |
| <b>Chronic disease (HEDIS)</b>                      |                            |                    |                 |                    |              |                  |            |                  |               |  |
| Chronic disease (HEDIS) (n=1,158)                   | 41.2                       | [37.7,44.8]        | 51.0            | [47.4,54.6]        | 7.2          | [5.5,9.3]        | 0.6        | [0.3,1.2]        | 100.0         |  |
| No chronic disease (n=2,922)                        | 37.1                       | [34.9,39.4]        | 58.7            | [56.4,61.0]        | 3.7          | [3.0,4.7]        | 0.4        | [0.3,0.7]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 31.7538                    |                    |                 |                    |              |                  |            |                  |               |  |
| Design-based F(2.83, 11514.83) =                    | 8.3443                     | Pr =               | 0.000           |                    |              |                  |            |                  |               |  |
| <b>Mental health/substance use disorder (HEDIS)</b> |                            |                    |                 |                    |              |                  |            |                  |               |  |
| MH/SA (HEDIS) (n=2,029)                             | 45.0                       | [42.3,47.8]        | 47.1            | [44.3,49.8]        | 7.4          | [6.1,9.0]        | 0.5        | [0.3,0.8]        | 100.0         |  |
| No MH/SA (n=2,051)                                  | 31.8                       | [29.1,34.5]        | 65.8            | [63.0,68.4]        | 2.0          | [1.3,2.9]        | 0.5        | [0.3,0.9]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 176.2316                   |                    |                 |                    |              |                  |            |                  |               |  |
| Design-based F(2.80, 11407.26) =                    | 40.8891                    | Pr =               | 0.000           |                    |              |                  |            |                  |               |  |
| <b>Total (n=4,080)</b>                              | <b>38.2</b>                | <b>[36.3,40.1]</b> | <b>56.8</b>     | <b>[54.8,58.7]</b> | <b>4.6</b>   | <b>[3.9,5.5]</b> | <b>0.5</b> | <b>[0.3,0.7]</b> | <b>100.0</b>  |  |

#### 4.6 Q: During the past 30 days, for how many days did poor physical or mental health keep you from doing your usual activities, such as self-care, work, or recreation?

Universe: All respondents

|   | Mean | Std. Dev | CI           | P-value  |
|---|------|----------|--------------|----------|
| <b>FPL category</b>                                 |      |          |              | < 0.0001 |
| 0-35% (n=1,570)                                     | 7.94 | 11.29    | [7.38,8.50]  |          |
| 36-99% (n=1,431)                                    | 4.07 | 8.28     | [3.64,4.50]  |          |
| ≥ 100%(n = 1,025)                                   | 3.31 | 7.44     | [2.85,3.77]  |          |
| <b>Region</b>                                       |      |          |              | 0.0894   |
| UP/NW/NE (n=731)                                    | 5.57 | 9.84     | [4.85,6.28]  |          |
| W/E Central/E (n=1,244)                             | 5.55 | 9.64     | [5.01,6.08]  |          |
| S Central/SW/SE (n=827)                             | 5.80 | 9.90     | [5.13,6.48]  |          |
| Detroit Metro (n=1,224)                             | 4.83 | 9.24     | [4.31,5.35]  |          |
| <b>Low healthcare utilizers</b>                     |      |          |              | < 0.0001 |
| Yes (n=486)   | 2.21 | 6.10     | [1.66,2.75]  |          |
| No (n=3,540)  | 5.82 | 9.92     | [5.50,6.15]  |          |
| <b>High ER utilizers</b>                            |      |          |              | < 0.0001 |
| Yes (n=154)   | 9.35 | 11.44    | [7.53,11.16] |          |
| No (n=3,872)  | 5.22 | 9.50     | [4.93,5.53]  |          |
| <b>Chronic disease (HEDIS)</b>                      |      |          |              | < 0.0001 |
| Chronic disease (HEDIS) (n=1,134)                   | 8.24 | 11.32    | [7.59,8.91]  |          |
| No chronic disease (n=2,892)                        | 4.26 | 8.60     | [3.95,4.58]  |          |
| <b>Mental health/substance use disorder (HEDIS)</b> |      |          |              | < 0.0001 |
| MH/SA (HEDIS) (n=1,994)                             | 7.82 | 10.98    | [7.34,8.30]  |          |
| No MH/SA (n=2,032)                                  | 2.99 | 7.29     | [2.67,3.31]  |          |
| <b>Total (n=4,026)</b>                              | 5.39 | 9.61     | [5.09,5.68]  |          |

<sup>1</sup> All models were tested for homogeneity of variance using Levene's test

<sup>2</sup> FPL categories violated Levene's test,  $F(2,4023)= 251.387$ ,  $p < 0.0001$ ; Welch's ANOVA was used,  $F(2,2612.33)= 86.650$ ,  $p < 0.0001$

<sup>3</sup> Region violated Levene's test,  $F(3,4022)= 4.365$ ,  $p = 0.0045$ ; Welch's ANOVA was used,  $F(3,2014.19)= 2.172$ ,  $p = 0.0894$

<sup>4</sup> Low healthcare utilizers violated Levene's test,  $F(1,4024)= 201.030$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(887.38)= -11.200$ ,  $p < 0.0001$

<sup>5</sup> High ER utilizers violated Levene's test,  $F(1,4024)= 29.747$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(161.62)= 4.4131$ ,  $p < 0.0001$

<sup>6</sup> HEDIS Chronic Disease violated Levene's test,  $F(1,4024)= 274.749$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(1671.41)= 10.697$ ,  $p < 0.0001$

<sup>7</sup> HEDIS MH/SA violated Levene's test,  $F(1,4024)= 640.48$ ,  $p < 0.0001$ ; Welch's t-test was used,  $t(3457.38)= 16.395$ ,  $p < 0.0001$

## 4.7 Q: Thinking about your dental health, since you enrolled in the Healthy Michigan Plan, has the health of your teeth and gums gotten better, stayed the same, or gotten worse?

Universe: All respondents

|   | Dental health better/worse |             |                 |             |              |             |            |           | Total<br>Row% |
|---|----------------------------|-------------|-----------------|-------------|--------------|-------------|------------|-----------|---------------|
|   | Gotten better              |             | Stayed the same |             | Gotten worse |             | Don't know |           |               |
|   | Row%                       | 95%CI       | Row%            | 95%CI       | Row%         | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                            |             |                 |             |              |             |            |           |               |
| 0-35% (n=1,597)                                     | 40.0                       | [37.0,43.1] | 44.0            | [40.9,47.2] | 11.1         | [9.4,13.0]  | 4.9        | [3.8,6.4] | 100.0         |
| 36-99% (n=1,448)                                    | 40.7                       | [37.7,43.8] | 44.9            | [41.8,48.0] | 9.9          | [8.1,12.0]  | 4.6        | [3.4,6.0] | 100.0         |
| ≥ 100%(n = 1,039)                                   | 36.6                       | [33.3,40.0] | 50.3            | [46.8,53.9] | 9.2          | [7.4,11.3]  | 3.9        | [2.7,5.6] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 11.3710                    |             |                 |             |              |             |            |           |               |
| Design-based F(5.81, 23670.82) =                    | 1.4381                     |             | Pr =            | 0.198       |              |             |            |           |               |
| <b>Region</b>                                       |                            |             |                 |             |              |             |            |           |               |
| UP/NW/NE (n=745)                                    | 40.9                       | [36.9,45.0] | 44.4            | [40.3,48.5] | 9.3          | [7.3,11.8]  | 5.5        | [3.9,7.5] | 100.0         |
| W/E Central/E (n=1,263)                             | 38.2                       | [35.2,41.3] | 46.9            | [43.7,50.1] | 9.0          | [7.4,10.8]  | 6.0        | [4.5,7.9] | 100.0         |
| S Central/SW/SE (n=836)                             | 36.4                       | [32.7,40.4] | 46.6            | [42.5,50.8] | 13.0         | [10.5,15.9] | 4.0        | [2.8,5.6] | 100.0         |
| Detroit Metro (n=1,240)                             | 41.4                       | [38.0,44.9] | 44.4            | [40.9,47.9] | 10.4         | [8.6,12.6]  | 3.8        | [2.7,5.4] | 100.0         |
| Pearson: Uncorrected chi2(9) =                      | 21.2248                    |             |                 |             |              |             |            |           |               |
| Design-based F(7.90, 32159.71) =                    | 1.9228                     |             | Pr =            | 0.053       |              |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                            |             |                 |             |              |             |            |           |               |
| Yes (n=490)   | 33.4                       | [28.1,39.1] | 53.0            | [47.2,58.8] | 11.5         | [8.5,15.3]  | 2.0        | [0.7,5.6] | 100.0         |
| No (n=3,594)  | 40.6                       | [38.6,42.7] | 44.1            | [42.1,46.2] | 10.2         | [9.0,11.4]  | 5.1        | [4.3,6.0] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 27.5013                    |             |                 |             |              |             |            |           |               |
| Design-based F(2.77, 11271.61) =                    | 3.7819                     |             | Pr =            | 0.012       |              |             |            |           |               |
| <b>High ER utilizers</b>                            |                            |             |                 |             |              |             |            |           |               |
| Yes (n=156)   | 49.0                       | [39.1,59.0] | 36.6            | [26.8,47.6] | 9.8          | [6.1,15.5]  | 4.6        | [2.2,9.4] | 100.0         |
| No (n=3,928)  | 39.1                       | [37.1,41.0] | 45.9            | [43.9,47.9] | 10.4         | [9.3,11.6]  | 4.6        | [3.8,5.5] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 7.6494                     |             |                 |             |              |             |            |           |               |
| Design-based F(2.70, 11008.87) =                    | 1.6624                     |             | Pr =            | 0.178       |              |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                            |             |                 |             |              |             |            |           |               |
| Chronic disease (HEDIS) (n=1,160)                   | 39.3                       | [35.9,42.8] | 41.8            | [38.3,45.4] | 12.7         | [10.4,15.3] | 6.3        | [4.7,8.3] | 100.0         |
| No chronic disease (n=2,924)                        | 39.6                       | [37.3,41.9] | 46.8            | [44.4,49.1] | 9.6          | [8.4,11.0]  | 4.0        | [3.2,5.1] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 19.5018                    |             |                 |             |              |             |            |           |               |
| Design-based F(3.00, 12208.88) =                    | 4.4113                     |             | Pr =            | 0.004       |              |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                            |             |                 |             |              |             |            |           |               |
| MH/SA (HEDIS) (n=2,032)                             | 40.8                       | [38.2,43.6] | 42.0            | [39.3,44.8] | 12.4         | [10.7,14.2] | 4.8        | [3.7,6.0] | 100.0         |
| No MH/SA (n=2,052)                                  | 38.3                       | [35.6,41.0] | 48.8            | [46.0,51.6] | 8.5          | [7.1,10.1]  | 4.5        | [3.4,5.8] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 26.8674                    |             |                 |             |              |             |            |           |               |
| Design-based F(2.99, 12192.32) =                    | 5.6257                     |             | Pr =            | 0.001       |              |             |            |           |               |
| <b>Total (n=4,084)</b>                              | 39.5                       | [37.6,41.5] | 45.5            | [43.5,47.5] | 10.4         | [9.3,11.6]  | 4.6        | [3.9,5.5] | 100.0         |



#### 4.8 Q: How tall are you without shoes (in inches)?

Universe: All respondents

|   | Mean        | CI                 |
|---|-------------|--------------------|
| <b>FPL category</b>                                 |             |                    |
| 0-35% (n=1,597)                                     | 67.8        | [67.5,68.0]        |
| 36-99% (n=1,443)                                    | 66.4        | [66.2,66.6]        |
| ≥ 100% (n = 1,035)                                  | 66.6        | [66.3,66.9]        |
| <b>Region</b>                                       |             |                    |
| UP/NW/NE (n=746)                                    | 67.1        | [66.8,67.5]        |
| W/E Central/E (n=1,261)                             | 67.2        | [67.0,67.5]        |
| S Central/SW/SE (n=835)                             | 67.1        | [66.8,67.5]        |
| Detroit Metro (n=1,233)                             | 67.1        | [66.9,67.4]        |
| <b>Low healthcare utilizers</b>                     |             |                    |
| Yes (n=488)   | 68.7        | [68.2,69.2]        |
| No (n=3,587)  | 66.9        | [66.7,67.1]        |
| <b>High ER utilizers</b>                            |             |                    |
| Yes (n=156)   | 66.7        | [65.8,67.7]        |
| No (n=3,919)  | 67.2        | [67.0,67.4]        |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |
| Chronic disease (HEDIS) (n=1,157)                   | 67.0        | [66.7,67.3]        |
| No chronic disease (n=2,918)                        | 67.2        | [67.0,67.4]        |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |
| MH/SA (HEDIS) (n=2,030)                             | 67.1        | [66.8,67.3]        |
| No MH/SA (n=2,045)                                  | 67.3        | [67.0,67.5]        |
| <b>Total (n=4,075)</b>                              | <b>67.2</b> | <b>[67.0,67.3]</b> |

## 4.9 Q: How much do you weigh without shoes?

Universe: All respondents

|   | Mean         | CI                   |
|---|--------------|----------------------|
| <b>FPL category</b>                                 |              |                      |
| 0-35% (n=1,568)                                     | 191.7        | [188.4,195.1]        |
| 36-99% (n=1,418)                                    | 184.6        | [181.5,187.7]        |
| ≥ 100%(n = 1,004)                                   | 188.7        | [184.8,192.7]        |
| <b>Region</b>                                       |              |                      |
| UP/NW/NE (n=732)                                    | 191.5        | [186.3,196.7]        |
| W/E Central/E (n=1,230)                             | 190.0        | [186.6,193.3]        |
| S Central/SW/SE (n=816)                             | 188.2        | [183.9,192.5]        |
| Detroit Metro (n=1,212)                             | 188.5        | [184.7,192.2]        |
| <b>Low healthcare utilizers</b>                     |              |                      |
| Yes (n=478)   | 187.4        | [181.4,193.4]        |
| No (n=3,512)  | 189.4        | [187.2,191.7]        |
| <b>High ER utilizers</b>                            |              |                      |
| Yes (n=154)   | 196.3        | [187.2,205.4]        |
| No (n=3,836)  | 188.8        | [186.6,190.9]        |
| <b>Chronic disease (HEDIS)</b>                      |              |                      |
| Chronic disease (HEDIS) (n=1,141)                   | 201.2        | [197.3,205.2]        |
| No chronic disease (n=2,849)                        | 185.0        | [182.6,187.5]        |
| <b>Mental health/substance use disorder (HEDIS)</b> |              |                      |
| MH/SA (HEDIS) (n=1,989)                             | 190.3        | [187.4,193.1]        |
| No MH/SA (n=2,001)                                  | 188.0        | [184.9,191.1]        |
| <b>Total (n=3,990)</b>                              | <b>189.1</b> | <b>[187.0,191.2]</b> |

## 4.10 Q: Compared to 12 months ago, how would you describe your weight?

Universe: All respondents

|   | Lost weight |                    | Gained weight |                    | Weight change<br>Stayed about the same |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|---------------|--------------------|--|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%          | 95%CI              | Row%                                   | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |               |                    |  |                    |            |                  |               |
| 0-35% (n=1,598)                                     | 31.2        | [28.3,34.1]        | 28.1          | [25.3,31.0]        | 40.3                                   | [37.4,43.4]        | 0.4        | [0.2,1.0]        | 100.0         |
| 36-99% (n=1,450)                                    | 32.5        | [29.7,35.5]        | 23.8          | [21.3,26.6]        | 43.2                                   | [40.1,46.3]        | 0.4        | [0.2,0.9]        | 100.0         |
| ≥ 100% (n = 1,036)                                  | 32.2        | [29.0,35.6]        | 25.7          | [22.7,28.9]        | 42.0                                   | [38.5,45.5]        | 0.2        | [0.0,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 8.1398      |                    |               |                    |  |                    |            |                  |               |
| Design-based F(5.72, 23309.64) =                    | 1.0760      |                    | Pr =          | 0.373              |  |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |               |                    |  |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 33.4        | [29.7,37.3]        | 23.7          | [20.3,27.5]        | 42.8                                   | [38.8,46.9]        | 0.1        | [0.0,0.7]        | 100.0         |
| W/E Central/E (n=1,263)                             | 29.8        | [27.0,32.8]        | 26.9          | [24.1,29.9]        | 42.3                                   | [39.2,45.5]        | 1.0        | [0.5,1.9]        | 100.0         |
| S Central/SW/SE (n=833)                             | 29.8        | [26.3,33.6]        | 28.2          | [24.5,32.2]        | 41.8                                   | [37.8,45.9]        | 0.1        | [0.0,0.9]        | 100.0         |
| Detroit Metro (n=1,242)                             | 33.5        | [30.2,36.9]        | 25.9          | [22.9,29.1]        | 40.5                                   | [37.2,43.9]        | 0.1        | [0.0,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(9) =                      | 23.6170     |                    |               |                    |  |                    |            |                  |               |
| Design-based F(7.69, 31308.29) =                    | 2.3278      |                    | Pr =          | 0.019              |  |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |               |                    |  |                    |            |                  |               |
| Yes (n=491)   | 21.6        | [17.1,26.8]        | 26.6          | [21.4,32.5]        | 51.8                                   | [46.0,57.6]        | 0.1        | [0.0,0.4]        | 100.0         |
| No (n=3,593)  | 33.6        | [31.6,35.6]        | 26.4          | [24.6,28.3]        | 39.6                                   | [37.6,41.7]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 44.9060     |                    |               |                    |  |                    |            |                  |               |
| Design-based F(2.31, 9386.50) =                     | 9.1844      |                    | Pr =          | 0.000              |  |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |               |                    |  |                    |            |                  |               |
| Yes (n=155)   | 34.7        | [26.3,44.3]        | 31.9          | [23.1,42.3]        | 33.3                                   | [24.2,43.9]        | 0.0        |                  | 100.0         |
| No (n=3,929)  | 31.6        | [29.8,33.5]        | 26.2          | [24.4,28.0]        | 41.9                                   | [39.9,43.8]        | 0.4        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 6.4083      |                    |               |                    |  |                    |            |                  |               |
| Design-based F(2.88, 11727.80) =                    | 1.2389      |                    | Pr =          | 0.294              |  |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |               |                    |  |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 37.9        | [34.4,41.5]        | 26.4          | [23.4,29.6]        | 34.9                                   | [31.6,38.4]        | 0.8        | [0.4,1.9]        | 100.0         |
| No chronic disease (n=2,924)                        | 29.7        | [27.6,31.9]        | 26.4          | [24.4,28.6]        | 43.7                                   | [41.4,46.0]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 38.1743     |                    |               |                    |  |                    |            |                  |               |
| Design-based F(2.97, 12097.32) =                    | 9.2144      |                    | Pr =          | 0.000              |  |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |               |                    |  |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,030)                             | 32.1        | [29.6,34.8]        | 29.6          | [27.1,32.1]        | 37.7                                   | [35.1,40.5]        | 0.6        | [0.3,1.1]        | 100.0         |
| No MH/SA (n=2,054)                                  | 31.4        | [28.8,34.1]        | 23.5          | [21.1,26.0]        | 45.0                                   | [42.2,47.7]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 31.2166     |                    |               |                    |  |                    |            |                  |               |
| Design-based F(2.84, 11558.94) =                    | 7.1882      |                    | Pr =          | 0.000              |  |                    |            |                  |               |
| <b>Total (n=4,084)</b>                              | <b>31.7</b> | <b>[29.9,33.6]</b> | <b>26.4</b>   | <b>[24.7,28.2]</b> | <b>41.5</b>                            | <b>[39.6,43.4]</b> | <b>0.4</b> | <b>[0.2,0.7]</b> | <b>100.0</b>  |

#### 4.11 Q: Has a doctor or other health professional ever told you that you had hypertension?

Universe: All respondents

|   | Hypertension |                    |             |                    |            |                  | Total<br>Row% |
|---|--------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes          |                    | No          |                    | Don't know |                  |               |
|   | Row%         | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |              |                    |             |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 34.8         | [32.0,37.7]        | 64.5        | [61.6,67.4]        | 0.7        | [0.3,1.3]        | 100.0         |
| 36-99% (n=1,450)                                    | 28.2         | [25.6,31.1]        | 71.4        | [68.6,74.1]        | 0.3        | [0.1,1.0]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 26.7         | [23.8,29.8]        | 73.0        | [69.8,75.9]        | 0.4        | [0.1,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 28.0316      |                    |             |                    |            |                  |               |
| Design-based F(3.90, 15892.38) =                    | 5.1628       | Pr =               | 0.000       |                    |            |                  |               |
| <b>Region</b>                                       |              |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 30.1         | [26.7,33.8]        | 68.8        | [65.0,72.3]        | 1.1        | [0.4,3.1]        | 100.0         |
| W/E Central/E (n=1,265)                             | 32.6         | [29.8,35.6]        | 66.7        | [63.7,69.6]        | 0.7        | [0.3,1.6]        | 100.0         |
| S Central/SW/SE (n=836)                             | 30.0         | [26.6,33.7]        | 69.7        | [66.1,73.1]        | 0.2        | [0.1,1.0]        | 100.0         |
| Detroit Metro (n=1,242)                             | 31.3         | [28.2,34.5]        | 68.3        | [65.1,71.4]        | 0.4        | [0.1,1.2]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 6.0435       |                    |             |                    |            |                  |               |
| Design-based F(5.42, 22108.25) =                    | 0.7854       | Pr =               | 0.569       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |              |                    |             |                    |            |                  |               |
| Yes (n=491)   | 16.6         | [12.8,21.4]        | 83.1        | [78.3,87.0]        | 0.3        | [0.0,2.1]        | 100.0         |
| No (n=3,598)  | 34.0         | [32.1,35.9]        | 65.5        | [63.5,67.4]        | 0.5        | [0.3,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 75.4170      |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8121.92) =                     | 19.1265      | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |              |                    |             |                    |            |                  |               |
| Yes (n=156)   | 30.6         | [22.8,39.8]        | 69.4        | [60.2,77.2]        | 0.0        |                  | 100.0         |
| No (n=3,933)  | 31.4         | [29.6,33.2]        | 68.1        | [66.3,69.9]        | 0.5        | [0.3,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0336       |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8119.67) =                     | 0.3152       | Pr =               | 0.729       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |              |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 54.1         | [50.5,57.7]        | 45.4        | [41.9,49.0]        | 0.4        | [0.1,1.7]        | 100.0         |
| No chronic disease (n=2,929)                        | 23.7         | [21.8,25.7]        | 75.8        | [73.8,77.7]        | 0.5        | [0.3,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 331.6642     |                    |             |                    |            |                  |               |
| Design-based F(1.95, 7951.08) =                     | 94.7883      | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |              |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 35.9         | [33.4,38.5]        | 63.4        | [60.8,66.0]        | 0.7        | [0.3,1.4]        | 100.0         |
| No MH/SA (n=2,055)                                  | 27.0         | [24.7,29.6]        | 72.6        | [70.1,75.0]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 39.9938      |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8125.61) =                     | 13.3966      | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>31.3</b>  | <b>[29.6,33.1]</b> | <b>68.2</b> | <b>[66.4,69.9]</b> | <b>0.5</b> | <b>[0.3,0.9]</b> | <b>100.0</b>  |

## 4.12 Q: Did you find out you had hypertension before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents with hypertension

|   | Before  |             | Before/After: Hypertension |             |                    |           | Total<br>Row% |
|---|---------|-------------|----------------------------|-------------|--------------------|-----------|---------------|
|   | Row%    | 95%CI       | After<br>Row%              | 95%CI       | Don't know<br>Row% | 95%CI     |               |
| <b>FPL category</b>                                 |         |             |                            |             |                    |           |               |
| 0-35% (n=633)                                       | 63.9    | [59.1,68.4] | 34.9                       | [30.4,39.7] | 1.2                | [0.5,3.2] | 100.0         |
| 36-99% (n=465)                                      | 68.7    | [63.6,73.4] | 30.4                       | [25.7,35.5] | 0.9                | [0.4,2.2] | 100.0         |
| ≥ 100%(n = 313)                                     | 72.8    | [66.7,78.2] | 27.2                       | [21.8,33.3] | 0.0                |           | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.5503  |             |                            |             |                    |           |               |
| Design-based F(3.37, 4710.43) =                     | 1.7325  | Pr =        | 0.151                      |             |                    |           |               |
| <b>Region</b>                                       |         |             |                            |             |                    |           |               |
| UP/NW/NE (n=261)                                    | 71.2    | [64.8,76.9] | 28.1                       | [22.5,34.5] | 0.7                | [0.1,4.6] | 100.0         |
| W/E Central/E (n=454)                               | 63.6    | [58.3,68.6] | 35.1                       | [30.2,40.4] | 1.3                | [0.4,3.7] | 100.0         |
| S Central/SW/SE (n=286)                             | 67.7    | [61.0,73.8] | 31.9                       | [25.9,38.6] | 0.4                | [0.1,1.5] | 100.0         |
| Detroit Metro (n=410)                               | 67.3    | [61.5,72.6] | 31.7                       | [26.5,37.4] | 1.0                | [0.3,3.6] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 4.2705  |             |                            |             |                    |           |               |
| Design-based F(4.87, 6816.39) =                     | 0.5868  | Pr =        | 0.706                      |             |                    |           |               |
| <b>Low healthcare utilizers</b>                     |         |             |                            |             |                    |           |               |
| Yes (n=85)  | 71.5    | [57.0,82.6] | 28.5                       | [17.4,43.0] | 0.0                |           | 100.0         |
| No (n=1,326)  | 66.2    | [62.9,69.3] | 32.8                       | [29.7,36.1] | 1.0                | [0.5,2.2] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.2169  |             |                            |             |                    |           |               |
| Design-based F(1.98, 2775.14) =                     | 0.5066  | Pr =        | 0.601                      |             |                    |           |               |
| <b>High ER utilizers</b>                            |         |             |                            |             |                    |           |               |
| Yes (n=55)  | 77.6    | [64.0,87.0] | 22.4                       | [13.0,36.0] | 0.0                |           | 100.0         |
| No (n=1,356)  | 66.1    | [62.8,69.3] | 32.9                       | [29.8,36.2] | 1.0                | [0.5,2.1] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.7212  |             |                            |             |                    |           |               |
| Design-based F(1.91, 2666.08) =                     | 1.1934  | Pr =        | 0.302                      |             |                    |           |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                            |             |                    |           |               |
| Chronic disease (HEDIS) (n=660)                     | 71.7    | [67.4,75.6] | 27.6                       | [23.7,31.9] | 0.7                | [0.2,2.1] | 100.0         |
| No chronic disease (n=751)                          | 62.7    | [58.2,67.1] | 36.1                       | [31.8,40.7] | 1.1                | [0.4,3.0] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.6272 |             |                            |             |                    |           |               |
| Design-based F(1.99, 2788.45) =                     | 3.9338  | Pr =        | 0.020                      |             |                    |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                            |             |                    |           |               |
| MH/SA (HEDIS) (n=795)                               | 65.4    | [61.2,69.4] | 33.7                       | [29.8,37.9] | 0.9                | [0.3,2.8] | 100.0         |
| No MH/SA (n=616)                                    | 68.1    | [63.1,72.7] | 30.8                       | [26.3,35.8] | 1.0                | [0.4,2.6] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.4257  |             |                            |             |                    |           |               |
| Design-based F(1.98, 2776.24) =                     | 0.3962  | Pr =        | 0.671                      |             |                    |           |               |
| <b>Total (n=1,411)</b>                              | 66.6    | [63.4,69.7] | 32.4                       | [29.4,35.6] | 0.9                | [0.4,2.0] | 100.0         |

#### 4.13 Q: Has a doctor or other health professional ever told you that you had a heart condition or heart disease?

Universe: All respondents

|   | Heart disease |                   |             |                    |            |                  | Total<br>Row% |
|---|---------------|-------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes           |                   | No          |                    | Don't know |                  |               |
|   | Row%          | 95%CI             | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |               |                   |             |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 11.0          | [9.3,13.0]        | 88.8        | [86.8,90.5]        | 0.2        | [0.1,0.5]        | 100.0         |
| 36-99% (n=1,450)                                    | 8.4           | [6.8,10.2]        | 91.3        | [89.5,92.9]        | 0.3        | [0.1,0.7]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 8.3           | [6.6,10.5]        | 91.3        | [89.1,93.1]        | 0.4        | [0.1,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 8.2701        |                   |             |                    |            |                  |               |
| Design-based F(3.65, 14880.06) =                    | 2.0701        | Pr =              | 0.088       |                    |            |                  |               |
| <b>Region</b>                                       |               |                   |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 11.4          | [9.2,14.2]        | 88.3        | [85.6,90.6]        | 0.2        | [0.1,1.0]        | 100.0         |
| W/E Central/E (n=1,265)                             | 10.5          | [8.7,12.6]        | 88.9        | [86.8,90.7]        | 0.6        | [0.3,1.1]        | 100.0         |
| S Central/SW/SE (n=836)                             | 9.9           | [7.8,12.4]        | 89.6        | [87.1,91.7]        | 0.5        | [0.2,1.2]        | 100.0         |
| Detroit Metro (n=1,242)                             | 8.8           | [7.0,11.0]        | 91.2        | [89.0,93.0]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 14.4442       |                   |             |                    |            |                  |               |
| Design-based F(4.84, 19721.00) =                    | 2.5461        | Pr =              | 0.028       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |               |                   |             |                    |            |                  |               |
| Yes (n=491)   | 2.7           | [1.7,4.4]         | 97.2        | [95.5,98.3]        | 0.1        | [0.0,0.5]        | 100.0         |
| No (n=3,598)  | 11.0          | [9.7,12.4]        | 88.7        | [87.3,90.0]        | 0.3        | [0.2,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 42.4546       |                   |             |                    |            |                  |               |
| Design-based F(1.68, 6854.42) =                     | 27.4808       | Pr =              | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |               |                   |             |                    |            |                  |               |
| Yes (n=156)   | 6.0           | [3.4,10.3]        | 93.7        | [89.3,96.3]        | 0.3        | [0.0,2.4]        | 100.0         |
| No (n=3,933)  | 9.9           | [8.8,11.1]        | 89.8        | [88.6,91.0]        | 0.3        | [0.2,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.0030        |                   |             |                    |            |                  |               |
| Design-based F(1.92, 7818.77) =                     | 1.9346        | Pr =              | 0.146       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |               |                   |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 20.7          | [17.9,23.9]       | 78.8        | [75.6,81.7]        | 0.5        | [0.2,1.0]        | 100.0         |
| No chronic disease (n=2,929)                        | 6.0           | [5.0,7.2]         | 93.7        | [92.6,94.7]        | 0.2        | [0.1,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 191.3687      |                   |             |                    |            |                  |               |
| Design-based F(1.76, 7189.60) =                     | 83.2020       | Pr =              | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |               |                   |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 11.8          | [10.1,13.7]       | 87.8        | [85.9,89.5]        | 0.5        | [0.3,0.8]        | 100.0         |
| No MH/SA (n=2,055)                                  | 7.8           | [6.5,9.4]         | 92.1        | [90.5,93.4]        | 0.1        | [0.0,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 22.3704       |                   |             |                    |            |                  |               |
| Design-based F(1.81, 7377.84) =                     | 9.2551        | Pr =              | 0.000       |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>9.7</b>    | <b>[8.6,10.9]</b> | <b>90.0</b> | <b>[88.8,91.1]</b> | <b>0.3</b> | <b>[0.2,0.5]</b> | <b>100.0</b>  |

#### 4.14 Q: Did you find out you had a heart condition or heart disease before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents with a heart condition or heart disease

|   | Before |             | Before/After: Heart disease |             |                    |           | Total<br>Row% |
|---|--------|-------------|-----------------------------|-------------|--------------------|-----------|---------------|
|   | Row%   | 95%CI       | After<br>Row%               | 95%CI       | Don't know<br>Row% | 95%CI     |               |
| <b>FPL category</b>                                 |        |             |                             |             |                    |           |               |
| 0-35% (n=195)                                       | 63.5   | [54.3,71.8] | 36.5                        | [28.2,45.7] | 0.0                |           | 100.0         |
| 36-99% (n=135)                                      | 69.7   | [59.1,78.6] | 30.3                        | [21.4,40.9] | 0.0                |           | 100.0         |
| ≥ 100% (n = 96)                                     | 66.9   | [54.2,77.5] | 32.5                        | [22.0,45.1] | 0.7                | [0.1,4.7] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 3.7009 |             |                             |             |                    |           |               |
| Design-based F(3.13, 1297.32) =                     | 0.9924 | Pr =        | 0.398                       |             |                    |           |               |
| <b>Region</b>                                       |        |             |                             |             |                    |           |               |
| UP/NW/NE (n=90)                                     | 77.9   | [67.2,85.8] | 22.1                        | [14.2,32.8] | 0.0                |           | 100.0         |
| W/E Central/E (n=138)                               | 68.7   | [58.5,77.4] | 30.9                        | [22.3,41.1] | 0.4                | [0.1,2.6] | 100.0         |
| S Central/SW/SE (n=92)                              | 65.5   | [53.3,76.0] | 34.5                        | [24.0,46.7] | 0.0                |           | 100.0         |
| Detroit Metro (n=106)                               | 60.0   | [47.7,71.1] | 40.0                        | [28.9,52.3] | 0.0                |           | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 7.0912 |             |                             |             |                    |           |               |
| Design-based F(3.87, 1603.43) =                     | 1.3820 | Pr =        | 0.239                       |             |                    |           |               |
| <b>Low healthcare utilizers</b>                     |        |             |                             |             |                    |           |               |
| Yes (n=19)  | 75.0   | [45.3,91.6] | 25.0                        | [8.4,54.7]  | 0.0                |           | 100.0         |
| No (n=407)  | 65.2   | [58.7,71.2] | 34.7                        | [28.7,41.2] | 0.1                | [0.0,0.8] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.7634 |             |                             |             |                    |           |               |
| Design-based F(1.60, 663.42) =                      | 0.3849 | Pr =        | 0.634                       |             |                    |           |               |
| <b>High ER utilizers</b>                            |        |             |                             |             |                    |           |               |
| Yes (n=15)  | 56.7   | [29.9,80.1] | 43.3                        | [19.9,70.1] | 0.0                |           | 100.0         |
| No (n=411)  | 65.9   | [59.4,71.8] | 34.0                        | [28.1,40.4] | 0.1                | [0.0,0.8] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.4407 |             |                             |             |                    |           |               |
| Design-based F(1.82, 754.61) =                      | 0.3036 | Pr =        | 0.718                       |             |                    |           |               |
| <b>Chronic disease (HEDIS)</b>                      |        |             |                             |             |                    |           |               |
| Chronic disease (HEDIS) (n=235)                     | 60.5   | [52.2,68.3] | 39.3                        | [31.5,47.6] | 0.2                | [0.0,1.5] | 100.0         |
| No chronic disease (n=191)                          | 71.5   | [61.7,79.5] | 28.5                        | [20.5,38.3] | 0.0                |           | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.9008 |             |                             |             |                    |           |               |
| Design-based F(1.50, 619.53) =                      | 2.5631 | Pr =        | 0.093                       |             |                    |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |        |             |                             |             |                    |           |               |
| MH/SA (HEDIS) (n=243)                               | 60.6   | [52.3,68.4] | 39.4                        | [31.6,47.7] | 0.0                |           | 100.0         |
| No MH/SA (n=183)                                    | 72.7   | [63.0,80.6] | 27.1                        | [19.1,36.7] | 0.3                | [0.0,1.9] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.5687 |             |                             |             |                    |           |               |
| Design-based F(1.50, 621.36) =                      | 3.2980 | Pr =        | 0.051                       |             |                    |           |               |
| <b>Total (n=426)</b>                                | 65.6   | [59.3,71.4] | 34.3                        | [28.5,40.6] | 0.1                | [0.0,0.8] | 100.0         |

#### 4.15 Q: Has a doctor or other health professional ever told you that you had diabetes or sugar diabetes (other than during pregnancy)?

Universe: All respondents

|   | Diabetes    |                   |             |                    |            |                  | Total<br>Row% |
|---|-------------|-------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes         |                   | No          |                    | Don't know |                  |               |
|   | Row%        | 95%CI             | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                   |             |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 12.2        | [10.5,14.2]       | 87.6        | [85.5,89.3]        | 0.2        | [0.1,0.6]        | 100.0         |
| 36-99% (n=1,450)                                    | 9.3         | [7.8,11.1]        | 90.2        | [88.4,91.8]        | 0.5        | [0.2,1.2]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 9.2         | [7.4,11.3]        | 90.2        | [88.0,92.0]        | 0.7        | [0.3,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 12.4231     |                   |             |                    |            |                  |               |
| Design-based F(3.94, 16049.90) =                    | 2.5981      | Pr =              | 0.035       |                    |            |                  |               |
| <b>Region</b>                                       |             |                   |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 9.8         | [7.8,12.2]        | 88.9        | [86.2,91.2]        | 1.3        | [0.5,3.5]        | 100.0         |
| W/E Central/E (n=1,265)                             | 10.2        | [8.6,12.1]        | 89.6        | [87.7,91.2]        | 0.2        | [0.1,0.7]        | 100.0         |
| S Central/SW/SE (n=836)                             | 9.7         | [7.7,12.0]        | 89.8        | [87.4,91.8]        | 0.5        | [0.2,1.2]        | 100.0         |
| Detroit Metro (n=1,242)                             | 11.9        | [9.9,14.2]        | 87.9        | [85.6,89.9]        | 0.3        | [0.1,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 14.0202     |                   |             |                    |            |                  |               |
| Design-based F(5.50, 22410.48) =                    | 2.1113      | Pr =              | 0.054       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                   |             |                    |            |                  |               |
| Yes (n=491)   | 2.6         | [1.1,6.0]         | 97.1        | [93.7,98.7]        | 0.3        | [0.0,2.1]        | 100.0         |
| No (n=3,598)  | 12.3        | [11.0,13.6]       | 87.3        | [86.0,88.6]        | 0.4        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 51.3389     |                   |             |                    |            |                  |               |
| Design-based F(1.88, 7666.81) =                     | 10.7275     | Pr =              | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                   |             |                    |            |                  |               |
| Yes (n=156)   | 14.2        | [9.0,21.6]        | 84.5        | [77.0,89.9]        | 1.3        | [0.4,4.2]        | 100.0         |
| No (n=3,933)  | 10.6        | [9.5,11.9]        | 89.0        | [87.8,90.1]        | 0.3        | [0.2,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 6.6966      |                   |             |                    |            |                  |               |
| Design-based F(1.90, 7730.22) =                     | 2.7571      | Pr =              | 0.067       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                   |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 36.9        | [33.5,40.4]       | 62.9        | [59.4,66.3]        | 0.1        | [0.0,0.4]        | 100.0         |
| No chronic disease (n=2,929)                        | 2.0         | [1.5,2.8]         | 97.5        | [96.6,98.1]        | 0.5        | [0.3,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 973.3455    |                   |             |                    |            |                  |               |
| Design-based F(1.56, 6358.76) =                     | 429.0845    | Pr =              | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                   |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 11.8        | [10.2,13.6]       | 87.7        | [85.8,89.3]        | 0.6        | [0.3,1.1]        | 100.0         |
| No MH/SA (n=2,055)                                  | 9.9         | [8.4,11.5]        | 89.9        | [88.2,91.4]        | 0.2        | [0.1,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.3292      |                   |             |                    |            |                  |               |
| Design-based F(2.00, 8151.68) =                     | 2.4757      | Pr =              | 0.084       |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>10.8</b> | <b>[9.7,12.0]</b> | <b>88.8</b> | <b>[87.6,89.9]</b> | <b>0.4</b> | <b>[0.2,0.7]</b> | <b>100.0</b>  |



## 4.16 Q: Did you find out you had diabetes or sugar diabetes before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents with diabetes

|   | Before  |             | Before/After: Diabetes |             | After |            | Don't know |       | Total<br>Row% |
|---|---------|-------------|------------------------|-------------|-------|------------|------------|-------|---------------|
|   | Row%    | 95%CI       | Row%                   | 95%CI       | Row%  | 95%CI      | Row%       | 95%CI |               |
| <b>FPL category</b>                                 |         |             |                        |             |       |            |            |       |               |
| 0-35% (n=223)                                       | 62.8    | [54.4,70.4] | 36.2                   | [28.6,44.6] | 1.0   | [0.2,4.1]  |            |       | 100.0         |
| 36-99% (n=167)                                      | 61.3    | [51.7,70.0] | 37.7                   | [29.0,47.4] | 1.0   | [0.3,3.3]  |            |       | 100.0         |
| ≥ 100% (n = 109)                                    | 71.1    | [59.7,80.3] | 28.9                   | [19.7,40.3] | 0.0   |            |            |       | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 2.9506  |             |                        |             |       |            |            |       |               |
| Design-based F(3.51, 1709.34) =                     | 0.6288  | Pr =        | 0.621                  |             |       |            |            |       |               |
| <b>Region</b>                                       |         |             |                        |             |       |            |            |       |               |
| UP/NW/NE (n=91)                                     | 66.6    | [54.8,76.6] | 32.0                   | [22.1,43.8] | 1.4   | [0.4,5.5]  |            |       | 100.0         |
| W/E Central/E (n=150)                               | 68.0    | [59.2,75.7] | 31.1                   | [23.5,39.9] | 0.9   | [0.1,5.9]  |            |       | 100.0         |
| S Central/SW/SE (n=99)                              | 66.6    | [54.7,76.7] | 32.6                   | [22.6,44.6] | 0.8   | [0.1,5.2]  |            |       | 100.0         |
| Detroit Metro (n=159)                               | 60.0    | [50.2,69.0] | 39.3                   | [30.3,49.1] | 0.7   | [0.1,5.2]  |            |       | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 3.3232  |             |                        |             |       |            |            |       |               |
| Design-based F(4.99, 2430.16) =                     | 0.5356  | Pr =        | 0.749                  |             |       |            |            |       |               |
| <b>Low healthcare utilizers</b>                     |         |             |                        |             |       |            |            |       |               |
| Yes (n=11)  | 52.0    | [15.9,86.1] | 48.0                   | [13.9,84.1] | 0.0   |            |            |       | 100.0         |
| No (n=488)  | 64.2    | [58.6,69.5] | 34.9                   | [29.7,40.5] | 0.9   | [0.3,2.5]  |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.4369  |             |                        |             |       |            |            |       |               |
| Design-based F(1.66, 809.84) =                      | 0.2778  | Pr =        | 0.716                  |             |       |            |            |       |               |
| <b>High ER utilizers</b>                            |         |             |                        |             |       |            |            |       |               |
| Yes (n=27)  | 69.9    | [47.5,85.6] | 30.1                   | [14.4,52.5] | 0.0   |            |            |       | 100.0         |
| No (n=472)  | 63.4    | [57.5,69.0] | 35.7                   | [30.2,41.6] | 0.9   | [0.3,2.6]  |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.6793  |             |                        |             |       |            |            |       |               |
| Design-based F(1.99, 969.00) =                      | 0.2521  | Pr =        | 0.776                  |             |       |            |            |       |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                        |             |       |            |            |       |               |
| Chronic disease (HEDIS) (n=439)                     | 68.1    | [62.2,73.4] | 31.4                   | [26.1,37.2] | 0.5   | [0.2,1.7]  |            |       | 100.0         |
| No chronic disease (n=60)                           | 37.9    | [24.3,53.6] | 59.6                   | [43.6,73.8] | 2.5   | [0.4,16.2] |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 25.1237 |             |                        |             |       |            |            |       |               |
| Design-based F(1.96, 955.78) =                      | 8.0226  | Pr =        | 0.000                  |             |       |            |            |       |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                        |             |       |            |            |       |               |
| MH/SA (HEDIS) (n=265)                               | 59.8    | [52.0,67.2] | 38.7                   | [31.4,46.6] | 1.5   | [0.5,4.5]  |            |       | 100.0         |
| No MH/SA (n=234)                                    | 68.2    | [59.8,75.6] | 31.6                   | [24.2,40.1] | 0.1   | [0.0,0.9]  |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.7804  |             |                        |             |       |            |            |       |               |
| Design-based F(1.42, 690.76) =                      | 2.7185  | Pr =        | 0.085                  |             |       |            |            |       |               |
| <b>Total (n=499)</b>                                | 63.8    | [58.1,69.1] | 35.4                   | [30.1,41.1] | 0.8   | [0.3,2.4]  |            |       | 100.0         |

#### 4.17 Q: Has a doctor or other health professional ever told you that you had cancer (other than skin cancer)?

Universe: All respondents

|   | Yes        |                  | Cancer (non-skin)<br>No |                    | Don't know |                  | Total<br>Row% |
|---|------------|------------------|-------------------------|--------------------|------------|------------------|---------------|
|   | Row%       | 95%CI            | Row%                    | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |            |                  |                         |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 3.6        | [2.7,4.7]        | 96.0                    | [94.8,96.9]        | 0.4        | [0.2,1.1]        | 100.0         |
| 36-99% (n=1,450)                                    | 3.7        | [2.9,4.8]        | 96.2                    | [95.2,97.1]        | 0.1        | [0.0,0.3]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 4.2        | [3.2,5.6]        | 95.7                    | [94.3,96.8]        | 0.1        | [0.0,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 6.0700     |                  |                         |                    |            |                  |               |
| Design-based F(3.59, 14649.05) =                    | 2.0113     | Pr =             | 0.098                   |                    |            |                  |               |
| <b>Region</b>                                       |            |                  |                         |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 5.4        | [4.0,7.3]        | 94.5                    | [92.6,96.0]        | 0.1        | [0.0,0.4]        | 100.0         |
| W/E Central/E (n=1,265)                             | 3.5        | [2.7,4.7]        | 96.3                    | [95.2,97.2]        | 0.1        | [0.0,0.4]        | 100.0         |
| S Central/SW/SE (n=836)                             | 4.4        | [3.2,6.0]        | 95.3                    | [93.7,96.6]        | 0.3        | [0.1,0.8]        | 100.0         |
| Detroit Metro (n=1,242)                             | 3.3        | [2.3,4.5]        | 96.3                    | [95.0,97.3]        | 0.4        | [0.1,1.2]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 8.0105     |                  |                         |                    |            |                  |               |
| Design-based F(4.90, 19993.91) =                    | 1.6239     | Pr =             | 0.151                   |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                         |                    |            |                  |               |
| Yes (n=491)   | 1.0        | [0.4,2.4]        | 99.0                    | [97.6,99.6]        | 0.0        |                  | 100.0         |
| No (n=3,598)  | 4.2        | [3.6,5.0]        | 95.4                    | [94.6,96.1]        | 0.3        | [0.1,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 17.7379    |                  |                         |                    |            |                  |               |
| Design-based F(1.96, 7977.47) =                     | 5.6558     | Pr =             | 0.004                   |                    |            |                  |               |
| <b>High ER utilizers</b>                            |            |                  |                         |                    |            |                  |               |
| Yes (n=156)   | 2.5        | [1.0,6.4]        | 95.4                    | [89.0,98.2]        | 2.0        | [0.4,10.5]       | 100.0         |
| No (n=3,933)  | 3.8        | [3.2,4.5]        | 96.0                    | [95.3,96.6]        | 0.2        | [0.1,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 23.0150    |                  |                         |                    |            |                  |               |
| Design-based F(1.77, 7209.43) =                     | 6.8446     | Pr =             | 0.002                   |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                         |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 5.3        | [4.0,7.0]        | 94.3                    | [92.4,95.7]        | 0.4        | [0.1,1.8]        | 100.0         |
| No chronic disease (n=2,929)                        | 3.2        | [2.6,4.0]        | 96.6                    | [95.8,97.2]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 10.4470    |                  |                         |                    |            |                  |               |
| Design-based F(1.86, 7570.11) =                     | 3.2160     | Pr =             | 0.044                   |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                         |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 4.0        | [3.2,5.1]        | 95.6                    | [94.5,96.5]        | 0.3        | [0.1,1.0]        | 100.0         |
| No MH/SA (n=2,055)                                  | 3.5        | [2.7,4.4]        | 96.3                    | [95.3,97.1]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.8809     |                  |                         |                    |            |                  |               |
| Design-based F(1.96, 7989.32) =                     | 0.6952     | Pr =             | 0.496                   |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>3.7</b> | <b>[3.2,4.4]</b> | <b>96.0</b>             | <b>[95.3,96.6]</b> | <b>0.3</b> | <b>[0.1,0.6]</b> | <b>100.0</b>  |

#### 4.18 Q: Did you find out you had cancer (other than skin cancer) before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents who had/have cancer

|   | Before  |             | Before/After: Cancer (non-skin) |             |                    |            | Total<br>Row% |
|---|---------|-------------|---------------------------------|-------------|--------------------|------------|---------------|
|   | Row%    | 95%CI       | After<br>Row%                   | 95%CI       | Don't know<br>Row% | 95%CI      |               |
| <b>FPL category</b>                                 |         |             |                                 |             |                    |            |               |
| 0-35% (n=73)  | 53.3    | [39.4,66.7] | 46.7                            | [33.3,60.6] | 0.0                |            | 100.0         |
| 36-99% (n=72)                                       | 59.5    | [46.5,71.2] | 38.9                            | [27.3,51.9] | 1.6                | [0.2,10.7] | 100.0         |
| ≥ 100%(n = 58)                                      | 77.1    | [63.8,86.5] | 22.9                            | [13.5,36.2] | 0.0                |            | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.7616  |             |                                 |             |                    |            |               |
| Design-based F(3.19, 610.21) =                      | 2.7951  | Pr =        | 0.036                           |             |                    |            |               |
| <b>Region</b>                                       |         |             |                                 |             |                    |            |               |
| UP/NW/NE (n=46)                                     | 59.5    | [43.1,74.1] | 37.0                            | [23.2,53.4] | 3.5                | [0.5,21.4] | 100.0         |
| W/E Central/E (n=59)                                | 71.8    | [57.2,82.8] | 28.2                            | [17.2,42.8] | 0.0                |            | 100.0         |
| S Central/SW/SE (n=48)                              | 71.5    | [56.1,83.2] | 28.5                            | [16.8,43.9] | 0.0                |            | 100.0         |
| Detroit Metro (n=50)                                | 46.1    | [30.4,62.6] | 53.9                            | [37.4,69.6] | 0.0                |            | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 18.1398 |             |                                 |             |                    |            |               |
| Design-based F(4.33, 827.68) =                      | 3.5875  | Pr =        | 0.005                           |             |                    |            |               |
| <b>Low healthcare utilizers</b>                     |         |             |                                 |             |                    |            |               |
| Yes (n=7)   | 43.0    | [11.8,80.9] | 57.0                            | [19.1,88.2] | 0.0                |            | 100.0         |
| No (n=196)  | 61.0    | [52.3,69.1] | 38.5                            | [30.5,47.2] | 0.5                | [0.1,3.3]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1310  |             |                                 |             |                    |            |               |
| Design-based F(1.82, 348.06) =                      | 0.4445  | Pr =        | 0.623                           |             |                    |            |               |
| <b>High ER utilizers</b>                            |         |             |                                 |             |                    |            |               |
| Yes (n=5)   | 68.0    | [22.3,94.0] | 32.0                            | [6.0,77.7]  | 0.0                |            | 100.0         |
| No (n=198)  | 60.1    | [51.4,68.1] | 39.5                            | [31.4,48.1] | 0.5                | [0.1,3.3]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1734  |             |                                 |             |                    |            |               |
| Design-based F(1.95, 371.69) =                      | 0.0744  | Pr =        | 0.924                           |             |                    |            |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                                 |             |                    |            |               |
| Chronic disease (HEDIS) (n=73)                      | 54.6    | [40.0,68.5] | 45.4                            | [31.5,60.0] | 0.0                |            | 100.0         |
| No chronic disease (n=130)                          | 63.4    | [52.8,73.0] | 35.9                            | [26.4,46.6] | 0.7                | [0.1,4.9]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.1831  |             |                                 |             |                    |            |               |
| Design-based F(1.85, 354.04) =                      | 0.8475  | Pr =        | 0.422                           |             |                    |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                                 |             |                    |            |               |
| MH/SA (HEDIS) (n=110)                               | 58.3    | [46.4,69.2] | 41.7                            | [30.8,53.6] | 0.0                |            | 100.0         |
| No MH/SA (n=93)                                     | 62.5    | [49.5,73.9] | 36.5                            | [25.2,49.6] | 0.9                | [0.1,6.5]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.4903  |             |                                 |             |                    |            |               |
| Design-based F(1.85, 352.41) =                      | 0.5741  | Pr =        | 0.550                           |             |                    |            |               |
| <b>Total (n=203)</b>                                | 60.3    | [51.8,68.3] | 39.2                            | [31.3,47.8] | 0.5                | [0.1,3.2]  | 100.0         |

#### 4.19 Q: Has a doctor or other health professional ever told you that you had a mood disorder?

Universe: All respondents

|   | Yes         |                    | Mood disorder<br>No |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|---------------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%                | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                     |                    |            |                  |               |
| 0-35% (n=1,596)                                     | 35.5        | [32.6,38.4]        | 63.9                | [61.0,66.8]        | 0.6        | [0.2,1.5]        | 100.0         |
| 36-99% (n=1,448)                                    | 26.1        | [23.6,28.8]        | 73.8                | [71.0,76.3]        | 0.1        | [0.0,0.5]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 23.4        | [20.5,26.5]        | 76.4                | [73.3,79.3]        | 0.2        | [0.1,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 61.5155     |                    |                     |                    |            |                  |               |
| Design-based F(3.67, 14946.37) =                    | 14.7403     | Pr =               | 0.000               |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |                     |                    |            |                  |               |
| UP/NW/NE (n=745)                                    | 35.3        | [31.5,39.3]        | 64.6                | [60.6,68.4]        | 0.1        | [0.0,0.8]        | 100.0         |
| W/E Central/E (n=1,264)                             | 36.6        | [33.6,39.8]        | 63.1                | [60.0,66.2]        | 0.2        | [0.1,0.7]        | 100.0         |
| S Central/SW/SE (n=834)                             | 35.9        | [32.1,39.8]        | 64.1                | [60.2,67.8]        | 0.1        | [0.0,0.4]        | 100.0         |
| Detroit Metro (n=1,241)                             | 23.1        | [20.2,26.2]        | 76.3                | [73.1,79.2]        | 0.6        | [0.2,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 86.4558     |                    |                     |                    |            |                  |               |
| Design-based F(4.74, 19288.99) =                    | 14.1873     | Pr =               | 0.000               |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                     |                    |            |                  |               |
| Yes (n=491)   | 14.9        | [11.5,19.1]        | 84.8                | [80.6,88.3]        | 0.3        | [0.1,1.0]        | 100.0         |
| No (n=3,593)  | 33.2        | [31.3,35.2]        | 66.4                | [64.4,68.3]        | 0.4        | [0.2,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 84.4482     |                    |                     |                    |            |                  |               |
| Design-based F(1.85, 7527.01) =                     | 29.9098     | Pr =               | 0.000               |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                     |                    |            |                  |               |
| Yes (n=155)   | 51.7        | [41.7,61.7]        | 46.5                | [36.7,56.6]        | 1.7        | [0.2,11.3]       | 100.0         |
| No (n=3,929)  | 29.5        | [27.7,31.3]        | 70.2                | [68.4,72.0]        | 0.3        | [0.1,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 51.0284     |                    |                     |                    |            |                  |               |
| Design-based F(1.91, 7768.94) =                     | 10.6087     | Pr =               | 0.000               |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                     |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 37.0        | [33.7,40.5]        | 62.4                | [58.9,65.8]        | 0.6        | [0.1,2.2]        | 100.0         |
| No chronic disease (n=2,924)                        | 28.2        | [26.2,30.3]        | 71.5                | [69.4,73.5]        | 0.3        | [0.1,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 29.9302     |                    |                     |                    |            |                  |               |
| Design-based F(1.85, 7538.19) =                     | 7.3398      | Pr =               | 0.001               |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                     |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,030)                             | 55.0        | [52.3,57.8]        | 44.6                | [41.9,47.4]        | 0.3        | [0.1,0.9]        | 100.0         |
| No MH/SA (n=2,054)                                  | 7.4         | [6.1,9.0]          | 92.2                | [90.5,93.5]        | 0.4        | [0.1,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1092.2152   |                    |                     |                    |            |                  |               |
| Design-based F(1.94, 7899.81) =                     | 273.7532    | Pr =               | 0.000               |                    |            |                  |               |
| <b>Total (n=4,084)</b>                              | <b>30.4</b> | <b>[28.7,32.2]</b> | <b>69.2</b>         | <b>[67.4,71.0]</b> | <b>0.4</b> | <b>[0.2,0.8]</b> | <b>100.0</b>  |

## 4.20 Q: Did you find out you had a mood disorder before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents with a mood disorder

|   | Before  |             | Before/After: Mood disorder |             |                    |           | Total<br>Row% |
|---|---------|-------------|-----------------------------|-------------|--------------------|-----------|---------------|
|   | Row%    | 95%CI       | After<br>Row%               | 95%CI       | Don't know<br>Row% | 95%CI     |               |
| <b>FPL category</b>                                 |         |             |                             |             |                    |           |               |
| 0-35% (n=623)                                       | 69.0    | [64.3,73.4] | 30.6                        | [26.3,35.4] | 0.4                | [0.1,1.4] | 100.0         |
| 36-99% (n=413)                                      | 70.7    | [64.5,76.2] | 29.1                        | [23.6,35.3] | 0.2                | [0.0,1.2] | 100.0         |
| ≥ 100% (n = 252)                                    | 78.1    | [70.9,84.0] | 21.4                        | [15.6,28.7] | 0.5                | [0.1,2.0] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 6.8448  |             |                             |             |                    |           |               |
| Design-based F(3.49, 4455.62) =                     | 1.6053  | Pr =        | 0.178                       |             |                    |           |               |
| <b>Region</b>                                       |         |             |                             |             |                    |           |               |
| UP/NW/NE (n=258)                                    | 71.6    | [64.8,77.6] | 28.1                        | [22.2,35.0] | 0.2                | [0.0,1.7] | 100.0         |
| W/E Central/E (n=456)                               | 73.3    | [68.0,78.0] | 26.5                        | [21.8,31.8] | 0.1                | [0.0,1.0] | 100.0         |
| S Central/SW/SE (n=310)                             | 71.8    | [65.5,77.3] | 28.0                        | [22.5,34.3] | 0.2                | [0.0,1.4] | 100.0         |
| Detroit Metro (n=264)                               | 67.4    | [59.9,74.0] | 32.0                        | [25.4,39.4] | 0.6                | [0.2,2.6] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 5.5340  |             |                             |             |                    |           |               |
| Design-based F(4.51, 5753.67) =                     | 0.9097  | Pr =        | 0.466                       |             |                    |           |               |
| <b>Low healthcare utilizers</b>                     |         |             |                             |             |                    |           |               |
| Yes (n=83)  | 79.7    | [68.6,87.7] | 20.3                        | [12.3,31.4] | 0.0                |           | 100.0         |
| No (n=1,205)  | 70.1    | [66.6,73.4] | 29.5                        | [26.2,33.1] | 0.4                | [0.1,1.0] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.1878  |             |                             |             |                    |           |               |
| Design-based F(1.97, 2512.47) =                     | 1.6425  | Pr =        | 0.194                       |             |                    |           |               |
| <b>High ER utilizers</b>                            |         |             |                             |             |                    |           |               |
| Yes (n=88)  | 67.0    | [51.7,79.3] | 33.0                        | [20.7,48.3] | 0.0                |           | 100.0         |
| No (n=1,200)  | 71.1    | [67.7,74.3] | 28.5                        | [25.3,31.9] | 0.4                | [0.1,1.0] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1937  |             |                             |             |                    |           |               |
| Design-based F(1.81, 2314.89) =                     | 0.3598  | Pr =        | 0.677                       |             |                    |           |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                             |             |                    |           |               |
| Chronic disease (HEDIS) (n=430)                     | 65.9    | [59.9,71.4] | 33.1                        | [27.6,39.1] | 1.0                | [0.3,2.9] | 100.0         |
| No chronic disease (n=858)                          | 73.0    | [68.9,76.7] | 27.0                        | [23.2,31.0] | 0.0                | [0.0,0.3] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 13.2070 |             |                             |             |                    |           |               |
| Design-based F(1.46, 1865.05) =                     | 6.5362  | Pr =        | 0.004                       |             |                    |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                             |             |                    |           |               |
| MH/SA (HEDIS) (n=1,131)                             | 70.1    | [66.5,73.5] | 29.5                        | [26.1,33.1] | 0.4                | [0.1,1.0] | 100.0         |
| No MH/SA (n=157)                                    | 75.5    | [66.2,82.9] | 24.5                        | [17.1,33.8] | 0.0                |           | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.4284  |             |                             |             |                    |           |               |
| Design-based F(1.93, 2467.78) =                     | 0.8941  | Pr =        | 0.406                       |             |                    |           |               |
| <b>Total (n=1,288)</b>                              | 70.8    | [67.5,74.0] | 28.8                        | [25.7,32.2] | 0.3                | [0.1,0.9] | 100.0         |

## 4.21 Q: Has a doctor or other health professional ever told you that you had a stroke?

Universe: All respondents

|   | Yes        |                  | Stroke      |                    | No         |                  | Don't know |       | Total<br>Row% |
|---|------------|------------------|-------------|--------------------|------------|------------------|------------|-------|---------------|
|   | Row%       | 95%CI            | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI |               |
| <b>FPL category</b>                                 |            |                  |             |                    |            |                  |            |       |               |
| 0-35% (n=1,599)                                     | 2.2        | [1.6,3.2]        | 97.5        | [96.4,98.2]        | 0.3        | [0.1,1.0]        |            |       | 100.0         |
| 36-99% (n=1,450)                                    | 1.5        | [1.0,2.3]        | 98.5        | [97.7,99.0]        | 0.0        |                  |            |       | 100.0         |
| ≥ 100% (n = 1,040)                                  | 1.8        | [1.1,2.9]        | 98.2        | [97.1,98.9]        | 0.0        |                  |            |       | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 8.0063     |                  |             |                    |            |                  |            |       |               |
| Design-based F(2.87, 11698.74) =                    | 1.6996     | Pr =             | 0.167       |                    |            |                  |            |       |               |
| <b>Region</b>                                       |            |                  |             |                    |            |                  |            |       |               |
| UP/NW/NE (n=746)                                    | 1.4        | [0.8,2.5]        | 98.5        | [97.4,99.1]        | 0.1        | [0.0,0.4]        |            |       | 100.0         |
| W/E Central/E (n=1,265)                             | 2.3        | [1.5,3.4]        | 97.7        | [96.6,98.4]        | 0.1        | [0.0,0.6]        |            |       | 100.0         |
| S Central/SW/SE (n=836)                             | 2.5        | [1.5,3.9]        | 97.5        | [96.1,98.5]        | 0.0        |                  |            |       | 100.0         |
| Detroit Metro (n=1,242)                             | 1.6        | [1.0,2.6]        | 98.1        | [97.0,98.8]        | 0.3        | [0.1,1.2]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 7.1299     |                  |             |                    |            |                  |            |       |               |
| Design-based F(4.07, 16574.14) =                    | 1.0266     | Pr =             | 0.392       |                    |            |                  |            |       |               |
| <b>Low healthcare utilizers</b>                     |            |                  |             |                    |            |                  |            |       |               |
| Yes (n=491)   | 0.8        | [0.3,2.3]        | 99.2        | [97.7,99.7]        | 0.0        |                  |            |       | 100.0         |
| No (n=3,598)  | 2.1        | [1.7,2.8]        | 97.7        | [97.0,98.2]        | 0.2        | [0.1,0.6]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 6.0404     |                  |             |                    |            |                  |            |       |               |
| Design-based F(1.89, 7724.08) =                     | 1.6106     | Pr =             | 0.201       |                    |            |                  |            |       |               |
| <b>High ER utilizers</b>                            |            |                  |             |                    |            |                  |            |       |               |
| Yes (n=156)   | 3.5        | [1.6,7.3]        | 94.8        | [88.7,97.7]        | 1.7        | [0.2,11.1]       |            |       | 100.0         |
| No (n=3,933)  | 1.9        | [1.4,2.4]        | 98.0        | [97.5,98.5]        | 0.1        | [0.0,0.3]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 32.9664    |                  |             |                    |            |                  |            |       |               |
| Design-based F(1.72, 7004.97) =                     | 9.9496     | Pr =             | 0.000       |                    |            |                  |            |       |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |             |                    |            |                  |            |       |               |
| Chronic disease (HEDIS) (n=1,160)                   | 5.0        | [3.7,6.7]        | 95.0        | [93.3,96.3]        | 0.0        |                  |            |       | 100.0         |
| No chronic disease (n=2,929)                        | 0.9        | [0.6,1.4]        | 98.9        | [98.3,99.3]        | 0.2        | [0.1,0.7]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 68.4573    |                  |             |                    |            |                  |            |       |               |
| Design-based F(1.87, 7642.94) =                     | 18.5926    | Pr =             | 0.000       |                    |            |                  |            |       |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |             |                    |            |                  |            |       |               |
| MH/SA (HEDIS) (n=2,034)                             | 2.5        | [1.8,3.3]        | 97.2        | [96.3,98.0]        | 0.3        | [0.1,1.0]        |            |       | 100.0         |
| No MH/SA (n=2,055)                                  | 1.5        | [0.9,2.3]        | 98.5        | [97.7,99.1]        | 0.0        | [0.0,0.1]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.1918    |                  |             |                    |            |                  |            |       |               |
| Design-based F(1.37, 5571.66) =                     | 6.5270     | Pr =             | 0.005       |                    |            |                  |            |       |               |
| <b>Total (n=4,089)</b>                              | <b>1.9</b> | <b>[1.5,2.5]</b> | <b>97.9</b> | <b>[97.3,98.4]</b> | <b>0.2</b> | <b>[0.0,0.5]</b> |            |       | <b>100.0</b>  |

## 4.22 Q: Did you find out you had a stroke before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents who had a stroke

|   | Before/After: Stroke |                    |               |                    | Total<br>Row% |
|---|----------------------|--------------------|---------------|--------------------|---------------|
|   | Before<br>Row%       | 95%CI              | After<br>Row% | 95%CI              |               |
| <b>FPL category</b>                                 |                      |                    |               |                    |               |
| 0-35% (n=41)  | 58.7                 | [40.2,75.0]        | 41.3          | [25.0,59.8]        | 100.0         |
| 36-99% (n=26)                                       | 67.1                 | [43.5,84.4]        | 32.9          | [15.6,56.5]        | 100.0         |
| ≥ 100%(n = 21)                                      | 54.4                 | [28.8,77.9]        | 45.6          | [22.1,71.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.6543               |                    |               |                    |               |
| Design-based F(1.97, 149.97) =                      | 0.2640               | Pr =               | 0.765         |                    |               |
| <b>Region</b>                                       |                      |                    |               |                    |               |
| UP/NW/NE (n=14)                                     | 66.7                 | [36.1,87.7]        | 33.3          | [12.3,63.9]        | 100.0         |
| W/E Central/E (n=29)                                | 58.4                 | [37.9,76.4]        | 41.6          | [23.6,62.1]        | 100.0         |
| S Central/SW/SE (n=23)                              | 57.4                 | [34.1,77.8]        | 42.6          | [22.2,65.9]        | 100.0         |
| Detroit Metro (n=22)                                | 61.4                 | [35.7,82.0]        | 38.6          | [18.0,64.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.2199               |                    |               |                    |               |
| Design-based F(2.56, 194.52) =                      | 0.0616               | Pr =               | 0.968         |                    |               |
| <b>Low healthcare utilizers</b>                     |                      |                    |               |                    |               |
| Yes (n=4)   | 100.0                |                    | 0.0           |                    | 100.0         |
| No (n=84)   | 57.0                 | [43.4,69.7]        | 43.0          | [30.3,56.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.0567               |                    |               |                    |               |
| Design-based F(1.00, 76.00) =                       | 2.7960               | Pr =               | 0.099         |                    |               |
| <b>High ER utilizers</b>                            |                      |                    |               |                    |               |
| Yes (n=8)   | 8.2                  | [1.0,42.9]         | 91.8          | [57.1,99.0]        | 100.0         |
| No (n=80)   | 64.2                 | [50.5,76.0]        | 35.8          | [24.0,49.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 8.3474               |                    |               |                    |               |
| Design-based F(1.00, 76.00) =                       | 13.4430              | Pr =               | 0.000         |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                      |                    |               |                    |               |
| Chronic disease (HEDIS) (n=59)                      | 49.8                 | [34.1,65.5]        | 50.2          | [34.5,65.9]        | 100.0         |
| No chronic disease (n=29)                           | 77.9                 | [56.0,90.7]        | 22.1          | [9.3,44.0]         | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.6522               |                    |               |                    |               |
| Design-based F(1.00, 76.00) =                       | 4.6173               | Pr =               | 0.035         |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                      |                    |               |                    |               |
| MH/SA (HEDIS) (n=56)                                | 54.3                 | [38.7,69.2]        | 45.7          | [30.8,61.3]        | 100.0         |
| No MH/SA (n=32)                                     | 68.4                 | [45.9,84.6]        | 31.6          | [15.4,54.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.7157               |                    |               |                    |               |
| Design-based F(1.00, 76.00) =                       | 1.1315               | Pr =               | 0.291         |                    |               |
| <b>Total (n=88)</b>                                 | <b>59.8</b>          | <b>[46.7,71.7]</b> | <b>40.2</b>   | <b>[28.3,53.3]</b> | <b>100.0</b>  |

## 4.23 Q: Has a doctor or other health professional ever told you that you had asthma?

Universe: All respondents

|   | Asthma   |             |       |             |            |           | Total<br>Row% |
|---|----------|-------------|-------|-------------|------------|-----------|---------------|
|   | Yes      |             | No    |             | Don't know |           |               |
|   | Row%     | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |          |             |       |             |            |           |               |
| 0-35% (n=1,599)                                     | 17.2     | [15.1,19.5] | 82.6  | [80.2,84.7] | 0.2        | [0.1,0.5] | 100.0         |
| 36-99% (n=1,449)                                    | 17.4     | [15.1,20.0] | 82.4  | [79.8,84.7] | 0.2        | [0.1,0.6] | 100.0         |
| ≥ 100%(n = 1,040)                                   | 16.3     | [13.8,19.1] | 83.7  | [80.8,86.1] | 0.0        | [0.0,0.3] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 1.5944   |             |       |             |            |           |               |
| Design-based F(3.35, 13670.98) =                    | 0.4100   | Pr =        | 0.768 |             |            |           |               |
| <b>Region</b>                                       |          |             |       |             |            |           |               |
| UP/NW/NE (n=746)                                    | 18.2     | [15.3,21.5] | 81.4  | [78.1,84.3] | 0.4        | [0.1,1.3] | 100.0         |
| W/E Central/E (n=1,264)                             | 17.8     | [15.5,20.4] | 81.8  | [79.2,84.2] | 0.3        | [0.1,0.9] | 100.0         |
| S Central/SW/SE (n=836)                             | 19.1     | [16.2,22.4] | 80.7  | [77.4,83.6] | 0.1        | [0.0,1.0] | 100.0         |
| Detroit Metro (n=1,242)                             | 15.5     | [13.2,18.1] | 84.4  | [81.8,86.7] | 0.1        | [0.0,0.3] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 9.8079   |             |       |             |            |           |               |
| Design-based F(5.19, 21159.45) =                    | 1.5998   | Pr =        | 0.154 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |          |             |       |             |            |           |               |
| Yes (n=491)   | 11.4     | [8.5,15.2]  | 88.4  | [84.7,91.4] | 0.1        | [0.0,0.8] | 100.0         |
| No (n=3,597)  | 18.1     | [16.6,19.7] | 81.7  | [80.1,83.2] | 0.2        | [0.1,0.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 16.8696  |             |       |             |            |           |               |
| Design-based F(1.71, 6958.33) =                     | 6.7971   | Pr =        | 0.002 |             |            |           |               |
| <b>High ER utilizers</b>                            |          |             |       |             |            |           |               |
| Yes (n=156)   | 28.3     | [20.5,37.7] | 71.7  | [62.3,79.5] | 0.0        |           | 100.0         |
| No (n=3,932)  | 16.6     | [15.2,18.1] | 83.2  | [81.7,84.6] | 0.2        | [0.1,0.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 17.0402  |             |       |             |            |           |               |
| Design-based F(1.83, 7471.47) =                     | 6.4143   | Pr =        | 0.002 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |          |             |       |             |            |           |               |
| Chronic disease (HEDIS) (n=1,160)                   | 35.1     | [31.7,38.6] | 64.6  | [61.1,68.0] | 0.3        | [0.1,0.9] | 100.0         |
| No chronic disease (n=2,928)                        | 11.1     | [9.7,12.6]  | 88.8  | [87.3,90.2] | 0.1        | [0.1,0.3] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 315.6132 |             |       |             |            |           |               |
| Design-based F(1.89, 7689.47) =                     | 129.9910 | Pr =        | 0.000 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |          |             |       |             |            |           |               |
| MH/SA (HEDIS) (n=2,034)                             | 22.2     | [20.0,24.6] | 77.6  | [75.3,79.9] | 0.2        | [0.1,0.4] | 100.0         |
| No MH/SA (n=2,054)                                  | 12.3     | [10.7,14.1] | 87.5  | [85.7,89.1] | 0.2        | [0.1,0.5] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 69.8966  |             |       |             |            |           |               |
| Design-based F(1.87, 7602.44) =                     | 29.1051  | Pr =        | 0.000 |             |            |           |               |
| <b>Total (n=4,088)</b>                              | 17.1     | [15.7,18.6] | 82.7  | [81.2,84.1] | 0.2        | [0.1,0.4] | 100.0         |



## 4.24 Q: Did you find out you had asthma before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents who had/have asthma

|   | Before      |                    | Before/After: Asthma<br>After |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|-------------------------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%                          | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                               |                    |            |                  |               |
| 0-35% (n=300)                                       | 83.2        | [77.2,87.8]        | 16.2                          | [11.6,22.1]        | 0.7        | [0.1,4.6]        | 100.0         |
| 36-99% (n=250)                                      | 90.1        | [84.2,93.9]        | 9.7                           | [5.9,15.6]         | 0.2        | [0.0,1.6]        | 100.0         |
| ≥ 100%(n = 175)                                     | 90.6        | [84.1,94.5]        | 8.6                           | [4.8,15.0]         | 0.8        | [0.2,3.3]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 8.4724      |                    |                               |                    |            |                  |               |
| Design-based F(3.57, 2542.74) =                     | 1.8673      | Pr =               | 0.122                         |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |                               |                    |            |                  |               |
| UP/NW/NE (n=143)                                    | 89.6        | [82.5,94.1]        | 9.5                           | [5.3,16.5]         | 0.8        | [0.1,5.8]        | 100.0         |
| W/E Central/E (n=222)                               | 85.4        | [79.2,89.9]        | 14.2                          | [9.6,20.4]         | 0.5        | [0.1,1.9]        | 100.0         |
| S Central/SW/SE (n=165)                             | 93.0        | [88.2,96.0]        | 7.0                           | [4.0,11.8]         | 0.0        |                  | 100.0         |
| Detroit Metro (n=195)                               | 83.3        | [75.6,89.0]        | 15.8                          | [10.3,23.5]        | 0.9        | [0.1,5.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 9.5590      |                    |                               |                    |            |                  |               |
| Design-based F(4.33, 3089.62) =                     | 1.3602      | Pr =               | 0.242                         |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                               |                    |            |                  |               |
| Yes (n=65)  | 95.9        | [84.2,99.0]        | 4.1                           | [1.0,15.8]         | 0.0        |                  | 100.0         |
| No (n=660)  | 85.5        | [81.6,88.7]        | 13.9                          | [10.8,17.7]        | 0.6        | [0.2,2.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 6.2803      |                    |                               |                    |            |                  |               |
| Design-based F(2.00, 1425.45) =                     | 1.8603      | Pr =               | 0.156                         |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                               |                    |            |                  |               |
| Yes (n=47)  | 80.8        | [64.1,90.9]        | 19.2                          | [9.1,35.9]         | 0.0        |                  | 100.0         |
| No (n=678)  | 87.0        | [83.3,90.0]        | 12.4                          | [9.5,16.1]         | 0.6        | [0.2,2.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.2853      |                    |                               |                    |            |                  |               |
| Design-based F(2.00, 1423.68) =                     | 0.6880      | Pr =               | 0.503                         |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                               |                    |            |                  |               |
| Chronic disease (HEDIS) (n=407)                     | 82.8        | [77.6,87.0]        | 16.1                          | [12.1,21.2]        | 1.1        | [0.3,3.8]        | 100.0         |
| No chronic disease (n=318)                          | 90.5        | [84.9,94.2]        | 9.5                           | [5.8,15.1]         | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.2834     |                    |                               |                    |            |                  |               |
| Design-based F(1.99, 1420.80) =                     | 3.0829      | Pr =               | 0.046                         |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                               |                    |            |                  |               |
| MH/SA (HEDIS) (n=445)                               | 84.4        | [79.4,88.5]        | 14.8                          | [10.9,19.8]        | 0.8        | [0.2,3.2]        | 100.0         |
| No MH/SA (n=280)                                    | 90.1        | [85.2,93.5]        | 9.7                           | [6.3,14.5]         | 0.2        | [0.0,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.9596      |                    |                               |                    |            |                  |               |
| Design-based F(1.83, 1304.24) =                     | 2.2182      | Pr =               | 0.114                         |                    |            |                  |               |
| <b>Total (n=725)</b>                                | <b>86.6</b> | <b>[83.0,89.5]</b> | <b>12.9</b>                   | <b>[10.0,16.4]</b> | <b>0.6</b> | <b>[0.2,2.0]</b> | <b>100.0</b>  |

#### 4.25 Q: Has a doctor or other health professional ever told you that you had chronic bronchitis, COPD, or emphysema?

Universe: All respondents

|   | Chronic bronchitis, COPD, emphysema |                   |             |                    |            |                  | Total<br>Row% |
|---|-------------------------------------|-------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                                 |                   | No          |                    | Don't know |                  |               |
|   | Row%                                | 95%CI             | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                     |                   |             |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 12.1                                | [10.4,14.1]       | 87.3        | [85.2,89.1]        | 0.6        | [0.3,1.3]        | 100.0         |
| 36-99% (n=1,450)                                    | 8.8                                 | [7.2,10.6]        | 91.0        | [89.2,92.6]        | 0.2        | [0.1,0.6]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 8.7                                 | [7.1,10.7]        | 91.1        | [89.2,92.8]        | 0.1        | [0.0,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 17.3305                             |                   |             |                    |            |                  |               |
| Design-based F(3.74, 15257.13) =                    | 4.4485                              | Pr =              | 0.002       |                    |            |                  |               |
| <b>Region</b>                                       |                                     |                   |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 10.9                                | [8.7,13.6]        | 88.2        | [85.4,90.5]        | 0.9        | [0.4,2.0]        | 100.0         |
| W/E Central/E (n=1,265)                             | 11.3                                | [9.5,13.3]        | 88.3        | [86.3,90.1]        | 0.4        | [0.2,0.9]        | 100.0         |
| S Central/SW/SE (n=836)                             | 10.4                                | [8.5,12.8]        | 89.5        | [87.1,91.4]        | 0.1        | [0.0,0.8]        | 100.0         |
| Detroit Metro (n=1,242)                             | 9.9                                 | [8.0,12.1]        | 89.6        | [87.4,91.6]        | 0.5        | [0.1,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 5.1263                              |                   |             |                    |            |                  |               |
| Design-based F(5.11, 20846.82) =                    | 0.7691                              | Pr =              | 0.575       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                     |                   |             |                    |            |                  |               |
| Yes (n=491)   | 5.8                                 | [3.4,9.8]         | 94.1        | [90.2,96.5]        | 0.1        | [0.0,0.4]        | 100.0         |
| No (n=3,598)  | 11.3                                | [10.2,12.6]       | 88.2        | [86.9,89.4]        | 0.5        | [0.2,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 19.2989                             |                   |             |                    |            |                  |               |
| Design-based F(1.28, 5212.20) =                     | 6.2465                              | Pr =              | 0.007       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                                     |                   |             |                    |            |                  |               |
| Yes (n=156)   | 26.3                                | [18.1,36.5]       | 73.7        | [63.5,81.9]        | 0.0        |                  | 100.0         |
| No (n=3,933)  | 9.8                                 | [8.7,10.9]        | 89.8        | [88.6,90.9]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 50.7386                             |                   |             |                    |            |                  |               |
| Design-based F(1.99, 8113.55) =                     | 13.4951                             | Pr =              | 0.000       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                   |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 26.9                                | [23.9,30.1]       | 72.6        | [69.4,75.6]        | 0.5        | [0.1,1.7]        | 100.0         |
| No chronic disease (n=2,929)                        | 5.0                                 | [4.0,6.1]         | 94.6        | [93.4,95.6]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 394.2775                            |                   |             |                    |            |                  |               |
| Design-based F(1.98, 8056.28) =                     | 109.6615                            | Pr =              | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                   |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 14.4                                | [12.6,16.4]       | 85.1        | [83.0,86.9]        | 0.5        | [0.2,1.2]        | 100.0         |
| No MH/SA (n=2,055)                                  | 6.8                                 | [5.7,8.2]         | 92.9        | [91.5,94.1]        | 0.3        | [0.1,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 64.4772                             |                   |             |                    |            |                  |               |
| Design-based F(2.00, 8135.54) =                     | 21.5905                             | Pr =              | 0.000       |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>10.5</b>                         | <b>[9.4,11.7]</b> | <b>89.1</b> | <b>[87.9,90.2]</b> | <b>0.4</b> | <b>[0.2,0.8]</b> | <b>100.0</b>  |

## 4.26 Q: Did you find out you had chronic bronchitis, COPD, or emphysema before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents with chronic bronchitis, COPD, or emphysema

|   | Before/After: Chronic bronchitis, COPD, emphysema |             |       |             |            |           | Total<br>Row% |
|---|---|-------------|-------|-------------|------------|-----------|---------------|
|   | Before  |             | After |             | Don't know |           |               |
|   | Row%  | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |   |             |       |             |            |           |               |
| 0-35% (n=228)                                       | 62.8  | [54.9,70.1] | 36.2  | [28.9,44.2] | 1.0        | [0.3,3.0] | 100.0         |
| 36-99% (n=144)                                      | 65.4  | [54.9,74.7] | 34.3  | [25.1,44.8] | 0.3        | [0.0,1.9] | 100.0         |
| ≥ 100%(n = 107)                                     | 61.8  | [51.0,71.5] | 37.0  | [27.3,47.7] | 1.3        | [0.2,8.7] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 0.8965  |             |       |             |            |           |               |
| Design-based F(3.42, 1596.22) =                     | 0.2296  | Pr =        | 0.898 |             |            |           |               |
| <b>Region</b>                                       |   |             |       |             |            |           |               |
| UP/NW/NE (n=90)                                     | 55.1  | [43.2,66.5] | 44.2  | [32.9,56.1] | 0.7        | [0.1,4.9] | 100.0         |
| W/E Central/E (n=162)                               | 57.5  | [48.6,65.9] | 40.0  | [31.7,48.9] | 2.5        | [0.9,6.8] | 100.0         |
| S Central/SW/SE (n=104)                             | 67.2  | [56.6,76.2] | 32.8  | [23.8,43.4] | 0.0        |           | 100.0         |
| Detroit Metro (n=123)                               | 67.7  | [56.8,77.0] | 32.3  | [23.0,43.2] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 12.0441   |             |       |             |            |           |               |
| Design-based F(4.36, 2037.88) =                     | 2.2651  | Pr =        | 0.054 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |   |             |       |             |            |           |               |
| Yes (n=26)  | 91.0  | [74.4,97.3] | 9.0   | [2.7,25.6]  | 0.0        |           | 100.0         |
| No (n=453)  | 60.7  | [55.0,66.2] | 38.3  | [32.9,44.1] | 0.9        | [0.4,2.3] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.6101   |             |       |             |            |           |               |
| Design-based F(1.94, 908.14) =                      | 5.9337  | Pr =        | 0.003 |             |            |           |               |
| <b>High ER utilizers</b>                            |   |             |       |             |            |           |               |
| Yes (n=35)  | 85.4  | [71.8,93.1] | 14.6  | [6.9,28.2]  | 0.0        |           | 100.0         |
| No (n=444)  | 60.5  | [54.6,66.1] | 38.5  | [33.0,44.4] | 1.0        | [0.4,2.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.6793   |             |       |             |            |           |               |
| Design-based F(1.95, 910.44) =                      | 5.6981  | Pr =        | 0.004 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |   |             |       |             |            |           |               |
| Chronic disease (HEDIS) (n=337)                     | 57.6  | [50.9,64.0] | 41.2  | [34.9,47.9] | 1.2        | [0.4,3.3] | 100.0         |
| No chronic disease (n=142)                          | 73.6  | [63.6,81.6] | 26.2  | [18.2,36.2] | 0.2        | [0.0,1.3] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.7222   |             |       |             |            |           |               |
| Design-based F(1.40, 656.13) =                      | 6.0734  | Pr =        | 0.007 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |             |       |             |            |           |               |
| MH/SA (HEDIS) (n=309)                               | 59.8  | [52.7,66.6] | 39.2  | [32.5,46.4] | 1.0        | [0.3,2.8] | 100.0         |
| No MH/SA (n=170)                                    | 70.2  | [61.5,77.6] | 29.2  | [21.9,37.8] | 0.6        | [0.1,4.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.9399  |             |       |             |            |           |               |
| Design-based F(1.94, 904.79) =                      | 2.0595  | Pr =        | 0.130 |             |            |           |               |
| <b>Total (n=479)</b>                                | 63.3  | [57.7,68.5] | 35.9  | [30.6,41.5] | 0.8        | [0.3,2.2] | 100.0         |

#### 4.27 Q: Has a doctor or other health professional ever told you that you had a substance use disorder?

Universe: All respondents

|   | Substance use disorder |            |       |             |            |           | Total<br>Row% |
|---|------------------------|------------|-------|-------------|------------|-----------|---------------|
|   | Yes                    |            | No    |             | Don't know |           |               |
|   | Row%                   | 95%CI      | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                        |            |       |             |            |           |               |
| 0-35% (n=1,598)                                     | 5.9                    | [4.6,7.5]  | 93.9  | [92.3,95.2] | 0.2        | [0.1,0.9] | 100.0         |
| 36-99% (n=1,450)                                    | 2.0                    | [1.4,2.8]  | 97.9  | [97.0,98.6] | 0.1        | [0.0,0.6] | 100.0         |
| ≥ 100%(n = 1,040)                                   | 2.5                    | [1.7,3.9]  | 97.2  | [95.9,98.1] | 0.2        | [0.1,0.7] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 36.3790                |            |       |             |            |           |               |
| Design-based F(3.83, 15628.89) =                    | 8.4963                 | Pr =       | 0.000 |             |            |           |               |
| <b>Region</b>                                       |                        |            |       |             |            |           |               |
| UP/NW/NE (n=745)                                    | 4.9                    | [3.5,6.8]  | 94.8  | [92.8,96.2] | 0.4        | [0.1,1.6] | 100.0         |
| W/E Central/E (n=1,265)                             | 3.9                    | [2.8,5.5]  | 95.9  | [94.3,97.1] | 0.1        | [0.0,0.6] | 100.0         |
| S Central/SW/SE (n=836)                             | 5.7                    | [4.1,7.9]  | 94.3  | [92.1,95.9] | 0.0        |           | 100.0         |
| Detroit Metro (n=1,242)                             | 3.4                    | [2.3,5.0]  | 96.3  | [94.7,97.4] | 0.3        | [0.1,1.1] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 10.0740                |            |       |             |            |           |               |
| Design-based F(4.83, 19706.14) =                    | 1.2537                 | Pr =       | 0.282 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                        |            |       |             |            |           |               |
| Yes (n=491)   | 6.4                    | [4.2,9.7]  | 93.6  | [90.3,95.8] | 0.0        |           | 100.0         |
| No (n=3,597)  | 3.7                    | [3.0,4.6]  | 96.1  | [95.2,96.8] | 0.2        | [0.1,0.6] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.2945                |            |       |             |            |           |               |
| Design-based F(2.00, 8148.16) =                     | 3.1000                 | Pr =       | 0.045 |             |            |           |               |
| <b>High ER utilizers</b>                            |                        |            |       |             |            |           |               |
| Yes (n=156)   | 15.3                   | [8.9,25.1] | 84.1  | [74.4,90.6] | 0.5        | [0.1,3.7] | 100.0         |
| No (n=3,932)  | 3.6                    | [3.0,4.4]  | 96.2  | [95.4,96.9] | 0.2        | [0.1,0.5] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 61.6388                |            |       |             |            |           |               |
| Design-based F(1.79, 7316.27) =                     | 18.6734                | Pr =       | 0.000 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                        |            |       |             |            |           |               |
| Chronic disease (HEDIS) (n=1,160)                   | 5.2                    | [3.9,7.0]  | 94.8  | [93.0,96.1] | 0.0        | [0.0,0.3] | 100.0         |
| No chronic disease (n=2,928)                        | 3.8                    | [2.9,4.8]  | 96.0  | [94.9,96.8] | 0.2        | [0.1,0.6] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.6263                 |            |       |             |            |           |               |
| Design-based F(1.56, 6365.91) =                     | 2.9700                 | Pr =       | 0.064 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                        |            |       |             |            |           |               |
| MH/SA (HEDIS) (n=2,033)                             | 7.3                    | [5.9,8.9]  | 92.4  | [90.7,93.7] | 0.4        | [0.1,1.0] | 100.0         |
| No MH/SA (n=2,055)                                  | 1.2                    | [0.7,2.0]  | 98.8  | [98.0,99.3] | 0.0        | [0.0,0.2] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 102.8500               |            |       |             |            |           |               |
| Design-based F(1.60, 6526.21) =                     | 42.7975                | Pr =       | 0.000 |             |            |           |               |
| <b>Total (n=4,088)</b>                              | 4.1                    | [3.4,5.0]  | 95.7  | [94.8,96.4] | 0.2        | [0.1,0.5] | 100.0         |

## 4.28 Q: Did you find out you had a substance use disorder before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents with a substance use disorder

|   | Before/After: Substance use disorder |             |       |            |            |            | Total<br>Row% |
|---|--------------------------------------|-------------|-------|------------|------------|------------|---------------|
|   | Before                               |             | After |            | Don't know |            |               |
|   | Row%                                 | 95%CI       | Row%  | 95%CI      | Row%       | 95%CI      |               |
| <b>FPL category</b>                                 |                                      |             |       |            |            |            |               |
| 0-35% (n=104)                                       | 90.9                                 | [81.4,95.8] | 7.6   | [3.3,16.6] | 1.5        | [0.2,10.3] | 100.0         |
| 36-99% (n=33)                                       | 80.1                                 | [58.5,92.0] | 19.9  | [8.0,41.5] | 0.0        |            | 100.0         |
| ≥ 100% (n = 28)                                     | 86.5                                 | [66.8,95.4] | 9.3   | [2.8,26.5] | 4.2        | [0.6,25.5] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 4.4699                               |             |       |            |            |            |               |
| Design-based F(3.57, 546.72) =                      | 0.9625                               |             | Pr =  | 0.421      |            |            |               |
| <b>Region</b>                                       |                                      |             |       |            |            |            |               |
| UP/NW/NE (n=40)                                     | 92.7                                 | [78.8,97.8] | 7.3   | [2.2,21.2] | 0.0        |            | 100.0         |
| W/E Central/E (n=44)                                | 87.4                                 | [70.0,95.3] | 12.6  | [4.7,30.0] | 0.0        |            | 100.0         |
| S Central/SW/SE (n=44)                              | 86.2                                 | [69.2,94.6] | 11.8  | [4.2,29.0] | 2.0        | [0.3,13.3] | 100.0         |
| Detroit Metro (n=37)                                | 90.7                                 | [75.7,96.9] | 6.2   | [1.7,19.6] | 3.1        | [0.4,19.8] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 3.4109                               |             |       |            |            |            |               |
| Design-based F(4.56, 698.15) =                      | 0.5304                               |             | Pr =  | 0.737      |            |            |               |
| <b>Low healthcare utilizers</b>                     |                                      |             |       |            |            |            |               |
| Yes (n=35)  | 81.6                                 | [60.8,92.6] | 18.4  | [7.4,39.2] | 0.0        |            | 100.0         |
| No (n=130)  | 91.2                                 | [83.5,95.4] | 6.7   | [3.2,13.5] | 2.1        | [0.5,9.1]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.5158                               |             |       |            |            |            |               |
| Design-based F(2.00, 305.72) =                      | 1.8297                               |             | Pr =  | 0.162      |            |            |               |
| <b>High ER utilizers</b>                            |                                      |             |       |            |            |            |               |
| Yes (n=20)  | 84.4                                 | [56.8,95.7] | 8.8   | [1.7,35.3] | 6.8        | [0.9,37.2] | 100.0         |
| No (n=145)  | 89.8                                 | [82.3,94.3] | 9.6   | [5.2,17.0] | 0.6        | [0.1,4.3]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.4603                               |             |       |            |            |            |               |
| Design-based F(1.96, 299.57) =                      | 1.9410                               |             | Pr =  | 0.146      |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |                                      |             |       |            |            |            |               |
| Chronic disease (HEDIS) (n=55)                      | 90.1                                 | [76.9,96.2] | 6.3   | [2.3,15.8] | 3.6        | [0.5,21.6] | 100.0         |
| No chronic disease (n=110)                          | 88.3                                 | [78.6,93.9] | 11.0  | [5.5,20.6] | 0.7        | [0.1,5.3]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.5441                               |             |       |            |            |            |               |
| Design-based F(1.98, 303.69) =                      | 1.1752                               |             | Pr =  | 0.310      |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                      |             |       |            |            |            |               |
| MH/SA (HEDIS) (n=144)                               | 91.0                                 | [83.7,95.2] | 7.1   | [3.6,13.7] | 1.9        | [0.4,8.2]  | 100.0         |
| No MH/SA (n=21)                                     | 76.8                                 | [49.6,91.7] | 23.2  | [8.3,50.4] | 0.0        |            | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 6.5847                               |             |       |            |            |            |               |
| Design-based F(2.00, 305.52) =                      | 2.1537                               |             | Pr =  | 0.118      |            |            |               |
| <b>Total (n=165)</b>                                | 88.9                                 | [81.6,93.5] | 9.5   | [5.3,16.3] | 1.6        | [0.4,7.1]  | 100.0         |

#### 4.29 Q: Has a doctor or other health professional ever told you that you had any other health condition that can be controlled but not cured?

Universe: All respondents

|   | Other chronic condition |                    |             |                    |            |                  | Total<br>Row% |
|---|-------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                     |                    | No          |                    | Don't know |                  |               |
|   | Row%                    | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                         |                    |             |                    |            |                  |               |
| 0-35% (n=1,598)                                     | 27.7                    | [25.2,30.3]        | 72.1        | [69.4,74.6]        | 0.3        | [0.1,0.6]        | 100.0         |
| 36-99% (n=1,450)                                    | 26.6                    | [24.1,29.4]        | 72.9        | [70.2,75.5]        | 0.4        | [0.2,1.1]        | 100.0         |
| ≥ 100%(n = 1,039)                                   | 25.1                    | [22.3,28.2]        | 74.9        | [71.8,77.7]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 5.3546                  |                    |             |                    |            |                  |               |
| Design-based F(3.93, 15999.43) =                    | 1.1408                  | Pr =               | 0.335       |                    |            |                  |               |
| <b>Region</b>                                       |                         |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 35.0                    | [31.2,39.0]        | 64.4        | [60.4,68.2]        | 0.6        | [0.2,1.8]        | 100.0         |
| W/E Central/E (n=1,264)                             | 31.0                    | [28.2,33.9]        | 68.7        | [65.7,71.4]        | 0.3        | [0.1,1.0]        | 100.0         |
| S Central/SW/SE (n=835)                             | 27.0                    | [23.7,30.5]        | 72.6        | [69.1,75.9]        | 0.4        | [0.1,1.2]        | 100.0         |
| Detroit Metro (n=1,242)                             | 22.5                    | [19.8,25.4]        | 77.5        | [74.6,80.1]        | 0.1        | [0.0,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 45.6471                 |                    |             |                    |            |                  |               |
| Design-based F(5.56, 22668.78) =                    | 6.5837                  | Pr =               | 0.000       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                         |                    |             |                    |            |                  |               |
| Yes (n=491)   | 10.1                    | [7.5,13.5]         | 89.4        | [86.0,92.1]        | 0.4        | [0.1,1.5]        | 100.0         |
| No (n=3,596)  | 29.9                    | [28.1,31.8]        | 69.9        | [68.0,71.7]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 105.6334                |                    |             |                    |            |                  |               |
| Design-based F(1.93, 7873.78) =                     | 39.5471                 | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                         |                    |             |                    |            |                  |               |
| Yes (n=156)   | 35.5                    | [26.7,45.4]        | 64.0        | [54.1,72.8]        | 0.5        | [0.1,3.5]        | 100.0         |
| No (n=3,931)  | 26.5                    | [24.9,28.2]        | 73.3        | [71.6,74.9]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.7109                  |                    |             |                    |            |                  |               |
| Design-based F(1.81, 7375.96) =                     | 2.8191                  | Pr =               | 0.065       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                         |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 35.9                    | [32.6,39.3]        | 63.8        | [60.4,67.1]        | 0.3        | [0.1,0.9]        | 100.0         |
| No chronic disease (n=2,927)                        | 23.9                    | [22.0,25.8]        | 75.9        | [74.0,77.7]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 57.3215                 |                    |             |                    |            |                  |               |
| Design-based F(1.96, 7988.14) =                     | 23.8963                 | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                         |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,033)                             | 34.8                    | [32.3,37.4]        | 64.7        | [62.1,67.3]        | 0.4        | [0.2,0.9]        | 100.0         |
| No MH/SA (n=2,054)                                  | 19.5                    | [17.5,21.6]        | 80.5        | [78.4,82.4]        | 0.1        | [0.0,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 129.1377                |                    |             |                    |            |                  |               |
| Design-based F(1.96, 7975.65) =                     | 51.0672                 | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=4,087)</b>                              | <b>26.9</b>             | <b>[25.3,28.5]</b> | <b>72.9</b> | <b>[71.2,74.5]</b> | <b>0.3</b> | <b>[0.1,0.5]</b> | <b>100.0</b>  |

### 4.30 Q: Did you find out you had any other health condition that can be controlled but not cured before or after you enrolled in the Healthy Michigan Plan?

Universe: Respondents with any other health condition that can be controlled but not cured

|   | Before/After: Other chronic condition |                    |             |                    |            |                  |            |                  |              |
|---|---------------------------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|--------------|
|   | Row%                                  | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%         |
| <b>FPL category</b>                                 |                                       |                    |             |                    |            |                  |            |                  |              |
| 0-35% (n=1,600)                                     | 72.4                                  | [69.8,74.9]        | 17.6        | [15.5,19.9]        | 9.0        | [7.6,10.6]       | 1.0        | [0.6,1.7]        | 100.0        |
| 36-99% (n=1,450)                                    | 73.4                                  | [70.6,75.9]        | 17.5        | [15.3,19.9]        | 8.5        | [7.1,10.1]       | 0.7        | [0.4,1.2]        | 100.0        |
| ≥ 100% (n = 1,040)                                  | 74.9                                  | [71.8,77.7]        | 16.1        | [13.8,18.8]        | 8.5        | [6.8,10.5]       | 0.5        | [0.3,1.0]        | 100.0        |
| Pearson: Uncorrected chi2(6) =                      | 3.5100                                |                    |             |                    |            |                  |            |                  |              |
| Design-based F(5.65, 23021.07) =                    | 0.5554                                | Pr =               | 0.756       |                    |            |                  |            |                  |              |
| <b>Region</b>                                       |                                       |                    |             |                    |            |                  |            |                  |              |
| UP/NW/NE (n=746)                                    | 65.0                                  | [61.0,68.8]        | 22.6        | [19.3,26.3]        | 11.2       | [8.9,13.9]       | 1.2        | [0.6,2.2]        | 100.0        |
| W/E Central/E (n=1,265)                             | 69.1                                  | [66.2,71.9]        | 19.3        | [17.0,21.8]        | 10.7       | [8.9,12.7]       | 0.9        | [0.5,1.8]        | 100.0        |
| S Central/SW/SE (n=837)                             | 73.1                                  | [69.5,76.3]        | 17.2        | [14.5,20.3]        | 9.2        | [7.3,11.5]       | 0.5        | [0.2,1.5]        | 100.0        |
| Detroit Metro (n=1,242)                             | 77.5                                  | [74.6,80.2]        | 15.0        | [12.7,17.5]        | 6.8        | [5.4,8.5]        | 0.8        | [0.4,1.5]        | 100.0        |
| Pearson: Uncorrected chi2(9) =                      | 42.5785                               |                    |             |                    |            |                  |            |                  |              |
| Design-based F(8.05, 32821.87) =                    | 4.1999                                | Pr =               | 0.000       |                    |            |                  |            |                  |              |
| <b>Low healthcare utilizers</b>                     |                                       |                    |             |                    |            |                  |            |                  |              |
| Yes (n=491)   | 89.9                                  | [86.5,92.5]        | 7.5         | [5.4,10.3]         | 2.6        | [1.2,5.3]        | 0.1        | [0.0,0.7]        | 100.0        |
| No (n=3,599)  | 70.2                                  | [68.3,72.0]        | 19.1        | [17.5,20.7]        | 9.8        | [8.8,11.0]       | 0.9        | [0.6,1.4]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 105.8062                              |                    |             |                    |            |                  |            |                  |              |
| Design-based F(2.46, 10046.76) =                    | 25.1343                               | Pr =               | 0.000       |                    |            |                  |            |                  |              |
| <b>High ER utilizers</b>                            |                                       |                    |             |                    |            |                  |            |                  |              |
| Yes (n=156)   | 64.5                                  | [54.6,73.3]        | 20.6        | [14.0,29.3]        | 14.9       | [9.0,23.5]       | 0.0        |                  | 100.0        |
| No (n=3,934)  | 73.6                                  | [71.9,75.2]        | 17.1        | [15.8,18.6]        | 8.5        | [7.5,9.5]        | 0.8        | [0.6,1.2]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 12.7794                               |                    |             |                    |            |                  |            |                  |              |
| Design-based F(2.96, 12068.35) =                    | 2.5876                                | Pr =               | 0.052       |                    |            |                  |            |                  |              |
| <b>Chronic disease (HEDIS)</b>                      |                                       |                    |             |                    |            |                  |            |                  |              |
| Chronic disease (HEDIS) (n=1,161)                   | 64.2                                  | [60.8,67.4]        | 22.2        | [19.4,25.2]        | 12.5       | [10.5,14.8]      | 1.2        | [0.7,2.0]        | 100.0        |
| No chronic disease (n=2,929)                        | 76.2                                  | [74.3,78.0]        | 15.7        | [14.1,17.3]        | 7.5        | [6.5,8.6]        | 0.7        | [0.4,1.2]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 58.7392                               |                    |             |                    |            |                  |            |                  |              |
| Design-based F(2.98, 12141.47) =                    | 15.6208                               | Pr =               | 0.000       |                    |            |                  |            |                  |              |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                       |                    |             |                    |            |                  |            |                  |              |
| MH/SA (HEDIS) (n=2,034)                             | 65.3                                  | [62.7,67.8]        | 21.2        | [19.1,23.5]        | 12.4       | [10.8,14.2]      | 1.1        | [0.7,1.9]        | 100.0        |
| No MH/SA (n=2,056)                                  | 80.6                                  | [78.5,82.5]        | 13.6        | [11.9,15.5]        | 5.3        | [4.4,6.4]        | 0.5        | [0.3,0.9]        | 100.0        |
| Pearson: Uncorrected chi2(3) =                      | 130.3543                              |                    |             |                    |            |                  |            |                  |              |
| Design-based F(2.96, 12091.20) =                    | 33.5519                               | Pr =               | 0.000       |                    |            |                  |            |                  |              |
| <b>Total (n=4,090)</b>                              | <b>73.2</b>                           | <b>[71.5,74.8]</b> | <b>17.3</b> | <b>[15.9,18.7]</b> | <b>8.7</b> | <b>[7.8,9.8]</b> | <b>0.8</b> | <b>[0.5,1.2]</b> | <b>100.0</b> |

## 4.31 Respondents with at least one physical health condition present

Universe: All respondents

|   | At least one physical health condition present |                    |             |                    | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                                    | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |  |                    |             |                    |               |
| 0-35% (n=1,600)                                     | 63.3   | [60.1,66.4]        | 36.7        | [33.6,39.9]        | 100.0         |
| 36-99% (n=1,450)                                    | 59.3   | [56.1,62.3]        | 40.7        | [37.7,43.9]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 56.5   | [52.9,60.0]        | 43.5        | [40.0,47.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.7886  |                    |             |                    |               |
| Design-based F(1.91, 7793.58) =                     | 4.4372   | Pr =               | 0.013       |                    |               |
| <b>Region</b>                                       |  |                    |             |                    |               |
| UP/NW/NE (n=746)                                    | 67.0   | [62.8,70.8]        | 33.0        | [29.2,37.2]        | 100.0         |
| W/E Central/E (n=1,265)                             | 64.4   | [61.2,67.5]        | 35.6        | [32.5,38.8]        | 100.0         |
| S Central/SW/SE (n=837)                             | 60.8   | [56.5,64.9]        | 39.2        | [35.1,43.5]        | 100.0         |
| Detroit Metro (n=1,242)                             | 57.2   | [53.7,60.6]        | 42.8        | [39.4,46.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 21.9869  |                    |             |                    |               |
| Design-based F(2.70, 11016.29) =                    | 5.4136   | Pr =               | 0.002       |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |               |
| Yes (n=491)   | 34.5   | [29.4,40.1]        | 65.5        | [59.9,70.6]        | 100.0         |
| No (n=3,599)  | 65.5   | [63.5,67.5]        | 34.5        | [32.5,36.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 212.9730                                       |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 105.9885                                       | Pr =               | 0.000       |                    |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |               |
| Yes (n=156)   | 68.2   | [57.3,77.4]        | 31.8        | [22.6,42.7]        | 100.0         |
| No (n=3,934)  | 60.4   | [58.4,62.4]        | 39.6        | [37.6,41.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.3965   |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 1.9808   | Pr =               | 0.159       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,161)                   | 90.3   | [87.7,92.4]        | 9.7         | [7.6,12.3]         | 100.0         |
| No chronic disease (n=2,929)                        | 50.9   | [48.6,53.2]        | 49.1        | [46.8,51.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 500.4832                                       |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 298.3920                                       | Pr =               | 0.000       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,034)                             | 69.9   | [67.2,72.5]        | 30.1        | [27.5,32.8]        | 100.0         |
| No MH/SA (n=2,056)                                  | 52.3   | [49.4,55.1]        | 47.7        | [44.9,50.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 133.5790                                       |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 75.9649  | Pr =               | 0.000       |                    |               |
| <b>Total (n=4,090)</b>                              | <b>60.8</b>                                    | <b>[58.8,62.8]</b> | <b>39.2</b> | <b>[37.2,41.2]</b> | <b>100.0</b>  |



## 4.32 Respondents with at least one mental health condition present

Universe: All respondents

|   | At least one mental health condition present |                    |             |                    | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                                  | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |  |                    |             |                    |               |
| 0-35% (n=1,600)                                     | 37.9   | [35.0,40.9]        | 62.1        | [59.1,65.0]        | 100.0         |
| 36-99% (n=1,450)                                    | 26.8   | [24.3,29.6]        | 73.2        | [70.4,75.7]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 24.6   | [21.7,27.8]        | 75.4        | [72.2,78.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 67.9240                                      |                    |             |                    |               |
| Design-based F(1.94, 7929.70) =                     | 26.7494                                      | Pr =               | 0.000       |                    |               |
| <b>Region</b>                                       |  |                    |             |                    |               |
| UP/NW/NE (n=746)                                    | 38.2   | [34.3,42.2]        | 61.8        | [57.8,65.7]        | 100.0         |
| W/E Central/E (n=1,265)                             | 38.1   | [35.1,41.3]        | 61.9        | [58.7,64.9]        | 100.0         |
| S Central/SW/SE (n=837)                             | 38.0   | [34.2,42.0]        | 62.0        | [58.0,65.8]        | 100.0         |
| Detroit Metro (n=1,242)                             | 24.5   | [21.5,27.7]        | 75.5        | [72.3,78.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 85.6466                                      |                    |             |                    |               |
| Design-based F(2.62, 10690.68) =                    | 21.8903                                      | Pr =               | 0.000       |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |               |
| Yes (n=491)   | 18.3   | [14.5,22.9]        | 81.7        | [77.1,85.5]        | 100.0         |
| No (n=3,599)  | 34.6   | [32.7,36.6]        | 65.4        | [63.4,67.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 64.5335                                      |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 34.4144                                      | Pr =               | 0.000       |                    |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |               |
| Yes (n=156)   | 55.8   | [45.7,65.5]        | 44.2        | [34.5,54.3]        | 100.0         |
| No (n=3,934)  | 31.0   | [29.2,32.9]        | 69.0        | [67.1,70.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 48.7653                                      |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 25.7371                                      | Pr =               | 0.000       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,161)                   | 39.0   | [35.5,42.5]        | 61.0        | [57.5,64.5]        | 100.0         |
| No chronic disease (n=2,929)                        | 29.8   | [27.8,32.0]        | 70.2        | [68.0,72.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 29.4609                                      |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 20.0280                                      | Pr =               | 0.000       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,034)                             | 57.4   | [54.7,60.1]        | 42.6        | [39.9,45.3]        | 100.0         |
| No MH/SA (n=2,056)                                  | 8.5  | [7.0,10.1]         | 91.5        | [89.9,93.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1123.5896                                    |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 674.4324                                     | Pr =               | 0.000       |                    |               |
| <b>Total (n=4,090)</b>                              | <b>32.1</b>                                  | <b>[30.3,33.9]</b> | <b>67.9</b> | <b>[66.1,69.7]</b> | <b>100.0</b>  |

### 4.33 Respondents with any chronic health condition present

Universe: All respondents

|   | Any chronic health condition present |                    |             |                    | Total<br>Row% |
|---|--------------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                          | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                      |                    |             |                    |               |
| 0-35% (n=1,600)                                     | 72.9                                 | [69.8,75.7]        | 27.1        | [24.3,30.2]        | 100.0         |
| 36-99% (n=1,450)                                    | 66.2                                 | [63.1,69.1]        | 33.8        | [30.9,36.9]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 63.9                                 | [60.4,67.2]        | 36.1        | [32.8,39.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 29.0557                              |                    |             |                    |               |
| Design-based F(1.89, 7724.75) =                     | 9.7567                               | Pr =               | 0.000       |                    |               |
| <b>Region</b>                                       |                                      |                    |             |                    |               |
| UP/NW/NE (n=746)                                    | 74.4                                 | [70.4,78.0]        | 25.6        | [22.0,29.6]        | 100.0         |
| W/E Central/E (n=1,265)                             | 74.2                                 | [71.2,77.0]        | 25.8        | [23.0,28.8]        | 100.0         |
| S Central/SW/SE (n=837)                             | 72.3                                 | [68.1,76.2]        | 27.7        | [23.8,31.9]        | 100.0         |
| Detroit Metro (n=1,242)                             | 63.6                                 | [60.1,66.8]        | 36.4        | [33.2,39.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 48.3925                              |                    |             |                    |               |
| Design-based F(2.72, 11087.08) =                    | 11.5885                              | Pr =               | 0.000       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                      |                    |             |                    |               |
| Yes (n=491)   | 41.8                                 | [36.3,47.5]        | 58.2        | [52.5,63.7]        | 100.0         |
| No (n=3,599)  | 74.1                                 | [72.2,75.9]        | 25.9        | [24.1,27.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 258.9239                             |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 126.9085                             | Pr =               | 0.000       |                    |               |
| <b>High ER utilizers</b>                            |                                      |                    |             |                    |               |
| Yes (n=156)   | 82.3                                 | [74.1,88.3]        | 17.7        | [11.7,25.9]        | 100.0         |
| No (n=3,934)  | 68.6                                 | [66.6,70.5]        | 31.4        | [29.5,33.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 15.3146                              |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 9.4350                               | Pr =               | 0.002       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                      |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,161)                   | 92.0                                 | [89.6,93.9]        | 8.0         | [6.1,10.4]         | 100.0         |
| No chronic disease (n=2,929)                        | 61.5                                 | [59.2,63.8]        | 38.5        | [36.2,40.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 335.1254                             |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 204.8324                             | Pr =               | 0.000       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                      |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,034)                             | 84.3                                 | [82.0,86.3]        | 15.7        | [13.7,18.0]        | 100.0         |
| No MH/SA (n=2,056)                                  | 55.1                                 | [52.2,57.9]        | 44.9        | [42.1,47.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 409.5075                             |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 231.5277                             | Pr =               | 0.000       |                    |               |
| <b>Total (n=4,090)</b>                              | <b>69.2</b>                          | <b>[67.3,71.0]</b> | <b>30.8</b> | <b>[29.0,32.7]</b> | <b>100.0</b>  |

#### 4.34 Respondents with both a chronic physical and mental health condition present

Universe: All respondents

|   | Chronic physical and mental health conditions |                    |             |                    | Total<br>Row% |
|---|---|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                                   | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |   |                    |             |                    |               |
| 0-35% (n=1,600)                                     | 28.3  | [25.7,30.9]        | 71.7        | [69.1,74.3]        | 100.0         |
| 36-99% (n=1,450)                                    | 19.9  | [17.6,22.4]        | 80.1        | [77.6,82.4]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 17.2  | [14.8,20.0]        | 82.8        | [80.0,85.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 52.2342                                       |                    |             |                    |               |
| Design-based F(1.96, 7989.74) =                     | 21.5944                                       | Pr =               | 0.000       |                    |               |
| <b>Region</b>                                       |   |                    |             |                    |               |
| UP/NW/NE (n=746)                                    | 30.8  | [27.2,34.6]        | 69.2        | [65.4,72.8]        | 100.0         |
| W/E Central/E (n=1,265)                             | 28.3  | [25.6,31.3]        | 71.7        | [68.7,74.4]        | 100.0         |
| S Central/SW/SE (n=837)                             | 26.4  | [23.2,29.9]        | 73.6        | [70.1,76.8]        | 100.0         |
| Detroit Metro (n=1,242)                             | 18.1  | [15.6,20.9]        | 81.9        | [79.1,84.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 58.3372                                       |                    |             |                    |               |
| Design-based F(2.64, 10786.17) =                    | 15.8150                                       | Pr =               | 0.000       |                    |               |
| <b>Low healthcare utilizers</b>                     |   |                    |             |                    |               |
| Yes (n=491)   | 11.0  | [8.1,14.8]         | 89.0        | [85.2,91.9]        | 100.0         |
| No (n=3,599)  | 26.0  | [24.3,27.8]        | 74.0        | [72.2,75.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 65.6423                                       |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 37.1834                                       | Pr =               | 0.000       |                    |               |
| <b>High ER utilizers</b>                            |   |                    |             |                    |               |
| Yes (n=156)   | 41.7  | [32.6,51.5]        | 58.3        | [48.5,67.4]        | 100.0         |
| No (n=3,934)  | 22.9  | [21.3,24.5]        | 77.1        | [75.5,78.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 33.9226                                       |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 19.3612                                       | Pr =               | 0.000       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,161)                   | 37.2  | [33.9,40.7]        | 62.8        | [59.3,66.1]        | 100.0         |
| No chronic disease (n=2,929)                        | 19.2  | [17.5,21.0]        | 80.8        | [79.0,82.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 138.4025                                      |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 96.5760                                       | Pr =               | 0.000       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,034)                             | 43.0  | [40.4,45.8]        | 57.0        | [54.2,59.6]        | 100.0         |
| No MH/SA (n=2,056)                                  | 5.6   | [4.6,7.0]          | 94.4        | [93.0,95.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 789.3281                                      |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 528.3762                                      | Pr =               | 0.000       |                    |               |
| <b>Total (n=4,090)</b>                              | <b>23.7</b>                                   | <b>[22.2,25.3]</b> | <b>76.3</b> | <b>[74.7,77.8]</b> | <b>100.0</b>  |

### 4.35 Respondents with any new diagnoses since Healthy Michigan Plan enrollment

Universe: All respondents

|   | Any new diagnoses since HMP enrollment |                    |             |                    | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                            | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |  |                    |             |                    |               |
| 0-35% (n=1,600)                                     | 33.7                                   | [31.0,36.6]        | 66.3        | [63.4,69.0]        | 100.0         |
| 36-99% (n=1,450)                                    | 27.8                                   | [25.2,30.7]        | 72.2        | [69.3,74.8]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 23.9                                   | [21.1,27.1]        | 76.1        | [72.9,78.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 30.6745                                |                    |             |                    |               |
| Design-based F(1.95, 7943.57) =                     | 12.0124                                | Pr =               | 0.000       |                    |               |
| <b>Region</b>                                       |  |                    |             |                    |               |
| UP/NW/NE (n=746)                                    | 31.1                                   | [27.4,34.9]        | 68.9        | [65.1,72.6]        | 100.0         |
| W/E Central/E (n=1,265)                             | 33.0                                   | [30.1,36.0]        | 67.0        | [64.0,69.9]        | 100.0         |
| S Central/SW/SE (n=837)                             | 30.8                                   | [27.3,34.6]        | 69.2        | [65.4,72.7]        | 100.0         |
| Detroit Metro (n=1,242)                             | 27.8                                   | [24.8,30.9]        | 72.2        | [69.1,75.2]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 9.4928                                 |                    |             |                    |               |
| Design-based F(2.68, 10910.82) =                    | 2.5997                                 | Pr =               | 0.057       |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |               |
| Yes (n=491)   | 11.0                                   | [8.0,15.0]         | 89.0        | [85.0,92.0]        | 100.0         |
| No (n=3,599)  | 33.6                                   | [31.7,35.5]        | 66.4        | [64.5,68.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 127.8320                               |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 64.6205                                | Pr =               | 0.000       |                    |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |               |
| Yes (n=156)   | 41.6                                   | [32.1,51.8]        | 58.4        | [48.2,67.9]        | 100.0         |
| No (n=3,934)  | 29.6                                   | [27.8,31.4]        | 70.4        | [68.6,72.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 11.9003                                |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 6.2861                                 | Pr =               | 0.012       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,161)                   | 49.3                                   | [45.7,52.9]        | 50.7        | [47.1,54.3]        | 100.0         |
| No chronic disease (n=2,929)                        | 23.7                                   | [21.8,25.7]        | 76.3        | [74.3,78.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 239.9029                               |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 163.4317                               | Pr =               | 0.000       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,034)                             | 41.1                                   | [38.4,43.8]        | 58.9        | [56.2,61.6]        | 100.0         |
| No MH/SA (n=2,056)                                  | 19.9                                   | [17.9,22.0]        | 80.1        | [78.0,82.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 217.6917                               |                    |             |                    |               |
| Design-based F(1.00, 4078.00) =                     | 143.3460                               | Pr =               | 0.000       |                    |               |
| <b>Total (n=4,090)</b>                              | <b>30.1</b>                            | <b>[28.4,31.9]</b> | <b>69.9</b> | <b>[68.1,71.6]</b> | <b>100.0</b>  |

### 4.36 Respondents number of days physical or mental health kept from activity

Universe: All respondents

|   | Number of days poor physical or mental health kept from usual activities |             |            |             |            |           | Total<br>Row% |
|---|--|-------------|------------|-------------|------------|-----------|---------------|
|   | 0-13 days  |             | 14-30 days |             | Don't know |           |               |
|   | Row%   | 95%CI       | Row%       | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |  |             |            |             |            |           |               |
| 0-35% (n=1,598)                                     | 73.7   | [71.0,76.3] | 24.8       | [22.4,27.5] | 1.4        | [0.9,2.2] | 100.0         |
| 36-99% (n=1,445)                                    | 87.0   | [84.8,88.9] | 12.2       | [10.4,14.3] | 0.8        | [0.4,1.6] | 100.0         |
| ≥ 100% (n = 1,036)                                  | 89.7   | [87.5,91.6] | 9.5        | [7.7,11.7]  | 0.8        | [0.4,1.4] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 137.4536   |             |            |             |            |           |               |
| Design-based F(3.82, 15536.25) =                    | 32.0200  | Pr =        | 0.000      |             |            |           |               |
| <b>Region</b>                                       |  |             |            |             |            |           |               |
| UP/NW/NE (n=746)                                    | 82.5   | [79.4,85.2] | 15.5       | [12.9,18.4] | 2.0        | [1.2,3.5] | 100.0         |
| W/E Central/E (n=1,261)                             | 80.3   | [77.8,82.6] | 18.6       | [16.4,21.1] | 1.1        | [0.7,1.8] | 100.0         |
| S Central/SW/SE (n=834)                             | 80.3   | [77.1,83.2] | 19.1       | [16.2,22.3] | 0.6        | [0.3,1.3] | 100.0         |
| Detroit Metro (n=1,238)                             | 80.6   | [77.7,83.2] | 18.2       | [15.7,21.0] | 1.2        | [0.6,2.2] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 6.6673   |             |            |             |            |           |               |
| Design-based F(5.18, 21064.15) =                    | 1.0435   | Pr =        | 0.391      |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |  |             |            |             |            |           |               |
| Yes (n=489)   | 92.2   | [88.5,94.7] | 7.5        | [5.0,11.1]  | 0.3        | [0.1,1.1] | 100.0         |
| No (n=3,590)  | 78.6   | [76.8,80.2] | 20.2       | [18.6,21.9] | 1.3        | [0.9,1.8] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 62.5434  |             |            |             |            |           |               |
| Design-based F(1.65, 6710.83) =                     | 21.7405  | Pr =        | 0.000      |             |            |           |               |
| <b>High ER utilizers</b>                            |  |             |            |             |            |           |               |
| Yes (n=156)   | 68.7   | [59.4,76.7] | 30.2       | [22.4,39.4] | 1.1        | [0.3,4.4] | 100.0         |
| No (n=3,923)  | 81.2   | [79.6,82.7] | 17.7       | [16.2,19.2] | 1.1        | [0.8,1.6] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 18.2420  |             |            |             |            |           |               |
| Design-based F(1.91, 7751.51) =                     | 6.7282   | Pr =        | 0.001      |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |  |             |            |             |            |           |               |
| Chronic disease (HEDIS) (n=1,158)                   | 69.3   | [65.9,72.4] | 28.6       | [25.5,31.9] | 2.1        | [1.2,3.6] | 100.0         |
| No chronic disease (n=2,921)                        | 84.5   | [82.7,86.1] | 14.7       | [13.2,16.5] | 0.8        | [0.5,1.2] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 115.1281   |             |            |             |            |           |               |
| Design-based F(2.00, 8119.34) =                     | 40.0548  | Pr =        | 0.000      |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |             |            |             |            |           |               |
| MH/SA (HEDIS) (n=2,025)                             | 71.2   | [68.7,73.6] | 27.4       | [25.0,29.9] | 1.4        | [0.9,2.1] | 100.0         |
| No MH/SA (n=2,054)                                  | 89.4   | [87.6,91.0] | 9.7        | [8.2,11.5]  | 0.9        | [0.5,1.5] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 218.7048   |             |            |             |            |           |               |
| Design-based F(1.99, 8085.24) =                     | 70.5642  | Pr =        | 0.000      |             |            |           |               |
| <b>Total (n=4,079)</b>                              | 80.6   | [79.1,82.1] | 18.2       | [16.8,19.8] | 1.1        | [0.8,1.6] | 100.0         |

### 4.37 Q: Since July 1, 2015, have you had a flu vaccine?

Universe: All respondents

|   | Last season flu shot |                    |             |                    |            |                  | Total<br>Row% |
|---|----------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                  |                    | No          |                    | Don't know |                  |               |
|   | Row%                 | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                      |                    |             |                    |            |                  |               |
| 0-35% (n=1,600)                                     | 36.9                 | [34.0,40.0]        | 62.0        | [58.9,64.9]        | 1.1        | [0.6,2.1]        | 100.0         |
| 36-99% (n=1,450)                                    | 36.5                 | [33.6,39.6]        | 62.9        | [59.8,65.8]        | 0.6        | [0.3,1.2]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 36.3                 | [33.0,39.8]        | 62.8        | [59.3,66.1]        | 0.9        | [0.5,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 2.2691               |                    |             |                    |            |                  |               |
| Design-based F(3.80, 15482.64) =                    | 0.4389               | Pr =               | 0.771       |                    |            |                  |               |
| <b>Region</b>                                       |                      |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 39.3                 | [35.4,43.3]        | 60.2        | [56.2,64.1]        | 0.5        | [0.2,1.3]        | 100.0         |
| W/E Central/E (n=1,265)                             | 36.3                 | [33.3,39.4]        | 62.7        | [59.6,65.7]        | 1.0        | [0.6,1.7]        | 100.0         |
| S Central/SW/SE (n=837)                             | 35.9                 | [32.1,39.9]        | 62.7        | [58.7,66.5]        | 1.4        | [0.6,3.1]        | 100.0         |
| Detroit Metro (n=1,242)                             | 36.8                 | [33.5,40.2]        | 62.4        | [59.0,65.8]        | 0.8        | [0.3,2.0]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 3.6901               |                    |             |                    |            |                  |               |
| Design-based F(4.79, 19548.10) =                    | 0.4561               | Pr =               | 0.801       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                      |                    |             |                    |            |                  |               |
| Yes (n=491)   | 21.2                 | [16.5,26.9]        | 78.1        | [72.4,82.9]        | 0.7        | [0.2,3.2]        | 100.0         |
| No (n=3,599)  | 39.5                 | [37.5,41.5]        | 59.5        | [57.5,61.6]        | 1.0        | [0.6,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 77.5695              |                    |             |                    |            |                  |               |
| Design-based F(2.00, 8152.90) =                     | 15.2810              | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                      |                    |             |                    |            |                  |               |
| Yes (n=156)   | 38.5                 | [29.6,48.2]        | 61.5        | [51.8,70.4]        | 0.0        |                  | 100.0         |
| No (n=3,934)  | 36.6                 | [34.7,38.6]        | 62.4        | [60.4,64.3]        | 1.0        | [0.6,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.9457               |                    |             |                    |            |                  |               |
| Design-based F(1.98, 8074.64) =                     | 0.5287               | Pr =               | 0.588       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                      |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 48.7                 | [45.2,52.3]        | 50.4        | [46.9,54.0]        | 0.8        | [0.4,1.6]        | 100.0         |
| No chronic disease (n=2,929)                        | 32.7                 | [30.5,34.9]        | 66.4        | [64.1,68.6]        | 1.0        | [0.6,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 85.6419              |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8128.71) =                     | 30.5053              | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                      |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 41.4                 | [38.7,44.1]        | 57.8        | [55.0,60.5]        | 0.8        | [0.5,1.5]        | 100.0         |
| No MH/SA (n=2,056)                                  | 32.3                 | [29.8,35.0]        | 66.7        | [64.0,69.2]        | 1.0        | [0.5,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 36.1634              |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8122.06) =                     | 10.3377              | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=4,090)</b>                              | <b>36.7</b>          | <b>[34.8,38.6]</b> | <b>62.4</b> | <b>[60.4,64.3]</b> | <b>0.9</b> | <b>[0.6,1.5]</b> | <b>100.0</b>  |

### 4.38 Q: In the last 7 days, how many days did you exercise for at least 20 minutes?

Universe: All respondents

|   | Every day   |                    | 3-6 days    |                    | Exercise in past 7 days<br>1-2 days |                    | 0 days      |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|-------------|--------------------|-------------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%        | 95%CI              | Row%                                | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 31.5        | [28.7,34.3]        | 31.7        | [28.8,34.8]        | 16.0                                | [13.7,18.6]        | 20.4        | [18.1,23.0]        | 0.3        | [0.2,0.8]        | 100.0         |
| 36-99% (n=1,450)                                    | 32.2        | [29.3,35.1]        | 35.8        | [32.8,38.9]        | 15.8                                | [13.6,18.2]        | 15.8        | [13.8,18.1]        | 0.4        | [0.1,1.8]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 32.7        | [29.5,36.1]        | 34.7        | [31.4,38.2]        | 15.6                                | [13.1,18.5]        | 16.9        | [14.4,19.8]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(8) =                      | 17.8906     |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Design-based F(7.26, 29607.83) =                    | 1.5040      | Pr =               | 0.158       |                    |                                     |                    |             |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 36.6        | [32.8,40.6]        | 36.2        | [32.2,40.3]        | 11.4                                | [9.1,14.1]         | 15.2        | [12.6,18.1]        | 0.7        | [0.2,2.1]        | 100.0         |
| W/E Central/E (n=1,264)                             | 34.8        | [31.8,37.9]        | 31.0        | [28.1,34.0]        | 14.1                                | [12.0,16.5]        | 19.8        | [17.4,22.4]        | 0.3        | [0.1,0.8]        | 100.0         |
| S Central/SW/SE (n=837)                             | 34.9        | [31.1,38.8]        | 33.5        | [29.5,37.7]        | 13.8                                | [11.4,16.7]        | 17.4        | [14.7,20.5]        | 0.4        | [0.1,1.7]        | 100.0         |
| Detroit Metro (n=1,242)                             | 27.8        | [24.9,31.0]        | 34.5        | [31.3,37.9]        | 18.8                                | [16.1,21.8]        | 18.7        | [16.1,21.5]        | 0.2        | [0.0,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(12) =                     | 45.9641     |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Design-based F(10.05, 40985.28) =                   | 2.8370      | Pr =               | 0.002       |                    |                                     |                    |             |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Yes (n=491)   | 31.4        | [26.5,36.8]        | 35.4        | [29.9,41.2]        | 17.5                                | [13.2,22.8]        | 15.7        | [12.0,20.3]        | 0.0        |                  | 100.0         |
| No (n=3,598)  | 32.0        | [30.1,33.9]        | 33.1        | [31.2,35.1]        | 15.6                                | [14.1,17.2]        | 18.9        | [17.4,20.6]        | 0.4        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 7.2466      |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Design-based F(3.94, 16070.29) =                    | 0.8854      | Pr =               | 0.470       |                    |                                     |                    |             |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Yes (n=156)   | 25.8        | [18.2,35.3]        | 28.0        | [20.7,36.6]        | 21.7                                | [13.1,33.7]        | 24.6        | [17.3,33.6]        | 0.0        |                  | 100.0         |
| No (n=3,933)  | 32.2        | [30.4,34.1]        | 33.7        | [31.8,35.7]        | 15.6                                | [14.2,17.2]        | 18.1        | [16.7,19.7]        | 0.3        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 12.3491     |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Design-based F(3.66, 14902.46) =                    | 1.5952      | Pr =               | 0.178       |                    |                                     |                    |             |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 35.2        | [31.9,38.8]        | 26.5        | [23.5,29.7]        | 15.3                                | [12.8,18.2]        | 22.7        | [19.9,25.9]        | 0.3        | [0.1,0.9]        | 100.0         |
| No chronic disease (n=2,928)                        | 30.8        | [28.7,32.9]        | 35.8        | [33.6,38.1]        | 16.1                                | [14.3,18.0]        | 17.0        | [15.3,18.8]        | 0.3        | [0.1,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 39.1939     |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Design-based F(3.96, 16159.68) =                    | 6.9235      | Pr =               | 0.000       |                    |                                     |                    |             |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,033)                             | 32.0        | [29.5,34.6]        | 29.8        | [27.3,32.4]        | 15.9                                | [13.9,18.2]        | 22.1        | [19.9,24.4]        | 0.2        | [0.1,0.4]        | 100.0         |
| No MH/SA (n=2,056)                                  | 31.8        | [29.4,34.4]        | 36.9        | [34.2,39.7]        | 15.8                                | [13.8,18.0]        | 15.0        | [13.2,17.1]        | 0.4        | [0.2,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 45.2687     |                    |             |                    |                                     |                    |             |                    |            |                  |               |
| Design-based F(3.87, 15782.50) =                    | 7.4296      | Pr =               | 0.000       |                    |                                     |                    |             |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>31.9</b> | <b>[30.1,33.7]</b> | <b>33.5</b> | <b>[31.6,35.4]</b> | <b>15.9</b>                         | <b>[14.4,17.4]</b> | <b>18.4</b> | <b>[17.0,20.0]</b> | <b>0.3</b> | <b>[0.1,0.6]</b> | <b>100.0</b>  |

### 4.39 Q: In the last 7 days, how many days did you drink sugary drinks like soda or pop, sweetened fruit drinks, sports drinks, or energy drinks? (Do not include diet soda)

Universe: All respondents

|   | Every day   |                    | 3-6 days    |                    | Sweetened drinks past 7 days |                    |             |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|-------------|--------------------|------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%        | 95%CI              | 1-2 days                     |                    | 0 days      |                    | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |             |                    |                              |                    |             |                    |            |                  |               |
| 0-35% (n=1,600)                                     | 34.4        | [31.5,37.4]        | 19.0        | [16.5,21.6]        | 19.6                         | [17.2,22.2]        | 26.9        | [24.3,29.7]        | 0.1        | [0.0,0.6]        | 100.0         |
| 36-99% (n=1,449)                                    | 30.9        | [28.0,34.0]        | 19.2        | [16.9,21.8]        | 22.2                         | [19.8,24.8]        | 27.7        | [25.0,30.5]        | 0.0        |                  | 100.0         |
| ≥ 100% (n = 1,039)                                  | 29.3        | [26.1,32.6]        | 17.4        | [14.7,20.5]        | 24.9                         | [22.0,28.0]        | 28.5        | [25.4,31.7]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(8) =                      | 17.9802     |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Design-based F(7.10, 28954.35) =                    | 1.7577      | Pr =               | 0.090       |                    |                              |                    |             |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |             |                    |                              |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 31.3        | [27.5,35.4]        | 17.9        | [14.8,21.4]        | 20.1                         | [17.0,23.6]        | 30.8        | [27.3,34.5]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=1,265)                             | 35.2        | [32.2,38.3]        | 18.5        | [16.1,21.2]        | 19.1                         | [16.8,21.6]        | 27.0        | [24.2,29.9]        | 0.2        | [0.1,1.1]        | 100.0         |
| S Central/SW/SE (n=837)                             | 34.2        | [30.5,38.0]        | 17.9        | [14.6,21.8]        | 21.9                         | [18.7,25.6]        | 26.0        | [22.7,29.6]        | 0.0        |                  | 100.0         |
| Detroit Metro (n=1,240)                             | 30.0        | [26.8,33.4]        | 19.4        | [16.8,22.3]        | 22.9                         | [20.1,25.9]        | 27.7        | [24.8,30.8]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(12) =                     | 21.9683     |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Design-based F(9.70, 39528.64) =                    | 1.5685      | Pr =               | 0.112       |                    |                              |                    |             |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Yes (n=490)   | 36.6        | [31.2,42.3]        | 23.2        | [18.5,28.7]        | 23.3                         | [18.7,28.8]        | 16.9        | [13.2,21.3]        | 0.0        |                  | 100.0         |
| No (n=3,598)  | 31.6        | [29.7,33.6]        | 17.9        | [16.3,19.6]        | 21.0                         | [19.4,22.7]        | 29.4        | [27.5,31.3]        | 0.1        | [0.0,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 43.7655     |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Design-based F(3.94, 16076.53) =                    | 5.5141      | Pr =               | 0.000       |                    |                              |                    |             |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Yes (n=156)   | 42.4        | [32.7,52.8]        | 15.3        | [9.7,23.2]         | 17.4                         | [10.9,26.7]        | 24.9        | [17.5,34.0]        | 0.0        |                  | 100.0         |
| No (n=3,932)  | 31.9        | [30.1,33.8]        | 18.9        | [17.3,20.6]        | 21.6                         | [20.0,23.2]        | 27.6        | [25.8,29.4]        | 0.1        | [0.0,0.3]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.0819      |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Design-based F(3.96, 16130.05) =                    | 1.2758      | Pr =               | 0.277       |                    |                              |                    |             |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 28.8        | [25.7,32.0]        | 15.1        | [12.7,17.9]        | 20.5                         | [17.7,23.6]        | 35.5        | [32.1,39.1]        | 0.2        | [0.0,1.4]        | 100.0         |
| No chronic disease (n=2,927)                        | 33.6        | [31.4,35.9]        | 19.9        | [18.1,22.0]        | 21.7                         | [19.8,23.6]        | 24.7        | [22.9,26.7]        | 0.0        | [0.0,0.2]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 51.3642     |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Design-based F(3.96, 16128.70) =                    | 9.2621      | Pr =               | 0.000       |                    |                              |                    |             |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |             |                    |                              |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,033)                             | 34.8        | [32.2,37.5]        | 18.6        | [16.4,20.9]        | 17.9                         | [15.9,20.0]        | 28.7        | [26.3,31.3]        | 0.0        | [0.0,0.3]        | 100.0         |
| No MH/SA (n=2,055)                                  | 30.1        | [27.5,32.8]        | 18.9        | [16.7,21.3]        | 24.7                         | [22.3,27.2]        | 26.3        | [24.0,28.7]        | 0.1        | [0.0,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 32.0747     |                    |             |                    |                              |                    |             |                    |            |                  |               |
| Design-based F(3.91, 15925.73) =                    | 5.2624      | Pr =               | 0.000       |                    |                              |                    |             |                    |            |                  |               |
| <b>Total (n=4,088)</b>                              | <b>32.4</b> | <b>[30.6,34.3]</b> | <b>18.7</b> | <b>[17.2,20.4]</b> | <b>21.4</b>                  | <b>[19.8,23.0]</b> | <b>27.4</b> | <b>[25.8,29.2]</b> | <b>0.1</b> | <b>[0.0,0.3]</b> | <b>100.0</b>  |



#### 4.40 Q: In the last 7 days, how many days did you eat 3 or more servings of fruits or vegetables in a day?

Universe: All respondents

|   | Fruits and vegetables past 7 days |                    |             |                    |             |                    |             |                    |            |                  | Total<br>Row% |
|---|-----------------------------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Every day                         |                    | 3-6 days    |                    | 1-2 days    |                    | 0 days      |                    | Don't know |                  |               |
|   | Row%                              | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                   |                    |             |                    |             |                    |             |                    |            |                  |               |
| 0-35% (n=1,598)                                     | 35.0                              | [32.1,38.0]        | 33.0        | [30.1,36.0]        | 18.3        | [16.0,20.9]        | 12.7        | [10.7,14.9]        | 1.0        | [0.6,1.8]        | 100.0         |
| 36-99% (n=1,449)                                    | 40.5                              | [37.5,43.5]        | 33.6        | [30.7,36.6]        | 14.4        | [12.2,16.9]        | 11.1        | [9.3,13.3]         | 0.5        | [0.2,1.1]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 39.5                              | [36.1,43.0]        | 35.4        | [32.0,38.9]        | 14.5        | [12.2,17.2]        | 10.4        | [8.4,12.9]         | 0.2        | [0.0,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(8) =                      | 27.7194                           |                    |             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(7.58, 30882.49) =                    | 2.7021                            |                    | Pr =        | 0.007              |             |                    |             |                    |            |                  |               |
| <b>Region</b>                                       |                                   |                    |             |                    |             |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 40.3                              | [36.3,44.4]        | 33.5        | [29.8,37.5]        | 12.1        | [9.5,15.3]         | 13.3        | [10.8,16.3]        | 0.7        | [0.3,1.8]        | 100.0         |
| W/E Central/E (n=1,264)                             | 34.7                              | [31.8,37.7]        | 35.2        | [32.2,38.3]        | 16.4        | [14.2,19.0]        | 12.5        | [10.5,14.9]        | 1.1        | [0.6,2.2]        | 100.0         |
| S Central/SW/SE (n=837)                             | 37.2                              | [33.3,41.2]        | 31.1        | [27.4,35.0]        | 19.4        | [16.2,23.1]        | 11.6        | [9.3,14.4]         | 0.7        | [0.3,2.0]        | 100.0         |
| Detroit Metro (n=1,240)                             | 38.8                              | [35.5,42.2]        | 33.7        | [30.4,37.1]        | 16.0        | [13.6,18.9]        | 11.1        | [9.0,13.5]         | 0.4        | [0.1,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(12) =                     | 22.5959                           |                    |             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(10.63, 43331.01) =                   | 1.4335                            |                    | Pr =        | 0.153              |             |                    |             |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                   |                    |             |                    |             |                    |             |                    |            |                  |               |
| Yes (n=491)   | 32.5                              | [27.3,38.2]        | 33.5        | [28.3,39.3]        | 19.3        | [15.2,24.2]        | 13.7        | [10.1,18.3]        | 0.9        | [0.3,2.8]        | 100.0         |
| No (n=3,596)  | 38.4                              | [36.4,40.4]        | 33.6        | [31.7,35.6]        | 15.9        | [14.4,17.6]        | 11.4        | [10.2,12.8]        | 0.6        | [0.4,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 11.5291                           |                    |             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(3.98, 16219.98) =                    | 1.4149                            |                    | Pr =        | 0.226              |             |                    |             |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                                   |                    |             |                    |             |                    |             |                    |            |                  |               |
| Yes (n=156)   | 42.6                              | [33.2,52.5]        | 32.6        | [23.3,43.6]        | 11.7        | [6.6,19.8]         | 12.6        | [7.8,19.8]         | 0.5        | [0.1,3.2]        | 100.0         |
| No (n=3,931)  | 37.2                              | [35.3,39.2]        | 33.7        | [31.8,35.6]        | 16.7        | [15.2,18.3]        | 11.7        | [10.5,13.1]        | 0.7        | [0.4,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 4.2184                            |                    |             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(3.63, 14811.65) =                    | 0.6610                            |                    | Pr =        | 0.605              |             |                    |             |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                    |             |                    |             |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 39.5                              | [36.0,43.0]        | 31.7        | [28.4,35.1]        | 15.5        | [13.0,18.3]        | 13.1        | [11.0,15.5]        | 0.3        | [0.1,1.2]        | 100.0         |
| No chronic disease (n=2,926)                        | 36.8                              | [34.6,39.0]        | 34.3        | [32.1,36.6]        | 16.8        | [15.0,18.6]        | 11.3        | [9.9,13.0]         | 0.8        | [0.5,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 8.9631                            |                    |             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(3.99, 16264.32) =                    | 1.5090                            |                    | Pr =        | 0.197              |             |                    |             |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                    |             |                    |             |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,031)                             | 36.8                              | [34.2,39.5]        | 33.6        | [31.0,36.3]        | 16.0        | [14.0,18.2]        | 12.8        | [11.1,14.8]        | 0.8        | [0.4,1.4]        | 100.0         |
| No MH/SA (n=2,056)                                  | 38.1                              | [35.5,40.8]        | 33.6        | [31.0,36.4]        | 16.8        | [14.8,19.1]        | 10.8        | [9.2,12.8]         | 0.6        | [0.3,1.2]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 4.6217                            |                    |             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(3.99, 16242.87) =                    | 0.7010                            |                    | Pr =        | 0.591              |             |                    |             |                    |            |                  |               |
| <b>Total (n=4,087)</b>                              | <b>37.5</b>                       | <b>[35.6,39.4]</b> | <b>33.6</b> | <b>[31.8,35.5]</b> | <b>16.4</b> | <b>[15.0,18.0]</b> | <b>11.8</b> | <b>[10.5,13.1]</b> | <b>0.7</b> | <b>[0.4,1.1]</b> | <b>100.0</b>  |

#### 4.41 Q: In the last 12 months, has a doctor, nurse, or other health professional talked with you about exercise?

Universe: All respondents

|   | Health care talk exercise |             |       |             |            |           | Total<br>Row% |
|---|---------------------------|-------------|-------|-------------|------------|-----------|---------------|
|   | Yes                       |             | No    |             | Don't know |           |               |
|   | Row%                      | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                           |             |       |             |            |           |               |
| 0-35% (n=1,600)                                     | 48.7                      | [45.6,51.9] | 50.7  | [47.6,53.9] | 0.5        | [0.1,1.9] | 100.0         |
| 36-99% (n=1,450)                                    | 49.4                      | [46.3,52.5] | 50.4  | [47.2,53.5] | 0.2        | [0.1,0.7] | 100.0         |
| ≥ 100%(n = 1,040)                                   | 47.3                      | [43.8,50.8] | 52.2  | [48.6,55.7] | 0.5        | [0.2,1.2] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 2.1510                    |             |       |             |            |           |               |
| Design-based F(3.40, 13885.35) =                    | 0.3647                    | Pr =        | 0.804 |             |            |           |               |
| <b>Region</b>                                       |                           |             |       |             |            |           |               |
| UP/NW/NE (n=746)                                    | 47.3                      | [43.2,51.4] | 52.5  | [48.4,56.5] | 0.3        | [0.1,1.1] | 100.0         |
| W/E Central/E (n=1,265)                             | 48.5                      | [45.3,51.6] | 51.0  | [47.8,54.2] | 0.5        | [0.2,1.0] | 100.0         |
| S Central/SW/SE (n=837)                             | 48.3                      | [44.2,52.4] | 50.5  | [46.3,54.6] | 1.2        | [0.3,5.3] | 100.0         |
| Detroit Metro (n=1,242)                             | 49.2                      | [45.7,52.7] | 50.7  | [47.2,54.2] | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 17.0185                   |             |       |             |            |           |               |
| Design-based F(4.36, 17764.79) =                    | 2.0888                    | Pr =        | 0.073 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                           |             |       |             |            |           |               |
| Yes (n=491)   | 20.7                      | [16.4,25.7] | 78.2  | [72.9,82.7] | 1.1        | [0.2,7.5] | 100.0         |
| No (n=3,599)  | 53.7                      | [51.6,55.7] | 46.0  | [43.9,48.1] | 0.3        | [0.2,0.5] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 233.6252                  |             |       |             |            |           |               |
| Design-based F(1.75, 7139.74) =                     | 35.4432                   | Pr =        | 0.000 |             |            |           |               |
| <b>High ER utilizers</b>                            |                           |             |       |             |            |           |               |
| Yes (n=156)   | 56.2                      | [46.3,65.7] | 43.8  | [34.3,53.7] | 0.0        |           | 100.0         |
| No (n=3,934)  | 48.3                      | [46.3,50.3] | 51.2  | [49.2,53.3] | 0.5        | [0.2,1.0] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.9711                    |             |       |             |            |           |               |
| Design-based F(1.88, 7669.76) =                     | 1.0073                    | Pr =        | 0.361 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |             |       |             |            |           |               |
| Chronic disease (HEDIS) (n=1,161)                   | 65.2                      | [61.7,68.5] | 34.6  | [31.3,38.0] | 0.2        | [0.1,0.6] | 100.0         |
| No chronic disease (n=2,929)                        | 43.1                      | [40.8,45.4] | 56.4  | [54.1,58.7] | 0.5        | [0.2,1.3] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 151.2359                  |             |       |             |            |           |               |
| Design-based F(1.90, 7734.46) =                     | 64.2937                   | Pr =        | 0.000 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |             |       |             |            |           |               |
| MH/SA (HEDIS) (n=2,034)                             | 55.5                      | [52.7,58.3] | 44.2  | [41.5,47.0] | 0.3        | [0.1,0.6] | 100.0         |
| No MH/SA (n=2,056)                                  | 42.2                      | [39.5,45.0] | 57.2  | [54.4,59.9] | 0.6        | [0.2,1.8] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 73.4951                   |             |       |             |            |           |               |
| Design-based F(1.99, 8126.41) =                     | 21.1099                   | Pr =        | 0.000 |             |            |           |               |
| <b>Total (n=4,090)</b>                              | 48.6                      | [46.7,50.6] | 50.9  | [48.9,52.9] | 0.4        | [0.2,1.0] | 100.0         |

#### 4.42 Q: In the last 12 months, has a doctor, nurse, or other health professional talked with you about diet and nutrition?

Universe: All respondents

|   | Health care talk nutrition |                    |             |                    |            |                  | Total<br>Row% |
|---|----------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                        |                    | No          |                    | Don't know |                  |               |
|   | Row%                       | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                            |                    |             |                    |            |                  |               |
| 0-35% (n=1,600)                                     | 50.1                       | [47.0,53.2]        | 49.3        | [46.2,52.4]        | 0.6        | [0.2,1.9]        | 100.0         |
| 36-99% (n=1,449)                                    | 49.7                       | [46.6,52.9]        | 50.0        | [46.9,53.1]        | 0.2        | [0.1,0.8]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 49.1                       | [45.6,52.7]        | 50.3        | [46.7,53.8]        | 0.6        | [0.3,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 2.3440                     |                    |             |                    |            |                  |               |
| Design-based F(3.58, 14581.43) =                    | 0.3957                     | Pr =               | 0.791       |                    |            |                  |               |
| <b>Region</b>                                       |                            |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 45.6                       | [41.6,49.7]        | 54.1        | [50.0,58.1]        | 0.3        | [0.1,1.2]        | 100.0         |
| W/E Central/E (n=1,265)                             | 50.2                       | [47.0,53.4]        | 49.2        | [46.0,52.4]        | 0.6        | [0.3,1.3]        | 100.0         |
| S Central/SW/SE (n=837)                             | 49.1                       | [45.0,53.2]        | 49.9        | [45.8,54.0]        | 1.0        | [0.2,5.9]        | 100.0         |
| Detroit Metro (n=1,241)                             | 50.8                       | [47.3,54.2]        | 49.0        | [45.5,52.5]        | 0.3        | [0.1,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 9.8848                     |                    |             |                    |            |                  |               |
| Design-based F(3.71, 15121.57) =                    | 0.9693                     | Pr =               | 0.419       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                            |                    |             |                    |            |                  |               |
| Yes (n=491)   | 26.2                       | [21.4,31.7]        | 72.4        | [66.7,77.4]        | 1.4        | [0.3,6.7]        | 100.0         |
| No (n=3,598)  | 54.1                       | [52.0,56.1]        | 45.6        | [43.5,47.7]        | 0.3        | [0.2,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 169.7173                   |                    |             |                    |            |                  |               |
| Design-based F(1.84, 7500.65) =                     | 28.0713                    | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                            |                    |             |                    |            |                  |               |
| Yes (n=155)   | 51.1                       | [41.0,61.1]        | 48.9        | [38.9,59.0]        | 0.0        |                  | 100.0         |
| No (n=3,934)  | 49.8                       | [47.8,51.8]        | 49.7        | [47.7,51.7]        | 0.5        | [0.2,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0086                     |                    |             |                    |            |                  |               |
| Design-based F(1.90, 7760.95) =                     | 0.2049                     | Pr =               | 0.804       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                            |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,160)                   | 65.6                       | [62.2,68.9]        | 34.1        | [30.8,37.6]        | 0.3        | [0.1,0.9]        | 100.0         |
| No chronic disease (n=2,929)                        | 44.5                       | [42.2,46.8]        | 54.9        | [52.6,57.2]        | 0.6        | [0.2,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 137.1835                   |                    |             |                    |            |                  |               |
| Design-based F(2.00, 8140.89) =                     | 49.1561                    | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                            |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,033)                             | 54.9                       | [52.1,57.7]        | 44.8        | [42.0,47.6]        | 0.3        | [0.2,0.7]        | 100.0         |
| No MH/SA (n=2,056)                                  | 45.1                       | [42.3,47.8]        | 54.3        | [51.5,57.1]        | 0.7        | [0.2,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 40.8083                    |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8102.57) =                     | 11.3991                    | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>49.8</b>                | <b>[47.8,51.8]</b> | <b>49.7</b> | <b>[47.7,51.7]</b> | <b>0.5</b> | <b>[0.2,1.1]</b> | <b>100.0</b>  |

#### 4.43 Q: In the last 7 days, how many days did you have (5 or more for men, 4 or more for women) alcoholic drinks?

Universe: All respondents

|   | Every day |           | 3-6 days |            | Binge drinking past 7 days |             |        |             | Don't know |           | Total<br>Row% |
|---|-----------|-----------|----------|------------|----------------------------|-------------|--------|-------------|------------|-----------|---------------|
|   | Row%      | 95%CI     | Row%     | 95%CI      | 1-2 days                   |             | 0 days |             | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |           |           |          |            |                            |             |        |             |            |           |               |
| 0-35% (n=1,600)                                     | 1.0       | [0.6,1.8] | 5.3      | [4.1,6.9]  | 15.1                       | [13.0,17.5] | 78.4   | [75.7,80.9] | 0.2        | [0.0,0.8] | 100.0         |
| 36-99% (n=1,448)                                    | 0.8       | [0.4,1.5] | 2.6      | [1.8,3.6]  | 14.3                       | [12.2,16.7] | 82.3   | [79.8,84.6] | 0.0        |           | 100.0         |
| ≥ 100% (n = 1,039)                                  | 1.7       | [0.9,3.3] | 2.7      | [1.8,4.1]  | 13.0                       | [10.7,15.6] | 82.6   | [79.6,85.2] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(8) =                      | 30.2599   |           |          |            |                            |             |        |             |            |           |               |
| Design-based F(6.88, 28043.55) =                    | 2.9073    |           | Pr =     | 0.005      |                            |             |        |             |            |           |               |
| <b>Region</b>                                       |           |           |          |            |                            |             |        |             |            |           |               |
| UP/NW/NE (n=745)                                    | 1.2       | [0.6,2.6] | 2.8      | [1.8,4.3]  | 15.0                       | [12.2,18.3] | 81.0   | [77.5,84.0] | 0.0        |           | 100.0         |
| W/E Central/E (n=1,264)                             | 1.3       | [0.7,2.4] | 3.8      | [2.8,5.1]  | 15.4                       | [13.2,17.9] | 79.3   | [76.6,81.8] | 0.2        | [0.0,1.2] | 100.0         |
| S Central/SW/SE (n=837)                             | 1.2       | [0.6,2.4] | 5.0      | [3.4,7.2]  | 12.9                       | [10.2,16.1] | 80.9   | [77.3,84.1] | 0.0        |           | 100.0         |
| Detroit Metro (n=1,241)                             | 0.9       | [0.4,1.8] | 4.0      | [2.8,5.8]  | 14.4                       | [12.1,17.1] | 80.6   | [77.6,83.2] | 0.1        | [0.0,0.9] | 100.0         |
| Pearson: Uncorrected chi2(12) =                     | 9.0108    |           |          |            |                            |             |        |             |            |           |               |
| Design-based F(9.86, 40193.10) =                    | 0.5480    |           | Pr =     | 0.855      |                            |             |        |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |           |           |          |            |                            |             |        |             |            |           |               |
| Yes (n=491)   | 1.0       | [0.4,2.1] | 7.9      | [5.4,11.5] | 16.1                       | [12.0,21.2] | 75.0   | [69.5,79.8] | 0.0        |           | 100.0         |
| No (n=3,596)  | 1.1       | [0.7,1.7] | 3.3      | [2.6,4.2]  | 14.2                       | [12.8,15.7] | 81.3   | [79.6,82.9] | 0.1        | [0.0,0.5] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 32.8380   |           |          |            |                            |             |        |             |            |           |               |
| Design-based F(3.75, 15265.58) =                    | 4.3670    |           | Pr =     | 0.002      |                            |             |        |             |            |           |               |
| <b>High ER utilizers</b>                            |           |           |          |            |                            |             |        |             |            |           |               |
| Yes (n=156)   | 0.0       |           | 4.3      | [1.1,15.0] | 9.2                        | [5.2,15.7]  | 86.5   | [77.6,92.3] | 0.0        |           | 100.0         |
| No (n=3,931)  | 1.1       | [0.8,1.6] | 4.0      | [3.3,4.9]  | 14.7                       | [13.3,16.2] | 80.0   | [78.3,81.6] | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 6.8388    |           |          |            |                            |             |        |             |            |           |               |
| Design-based F(3.50, 14256.66) =                    | 0.7797    |           | Pr =     | 0.523      |                            |             |        |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |           |           |          |            |                            |             |        |             |            |           |               |
| Chronic disease (HEDIS) (n=1,161)                   | 0.9       | [0.4,1.9] | 3.0      | [2.0,4.3]  | 11.4                       | [9.3,13.7]  | 84.6   | [82.0,87.0] | 0.2        | [0.0,1.4] | 100.0         |
| No chronic disease (n=2,926)                        | 1.2       | [0.8,1.8] | 4.4      | [3.5,5.5]  | 15.5                       | [13.8,17.4] | 78.9   | [76.8,80.8] | 0.1        | [0.0,0.5] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 17.8751   |           |          |            |                            |             |        |             |            |           |               |
| Design-based F(3.83, 15626.12) =                    | 2.8638    |           | Pr =     | 0.024      |                            |             |        |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |           |           |          |            |                            |             |        |             |            |           |               |
| MH/SA (HEDIS) (n=2,032)                             | 1.2       | [0.7,2.0] | 4.3      | [3.3,5.7]  | 14.5                       | [12.6,16.6] | 79.9   | [77.6,82.1] | 0.0        |           | 100.0         |
| No MH/SA (n=2,055)                                  | 1.0       | [0.6,1.6] | 3.7      | [2.7,5.0]  | 14.4                       | [12.5,16.6] | 80.7   | [78.3,82.9] | 0.2        | [0.1,0.8] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 5.8161    |           |          |            |                            |             |        |             |            |           |               |
| Design-based F(3.95, 16095.80) =                    | 0.7999    |           | Pr =     | 0.524      |                            |             |        |             |            |           |               |
| <b>Total (n=4,087)</b>                              | 1.1       | [0.8,1.6] | 4.0      | [3.3,4.9]  | 14.5                       | [13.1,16.0] | 80.3   | [78.7,81.9] | 0.1        | [0.0,0.4] | 100.0         |

#### 4.44 Q: In the last 12 months, has a doctor, nurse, or other health professional talked with you about safe alcohol use?

Universe: Respondents who consume alcoholic drinks (5+ men, 4+ for women in past week)

|   | Health care talk alcohol |                    |             |                    |            |                  | Total<br>Row% |
|---|--------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                      |                    | No          |                    | Don't know |                  |               |
|   | Row%                     | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                          |                    |             |                    |            |                  |               |
| 0-35% (n=326)                                       | 32.2                     | [26.3,38.8]        | 67.8        | [61.2,73.7]        | 0.0        |                  | 100.0         |
| 36-99% (n=248)                                      | 26.5                     | [20.2,33.9]        | 73.5        | [66.1,79.8]        | 0.0        |                  | 100.0         |
| ≥ 100%(n = 173)                                     | 29.6                     | [22.3,38.2]        | 69.6        | [61.0,77.0]        | 0.8        | [0.2,3.6]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 7.1903                   |                    |             |                    |            |                  |               |
| Design-based F(3.28, 2410.07) =                     | 1.9888                   | Pr =               | 0.108       |                    |            |                  |               |
| <b>Region</b>                                       |                          |                    |             |                    |            |                  |               |
| UP/NW/NE (n=135)                                    | 31.7                     | [23.5,41.2]        | 67.8        | [58.3,76.0]        | 0.5        | [0.1,3.6]        | 100.0         |
| W/E Central/E (n=245)                               | 29.2                     | [23.2,36.0]        | 70.8        | [64.0,76.8]        | 0.0        |                  | 100.0         |
| S Central/SW/SE (n=144)                             | 32.9                     | [23.7,43.6]        | 67.1        | [56.4,76.3]        | 0.0        |                  | 100.0         |
| Detroit Metro (n=223)                               | 29.7                     | [23.0,37.4]        | 70.0        | [62.3,76.8]        | 0.2        | [0.0,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 1.9713                   |                    |             |                    |            |                  |               |
| Design-based F(4.39, 3225.55) =                     | 0.3670                   | Pr =               | 0.849       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                          |                    |             |                    |            |                  |               |
| Yes (n=122)   | 19.0                     | [10.5,31.9]        | 81.0        | [68.1,89.5]        | 0.0        |                  | 100.0         |
| No (n=625)  | 33.0                     | [28.7,37.7]        | 66.8        | [62.1,71.1]        | 0.2        | [0.0,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.2950                  |                    |             |                    |            |                  |               |
| Design-based F(1.47, 1077.28) =                     | 3.5076                   | Pr =               | 0.044       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                          |                    |             |                    |            |                  |               |
| Yes (n=18)  | 23.2                     | [8.6,49.3]         | 76.8        | [50.7,91.4]        | 0.0        |                  | 100.0         |
| No (n=729)  | 30.5                     | [26.4,34.9]        | 69.3        | [64.9,73.4]        | 0.1        | [0.0,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.6014                   |                    |             |                    |            |                  |               |
| Design-based F(1.77, 1300.42) =                     | 0.2826                   | Pr =               | 0.727       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                          |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=181)                     | 40.5                     | [32.4,49.1]        | 59.3        | [50.6,67.3]        | 0.2        | [0.0,1.6]        | 100.0         |
| No chronic disease (n=566)                          | 27.8                     | [23.3,32.8]        | 72.1        | [67.0,76.6]        | 0.1        | [0.0,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.1785                   |                    |             |                    |            |                  |               |
| Design-based F(1.64, 1204.24) =                     | 5.2772                   | Pr =               | 0.009       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                          |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=380)                               | 38.5                     | [32.7,44.7]        | 61.5        | [55.3,67.3]        | 0.0        |                  | 100.0         |
| No MH/SA (n=367)                                    | 22.4                     | [17.2,28.6]        | 77.3        | [71.1,82.6]        | 0.3        | [0.1,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 23.8105                  |                    |             |                    |            |                  |               |
| Design-based F(1.65, 1216.00) =                     | 10.2001                  | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=747)</b>                                | <b>30.3</b>              | <b>[26.3,34.6]</b> | <b>69.6</b> | <b>[65.2,73.6]</b> | <b>0.1</b> | <b>[0.0,0.6]</b> | <b>100.0</b>  |

#### 4.45 Q: In the last 30 days have you smoked or used tobacco?

Universe: All respondents

|   | Smoked/used tobacco past 30 days |                    |             |                    | Total<br>Row% |
|---|----------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                      | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                  |                    |             |                    |               |
| 0-35% (n=1,599)                                     | 43.7                             | [40.6,46.8]        | 56.3        | [53.2,59.4]        | 100.0         |
| 36-99% (n=1,450)                                    | 32.7                             | [29.9,35.7]        | 67.3        | [64.3,70.1]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 29.4                             | [26.3,32.6]        | 70.6        | [67.4,73.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 68.2814                          |                    |             |                    |               |
| Design-based F(1.93, 7864.51) =                     | 25.8276                          | Pr =               | 0.000       |                    |               |
| <b>Region</b>                                       |                                  |                    |             |                    |               |
| UP/NW/NE (n=746)                                    | 40.8                             | [36.9,44.9]        | 59.2        | [55.1,63.1]        | 100.0         |
| W/E Central/E (n=1,265)                             | 41.2                             | [38.1,44.4]        | 58.8        | [55.6,61.9]        | 100.0         |
| S Central/SW/SE (n=837)                             | 37.8                             | [33.9,41.8]        | 62.2        | [58.2,66.1]        | 100.0         |
| Detroit Metro (n=1,241)                             | 34.8                             | [31.6,38.3]        | 65.2        | [61.7,68.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 13.8100                          |                    |             |                    |               |
| Design-based F(2.65, 10815.32) =                    | 3.5760                           | Pr =               | 0.017       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                  |                    |             |                    |               |
| Yes (n=491)   | 41.2                             | [35.6,47.0]        | 58.8        | [53.0,64.4]        | 100.0         |
| No (n=3,598)  | 37.1                             | [35.1,39.2]        | 62.9        | [60.8,64.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.7241                           |                    |             |                    |               |
| Design-based F(1.00, 4077.00) =                     | 1.7586                           | Pr =               | 0.185       |                    |               |
| <b>High ER utilizers</b>                            |                                  |                    |             |                    |               |
| Yes (n=156)   | 51.8                             | [41.7,61.7]        | 48.2        | [38.3,58.3]        | 100.0         |
| No (n=3,933)  | 37.1                             | [35.2,39.1]        | 62.9        | [60.9,64.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 15.8331                          |                    |             |                    |               |
| Design-based F(1.00, 4077.00) =                     | 8.2862                           | Pr =               | 0.004       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                  |                    |             |                    |               |
| Chronic disease (HEDIS) (n=1,160)                   | 42.1                             | [38.6,45.6]        | 57.9        | [54.4,61.4]        | 100.0         |
| No chronic disease (n=2,929)                        | 36.3                             | [34.1,38.6]        | 63.7        | [61.4,65.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 10.8903                          |                    |             |                    |               |
| Design-based F(1.00, 4077.00) =                     | 7.4479                           | Pr =               | 0.006       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                  |                    |             |                    |               |
| MH/SA (HEDIS) (n=2,033)                             | 44.7                             | [41.9,47.5]        | 55.3        | [52.5,58.1]        | 100.0         |
| No MH/SA (n=2,056)                                  | 31.3                             | [28.7,33.9]        | 68.7        | [66.1,71.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 78.2907                          |                    |             |                    |               |
| Design-based F(1.00, 4077.00) =                     | 46.6080                          | Pr =               | 0.000       |                    |               |
| <b>Total (n=4,089)</b>                              | <b>37.7</b>                      | <b>[35.9,39.7]</b> | <b>62.3</b> | <b>[60.3,64.1]</b> | <b>100.0</b>  |

#### 4.46 Q: Do you want to quit smoking or using tobacco?

Universe: Respondents who have smoked or used tobacco in the last 30 days

|   | Want to quit smoking |                    |             |                    |            |                  | Total<br>Row% |
|---|----------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                  |                    | No          |                    | Don't know |                  |               |
|   | Row%                 | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                      |                    |             |                    |            |                  |               |
| 0-35% (n=725)                                       | 73.5                 | [68.7,77.8]        | 25.1        | [20.9,29.9]        | 1.4        | [0.6,3.0]        | 100.0         |
| 36-99% (n=487)                                      | 78.2                 | [73.7,82.2]        | 19.7        | [15.9,24.1]        | 2.1        | [0.9,4.5]        | 100.0         |
| ≥ 100% (n = 318)                                    | 77.0                 | [71.3,81.9]        | 21.8        | [17.0,27.5]        | 1.2        | [0.5,3.0]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 5.5789               |                    |             |                    |            |                  |               |
| Design-based F(3.68, 5588.01) =                     | 1.1449               | Pr =               | 0.333       |                    |            |                  |               |
| <b>Region</b>                                       |                      |                    |             |                    |            |                  |               |
| UP/NW/NE (n=310)                                    | 74.5                 | [68.4,79.8]        | 23.6        | [18.4,29.6]        | 1.9        | [0.7,4.9]        | 100.0         |
| W/E Central/E (n=512)                               | 74.7                 | [69.9,78.9]        | 23.5        | [19.4,28.2]        | 1.8        | [0.9,3.6]        | 100.0         |
| S Central/SW/SE (n=314)                             | 72.2                 | [65.0,78.5]        | 24.6        | [18.7,31.7]        | 3.2        | [1.2,8.1]        | 100.0         |
| Detroit Metro (n=394)                               | 77.2                 | [70.9,82.4]        | 22.4        | [17.2,28.6]        | 0.5        | [0.1,2.2]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 11.3687              |                    |             |                    |            |                  |               |
| Design-based F(5.18, 7864.44) =                     | 1.2666               | Pr =               | 0.274       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                      |                    |             |                    |            |                  |               |
| Yes (n=205)   | 72.3                 | [63.3,79.8]        | 26.1        | [18.7,35.1]        | 1.6        | [0.6,4.3]        | 100.0         |
| No (n=1,325)  | 75.8                 | [72.4,78.9]        | 22.7        | [19.6,26.1]        | 1.5        | [0.8,2.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.4232               |                    |             |                    |            |                  |               |
| Design-based F(1.83, 2777.24) =                     | 0.4101               | Pr =               | 0.645       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                      |                    |             |                    |            |                  |               |
| Yes (n=82)  | 68.5                 | [53.0,80.7]        | 31.5        | [19.3,47.0]        | 0.0        |                  | 100.0         |
| No (n=1,448)  | 75.6                 | [72.4,78.6]        | 22.7        | [19.8,25.9]        | 1.6        | [1.0,2.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.9847               |                    |             |                    |            |                  |               |
| Design-based F(1.93, 2930.86) =                     | 1.2982               | Pr =               | 0.273       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                      |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=500)                     | 79.5                 | [74.4,83.9]        | 20.1        | [15.8,25.2]        | 0.4        | [0.1,1.2]        | 100.0         |
| No chronic disease (n=1,030)                        | 73.5                 | [69.6,77.2]        | 24.5        | [21.0,28.4]        | 2.0        | [1.1,3.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.0585               |                    |             |                    |            |                  |               |
| Design-based F(1.67, 2527.73) =                     | 3.8525               | Pr =               | 0.028       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                      |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=886)                               | 76.9                 | [72.9,80.5]        | 22.4        | [18.8,26.4]        | 0.7        | [0.3,1.6]        | 100.0         |
| No MH/SA (n=644)                                    | 73.0                 | [67.7,77.7]        | 24.4        | [19.9,29.7]        | 2.6        | [1.4,4.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.6842               |                    |             |                    |            |                  |               |
| Design-based F(1.90, 2883.64) =                     | 2.9043               | Pr =               | 0.058       |                    |            |                  |               |
| <b>Total (n=1,530)</b>                              | <b>75.2</b>          | <b>[72.0,78.1]</b> | <b>23.3</b> | <b>[20.4,26.4]</b> | <b>1.5</b> | <b>[0.9,2.5]</b> | <b>100.0</b>  |

#### 4.47 Q: Are you working on cutting back or quitting right now?

Universe: Respondents who want to quit smoking or using tobacco

|   | Yes         |                    | Trying to quit now<br>No |                   | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|--------------------------|-------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%                     | 95%CI             | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                          |                   |            |                  |               |
| 0-35% (n=565)                                       | 91.5        | [88.5,93.7]        | 8.2                      | [6.0,11.1]        | 0.3        | [0.1,1.3]        | 100.0         |
| 36-99% (n=376)                                      | 91.1        | [87.6,93.6]        | 8.7                      | [6.2,12.1]        | 0.2        | [0.0,1.6]        | 100.0         |
| ≥ 100% (n = 245)                                    | 87.2        | [81.7,91.2]        | 12.8                     | [8.8,18.3]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 4.3687      |                    |                          |                   |            |                  |               |
| Design-based F(3.82, 4485.20) =                     | 1.1073      | Pr =               | 0.350                    |                   |            |                  |               |
| <b>Region</b>                                       |             |                    |                          |                   |            |                  |               |
| UP/NW/NE (n=233)                                    | 85.3        | [79.5,89.7]        | 14.7                     | [10.3,20.5]       | 0.0        |                  | 100.0         |
| W/E Central/E (n=390)                               | 90.4        | [86.5,93.2]        | 9.6                      | [6.8,13.5]        | 0.0        |                  | 100.0         |
| S Central/SW/SE (n=241)                             | 89.1        | [84.1,92.7]        | 9.9                      | [6.5,14.7]        | 1.0        | [0.2,4.2]        | 100.0         |
| Detroit Metro (n=322)                               | 92.9        | [89.3,95.3]        | 7.0                      | [4.6,10.6]        | 0.1        | [0.0,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 13.9576     |                    |                          |                   |            |                  |               |
| Design-based F(4.87, 5718.58) =                     | 2.6273      | Pr =               | 0.023                    |                   |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                          |                   |            |                  |               |
| Yes (n=148)   | 84.8        | [77.5,90.1]        | 14.1                     | [9.0,21.2]        | 1.1        | [0.2,4.6]        | 100.0         |
| No (n=1,038)  | 91.8        | [89.8,93.5]        | 8.1                      | [6.4,10.2]        | 0.1        | [0.0,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.0208     |                    |                          |                   |            |                  |               |
| Design-based F(1.89, 2213.08) =                     | 6.1469      | Pr =               | 0.003                    |                   |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                          |                   |            |                  |               |
| Yes (n=61)  | 89.3        | [79.3,94.8]        | 10.7                     | [5.2,20.7]        | 0.0        |                  | 100.0         |
| No (n=1,125)  | 90.8        | [88.7,92.5]        | 9.0                      | [7.2,11.0]        | 0.2        | [0.1,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.3912      |                    |                          |                   |            |                  |               |
| Design-based F(1.99, 2339.39) =                     | 0.1888      | Pr =               | 0.827                    |                   |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                          |                   |            |                  |               |
| Chronic disease (HEDIS) (n=413)                     | 92.2        | [88.7,94.6]        | 7.8                      | [5.4,11.3]        | 0.0        |                  | 100.0         |
| No chronic disease (n=773)                          | 90.1        | [87.5,92.2]        | 9.6                      | [7.5,12.1]        | 0.3        | [0.1,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.0999      |                    |                          |                   |            |                  |               |
| Design-based F(2.00, 2344.66) =                     | 0.9644      | Pr =               | 0.381                    |                   |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                          |                   |            |                  |               |
| MH/SA (HEDIS) (n=696)                               | 89.2        | [86.3,91.6]        | 10.5                     | [8.1,13.4]        | 0.3        | [0.1,1.3]        | 100.0         |
| No MH/SA (n=490)                                    | 92.8        | [89.9,94.9]        | 7.1                      | [5.0,10.0]        | 0.1        | [0.0,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.3396      |                    |                          |                   |            |                  |               |
| Design-based F(1.91, 2245.86) =                     | 2.1737      | Pr =               | 0.116                    |                   |            |                  |               |
| <b>Total (n=1,186)</b>                              | <b>90.7</b> | <b>[88.7,92.4]</b> | <b>9.1</b>               | <b>[7.4,11.1]</b> | <b>0.2</b> | <b>[0.1,0.8]</b> | <b>100.0</b>  |



#### 4.48 Q: In the last 12 months, did you receive any advice or assistance from a health professional or your health plan on how to quit smoking?

Universe: Respondents who smoked or used tobacco in the last 30 days

|   | Received assistance with quitting |                    |             |                    |            |                  | Total<br>Row% |
|---|-----------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                               |                    | No          |                    | Don't know |                  |               |
|   | Row%                              | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                   |                    |             |                    |            |                  |               |
| 0-35% (n=725)                                       | 55.3                              | [50.6,59.9]        | 44.1        | [39.5,48.8]        | 0.6        | [0.3,1.4]        | 100.0         |
| 36-99% (n=488)                                      | 52.5                              | [47.0,58.0]        | 46.9        | [41.4,52.4]        | 0.6        | [0.2,2.1]        | 100.0         |
| ≥ 100%(n = 318)                                     | 51.6                              | [45.3,57.8]        | 48.2        | [42.0,54.4]        | 0.2        | [0.0,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 2.0986                            |                    |             |                    |            |                  |               |
| Design-based F(3.62, 5504.10) =                     | 0.5052                            | Pr =               | 0.714       |                    |            |                  |               |
| <b>Region</b>                                       |                                   |                    |             |                    |            |                  |               |
| UP/NW/NE (n=310)                                    | 58.2                              | [51.8,64.4]        | 41.4        | [35.3,47.9]        | 0.3        | [0.0,2.2]        | 100.0         |
| W/E Central/E (n=512)                               | 53.6                              | [48.6,58.6]        | 45.5        | [40.5,50.5]        | 0.9        | [0.4,2.3]        | 100.0         |
| S Central/SW/SE (n=315)                             | 56.3                              | [49.5,62.8]        | 43.6        | [37.1,50.3]        | 0.2        | [0.0,1.1]        | 100.0         |
| Detroit Metro (n=394)                               | 52.3                              | [46.1,58.4]        | 47.2        | [41.0,53.4]        | 0.5        | [0.2,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 4.2706                            |                    |             |                    |            |                  |               |
| Design-based F(4.75, 7208.24) =                     | 0.7021                            | Pr =               | 0.614       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                   |                    |             |                    |            |                  |               |
| Yes (n=205)   | 24.3                              | [17.3,32.9]        | 75.7        | [67.1,82.7]        | 0.0        |                  | 100.0         |
| No (n=1,326)  | 60.0                              | [56.5,63.4]        | 39.3        | [36.0,42.8]        | 0.7        | [0.3,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 113.7792                          |                    |             |                    |            |                  |               |
| Design-based F(1.78, 2698.34) =                     | 36.0361                           | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                                   |                    |             |                    |            |                  |               |
| Yes (n=82)  | 58.7                              | [43.8,72.1]        | 41.3        | [27.9,56.2]        | 0.0        |                  | 100.0         |
| No (n=1,449)  | 53.7                              | [50.4,57.1]        | 45.7        | [42.3,49.0]        | 0.6        | [0.3,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2953                            |                    |             |                    |            |                  |               |
| Design-based F(1.79, 2722.15) =                     | 0.4134                            | Pr =               | 0.639       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=500)                     | 70.0                              | [64.8,74.8]        | 29.7        | [24.9,35.0]        | 0.3        | [0.0,2.0]        | 100.0         |
| No chronic disease (n=1,031)                        | 47.8                              | [43.8,51.9]        | 51.5        | [47.5,55.5]        | 0.6        | [0.3,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 61.1017                           |                    |             |                    |            |                  |               |
| Design-based F(1.97, 2995.76) =                     | 23.1767                           | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=887)                               | 58.6                              | [54.3,62.8]        | 40.7        | [36.6,45.0]        | 0.7        | [0.3,1.5]        | 100.0         |
| No MH/SA (n=644)                                    | 47.9                              | [42.9,53.1]        | 51.7        | [46.6,56.8]        | 0.4        | [0.1,1.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 18.5215                           |                    |             |                    |            |                  |               |
| Design-based F(1.84, 2796.84) =                     | 6.8736                            | Pr =               | 0.001       |                    |            |                  |               |
| <b>Total (n=1,531)</b>                              | <b>54.0</b>                       | <b>[50.8,57.3]</b> | <b>45.4</b> | <b>[42.2,48.7]</b> | <b>0.5</b> | <b>[0.3,1.1]</b> | <b>100.0</b>  |

**4.49 Q: In the last 30 days, have you used drugs or medications to affect your mood or help you relax? This includes prescription drugs taken differently than how you were told to take them, as well as street drugs.**

Universe: All respondents

|   | Any drug use past 30 days |                  |             |                    |            |                  |              | Total<br>Row% |
|---|---------------------------|------------------|-------------|--------------------|------------|------------------|--------------|---------------|
|   | Yes                       |                  | No          |                    | Don't know |                  |              |               |
|   | Row%                      | 95%CI            | Row%        | 95%CI              | Row%       | 95%CI            |              |               |
| <b>FPL category</b>                                 |                           |                  |             |                    |            |                  |              |               |
| 0-35% (n=1,599)                                     | 7.5                       | [6.0,9.4]        | 92.3        | [90.5,93.8]        | 0.2        | [0.0,0.6]        | 100.0        |               |
| 36-99% (n=1,448)                                    | 4.8                       | [3.7,6.2]        | 95.2        | [93.8,96.3]        | 0.0        |                  | 100.0        |               |
| ≥ 100% (n = 1,039)                                  | 3.4                       | [2.4,4.9]        | 96.6        | [95.1,97.6]        | 0.0        |                  | 100.0        |               |
| Pearson: Uncorrected chi2(4) =                      | 24.4554                   |                  |             |                    |            |                  |              |               |
| Design-based F(3.27, 13301.74) =                    | 5.6685                    | Pr =             | 0.000       |                    |            |                  |              |               |
| <b>Region</b>                                       |                           |                  |             |                    |            |                  |              |               |
| UP/NW/NE (n=745)                                    | 5.8                       | [4.2,8.1]        | 94.2        | [91.9,95.8]        | 0.0        |                  | 100.0        |               |
| W/E Central/E (n=1,263)                             | 5.8                       | [4.5,7.4]        | 94.1        | [92.5,95.4]        | 0.1        | [0.0,0.8]        | 100.0        |               |
| S Central/SW/SE (n=837)                             | 5.7                       | [4.2,7.6]        | 94.3        | [92.4,95.8]        | 0.0        |                  | 100.0        |               |
| Detroit Metro (n=1,241)                             | 6.2                       | [4.6,8.3]        | 93.7        | [91.6,95.3]        | 0.1        | [0.0,0.7]        | 100.0        |               |
| Pearson: Uncorrected chi2(6) =                      | 1.6324                    |                  |             |                    |            |                  |              |               |
| Design-based F(4.79, 19513.47) =                    | 0.2286                    | Pr =             | 0.945       |                    |            |                  |              |               |
| <b>Low healthcare utilizers</b>                     |                           |                  |             |                    |            |                  |              |               |
| Yes (n=490)   | 9.6                       | [6.6,13.9]       | 90.1        | [85.9,93.2]        | 0.2        | [0.0,1.5]        | 100.0        |               |
| No (n=3,596)  | 5.3                       | [4.4,6.3]        | 94.7        | [93.6,95.5]        | 0.1        | [0.0,0.4]        | 100.0        |               |
| Pearson: Uncorrected chi2(2) =                      | 19.8630                   |                  |             |                    |            |                  |              |               |
| Design-based F(1.94, 7894.92) =                     | 5.2401                    | Pr =             | 0.006       |                    |            |                  |              |               |
| <b>High ER utilizers</b>                            |                           |                  |             |                    |            |                  |              |               |
| Yes (n=156)   | 15.1                      | [8.1,26.2]       | 84.9        | [73.8,91.9]        | 0.0        |                  | 100.0        |               |
| No (n=3,930)  | 5.5                       | [4.7,6.5]        | 94.4        | [93.4,95.2]        | 0.1        | [0.0,0.3]        | 100.0        |               |
| Pearson: Uncorrected chi2(2) =                      | 28.1736                   |                  |             |                    |            |                  |              |               |
| Design-based F(1.87, 7619.69) =                     | 6.3684                    | Pr =             | 0.002       |                    |            |                  |              |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |                  |             |                    |            |                  |              |               |
| Chronic disease (HEDIS) (n=1,161)                   | 7.0                       | [5.4,9.0]        | 92.9        | [90.8,94.5]        | 0.2        | [0.0,1.3]        | 100.0        |               |
| No chronic disease (n=2,925)                        | 5.6                       | [4.6,6.9]        | 94.3        | [93.1,95.4]        | 0.0        | [0.0,0.3]        | 100.0        |               |
| Pearson: Uncorrected chi2(2) =                      | 4.3235                    |                  |             |                    |            |                  |              |               |
| Design-based F(2.00, 8145.77) =                     | 1.4129                    | Pr =             | 0.244       |                    |            |                  |              |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |                  |             |                    |            |                  |              |               |
| MH/SA (HEDIS) (n=2,033)                             | 7.9                       | [6.4,9.6]        | 92.1        | [90.4,93.6]        | 0.0        |                  | 100.0        |               |
| No MH/SA (n=2,053)                                  | 4.2                       | [3.2,5.5]        | 95.7        | [94.4,96.7]        | 0.2        | [0.0,0.6]        | 100.0        |               |
| Pearson: Uncorrected chi2(2) =                      | 27.8661                   |                  |             |                    |            |                  |              |               |
| Design-based F(1.99, 8127.39) =                     | 8.1268                    | Pr =             | 0.000       |                    |            |                  |              |               |
| <b>Total (n=4,086)</b>                              | <b>5.9</b>                | <b>[5.1,7.0]</b> | <b>94.0</b> | <b>[92.9,94.9]</b> | <b>0.1</b> | <b>[0.0,0.3]</b> | <b>100.0</b> |               |

## 4.50 Q: How often?

Universe: Respondents who used drugs or medications to affect mood or help them relax

|   | Drug use frequency |                    |             |                    |             |                    |            |                  | Total<br>Row% |
|---|--------------------|--------------------|-------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Almost every day   |                    | Sometimes   |                    | Rarely      |                    | Never      |                  |               |
|   | Row%               | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                    |                    |             |                    |             |                    |            |                  |               |
| 0-35% (n=114)                                       | 55.4               | [43.7,66.5]        | 28.8        | [19.5,40.2]        | 14.4        | [7.8,25.1]         | 1.4        | [0.3,5.8]        | 100.0         |
| 36-99% (n=73)                                       | 51.4               | [38.3,64.2]        | 29.1        | [18.7,42.2]        | 19.6        | [10.6,33.4]        | 0.0        |                  | 100.0         |
| ≥ 100% (n = 35)                                     | 41.3               | [25.2,59.5]        | 27.0        | [12.9,48.0]        | 31.7        | [16.6,52.0]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 5.7528             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(5.07, 1064.22) =                     | 0.9506             | Pr =               | 0.448       |                    |             |                    |            |                  |               |
| <b>Region</b>                                       |                    |                    |             |                    |             |                    |            |                  |               |
| UP/NW/NE (n=40)                                     | 55.6               | [38.3,71.7]        | 25.1        | [13.1,42.6]        | 19.3        | [9.1,36.4]         | 0.0        |                  | 100.0         |
| W/E Central/E (n=74)                                | 46.7               | [34.5,59.3]        | 34.4        | [23.2,47.7]        | 16.8        | [9.2,28.5]         | 2.1        | [0.3,13.6]       | 100.0         |
| S Central/SW/SE (n=48)                              | 39.3               | [25.4,55.3]        | 33.6        | [20.6,49.6]        | 25.0        | [14.2,40.2]        | 2.0        | [0.3,13.4]       | 100.0         |
| Detroit Metro (n=60)                                | 61.3               | [45.2,75.3]        | 23.8        | [13.0,39.7]        | 14.9        | [6.5,30.6]         | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(9) =                      | 9.3631             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(6.98, 1465.54) =                     | 0.9754             | Pr =               | 0.447       |                    |             |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                    |                    |             |                    |             |                    |            |                  |               |
| Yes (n=41)  | 44.1               | [26.1,63.9]        | 40.0        | [22.3,60.7]        | 15.9        | [5.9,36.4]         | 0.0        |                  | 100.0         |
| No (n=181)  | 55.7               | [46.8,64.3]        | 24.9        | [18.3,32.9]        | 18.1        | [12.1,26.4]        | 1.2        | [0.3,5.1]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.1259             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(2.82, 591.70) =                      | 0.9758             | Pr =               | 0.400       |                    |             |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                    |                    |             |                    |             |                    |            |                  |               |
| Yes (n=17)  | 54.6               | [23.7,82.4]        | 38.0        | [13.0,71.6]        | 4.2         | [0.5,26.3]         | 3.2        | [0.4,21.0]       | 100.0         |
| No (n=205)  | 52.6               | [44.2,61.0]        | 27.4        | [20.7,35.4]        | 19.3        | [13.1,27.4]        | 0.6        | [0.1,4.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.2326             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(2.40, 504.40) =                      | 1.0420             | Pr =               | 0.363       |                    |             |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                    |                    |             |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=72)                      | 60.2               | [46.9,72.2]        | 26.0        | [15.8,39.9]        | 11.8        | [6.4,20.5]         | 2.0        | [0.3,12.8]       | 100.0         |
| No chronic disease (n=150)                          | 49.8               | [39.3,60.3]        | 29.7        | [21.0,40.1]        | 20.0        | [12.7,30.0]        | 0.5        | [0.1,3.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.9993             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(2.89, 607.09) =                      | 1.1663             | Pr =               | 0.321       |                    |             |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                    |                    |             |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=147)                               | 52.3               | [41.8,62.5]        | 24.8        | [16.9,34.8]        | 21.5        | [14.0,31.4]        | 1.5        | [0.3,5.9]        | 100.0         |
| No MH/SA (n=75)                                     | 53.9               | [39.6,67.6]        | 35.4        | [23.0,50.0]        | 10.7        | [4.4,23.9]         | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 6.5595             |                    |             |                    |             |                    |            |                  |               |
| Design-based F(2.89, 607.22) =                      | 1.4402             | Pr =               | 0.231       |                    |             |                    |            |                  |               |
| <b>Total (n=222)</b>                                | <b>52.9</b>        | <b>[44.4,61.2]</b> | <b>28.6</b> | <b>[21.6,36.9]</b> | <b>17.6</b> | <b>[12.0,25.0]</b> | <b>0.9</b> | <b>[0.2,3.8]</b> | <b>100.0</b>  |

**4.51 Q: In the last 12 months, has a doctor, nurse, or other health professional talked with you about your use of these drugs or medications?**

*Universe:* Respondents who use drugs or medications to affect mood or help them relax sometimes or almost every day

|   | Health professional talk about drugs past 12 months |                    |             |                    | Total<br>Row% |
|---|---|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%   | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |   |                    |             |                    |               |
| 0-35% (n=96)  | 35.0  | [25.2,46.3]        | 65.0        | [53.7,74.8]        | 100.0         |
| 36-99% (n=58)                                       | 43.7  | [29.9,58.6]        | 56.3        | [41.4,70.1]        | 100.0         |
| ≥ 100%(n = 25)                                      | 35.9  | [18.4,58.2]        | 64.1        | [41.8,81.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0006  |                    |             |                    |               |
| Design-based F(1.96, 327.70) =                      | 0.5039  | Pr =               | 0.601       |                    |               |
| <b>Region</b>                                       |   |                    |             |                    |               |
| UP/NW/NE (n=32)                                     | 36.2  | [20.2,55.9]        | 63.8        | [44.1,79.8]        | 100.0         |
| W/E Central/E (n=61)                                | 47.0  | [33.4,61.1]        | 53.0        | [38.9,66.6]        | 100.0         |
| S Central/SW/SE (n=34)                              | 51.9  | [33.7,69.6]        | 48.1        | [30.4,66.3]        | 100.0         |
| Detroit Metro (n=52)                                | 26.6  | [15.9,41.0]        | 73.4        | [59.0,84.1]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 8.8183  |                    |             |                    |               |
| Design-based F(2.72, 454.96) =                      | 2.7934  | Pr =               | 0.045       |                    |               |
| <b>Low healthcare utilizers</b>                     |   |                    |             |                    |               |
| Yes (n=34)  | 21.5  | [10.6,38.7]        | 78.5        | [61.3,89.4]        | 100.0         |
| No (n=145)  | 42.4  | [33.2,52.2]        | 57.6        | [47.8,66.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.4171  |                    |             |                    |               |
| Design-based F(1.00, 167.00) =                      | 4.7172  | Pr =               | 0.031       |                    |               |
| <b>High ER utilizers</b>                            |   |                    |             |                    |               |
| Yes (n=15)  | 31.2  | [10.6,63.4]        | 68.8        | [36.6,89.4]        | 100.0         |
| No (n=164)  | 37.9  | [29.8,46.8]        | 62.1        | [53.2,70.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3802  |                    |             |                    |               |
| Design-based F(1.00, 167.00) =                      | 0.1775  | Pr =               | 0.674       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                    |             |                    |               |
| Chronic disease (HEDIS) (n=59)                      | 55.7  | [40.8,69.6]        | 44.3        | [30.4,59.2]        | 100.0         |
| No chronic disease (n=120)                          | 28.6  | [20.6,38.4]        | 71.4        | [61.6,79.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 12.0382   |                    |             |                    |               |
| Design-based F(1.00, 167.00) =                      | 9.6056  | Pr =               | 0.002       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                    |             |                    |               |
| MH/SA (HEDIS) (n=114)                               | 42.2  | [31.6,53.7]        | 57.8        | [46.3,68.4]        | 100.0         |
| No MH/SA (n=65)                                     | 29.2  | [18.4,43.0]        | 70.8        | [57.0,81.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.1284  |                    |             |                    |               |
| Design-based F(1.00, 167.00) =                      | 2.1933  | Pr =               | 0.140       |                    |               |
| <b>Total (n=179)</b>                                | <b>37.1</b>   | <b>[29.2,45.7]</b> | <b>62.9</b> | <b>[54.3,70.8]</b> | <b>100.0</b>  |

**4.52 Q: In the 12 months before enrolling in the Healthy Michigan Plan, was there a place that you usually would go for checkups, when you felt sick, or when you wanted advice about your health?**

Universe: All respondents

|   | Regular place of care before HMP–YN |                    |             |                    |            |                  |            |                  | Total<br>Row% |  |
|---|-------------------------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|---------------|--|
|   | Yes                                 |                    | No          |                    | NA         |                  | Don't know |                  |               |  |
|   | Row%                                | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%          |  |
| <b>FPL category</b>                                 |                                     |                    |             |                    |            |                  |            |                  |               |  |
| 0-35% (n=1,597)                                     | 72.2                                | [69.4,74.9]        | 25.3        | [22.7,28.1]        | 2.4        | [1.6,3.7]        | 0.0        | [0.0,0.3]        | 100.0         |  |
| 36-99% (n=1,448)                                    | 74.1                                | [71.2,76.8]        | 24.4        | [21.8,27.2]        | 1.3        | [0.8,2.3]        | 0.1        | [0.0,1.0]        | 100.0         |  |
| ≥ 100% (n = 1,039)                                  | 77.3                                | [74.2,80.1]        | 20.1        | [17.4,23.1]        | 2.2        | [1.4,3.5]        | 0.4        | [0.1,1.6]        | 100.0         |  |
| Pearson: Uncorrected chi2(6) =                      | 18.7672                             |                    |             |                    |            |                  |            |                  |               |  |
| Design-based F(5.79, 23591.22) =                    | 2.2809                              | Pr =               | 0.035       |                    |            |                  |            |                  |               |  |
| <b>Region</b>                                       |                                     |                    |             |                    |            |                  |            |                  |               |  |
| UP/NW/NE (n=746)                                    | 75.2                                | [71.5,78.6]        | 23.1        | [19.9,26.7]        | 1.6        | [0.8,2.9]        | 0.1        | [0.0,0.7]        | 100.0         |  |
| W/E Central/E (n=1,262)                             | 73.8                                | [70.8,76.5]        | 23.8        | [21.2,26.6]        | 2.3        | [1.4,3.8]        | 0.1        | [0.0,0.6]        | 100.0         |  |
| S Central/SW/SE (n=835)                             | 73.4                                | [69.8,76.7]        | 24.2        | [21.0,27.7]        | 2.1        | [1.2,3.6]        | 0.3        | [0.0,2.0]        | 100.0         |  |
| Detroit Metro (n=1,241)                             | 73.6                                | [70.4,76.6]        | 24.3        | [21.3,27.4]        | 2.0        | [1.2,3.3]        | 0.1        | [0.0,0.6]        | 100.0         |  |
| Pearson: Uncorrected chi2(9) =                      | 2.5035                              |                    |             |                    |            |                  |            |                  |               |  |
| Design-based F(7.48, 30440.86) =                    | 0.2214                              | Pr =               | 0.984       |                    |            |                  |            |                  |               |  |
| <b>Low healthcare utilizers</b>                     |                                     |                    |             |                    |            |                  |            |                  |               |  |
| Yes (n=490)   | 63.9                                | [58.2,69.2]        | 31.7        | [26.7,37.3]        | 4.3        | [2.5,7.4]        | 0.0        |                  | 100.0         |  |
| No (n=3,594)  | 75.5                                | [73.7,77.3]        | 22.6        | [20.9,24.4]        | 1.7        | [1.2,2.3]        | 0.2        | [0.1,0.5]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 47.2023                             |                    |             |                    |            |                  |            |                  |               |  |
| Design-based F(2.95, 12016.92) =                    | 8.4016                              | Pr =               | 0.000       |                    |            |                  |            |                  |               |  |
| <b>High ER utilizers</b>                            |                                     |                    |             |                    |            |                  |            |                  |               |  |
| Yes (n=156)   | 86.0                                | [79.2,90.8]        | 14.0        | [9.2,20.8]         | 0.0        |                  | 0.0        |                  | 100.0         |  |
| No (n=3,928)  | 73.2                                | [71.4,75.0]        | 24.5        | [22.8,26.3]        | 2.2        | [1.6,2.9]        | 0.2        | [0.1,0.4]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 15.8910                             |                    |             |                    |            |                  |            |                  |               |  |
| Design-based F(2.91, 11858.58) =                    | 3.3670                              | Pr =               | 0.019       |                    |            |                  |            |                  |               |  |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                    |             |                    |            |                  |            |                  |               |  |
| Chronic disease (HEDIS) (n=1,160)                   | 80.1                                | [76.9,83.0]        | 18.1        | [15.3,21.2]        | 1.8        | [1.0,3.1]        | 0.0        | [0.0,0.2]        | 100.0         |  |
| No chronic disease (n=2,924)                        | 71.6                                | [69.5,73.7]        | 26.0        | [24.0,28.1]        | 2.2        | [1.5,3.0]        | 0.2        | [0.1,0.5]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 29.6853                             |                    |             |                    |            |                  |            |                  |               |  |
| Design-based F(2.46, 10033.56) =                    | 8.1452                              | Pr =               | 0.000       |                    |            |                  |            |                  |               |  |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                    |             |                    |            |                  |            |                  |               |  |
| MH/SA (HEDIS) (n=2,030)                             | 76.2                                | [73.7,78.5]        | 22.3        | [20.1,24.7]        | 1.4        | [0.8,2.2]        | 0.2        | [0.0,0.7]        | 100.0         |  |
| No MH/SA (n=2,054)                                  | 71.5                                | [68.9,74.0]        | 25.6        | [23.3,28.2]        | 2.7        | [1.9,3.9]        | 0.1        | [0.0,0.5]        | 100.0         |  |
| Pearson: Uncorrected chi2(3) =                      | 17.3214                             |                    |             |                    |            |                  |            |                  |               |  |
| Design-based F(2.98, 12121.27) =                    | 3.4748                              | Pr =               | 0.016       |                    |            |                  |            |                  |               |  |
| <b>Total (n=4,084)</b>                              | <b>73.8</b>                         | <b>[72.0,75.5]</b> | <b>24.0</b> | <b>[22.4,25.8]</b> | <b>2.1</b> | <b>[1.5,2.8]</b> | <b>0.1</b> | <b>[0.1,0.4]</b> | <b>100.0</b>  |  |

### 4.53 Q: What kind of a place was it?

Universe: Respondents who had a usual place to go to for checkups, when feeling sick, or when they wanted advice about their health

|   | Regular place of care before HMP—location |             |                 |             |                     |             |                |             |             |           |            |           | Total<br>Row% |
|---|---|-------------|-----------------|-------------|---------------------|-------------|----------------|-------------|-------------|-----------|------------|-----------|---------------|
|   | Clinic                                    |             | Doctor's office |             | Urgent care/walk-in |             | Emergency room |             | Other place |           | Don't know |           |               |
|   | Row%                                      | 95%CI       | Row%            | 95%CI       | Row%                | 95%CI       | Row%           | 95%CI       | Row%        | 95%CI     | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| 0-35% (n=1,155)                                     | 16.7                                      | [14.1,19.5] | 44.0            | [40.3,47.7] | 15.4                | [12.9,18.3] | 22.3           | [19.4,25.4] | 1.7         | [1.1,2.7] | 0.0        |           | 100.0         |
| 36-99% (n=1,092)                                    | 17.1                                      | [14.6,20.0] | 51.4            | [47.8,55.0] | 18.0                | [15.5,20.9] | 10.9           | [8.7,13.6]  | 2.4         | [1.4,4.1] | 0.1        | [0.0,0.6] | 100.0         |
| ≥ 100% (n = 804)                                    | 18.4                                      | [15.4,21.8] | 53.0            | [48.9,57.0] | 18.7                | [15.8,21.9] | 8.8            | [6.8,11.4]  | 1.0         | [0.4,2.1] | 0.2        | [0.0,1.1] | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 93.4379                                   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Design-based F(9.42, 28621.50) =                    | 7.3879                                    | Pr =        | 0.000           |             |                     |             |                |             |             |           |            |           |               |
| <b>Region</b>                                       |   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| UP/NW/NE (n=562)                                    | 21.0                                      | [17.5,25.0] | 48.0            | [43.3,52.8] | 21.3                | [17.6,25.4] | 8.0            | [5.8,11.0]  | 1.7         | [0.9,3.2] | 0.0        |           | 100.0         |
| W/E Central/E (n=939)                               | 15.6                                      | [13.1,18.4] | 49.2            | [45.5,52.9] | 18.7                | [15.9,21.8] | 13.9           | [11.4,16.8] | 2.5         | [1.6,3.9] | 0.2        | [0.0,0.8] | 100.0         |
| S Central/SW/SE (n=610)                             | 18.2                                      | [14.9,22.0] | 47.3            | [42.4,52.3] | 16.9                | [13.4,21.1] | 16.9           | [13.3,21.3] | 0.6         | [0.2,2.1] | 0.0        |           | 100.0         |
| Detroit Metro (n=940)                               | 16.9                                      | [14.1,20.2] | 47.4            | [43.4,51.4] | 14.6                | [12.0,17.7] | 19.2           | [16.3,22.5] | 1.8         | [1.0,3.1] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 46.4041                                   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Design-based F(12.36, 37566.48) =                   | 2.7285                                    | Pr =        | 0.001           |             |                     |             |                |             |             |           |            |           |               |
| <b>Low healthcare utilizers</b>                     |   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Yes (n=308)   | 10.7                                      | [7.3,15.4]  | 42.7            | [35.5,50.2] | 25.7                | [19.3,33.4] | 19.8           | [15.0,25.7] | 1.1         | [0.3,3.4] | 0.0        |           | 100.0         |
| No (n=2,743)  | 18.1                                      | [16.4,20.0] | 48.7            | [46.4,51.1] | 15.5                | [13.9,17.1] | 15.7           | [13.9,17.6] | 1.9         | [1.4,2.6] | 0.1        | [0.0,0.3] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 40.7422                                   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Design-based F(4.57, 13892.95) =                    | 4.7195                                    | Pr =        | 0.000           |             |                     |             |                |             |             |           |            |           |               |
| <b>High ER utilizers</b>                            |   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Yes (n=129)   | 10.1                                      | [5.9,16.8]  | 44.0            | [33.0,55.6] | 15.0                | [8.5,25.0]  | 29.4           | [20.7,39.7] | 1.6         | [0.5,5.3] | 0.0        |           | 100.0         |
| No (n=2,922)  | 17.5                                      | [15.8,19.4] | 48.2            | [45.8,50.5] | 16.9                | [15.3,18.7] | 15.5           | [13.8,17.4] | 1.8         | [1.3,2.5] | 0.1        | [0.0,0.2] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 23.3631                                   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Design-based F(4.43, 13455.54) =                    | 3.1819                                    | Pr =        | 0.010           |             |                     |             |                |             |             |           |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Chronic disease (HEDIS) (n=943)                     | 20.4                                      | [17.4,23.7] | 48.9            | [44.9,52.8] | 13.8                | [11.3,16.7] | 15.1           | [12.5,18.2] | 1.9         | [1.0,3.6] | 0.0        |           | 100.0         |
| No chronic disease (n=2,108)                        | 15.9                                      | [14.0,18.1] | 47.6            | [44.8,50.4] | 18.0                | [16.0,20.2] | 16.7           | [14.6,18.9] | 1.7         | [1.2,2.5] | 0.1        | [0.0,0.3] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 15.1483                                   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Design-based F(4.84, 14693.93) =                    | 2.1877                                    | Pr =        | 0.055           |             |                     |             |                |             |             |           |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| MH/SA (HEDIS) (n=1,571)                             | 17.2                                      | [15.0,19.6] | 47.2            | [44.0,50.4] | 15.7                | [13.5,18.1] | 17.5           | [15.2,20.1] | 2.4         | [1.6,3.5] | 0.1        | [0.0,0.5] | 100.0         |
| No MH/SA (n=1,480)                                  | 17.1                                      | [14.8,19.8] | 48.7            | [45.4,52.0] | 18.0                | [15.6,20.6] | 15.0           | [12.6,17.7] | 1.2         | [0.7,2.0] | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 12.1221                                   |             |                 |             |                     |             |                |             |             |           |            |           |               |
| Design-based F(4.75, 14442.90) =                    | 1.6456                                    | Pr =        | 0.148           |             |                     |             |                |             |             |           |            |           |               |
| <b>Total (n=3,051)</b>                              | 17.2                                      | [15.5,18.9] | 47.9            | [45.7,50.2] | 16.8                | [15.2,18.6] | 16.2           | [14.6,18.1] | 1.8         | [1.3,2.4] | 0.1        | [0.0,0.2] | 100.0         |

**4.54 Q: In the last 12 months, is there a place you usually go when you need a checkup, feel sick, or want advice about your health?**

Universe: All respondents

|   | Regular place of care past 12 months–YN |                    |            |                  |            |                  | Total<br>Row% |
|---|---|--------------------|------------|------------------|------------|------------------|---------------|
|   | Yes                                     |                    | No         |                  | NA         |                  |               |
|   | Row%                                    | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |   |                    |            |                  |            |                  |               |
| 0-35% (n=1,599)                                     | 91.2                                    | [88.9,93.1]        | 7.0        | [5.4,9.1]        | 1.7        | [0.9,3.3]        | 100.0         |
| 36-99% (n=1,449)                                    | 94.0                                    | [92.3,95.4]        | 5.3        | [3.9,7.0]        | 0.7        | [0.4,1.4]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 92.1                                    | [89.6,94.0]        | 5.6        | [4.0,7.7]        | 2.4        | [1.4,4.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 14.3237                                 |                    |            |                  |            |                  |               |
| Design-based F(3.65, 14868.51) =                    | 2.0662                                  | Pr =               | 0.089      |                  |            |                  |               |
| <b>Region</b>                                       |   |                    |            |                  |            |                  |               |
| UP/NW/NE (n=746)                                    | 95.1                                    | [93.0,96.6]        | 4.5        | [3.1,6.5]        | 0.4        | [0.1,1.4]        | 100.0         |
| W/E Central/E (n=1,264)                             | 93.9                                    | [92.0,95.4]        | 4.5        | [3.3,6.2]        | 1.5        | [0.9,2.7]        | 100.0         |
| S Central/SW/SE (n=837)                             | 91.4                                    | [88.3,93.7]        | 6.2        | [4.5,8.4]        | 2.4        | [1.1,5.5]        | 100.0         |
| Detroit Metro (n=1,241)                             | 90.8                                    | [88.2,92.9]        | 7.7        | [5.8,10.2]       | 1.5        | [0.7,3.0]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 21.5679                                 |                    |            |                  |            |                  |               |
| Design-based F(4.60, 18752.49) =                    | 2.0928                                  | Pr =               | 0.069      |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |   |                    |            |                  |            |                  |               |
| Yes (n=490)   | 71.0                                    | [65.0,76.3]        | 22.7       | [17.8,28.4]      | 6.3        | [3.8,10.3]       | 100.0         |
| No (n=3,598)  | 96.0                                    | [95.0,96.8]        | 3.3        | [2.6,4.2]        | 0.7        | [0.4,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 460.7073                                |                    |            |                  |            |                  |               |
| Design-based F(1.96, 7991.42) =                     | 90.9133                                 | Pr =               | 0.000      |                  |            |                  |               |
| <b>High ER utilizers</b>                            |   |                    |            |                  |            |                  |               |
| Yes (n=156)   | 95.7                                    | [85.5,98.8]        | 3.9        | [1.0,14.7]       | 0.3        | [0.0,2.4]        | 100.0         |
| No (n=3,932)  | 92.0                                    | [90.6,93.2]        | 6.3        | [5.3,7.6]        | 1.6        | [1.1,2.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.6723                                  |                    |            |                  |            |                  |               |
| Design-based F(1.34, 5461.28) =                     | 0.8650                                  | Pr =               | 0.382      |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |   |                    |            |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 98.1                                    | [96.9,98.8]        | 1.7        | [1.0,2.9]        | 0.2        | [0.1,0.7]        | 100.0         |
| No chronic disease (n=2,927)                        | 90.2                                    | [88.5,91.8]        | 7.7        | [6.4,9.3]        | 2.0        | [1.3,3.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 65.7479                                 |                    |            |                  |            |                  |               |
| Design-based F(1.94, 7900.15) =                     | 28.9546                                 | Pr =               | 0.000      |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |                    |            |                  |            |                  |               |
| MH/SA (HEDIS) (n=2,033)                             | 95.5                                    | [93.8,96.7]        | 4.1        | [2.9,5.8]        | 0.4        | [0.2,0.8]        | 100.0         |
| No MH/SA (n=2,055)                                  | 89.1                                    | [86.9,91.0]        | 8.2        | [6.6,10.1]       | 2.7        | [1.7,4.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 65.7628                                 |                    |            |                  |            |                  |               |
| Design-based F(1.88, 7649.97) =                     | 16.9740                                 | Pr =               | 0.000      |                  |            |                  |               |
| <b>Total (n=4,088)</b>                              | <b>92.2</b>                             | <b>[90.8,93.4]</b> | <b>6.2</b> | <b>[5.2,7.4]</b> | <b>1.6</b> | <b>[1.0,2.4]</b> | <b>100.0</b>  |

## 4.55 Q: What kind of a place was it?

Universe: Respondents who had a usual place to go to for checkups, when feeling sick, or when they wanted advice about their health

|   | Regular place of care past 12 months—location |             |                 |             |                     |            |                |            |             |           |            |           | Total<br>Row% |
|---|---|-------------|-----------------|-------------|---------------------|------------|----------------|------------|-------------|-----------|------------|-----------|---------------|
|   | Clinic  |             | Doctor's office |             | Urgent care/walk-in |            | Emergency room |            | Other place |           | Don't know |           |               |
|   | Row%  | 95%CI       | Row%            | 95%CI       | Row%                | 95%CI      | Row%           | 95%CI      | Row%        | 95%CI     | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |   |             |                 |             |                     |            |                |            |             |           |            |           |               |
| 0-35% (n=1,500)                                     | 17.0  | [14.7,19.5] | 74.3            | [71.4,77.0] | 6.0                 | [4.5,7.9]  | 1.9            | [1.3,2.8]  | 0.8         | [0.4,1.5] | 0.1        | [0.0,0.4] | 100.0         |
| 36-99% (n=1,373)                                    | 15.3  | [13.1,17.9] | 76.4            | [73.4,79.1] | 5.9                 | [4.4,7.9]  | 1.5            | [0.9,2.3]  | 0.9         | [0.4,1.9] | 0.0        |           | 100.0         |
| ≥ 100% (n = 977)                                    | 17.0  | [14.3,20.0] | 76.0            | [72.7,79.1] | 5.0                 | [3.6,6.9]  | 1.4            | [0.7,2.6]  | 0.6         | [0.3,1.3] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 5.5331  |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Design-based F(8.85, 33972.40) =                    | 0.4589  | Pr =        | 0.900           |             |                     |            |                |            |             |           |            |           |               |
| <b>Region</b>                                       |   |             |                 |             |                     |            |                |            |             |           |            |           |               |
| UP/NW/NE (n=711)                                    | 20.4  | [17.3,24.0] | 72.8            | [69.0,76.4] | 4.2                 | [2.7,6.4]  | 1.1            | [0.5,2.2]  | 1.5         | [0.7,3.0] | 0.0        |           | 100.0         |
| W/E Central/E (n=1,203)                             | 16.3  | [13.9,19.0] | 76.4            | [73.4,79.2] | 5.8                 | [4.3,7.7]  | 1.0            | [0.5,1.7]  | 0.5         | [0.2,1.4] | 0.0        |           | 100.0         |
| S Central/SW/SE (n=779)                             | 18.9  | [16.0,22.2] | 72.1            | [68.3,75.6] | 5.4                 | [3.7,7.8]  | 2.8            | [1.7,4.6]  | 0.7         | [0.3,1.8] | 0.2        | [0.0,1.1] | 100.0         |
| Detroit Metro (n=1,157)                             | 14.8  | [12.3,17.6] | 76.3            | [73.0,79.3] | 6.3                 | [4.6,8.5]  | 1.8            | [1.2,2.8]  | 0.9         | [0.4,1.7] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 30.7755                                       |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Design-based F(12.20, 46840.67) =                   | 1.8301  | Pr =        | 0.037           |             |                     |            |                |            |             |           |            |           |               |
| <b>Low healthcare utilizers</b>                     |   |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Yes (n=365)   | 16.3  | [11.9,22.0] | 61.8            | [55.1,68.0] | 13.8                | [9.5,19.5] | 6.0            | [4.0,9.0]  | 1.9         | [0.9,4.2] | 0.2        | [0.0,1.7] | 100.0         |
| No (n=3,485)  | 16.5  | [15.0,18.2] | 77.0            | [75.2,78.8] | 4.7                 | [3.8,5.8]  | 1.1            | [0.8,1.6]  | 0.6         | [0.4,1.0] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 142.7994                                      |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Design-based F(4.62, 17738.62) =                    | 17.3108                                       | Pr =        | 0.000           |             |                     |            |                |            |             |           |            |           |               |
| <b>High ER utilizers</b>                            |   |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Yes (n=152)   | 9.9   | [5.9,16.1]  | 79.0            | [70.8,85.4] | 3.1                 | [1.3,7.0]  | 6.0            | [2.8,12.6] | 2.1         | [0.7,6.0] | 0.0        |           | 100.0         |
| No (n=3,698)  | 16.8  | [15.3,18.4] | 75.1            | [73.2,76.8] | 5.9                 | [4.9,7.1]  | 1.5            | [1.1,2.0]  | 0.7         | [0.5,1.1] | 0.0        | [0.0,0.2] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 32.3279                                       |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Design-based F(4.86, 18666.66) =                    | 5.1190  | Pr =        | 0.000           |             |                     |            |                |            |             |           |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |   |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Chronic disease (HEDIS) (n=1,139)                   | 17.0  | [14.3,20.1] | 77.5            | [74.2,80.6] | 3.5                 | [2.3,5.3]  | 1.3            | [0.7,2.5]  | 0.6         | [0.3,1.4] | 0.0        |           | 100.0         |
| No chronic disease (n=2,711)                        | 16.3  | [14.6,18.2] | 74.4            | [72.2,76.5] | 6.6                 | [5.4,8.1]  | 1.8            | [1.3,2.5]  | 0.8         | [0.5,1.4] | 0.0        | [0.0,0.3] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 15.9110                                       |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Design-based F(4.82, 18506.85) =                    | 2.2343  | Pr =        | 0.050           |             |                     |            |                |            |             |           |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |   |             |                 |             |                     |            |                |            |             |           |            |           |               |
| MH/SA (HEDIS) (n=1,968)                             | 15.6  | [13.7,17.7] | 77.6            | [75.2,79.9] | 4.5                 | [3.4,6.0]  | 1.4            | [0.9,2.1]  | 0.9         | [0.5,1.6] | 0.0        |           | 100.0         |
| No MH/SA (n=1,882)                                  | 17.4  | [15.2,19.8] | 72.8            | [70.1,75.4] | 7.0                 | [5.6,8.9]  | 2.0            | [1.4,2.8]  | 0.7         | [0.3,1.3] | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 19.7960                                       |             |                 |             |                     |            |                |            |             |           |            |           |               |
| Design-based F(4.81, 18455.31) =                    | 2.6298  | Pr =        | 0.024           |             |                     |            |                |            |             |           |            |           |               |
| <b>Total (n=3,850)</b>                              | 16.5  | [15.0,18.1] | 75.2            | [73.4,77.0] | 5.8                 | [4.8,6.9]  | 1.7            | [1.3,2.2]  | 0.8         | [0.5,1.2] | 0.0        | [0.0,0.2] | 100.0         |



## 4.56 Q: Is this the same place that you went to before you enrolled in the Healthy Michigan Plan?

Universe: Respondents who usually go to a doctor's office or clinic

|   | Yes         |                    | Regular place same? |                    | No         |                  | Don't know |       | Total<br>Row% |
|---|-------------|--------------------|---------------------|--------------------|------------|------------------|------------|-------|---------------|
|   | Row%        | 95%CI              | Row%                | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI |               |
| <b>FPL category</b>                                 |             |                    |                     |                    |            |                  |            |       |               |
| 0-35% (n=1,378)                                     | 35.2        | [32.0,38.5]        | 64.7                | [61.4,67.9]        | 0.1        | [0.0,0.6]        |            |       | 100.0         |
| 36-99% (n=1,270)                                    | 41.8        | [38.6,45.2]        | 58.0                | [54.7,61.3]        | 0.1        | [0.0,0.8]        |            |       | 100.0         |
| ≥ 100% (n = 903)                                    | 46.4        | [42.6,50.2]        | 53.6                | [49.8,57.4]        | 0.0        |                  |            |       | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 31.3193     |                    |                     |                    |            |                  |            |       |               |
| Design-based F(3.90, 13806.87) =                    | 5.7768      | Pr =               | 0.000               |                    |            |                  |            |       |               |
| <b>Region</b>                                       |             |                    |                     |                    |            |                  |            |       |               |
| UP/NW/NE (n=665)                                    | 43.4        | [39.1,47.8]        | 56.6                | [52.2,60.9]        | 0.0        |                  |            |       | 100.0         |
| W/E Central/E (n=1,119)                             | 36.9        | [33.7,40.2]        | 63.0                | [59.7,66.1]        | 0.1        | [0.0,1.0]        |            |       | 100.0         |
| S Central/SW/SE (n=712)                             | 42.6        | [38.2,47.1]        | 57.4                | [52.9,61.8]        | 0.0        |                  |            |       | 100.0         |
| Detroit Metro (n=1,055)                             | 38.8        | [35.2,42.5]        | 61.2                | [57.4,64.8]        | 0.1        | [0.0,0.6]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 9.1288      |                    |                     |                    |            |                  |            |       |               |
| Design-based F(4.98, 17637.42) =                    | 1.3567      | Pr =               | 0.237               |                    |            |                  |            |       |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                     |                    |            |                  |            |       |               |
| Yes (n=287)   | 39.9        | [32.6,47.6]        | 60.1                | [52.4,67.4]        | 0.0        |                  |            |       | 100.0         |
| No (n=3,264)  | 39.3        | [37.2,41.4]        | 60.6                | [58.5,62.7]        | 0.1        | [0.0,0.3]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.3312      |                    |                     |                    |            |                  |            |       |               |
| Design-based F(1.90, 6718.64) =                     | 0.0954      | Pr =               | 0.900               |                    |            |                  |            |       |               |
| <b>High ER utilizers</b>                            |             |                    |                     |                    |            |                  |            |       |               |
| Yes (n=133)   | 36.1        | [25.5,48.3]        | 63.9                | [51.7,74.5]        | 0.0        |                  |            |       | 100.0         |
| No (n=3,418)  | 39.5        | [37.4,41.6]        | 60.4                | [58.3,62.5]        | 0.1        | [0.0,0.3]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.8545      |                    |                     |                    |            |                  |            |       |               |
| Design-based F(1.86, 6571.58) =                     | 0.2314      | Pr =               | 0.777               |                    |            |                  |            |       |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                     |                    |            |                  |            |       |               |
| Chronic disease (HEDIS) (n=1,076)                   | 42.0        | [38.4,45.7]        | 57.9                | [54.2,61.5]        | 0.1        | [0.0,1.0]        |            |       | 100.0         |
| No chronic disease (n=2,475)                        | 38.3        | [35.9,40.8]        | 61.6                | [59.1,64.1]        | 0.0        | [0.0,0.3]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.0519      |                    |                     |                    |            |                  |            |       |               |
| Design-based F(1.99, 7045.01) =                     | 1.8031      | Pr =               | 0.165               |                    |            |                  |            |       |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                     |                    |            |                  |            |       |               |
| MH/SA (HEDIS) (n=1,843)                             | 37.9        | [35.1,40.8]        | 62.0                | [59.1,64.8]        | 0.1        | [0.0,0.6]        |            |       | 100.0         |
| No MH/SA (n=1,708)                                  | 40.8        | [37.9,43.8]        | 59.1                | [56.1,62.0]        | 0.1        | [0.0,0.5]        |            |       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.1377      |                    |                     |                    |            |                  |            |       |               |
| Design-based F(1.97, 6987.22) =                     | 1.0649      | Pr =               | 0.344               |                    |            |                  |            |       |               |
| <b>Total (n=3,551)</b>                              | <b>39.3</b> | <b>[37.3,41.4]</b> | <b>60.6</b>         | <b>[58.5,62.6]</b> | <b>0.1</b> | <b>[0.0,0.3]</b> |            |       | <b>100.0</b>  |

## 4.57 Q: Is this your primary care provider for your Healthy Michigan Plan coverage?

Universe: Respondents who usually go to a doctor's office or clinic

|   | Yes         |                    | Regular place PCP?<br>No |                  | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|--------------------------|------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%                     | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                          |                  |            |                  |               |
| 0-35% (n=1,379)                                     | 96.8        | [95.5,97.8]        | 3.1                      | [2.1,4.5]        | 0.1        | [0.0,0.3]        | 100.0         |
| 36-99% (n=1,270)                                    | 96.5        | [95.0,97.5]        | 2.9                      | [1.9,4.2]        | 0.6        | [0.3,1.5]        | 100.0         |
| ≥ 100% (n = 903)                                    | 96.6        | [94.7,97.8]        | 3.4                      | [2.2,5.3]        | 0.0        |                  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 11.7040     |                    |                          |                  |            |                  |               |
| Design-based F(3.54, 12520.95) =                    | 2.5378      | Pr =               | 0.045                    |                  |            |                  |               |
| <b>Region</b>                                       |             |                    |                          |                  |            |                  |               |
| UP/NW/NE (n=665)                                    | 96.9        | [95.3,97.9]        | 2.5                      | [1.6,3.9]        | 0.6        | [0.3,1.5]        | 100.0         |
| W/E Central/E (n=1,120)                             | 97.9        | [96.6,98.7]        | 1.9                      | [1.1,3.0]        | 0.3        | [0.1,1.3]        | 100.0         |
| S Central/SW/SE (n=711)                             | 94.6        | [92.4,96.3]        | 5.2                      | [3.6,7.4]        | 0.2        | [0.0,0.7]        | 100.0         |
| Detroit Metro (n=1,056)                             | 96.7        | [95.0,97.8]        | 3.2                      | [2.1,4.9]        | 0.1        | [0.0,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 18.1502     |                    |                          |                  |            |                  |               |
| Design-based F(4.98, 17640.09) =                    | 2.7932      | Pr =               | 0.016                    |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                          |                  |            |                  |               |
| Yes (n=287)   | 92.4        | [88.1,95.2]        | 7.1                      | [4.3,11.4]       | 0.5        | [0.2,1.6]        | 100.0         |
| No (n=3,265)  | 97.2        | [96.3,97.8]        | 2.6                      | [2.0,3.5]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 22.3574     |                    |                          |                  |            |                  |               |
| Design-based F(1.76, 6243.92) =                     | 9.2596      | Pr =               | 0.000                    |                  |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                          |                  |            |                  |               |
| Yes (n=133)   | 97.2        | [93.6,98.8]        | 2.8                      | [1.2,6.4]        | 0.0        |                  | 100.0         |
| No (n=3,419)  | 96.7        | [95.8,97.4]        | 3.1                      | [2.4,4.0]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.4286      |                    |                          |                  |            |                  |               |
| Design-based F(1.96, 6934.81) =                     | 0.2150      | Pr =               | 0.802                    |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                          |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,078)                   | 98.4        | [97.2,99.1]        | 1.5                      | [0.8,2.7]        | 0.1        | [0.0,0.5]        | 100.0         |
| No chronic disease (n=2,474)                        | 96.0        | [94.9,96.9]        | 3.7                      | [2.8,4.8]        | 0.3        | [0.1,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.2330     |                    |                          |                  |            |                  |               |
| Design-based F(1.85, 6535.59) =                     | 5.7665      | Pr =               | 0.004                    |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                          |                  |            |                  |               |
| MH/SA (HEDIS) (n=1,843)                             | 97.1        | [96.1,97.9]        | 2.6                      | [1.9,3.7]        | 0.2        | [0.1,0.6]        | 100.0         |
| No MH/SA (n=1,709)                                  | 96.2        | [94.8,97.3]        | 3.6                      | [2.5,5.0]        | 0.2        | [0.1,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.5156      |                    |                          |                  |            |                  |               |
| Design-based F(1.93, 6838.16) =                     | 0.9269      | Pr =               | 0.393                    |                  |            |                  |               |
| <b>Total (n=3,552)</b>                              | <b>96.7</b> | <b>[95.8,97.4]</b> | <b>3.1</b>               | <b>[2.4,3.9]</b> | <b>0.2</b> | <b>[0.1,0.5]</b> | <b>100.0</b>  |

#### 4.58 Q: Do you have a primary care provider through your Healthy Michigan Plan coverage?

Universe: Respondents who usually go to an urgent care/walk-in, emergency room, or see a PCP that is not through Healthy Michigan Plan

|   | Yes         |                    | Has HMP PCP<br>No |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|-------------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%              | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                   |                    |            |                  |               |
| 0-35% (n=269)                                       | 64.0        | [56.4,70.9]        | 32.9              | [26.1,40.4]        | 3.2        | [1.6,6.1]        | 100.0         |
| 36-99% (n=220)                                      | 65.2        | [57.1,72.6]        | 30.1              | [23.3,38.0]        | 4.6        | [1.9,11.0]       | 100.0         |
| ≥ 100%(n = 163)                                     | 60.6        | [51.3,69.2]        | 34.2              | [25.9,43.4]        | 5.2        | [2.2,12.1]       | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 1.9513      |                    |                   |                    |            |                  |               |
| Design-based F(3.92, 2510.83) =                     | 0.3446      | Pr =               | 0.844             |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |                   |                    |            |                  |               |
| UP/NW/NE (n=106)                                    | 68.0        | [57.8,76.7]        | 29.1              | [20.7,39.2]        | 2.9        | [0.9,9.1]        | 100.0         |
| W/E Central/E (n=167)                               | 59.0        | [50.1,67.3]        | 37.9              | [29.8,46.7]        | 3.2        | [1.2,8.4]        | 100.0         |
| S Central/SW/SE (n=162)                             | 67.2        | [58.5,74.9]        | 29.1              | [21.8,37.6]        | 3.7        | [1.8,7.6]        | 100.0         |
| Detroit Metro (n=217)                               | 63.7        | [55.2,71.4]        | 31.8              | [24.4,40.2]        | 4.6        | [2.3,9.1]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 3.7109      |                    |                   |                    |            |                  |               |
| Design-based F(5.08, 3251.72) =                     | 0.5711      | Pr =               | 0.725             |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                   |                    |            |                  |               |
| Yes (n=230)   | 54.3        | [45.7,62.6]        | 39.9              | [31.9,48.5]        | 5.8        | [3.0,11.0]       | 100.0         |
| No (n=422)  | 70.0        | [64.2,75.2]        | 27.4              | [22.3,33.1]        | 2.7        | [1.4,4.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 17.7074     |                    |                   |                    |            |                  |               |
| Design-based F(1.96, 1251.28) =                     | 5.6946      | Pr =               | 0.004             |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                   |                    |            |                  |               |
| Yes (n=29)  | 71.1        | [51.5,85.1]        | 28.9              | [14.9,48.5]        | 0.0        |                  | 100.0         |
| No (n=623)  | 63.3        | [58.2,68.1]        | 32.6              | [27.9,37.6]        | 4.1        | [2.6,6.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.5302      |                    |                   |                    |            |                  |               |
| Design-based F(1.83, 1169.66) =                     | 0.5919      | Pr =               | 0.539             |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                   |                    |            |                  |               |
| Chronic disease (HEDIS) (n=101)                     | 80.2        | [69.0,88.0]        | 19.2              | [11.4,30.3]        | 0.7        | [0.1,4.5]        | 100.0         |
| No chronic disease (n=551)                          | 61.4        | [56.0,66.5]        | 34.2              | [29.3,39.6]        | 4.4        | [2.7,7.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.2195     |                    |                   |                    |            |                  |               |
| Design-based F(1.74, 1114.33) =                     | 6.3369      | Pr =               | 0.003             |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                   |                    |            |                  |               |
| MH/SA (HEDIS) (n=245)                               | 63.0        | [54.6,70.7]        | 34.4              | [26.9,42.9]        | 2.6        | [1.1,6.1]        | 100.0         |
| No MH/SA (n=407)                                    | 64.0        | [57.9,69.7]        | 31.3              | [25.9,37.2]        | 4.7        | [2.7,8.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.2138      |                    |                   |                    |            |                  |               |
| Design-based F(1.97, 1258.88) =                     | 0.7326      | Pr =               | 0.479             |                    |            |                  |               |
| <b>Total (n=652)</b>                                | <b>63.6</b> | <b>[58.7,68.3]</b> | <b>32.4</b>       | <b>[27.9,37.3]</b> | <b>3.9</b> | <b>[2.5,6.2]</b> | <b>100.0</b>  |

#### 4.59 Q: Did you choose your primary care provider or did your health plan assign you to one?

Universe: Respondents who usually go to an urgent care/walk-in, emergency room, or see a PCP that is not through Healthy Michigan Plan

|   | Chose my PCP |             | Who chose PCP<br>Plan assigned my PCP |             | Don't know |            | Total<br>Row% |
|---|--------------|-------------|---------------------------------------|-------------|------------|------------|---------------|
|   | Row%         | 95%CI       | Row%                                  | 95%CI       | Row%       | 95%CI      |               |
| <b>FPL category</b>                                 |              |             |                                       |             |            |            |               |
| 0-35% (n=88)  | 53.8         | [40.0,67.0] | 45.3                                  | [32.1,59.2] | 0.9        | [0.1,6.2]  | 100.0         |
| 36-99% (n=74)                                       | 41.3         | [28.3,55.7] | 56.9                                  | [42.7,70.1] | 1.7        | [0.4,6.9]  | 100.0         |
| ≥ 100%(n = 54)                                      | 45.9         | [30.8,61.8] | 51.0                                  | [35.1,66.7] | 3.1        | [0.4,19.4] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 3.3626       |             |                                       |             |            |            |               |
| Design-based F(3.67, 748.25) =                      | 0.7122       | Pr =        | 0.572                                 |             |            |            |               |
| <b>Region</b>                                       |              |             |                                       |             |            |            |               |
| UP/NW/NE (n=39)                                     | 36.5         | [22.1,53.8] | 60.0                                  | [42.5,75.3] | 3.5        | [0.5,21.6] | 100.0         |
| W/E Central/E (n=45)                                | 47.3         | [30.9,64.3] | 50.1                                  | [33.5,66.8] | 2.6        | [0.3,16.7] | 100.0         |
| S Central/SW/SE (n=57)                              | 32.3         | [19.8,48.0] | 64.3                                  | [48.5,77.5] | 3.4        | [0.7,14.7] | 100.0         |
| Detroit Metro (n=75)                                | 59.6         | [44.7,72.9] | 40.4                                  | [27.1,55.3] | 0.0        |            | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 13.7911      |             |                                       |             |            |            |               |
| Design-based F(5.05, 1029.82) =                     | 2.1907       | Pr =        | 0.053                                 |             |            |            |               |
| <b>Low healthcare utilizers</b>                     |              |             |                                       |             |            |            |               |
| Yes (n=80)  | 42.5         | [28.3,58.0] | 57.5                                  | [42.0,71.7] | 0.0        |            | 100.0         |
| No (n=136)  | 53.7         | [42.8,64.2] | 43.7                                  | [33.3,54.7] | 2.6        | [0.9,7.5]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.6870       |             |                                       |             |            |            |               |
| Design-based F(1.83, 373.21) =                      | 1.8905       | Pr =        | 0.156                                 |             |            |            |               |
| <b>High ER utilizers</b>                            |              |             |                                       |             |            |            |               |
| Yes (n=5)   | 73.6         | [27.3,95.4] | 19.1                                  | [2.9,64.8]  | 7.3        | [0.7,45.9] | 100.0         |
| No (n=211)  | 48.3         | [39.4,57.3] | 50.3                                  | [41.3,59.3] | 1.4        | [0.4,4.5]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.4726       |             |                                       |             |            |            |               |
| Design-based F(1.73, 352.67) =                      | 1.8414       | Pr =        | 0.166                                 |             |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |              |             |                                       |             |            |            |               |
| Chronic disease (HEDIS) (n=33)                      | 53.2         | [33.6,71.9] | 38.9                                  | [21.7,59.3] | 7.9        | [1.7,29.7] | 100.0         |
| No chronic disease (n=183)                          | 48.6         | [39.0,58.3] | 50.6                                  | [40.9,60.2] | 0.8        | [0.2,3.5]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.2059       |             |                                       |             |            |            |               |
| Design-based F(2.00, 407.53) =                      | 3.5945       | Pr =        | 0.028                                 |             |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |              |             |                                       |             |            |            |               |
| MH/SA (HEDIS) (n=78)                                | 60.5         | [46.4,73.1] | 37.3                                  | [25.1,51.5] | 2.1        | [0.5,9.1]  | 100.0         |
| No MH/SA (n=138)                                    | 43.4         | [32.5,55.0] | 55.4                                  | [43.8,66.4] | 1.2        | [0.3,5.6]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 6.2691       |             |                                       |             |            |            |               |
| Design-based F(1.88, 382.75) =                      | 2.3747       | Pr =        | 0.098                                 |             |            |            |               |
| <b>Total (n=216)</b>                                | 49.1         | [40.3,58.0] | 49.4                                  | [40.5,58.3] | 1.5        | [0.5,4.5]  | 100.0         |

#### 4.60 Q: Before you enrolled in the Healthy Michigan Plan, about how long had it been since you had a primary care visit?

Universe: All respondents

|   | Pre-HMP PCP visit timing    |                    |              |                    |                   |                    |            |                  | Total<br>Row% |
|---|-----------------------------|--------------------|--------------|--------------------|-------------------|--------------------|------------|------------------|---------------|
|   | Less than 1 year before HMP |                    | 1 to 5 years |                    | More than 5 years |                    | Don't know |                  |               |
|   | Row%                        | 95%CI              | Row%         | 95%CI              | Row%              | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                             |                    |              |                    |                   |                    |            |                  |               |
| 0-35% (n=1,597)                                     | 38.8                        | [35.8,41.9]        | 36.0         | [33.1,39.1]        | 23.7              | [21.2,26.4]        | 1.5        | [0.8,2.5]        | 100.0         |
| 36-99% (n=1,449)                                    | 40.8                        | [37.8,43.9]        | 39.7         | [36.6,42.8]        | 18.1              | [15.8,20.7]        | 1.4        | [0.8,2.3]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 42.6                        | [39.1,46.2]        | 39.8         | [36.4,43.3]        | 15.9              | [13.5,18.7]        | 1.7        | [0.9,3.4]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 28.3137                     |                    |              |                    |                   |                    |            |                  |               |
| Design-based F(5.73, 23343.19) =                    | 3.2280                      | Pr =               | 0.004        |                    |                   |                    |            |                  |               |
| <b>Region</b>                                       |                             |                    |              |                    |                   |                    |            |                  |               |
| UP/NW/NE (n=745)                                    | 38.5                        | [34.6,42.6]        | 41.0         | [37.0,45.1]        | 19.6              | [16.5,23.1]        | 0.9        | [0.4,2.0]        | 100.0         |
| W/E Central/E (n=1,264)                             | 38.4                        | [35.4,41.6]        | 38.3         | [35.3,41.5]        | 22.0              | [19.5,24.8]        | 1.3        | [0.6,2.6]        | 100.0         |
| S Central/SW/SE (n=837)                             | 37.5                        | [33.6,41.6]        | 41.2         | [37.2,45.4]        | 19.4              | [16.4,22.8]        | 1.9        | [1.0,3.6]        | 100.0         |
| Detroit Metro (n=1,240)                             | 42.7                        | [39.3,46.2]        | 35.3         | [32.0,38.7]        | 20.4              | [17.6,23.4]        | 1.6        | [0.9,2.7]        | 100.0         |
| Pearson: Uncorrected chi2(9) =                      | 16.0176                     |                    |              |                    |                   |                    |            |                  |               |
| Design-based F(7.84, 31951.56) =                    | 1.3198                      | Pr =               | 0.229        |                    |                   |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                             |                    |              |                    |                   |                    |            |                  |               |
| Yes (n=489)   | 30.2                        | [25.1,35.8]        | 40.5         | [34.8,46.4]        | 28.3              | [23.5,33.6]        | 1.0        | [0.4,2.8]        | 100.0         |
| No (n=3,597)  | 41.9                        | [39.9,44.0]        | 37.3         | [35.3,39.3]        | 19.2              | [17.6,20.9]        | 1.6        | [1.1,2.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 41.6459                     |                    |              |                    |                   |                    |            |                  |               |
| Design-based F(2.97, 12101.17) =                    | 7.0738                      | Pr =               | 0.000        |                    |                   |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                             |                    |              |                    |                   |                    |            |                  |               |
| Yes (n=156)   | 48.7                        | [38.7,58.8]        | 36.5         | [27.7,46.4]        | 14.8              | [9.5,22.2]         | 0.0        |                  | 100.0         |
| No (n=3,930)  | 39.8                        | [37.8,41.7]        | 37.8         | [35.9,39.8]        | 20.8              | [19.2,22.5]        | 1.6        | [1.1,2.2]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 9.4239                      |                    |              |                    |                   |                    |            |                  |               |
| Design-based F(2.93, 11932.43) =                    | 1.7880                      | Pr =               | 0.148        |                    |                   |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |                    |              |                    |                   |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 46.1                        | [42.5,49.6]        | 32.3         | [29.2,35.7]        | 20.5              | [17.5,23.8]        | 1.1        | [0.5,2.6]        | 100.0         |
| No chronic disease (n=2,925)                        | 38.2                        | [35.9,40.5]        | 39.6         | [37.4,41.9]        | 20.6              | [18.8,22.5]        | 1.6        | [1.1,2.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 24.0455                     |                    |              |                    |                   |                    |            |                  |               |
| Design-based F(2.92, 11881.15) =                    | 4.6788                      | Pr =               | 0.003        |                    |                   |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |                    |              |                    |                   |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,033)                             | 42.1                        | [39.4,44.9]        | 36.7         | [34.1,39.4]        | 20.0              | [17.9,22.4]        | 1.2        | [0.6,2.1]        | 100.0         |
| No MH/SA (n=2,053)                                  | 38.3                        | [35.7,41.1]        | 38.8         | [36.1,41.6]        | 21.1              | [18.9,23.5]        | 1.8        | [1.2,2.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 8.1620                      |                    |              |                    |                   |                    |            |                  |               |
| Design-based F(2.97, 12084.02) =                    | 1.5253                      | Pr =               | 0.206        |                    |                   |                    |            |                  |               |
| <b>Total (n=4,086)</b>                              | <b>40.1</b>                 | <b>[38.2,42.1]</b> | <b>37.8</b>  | <b>[35.9,39.7]</b> | <b>20.6</b>       | <b>[19.0,22.2]</b> | <b>1.5</b> | <b>[1.0,2.1]</b> | <b>100.0</b>  |

#### 4.61 Q: Have you seen your primary care provider in the past 12 months?

Universe: Respondents who reported having a PCP

|   | Seen PCP past 12 months |                    |             |                    |            |                  | Total<br>Row% |
|---|-------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                     |                    | No          |                    | Don't know |                  |               |
|   | Row%                    | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                         |                    |             |                    |            |                  |               |
| 0-35% (n=1,493)                                     | 85.0                    | [82.2,87.3]        | 14.9        | [12.5,17.6]        | 0.2        | [0.1,0.6]        | 100.0         |
| 36-99% (n=1,377)                                    | 86.2                    | [83.6,88.4]        | 13.3        | [11.1,15.8]        | 0.5        | [0.2,1.3]        | 100.0         |
| ≥ 100% (n = 981)                                    | 84.3                    | [81.3,87.0]        | 15.4        | [12.7,18.4]        | 0.3        | [0.1,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 4.2806                  |                    |             |                    |            |                  |               |
| Design-based F(3.72, 14299.55) =                    | 0.7812                  | Pr =               | 0.529       |                    |            |                  |               |
| <b>Region</b>                                       |                         |                    |             |                    |            |                  |               |
| UP/NW/NE (n=712)                                    | 88.0                    | [84.6,90.7]        | 11.2        | [8.6,14.4]         | 0.9        | [0.3,2.6]        | 100.0         |
| W/E Central/E (n=1,198)                             | 87.5                    | [84.9,89.7]        | 12.3        | [10.1,14.9]        | 0.2        | [0.0,0.9]        | 100.0         |
| S Central/SW/SE (n=776)                             | 81.7                    | [77.7,85.1]        | 17.8        | [14.4,21.8]        | 0.5        | [0.2,1.8]        | 100.0         |
| Detroit Metro (n=1,165)                             | 84.6                    | [81.6,87.2]        | 15.2        | [12.6,18.3]        | 0.2        | [0.1,0.5]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 20.5973                 |                    |             |                    |            |                  |               |
| Design-based F(5.43, 20833.79) =                    | 2.5112                  | Pr =               | 0.024       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                         |                    |             |                    |            |                  |               |
| Yes (n=381)   | 44.1                    | [37.6,50.8]        | 54.7        | [48.1,61.3]        | 1.2        | [0.4,3.0]        | 100.0         |
| No (n=3,470)  | 91.2                    | [89.8,92.4]        | 8.7         | [7.4,10.0]         | 0.2        | [0.1,0.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 749.6313                |                    |             |                    |            |                  |               |
| Design-based F(1.86, 7137.98) =                     | 223.0744                | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                         |                    |             |                    |            |                  |               |
| Yes (n=143)   | 87.1                    | [77.4,93.0]        | 12.9        | [7.0,22.6]         | 0.0        |                  | 100.0         |
| No (n=3,708)  | 85.1                    | [83.4,86.7]        | 14.6        | [13.0,16.3]        | 0.3        | [0.2,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.9385                  |                    |             |                    |            |                  |               |
| Design-based F(1.84, 7072.55) =                     | 0.2658                  | Pr =               | 0.748       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                         |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,140)                   | 94.8                    | [92.6,96.3]        | 5.2         | [3.6,7.4]          | 0.1        | [0.0,0.4]        | 100.0         |
| No chronic disease (n=2,711)                        | 81.8                    | [79.7,83.7]        | 17.8        | [15.9,19.9]        | 0.4        | [0.2,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 100.3634                |                    |             |                    |            |                  |               |
| Design-based F(1.57, 6044.20) =                     | 40.3684                 | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                         |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=1,950)                             | 91.6                    | [89.7,93.3]        | 8.1         | [6.5,10.1]         | 0.2        | [0.1,0.5]        | 100.0         |
| No MH/SA (n=1,901)                                  | 79.0                    | [76.3,81.4]        | 20.6        | [18.2,23.3]        | 0.4        | [0.2,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 122.8328                |                    |             |                    |            |                  |               |
| Design-based F(1.82, 6990.80) =                     | 39.5324                 | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=3,851)</b>                              | <b>85.2</b>             | <b>[83.5,86.7]</b> | <b>14.5</b> | <b>[13.0,16.2]</b> | <b>0.3</b> | <b>[0.2,0.6]</b> | <b>100.0</b>  |

## 4.62 Q: Why have you not seen your primary care provider?

### 4.62.1 Not seen PCP- Healthy/did not need to see a doctor

Universe: Respondents who have not seen their PCP in the last 12 months

|   | Yes         |                    | No PCP visit: healthy<br>No |                    | Total<br>Row% |
|---|-------------|--------------------|-----------------------------|--------------------|---------------|
|   | Row%        | 95%CI              | Row%                        | 95%CI              |               |
| <b>FPL category</b>                                 |             |                    |                             |                    |               |
| 0-35% (n=166)                                       | 62.7        | [53.5,71.1]        | 37.3                        | [28.9,46.5]        | 100.0         |
| 36-99% (n=163)                                      | 63.3        | [53.9,71.9]        | 36.7                        | [28.1,46.1]        | 100.0         |
| ≥ 100% (n = 123)                                    | 65.0        | [55.0,73.8]        | 35.0                        | [26.2,45.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1511      |                    |                             |                    |               |
| Design-based F(1.92, 846.77) =                      | 0.0591      | Pr =               | 0.937                       |                    |               |
| <b>Region</b>                                       |             |                    |                             |                    |               |
| UP/NW/NE (n=70)                                     | 77.7        | [65.7,86.3]        | 22.3                        | [13.7,34.3]        | 100.0         |
| W/E Central/E (n=122)                               | 54.1        | [43.8,64.1]        | 45.9                        | [35.9,56.2]        | 100.0         |
| S Central/SW/SE (n=107)                             | 63.2        | [51.8,73.2]        | 36.8                        | [26.8,48.2]        | 100.0         |
| Detroit Metro (n=153)                               | 66.2        | [56.3,74.9]        | 33.8                        | [25.1,43.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 7.6578      |                    |                             |                    |               |
| Design-based F(2.59, 1138.53) =                     | 2.1409      | Pr =               | 0.103                       |                    |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                             |                    |               |
| Yes (n=206)   | 71.0        | [62.6,78.2]        | 29.0                        | [21.8,37.4]        | 100.0         |
| No (n=246)  | 56.4        | [48.4,64.0]        | 43.6                        | [36.0,51.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 10.4589     |                    |                             |                    |               |
| Design-based F(1.00, 440.00) =                      | 6.4697      | Pr =               | 0.011                       |                    |               |
| <b>High ER utilizers</b>                            |             |                    |                             |                    |               |
| Yes (n=13)  | 59.9        | [30.5,83.6]        | 40.1                        | [16.4,69.5]        | 100.0         |
| No (n=439)  | 63.5        | [57.6,69.0]        | 36.5                        | [31.0,42.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0966      |                    |                             |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.0580      | Pr =               | 0.810                       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                             |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 43.9        | [26.4,63.0]        | 56.1                        | [37.0,73.6]        | 100.0         |
| No chronic disease (n=408)                          | 65.4        | [59.4,71.0]        | 34.6                        | [29.0,40.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 7.7238      |                    |                             |                    |               |
| Design-based F(1.00, 440.00) =                      | 4.7092      | Pr =               | 0.031                       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                             |                    |               |
| MH/SA (HEDIS) (n=125)                               | 57.1        | [46.0,67.6]        | 42.9                        | [32.4,54.0]        | 100.0         |
| No MH/SA (n=327)                                    | 65.7        | [58.9,71.9]        | 34.3                        | [28.1,41.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.8769      |                    |                             |                    |               |
| Design-based F(1.00, 440.00) =                      | 1.7898      | Pr =               | 0.182                       |                    |               |
| <b>Total (n=452)</b>                                | <b>63.4</b> | <b>[57.6,68.8]</b> | <b>36.6</b>                 | <b>[31.2,42.4]</b> | <b>100.0</b>  |

#### 4.62.2 Not seen PCP- Could not get an appointment

Universe: Respondents who have not seen their PCP in the last 12 months

|   | Yes        |                   | No PCP visit: no appointment |                    | Total<br>Row% |
|---|------------|-------------------|------------------------------|--------------------|---------------|
|   | Row%       | 95%CI             | No<br>Row%                   | 95%CI              |               |
| <b>FPL category</b>                                 |            |                   |                              |                    |               |
| 0-35% (n=166)                                       | 7.4        | [4.3,12.4]        | 92.6                         | [87.6,95.7]        | 100.0         |
| 36-99% (n=163)                                      | 5.6        | [2.9,10.7]        | 94.4                         | [89.3,97.1]        | 100.0         |
| ≥ 100%(n = 123)                                     | 7.8        | [3.8,15.1]        | 92.2                         | [84.9,96.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.4871     |                   |                              |                    |               |
| Design-based F(1.96, 864.18) =                      | 0.2439     | Pr =              | 0.780                        |                    |               |
| <b>Region</b>                                       |            |                   |                              |                    |               |
| UP/NW/NE (n=70)                                     | 3.4        | [1.2,9.0]         | 96.6                         | [91.0,98.8]        | 100.0         |
| W/E Central/E (n=122)                               | 7.8        | [4.1,14.3]        | 92.2                         | [85.7,95.9]        | 100.0         |
| S Central/SW/SE (n=107)                             | 11.5       | [5.9,21.2]        | 88.5                         | [78.8,94.1]        | 100.0         |
| Detroit Metro (n=153)                               | 4.9        | [2.6,9.2]         | 95.1                         | [90.8,97.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.3364     |                   |                              |                    |               |
| Design-based F(2.47, 1085.82) =                     | 1.9946     | Pr =              | 0.125                        |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                   |                              |                    |               |
| Yes (n=206)   | 5.4        | [2.9,10.0]        | 94.6                         | [90.0,97.1]        | 100.0         |
| No (n=246)  | 8.4        | [5.3,13.1]        | 91.6                         | [86.9,94.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.5753     |                   |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 1.3132     | Pr =              | 0.252                        |                    |               |
| <b>High ER utilizers</b>                            |            |                   |                              |                    |               |
| Yes (n=13)  | 0.0        |                   | 100.0                        |                    | 100.0         |
| No (n=439)  | 7.3        | [5.0,10.4]        | 92.7                         | [89.6,95.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3973     |                   |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.8617     | Pr =              | 0.354                        |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                   |                              |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 13.4       | [5.0,31.0]        | 86.6                         | [69.0,95.0]        | 100.0         |
| No chronic disease (n=408)                          | 6.3        | [4.3,9.3]         | 93.7                         | [90.7,95.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.9239     |                   |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 2.0778     | Pr =              | 0.150                        |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                   |                              |                    |               |
| MH/SA (HEDIS) (n=125)                               | 5.9        | [2.9,11.8]        | 94.1                         | [88.2,97.1]        | 100.0         |
| No MH/SA (n=327)                                    | 7.4        | [4.8,11.3]        | 92.6                         | [88.7,95.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3264     |                   |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.3000     | Pr =              | 0.584                        |                    |               |
| <b>Total (n=452)</b>                                | <b>7.0</b> | <b>[4.8,10.0]</b> | <b>93.0</b>                  | <b>[90.0,95.2]</b> | <b>100.0</b>  |



### 4.62.3 Not seen PCP- Transportation difficulties/too far

Universe: Respondents who have not seen their PCP in the last 12 months

|   | Yes        |                  | No PCP visit: no transportation |                    | Total<br>Row% |
|---|------------|------------------|---------------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                      | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                                 |                    |               |
| 0-35% (n=166)                                       | 6.3        | [3.1,12.4]       | 93.7                            | [87.6,96.9]        | 100.0         |
| 36-99% (n=163)                                      | 4.4        | [1.4,12.8]       | 95.6                            | [87.2,98.6]        | 100.0         |
| ≥ 100%(n = 123)                                     | 4.9        | [1.9,11.9]       | 95.1                            | [88.1,98.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.6452     |                  |                                 |                    |               |
| Design-based F(1.92, 846.61) =                      | 0.2110     | Pr =             | 0.801                           |                    |               |
| <b>Region</b>                                       |            |                  |                                 |                    |               |
| UP/NW/NE (n=70)                                     | 1.4        | [0.3,5.6]        | 98.6                            | [94.4,99.7]        | 100.0         |
| W/E Central/E (n=122)                               | 6.9        | [2.7,16.5]       | 93.1                            | [83.5,97.3]        | 100.0         |
| S Central/SW/SE (n=107)                             | 9.2        | [4.6,17.6]       | 90.8                            | [82.4,95.4]        | 100.0         |
| Detroit Metro (n=153)                               | 3.6        | [1.1,10.9]       | 96.4                            | [89.1,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.6169     |                  |                                 |                    |               |
| Design-based F(2.18, 958.29) =                      | 1.3851     | Pr =             | 0.250                           |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                                 |                    |               |
| Yes (n=206)   | 8.3        | [4.3,15.3]       | 91.7                            | [84.7,95.7]        | 100.0         |
| No (n=246)  | 3.0        | [1.4,6.5]        | 97.0                            | [93.5,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.0454     |                  |                                 |                    |               |
| Design-based F(1.00, 440.00) =                      | 4.2579     | Pr =             | 0.040                           |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                                 |                    |               |
| Yes (n=13)  | 2.7        | [0.3,17.9]       | 97.3                            | [82.1,99.7]        | 100.0         |
| No (n=439)  | 5.6        | [3.3,9.4]        | 94.4                            | [90.6,96.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2869     |                  |                                 |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.5301     | Pr =             | 0.467                           |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                                 |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 6.2        | [1.8,19.7]       | 93.8                            | [80.3,98.2]        | 100.0         |
| No chronic disease (n=408)                          | 5.4        | [3.1,9.3]        | 94.6                            | [90.7,96.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0488     |                  |                                 |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.0416     | Pr =             | 0.839                           |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                                 |                    |               |
| MH/SA (HEDIS) (n=125)                               | 2.0        | [0.8,5.4]        | 98.0                            | [94.6,99.2]        | 100.0         |
| No MH/SA (n=327)                                    | 6.8        | [3.9,11.7]       | 93.2                            | [88.3,96.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.0193     |                  |                                 |                    |               |
| Design-based F(1.00, 440.00) =                      | 5.1396     | Pr =             | 0.024                           |                    |               |
| <b>Total (n=452)</b>                                | <b>5.5</b> | <b>[3.3,9.1]</b> | <b>94.5</b>                     | <b>[90.9,96.7]</b> | <b>100.0</b>  |

#### 4.62.4 Not seen PCP- Do not like doctor/staff

Universe: Respondents who have not seen their PCP in the last 12 months

|   | Yes        |                  | No PCP visit: don't like PCP |                    | Total<br>Row% |
|---|------------|------------------|------------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                   | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                              |                    |               |
| 0-35% (n=166)                                       | 3.2        | [1.5,7.0]        | 96.8                         | [93.0,98.5]        | 100.0         |
| 36-99% (n=163)                                      | 4.2        | [1.4,12.3]       | 95.8                         | [87.7,98.6]        | 100.0         |
| ≥ 100%(n = 123)                                     | 5.2        | [2.3,11.6]       | 94.8                         | [88.4,97.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.7652     |                  |                              |                    |               |
| Design-based F(1.93, 849.08) =                      | 0.2982     | Pr =             | 0.734                        |                    |               |
| <b>Region</b>                                       |            |                  |                              |                    |               |
| UP/NW/NE (n=70)                                     | 2.5        | [0.5,11.0]       | 97.5                         | [89.0,99.5]        | 100.0         |
| W/E Central/E (n=122)                               | 4.2        | [1.7,10.4]       | 95.8                         | [89.6,98.3]        | 100.0         |
| S Central/SW/SE (n=107)                             | 5.6        | [2.1,13.7]       | 94.4                         | [86.3,97.9]        | 100.0         |
| Detroit Metro (n=153)                               | 3.1        | [1.2,7.7]        | 96.9                         | [92.3,98.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.2733     |                  |                              |                    |               |
| Design-based F(2.66, 1171.95) =                     | 0.4060     | Pr =             | 0.725                        |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                              |                    |               |
| Yes (n=206)   | 1.0        | [0.4,3.0]        | 99.0                         | [97.0,99.6]        | 100.0         |
| No (n=246)  | 6.5        | [3.6,11.4]       | 93.5                         | [88.6,96.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 8.9697     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 11.5746    | Pr =             | 0.001                        |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                              |                    |               |
| Yes (n=13)  | 12.3       | [2.7,41.6]       | 87.7                         | [58.4,97.3]        | 100.0         |
| No (n=439)  | 3.6        | [2.0,6.2]        | 96.4                         | [93.8,98.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.4315     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 2.5926     | Pr =             | 0.108                        |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                              |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 11.3       | [3.9,28.6]       | 88.7                         | [71.4,96.1]        | 100.0         |
| No chronic disease (n=408)                          | 3.1        | [1.7,5.7]        | 96.9                         | [94.3,98.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.8890     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 4.9230     | Pr =             | 0.027                        |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                              |                    |               |
| MH/SA (HEDIS) (n=125)                               | 5.0        | [2.0,11.6]       | 95.0                         | [88.4,98.0]        | 100.0         |
| No MH/SA (n=327)                                    | 3.5        | [1.8,6.6]        | 96.5                         | [93.4,98.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4977     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.3849     | Pr =             | 0.535                        |                    |               |
| <b>Total (n=452)</b>                                | <b>3.9</b> | <b>[2.3,6.5]</b> | <b>96.1</b>                  | <b>[93.5,97.7]</b> | <b>100.0</b>  |

#### 4.62.5 Not seen PCP- See a specialist instead

Universe: Respondents who have not seen their PCP in the last 12 months

|   | Yes        |                  | No PCP visit: saw specialist |                    | Total<br>Row% |
|---|------------|------------------|------------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                   | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                              |                    |               |
| 0-35% (n=166)                                       | 4.3        | [1.5,11.6]       | 95.7                         | [88.4,98.5]        | 100.0         |
| 36-99% (n=163)                                      | 5.1        | [2.5,10.1]       | 94.9                         | [89.9,97.5]        | 100.0         |
| ≥ 100%(n = 123)                                     | 2.7        | [1.0,7.1]        | 97.3                         | [92.9,99.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.7841     |                  |                              |                    |               |
| Design-based F(1.70, 749.18) =                      | 0.3208     | Pr =             | 0.690                        |                    |               |
| <b>Region</b>                                       |            |                  |                              |                    |               |
| UP/NW/NE (n=70)                                     | 8.5        | [3.2,20.8]       | 91.5                         | [79.2,96.8]        | 100.0         |
| W/E Central/E (n=122)                               | 3.8        | [1.4,10.2]       | 96.2                         | [89.8,98.6]        | 100.0         |
| S Central/SW/SE (n=107)                             | 3.1        | [1.2,7.8]        | 96.9                         | [92.2,98.8]        | 100.0         |
| Detroit Metro (n=153)                               | 4.2        | [1.3,12.8]       | 95.8                         | [87.2,98.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.8167     |                  |                              |                    |               |
| Design-based F(2.44, 1071.88) =                     | 0.4766     | Pr =             | 0.659                        |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                              |                    |               |
| Yes (n=206)   | 1.2        | [0.4,3.7]        | 98.8                         | [96.3,99.6]        | 100.0         |
| No (n=246)  | 6.9        | [3.5,13.2]       | 93.1                         | [86.8,96.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 9.1283     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 8.8523     | Pr =             | 0.003                        |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                              |                    |               |
| Yes (n=13)  | 4.0        | [0.5,25.2]       | 96.0                         | [74.8,99.5]        | 100.0         |
| No (n=439)  | 4.2        | [2.2,7.8]        | 95.8                         | [92.2,97.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0007     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.0008     | Pr =             | 0.978                        |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                              |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 2.5        | [0.6,10.6]       | 97.5                         | [89.4,99.4]        | 100.0         |
| No chronic disease (n=408)                          | 4.3        | [2.3,8.2]        | 95.7                         | [91.8,97.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3093     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.4365     | Pr =             | 0.509                        |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                              |                    |               |
| MH/SA (HEDIS) (n=125)                               | 3.7        | [1.6,8.6]        | 96.3                         | [91.4,98.4]        | 100.0         |
| No MH/SA (n=327)                                    | 4.3        | [2.0,9.1]        | 95.7                         | [90.9,98.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0875     |                  |                              |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.0707     | Pr =             | 0.790                        |                    |               |
| <b>Total (n=452)</b>                                | <b>4.2</b> | <b>[2.2,7.6]</b> | <b>95.8</b>                  | <b>[92.4,97.8]</b> | <b>100.0</b>  |

#### 4.62.6 Not seen PCP- Inconvenient hours

Universe: Respondents who have not seen their PCP in the last 12 months

|   | No PCP visit: inconvenient hours |                  |             |                    | Total<br>Row% |
|---|----------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                      | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                  |                  |             |                    |               |
| 0-35% (n=166)                                       | 3.5                              | [1.0,11.6]       | 96.5        | [88.4,99.0]        | 100.0         |
| 36-99% (n=163)                                      | 0.8                              | [0.1,5.5]        | 99.2        | [94.5,99.9]        | 100.0         |
| ≥ 100%(n = 123)                                     | 4.7                              | [1.8,11.7]       | 95.3        | [88.3,98.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.0792                           |                  |             |                    |               |
| Design-based F(1.79, 788.92) =                      | 1.0358                           | Pr =             | 0.349       |                    |               |
| <b>Region</b>                                       |                                  |                  |             |                    |               |
| UP/NW/NE (n=70)                                     | 1.3                              | [0.2,9.0]        | 98.7        | [91.0,99.8]        | 100.0         |
| W/E Central/E (n=122)                               | 1.8                              | [0.4,7.7]        | 98.2        | [92.3,99.6]        | 100.0         |
| S Central/SW/SE (n=107)                             | 1.8                              | [0.4,7.4]        | 98.2        | [92.6,99.6]        | 100.0         |
| Detroit Metro (n=153)                               | 4.6                              | [1.5,13.3]       | 95.4        | [86.7,98.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.0702                           |                  |             |                    |               |
| Design-based F(2.46, 1082.94) =                     | 0.9276                           | Pr =             | 0.412       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                  |                  |             |                    |               |
| Yes (n=206)   | 2.8                              | [0.6,13.2]       | 97.2        | [86.8,99.4]        | 100.0         |
| No (n=246)  | 3.2                              | [1.5,6.6]        | 96.8        | [93.4,98.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0464                           |                  |             |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.0165                           | Pr =             | 0.898       |                    |               |
| <b>High ER utilizers</b>                            |                                  |                  |             |                    |               |
| Yes (n=13)  | 0.0                              |                  | 100.0       |                    | 100.0         |
| No (n=439)  | 3.1                              | [1.4,7.1]        | 96.9        | [92.9,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5774                           |                  |             |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.2644                           | Pr =             | 0.607       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                  |                  |             |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 5.6                              | [1.3,20.5]       | 94.4        | [79.5,98.7]        | 100.0         |
| No chronic disease (n=408)                          | 2.8                              | [1.0,7.0]        | 97.2        | [93.0,99.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0504                           |                  |             |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.6887                           | Pr =             | 0.407       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                  |                  |             |                    |               |
| MH/SA (HEDIS) (n=125)                               | 0.7                              | [0.1,4.8]        | 99.3        | [95.2,99.9]        | 100.0         |
| No MH/SA (n=327)                                    | 3.9                              | [1.6,9.1]        | 96.1        | [90.9,98.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.2248                           |                  |             |                    |               |
| Design-based F(1.00, 440.00) =                      | 3.3018                           | Pr =             | 0.070       |                    |               |
| <b>Total (n=452)</b>                                | <b>3.0</b>                       | <b>[1.3,6.8]</b> | <b>97.0</b> | <b>[93.2,98.7]</b> | <b>100.0</b>  |

#### 4.62.7 Not seen PCP- Do not like doctors in general

Universe: Respondents who have not seen their PCP in the last 12 months

|   | Yes        |                  | No PCP visit: don't like doctors |                    | Total<br>Row% |
|---|------------|------------------|----------------------------------|--------------------|---------------|
|   | Row%       | 95%CI            | No<br>Row%                       | 95%CI              |               |
| <b>FPL category</b>                                 |            |                  |                                  |                    |               |
| 0-35% (n=166)                                       | 1.5        | [0.4,6.0]        | 98.5                             | [94.0,99.6]        | 100.0         |
| 36-99% (n=163)                                      | 1.4        | [0.4,4.9]        | 98.6                             | [95.1,99.6]        | 100.0         |
| ≥ 100%(n = 123)                                     | 1.4        | [0.4,4.5]        | 98.6                             | [95.5,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.0093     |                  |                                  |                    |               |
| Design-based F(1.78, 785.26) =                      | 0.0053     | Pr =             | 0.991                            |                    |               |
| <b>Region</b>                                       |            |                  |                                  |                    |               |
| UP/NW/NE (n=70)                                     | 0.7        | [0.1,4.8]        | 99.3                             | [95.2,99.9]        | 100.0         |
| W/E Central/E (n=122)                               | 1.0        | [0.2,4.0]        | 99.0                             | [96.0,99.8]        | 100.0         |
| S Central/SW/SE (n=107)                             | 1.9        | [0.3,12.5]       | 98.1                             | [87.5,99.7]        | 100.0         |
| Detroit Metro (n=153)                               | 1.6        | [0.5,5.1]        | 98.4                             | [94.9,99.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.4674     |                  |                                  |                    |               |
| Design-based F(2.05, 899.87) =                      | 0.1745     | Pr =             | 0.845                            |                    |               |
| <b>Low healthcare utilizers</b>                     |            |                  |                                  |                    |               |
| Yes (n=206)   | 2.4        | [0.9,6.5]        | 97.6                             | [93.5,99.1]        | 100.0         |
| No (n=246)  | 0.6        | [0.1,2.5]        | 99.4                             | [97.5,99.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.5070     |                  |                                  |                    |               |
| Design-based F(1.00, 440.00) =                      | 2.7571     | Pr =             | 0.098                            |                    |               |
| <b>High ER utilizers</b>                            |            |                  |                                  |                    |               |
| Yes (n=13)  | 0.0        |                  | 100.0                            |                    | 100.0         |
| No (n=439)  | 1.5        | [0.6,3.6]        | 98.5                             | [96.4,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2755     |                  |                                  |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.1912     | Pr =             | 0.662                            |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |            |                  |                                  |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 0.0        |                  | 100.0                            |                    | 100.0         |
| No chronic disease (n=408)                          | 1.6        | [0.7,3.8]        | 98.4                             | [96.2,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7014     |                  |                                  |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.5357     | Pr =             | 0.465                            |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |            |                  |                                  |                    |               |
| MH/SA (HEDIS) (n=125)                               | 0.4        | [0.1,3.1]        | 99.6                             | [96.9,99.9]        | 100.0         |
| No MH/SA (n=327)                                    | 1.9        | [0.7,4.6]        | 98.1                             | [95.4,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.2501     |                  |                                  |                    |               |
| Design-based F(1.00, 440.00) =                      | 1.9966     | Pr =             | 0.158                            |                    |               |
| <b>Total (n=452)</b>                                | <b>1.5</b> | <b>[0.6,3.4]</b> | <b>98.5</b>                      | <b>[96.6,99.4]</b> | <b>100.0</b>  |

#### 4.62.8 Not seen PCP- Other

Universe: Respondents who have not seen their PCP in the last 12 months

|   | Yes         |                    | No PCP visit: other response—record |                    | Total<br>Row% |
|---|-------------|--------------------|-------------------------------------|--------------------|---------------|
|   | Row%        | 95%CI              | No<br>Row%                          | 95%CI              |               |
| <b>FPL category</b>                                 |             |                    |                                     |                    |               |
| 0-35% (n=166)                                       | 27.0        | [19.8,35.7]        | 73.0                                | [64.3,80.2]        | 100.0         |
| 36-99% (n=163)                                      | 36.6        | [27.4,46.9]        | 63.4                                | [53.1,72.6]        | 100.0         |
| ≥ 100%(n = 123)                                     | 32.3        | [23.8,42.1]        | 67.7                                | [57.9,76.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.6061      |                    |                                     |                    |               |
| Design-based F(1.92, 846.99) =                      | 1.3500      | Pr =               | 0.260                               |                    |               |
| <b>Region</b>                                       |             |                    |                                     |                    |               |
| UP/NW/NE (n=70)                                     | 25.2        | [16.2,36.9]        | 74.8                                | [63.1,83.8]        | 100.0         |
| W/E Central/E (n=122)                               | 38.5        | [29.2,48.8]        | 61.5                                | [51.2,70.8]        | 100.0         |
| S Central/SW/SE (n=107)                             | 26.0        | [18.1,35.8]        | 74.0                                | [64.2,81.9]        | 100.0         |
| Detroit Metro (n=153)                               | 29.6        | [21.1,39.7]        | 70.4                                | [60.3,78.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.8654      |                    |                                     |                    |               |
| Design-based F(2.53, 1114.01) =                     | 1.4260      | Pr =               | 0.238                               |                    |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                                     |                    |               |
| Yes (n=206)   | 19.5        | [13.8,26.8]        | 80.5                                | [73.2,86.2]        | 100.0         |
| No (n=246)  | 40.8        | [33.3,48.8]        | 59.2                                | [51.2,66.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 24.1422     |                    |                                     |                    |               |
| Design-based F(1.00, 440.00) =                      | 15.6600     | Pr =               | 0.000                               |                    |               |
| <b>High ER utilizers</b>                            |             |                    |                                     |                    |               |
| Yes (n=13)  | 41.1        | [17.0,70.4]        | 58.9                                | [29.6,83.0]        | 100.0         |
| No (n=439)  | 30.2        | [25.0,36.0]        | 69.8                                | [64.0,75.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.9479      |                    |                                     |                    |               |
| Design-based F(1.00, 440.00) =                      | 0.5633      | Pr =               | 0.453                               |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                                     |                    |               |
| Chronic disease (HEDIS) (n=44)                      | 43.5        | [26.9,61.7]        | 56.5                                | [38.3,73.1]        | 100.0         |
| No chronic disease (n=408)                          | 29.3        | [24.0,35.2]        | 70.7                                | [64.8,76.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.6937      |                    |                                     |                    |               |
| Design-based F(1.00, 440.00) =                      | 2.4740      | Pr =               | 0.116                               |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                                     |                    |               |
| MH/SA (HEDIS) (n=125)                               | 46.4        | [35.3,57.9]        | 53.6                                | [42.1,64.7]        | 100.0         |
| No MH/SA (n=327)                                    | 24.6        | [19.5,30.6]        | 75.4                                | [69.4,80.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 20.3159     |                    |                                     |                    |               |
| Design-based F(1.00, 440.00) =                      | 12.3653     | Pr =               | 0.000                               |                    |               |
| <b>Total (n=452)</b>                                | <b>30.6</b> | <b>[25.6,36.3]</b> | <b>69.4</b>                         | <b>[63.7,74.4]</b> | <b>100.0</b>  |

#### 4.62.9 Not seen PCP- Don't know

*Universe:* Respondents who have not seen their PCP in the last 12 months

| <hr/>                    |                |
|--------------------------|----------------|
| No PCP visit: don't know | No.            |
| Yes                      | 237.7          |
| No                       | 51027.2        |
| <b>Total</b>             | <b>51264.9</b> |
| <hr/>                    |                |

#### 4.62.10 Not seen PCP- Refused

*Universe:* Respondents who have not seen their PCP in the last 12 months

| <hr/>                 |                |
|-----------------------|----------------|
| No PCP visit: refused | No.            |
| No                    | 51264.9        |
| <b>Total</b>          | <b>51264.9</b> |
| <hr/>                 |                |



#### 4.63 Q: Did you and the primary care provider talk about things you can do to be healthy and prevent medical problems?

Universe: Respondents who have seen their PCP in the past 12 months

|   | PCP talk prevention |                    |            |                  |            |                  | Total<br>Row% |
|---|---------------------|--------------------|------------|------------------|------------|------------------|---------------|
|   | Yes                 |                    | No         |                  | Don't know |                  |               |
|   | Row%                | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                     |                    |            |                  |            |                  |               |
| 0-35% (n=1,322)                                     | 90.8                | [88.3,92.7]        | 9.1        | [7.2,11.5]       | 0.1        | [0.0,0.4]        | 100.0         |
| 36-99% (n=1,209)                                    | 91.7                | [89.5,93.4]        | 8.0        | [6.2,10.1]       | 0.4        | [0.1,1.0]        | 100.0         |
| ≥ 100% (n = 855)                                    | 91.1                | [88.2,93.4]        | 7.6        | [5.7,10.0]       | 1.3        | [0.4,4.3]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 15.9945             |                    |            |                  |            |                  |               |
| Design-based F(3.65, 12308.08) =                    | 2.7111              | Pr =               | 0.033      |                  |            |                  |               |
| <b>Region</b>                                       |                     |                    |            |                  |            |                  |               |
| UP/NW/NE (n=638)                                    | 93.7                | [91.1,95.5]        | 6.3        | [4.5,8.9]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=1,074)                             | 91.2                | [88.8,93.0]        | 7.7        | [6.0,9.7]        | 1.2        | [0.5,3.0]        | 100.0         |
| S Central/SW/SE (n=666)                             | 92.8                | [90.0,94.9]        | 7.2        | [5.1,10.0]       | 0.0        |                  | 100.0         |
| Detroit Metro (n=1,008)                             | 89.8                | [86.9,92.0]        | 10.0       | [7.8,12.9]       | 0.2        | [0.1,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 27.3412             |                    |            |                  |            |                  |               |
| Design-based F(4.29, 14470.64) =                    | 3.5189              | Pr =               | 0.006      |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                     |                    |            |                  |            |                  |               |
| Yes (n=168)   | 86.1                | [77.0,92.0]        | 13.9       | [8.0,23.0]       | 0.0        |                  | 100.0         |
| No (n=3,218)  | 91.4                | [90.0,92.7]        | 8.1        | [6.9,9.5]        | 0.5        | [0.2,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.7625              |                    |            |                  |            |                  |               |
| Design-based F(2.00, 6731.18) =                     | 1.9911              | Pr =               | 0.137      |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                     |                    |            |                  |            |                  |               |
| Yes (n=130)   | 87.3                | [74.4,94.2]        | 12.7       | [5.8,25.6]       | 0.0        |                  | 100.0         |
| No (n=3,256)  | 91.3                | [89.8,92.5]        | 8.3        | [7.1,9.7]        | 0.5        | [0.2,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.2481              |                    |            |                  |            |                  |               |
| Design-based F(1.94, 6556.75) =                     | 0.7719              | Pr =               | 0.459      |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                     |                    |            |                  |            |                  |               |
| Chronic disease (HEDIS) (n=1,095)                   | 94.7                | [92.6,96.2]        | 4.7        | [3.4,6.4]        | 0.6        | [0.1,3.0]        | 100.0         |
| No chronic disease (n=2,291)                        | 89.6                | [87.7,91.2]        | 10.1       | [8.4,11.9]       | 0.4        | [0.2,0.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 27.1289             |                    |            |                  |            |                  |               |
| Design-based F(1.81, 6115.34) =                     | 6.3259              | Pr =               | 0.003      |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                     |                    |            |                  |            |                  |               |
| MH/SA (HEDIS) (n=1,820)                             | 92.7                | [90.7,94.2]        | 7.2        | [5.6,9.1]        | 0.1        | [0.0,0.4]        | 100.0         |
| No MH/SA (n=1,566)                                  | 89.3                | [87.0,91.2]        | 9.9        | [8.1,12.1]       | 0.8        | [0.3,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 16.5639             |                    |            |                  |            |                  |               |
| Design-based F(1.84, 6217.65) =                     | 5.3472              | Pr =               | 0.006      |                  |            |                  |               |
| <b>Total (n=3,386)</b>                              | <b>91.1</b>         | <b>[89.6,92.3]</b> | <b>8.5</b> | <b>[7.3,9.9]</b> | <b>0.4</b> | <b>[0.2,0.9]</b> | <b>100.0</b>  |

#### 4.64 Q: Do you remember completing the Health Risk Assessment?

Universe: All respondents

|   | Did you complete HRA? |                    |             |                    |            |                  | Total<br>Row% |
|---|-----------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                   |                    | No          |                    | Don't know |                  |               |
|   | Row%                  | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                       |                    |             |                    |            |                  |               |
| 0-35% (n=1,599)                                     | 49.7                  | [46.6,52.8]        | 41.5        | [38.5,44.7]        | 8.8        | [7.1,10.8]       | 100.0         |
| 36-99% (n=1,450)                                    | 46.9                  | [43.8,50.0]        | 45.6        | [42.5,48.7]        | 7.6        | [5.9,9.7]        | 100.0         |
| ≥ 100% (n = 1,040)                                  | 51.6                  | [48.1,55.1]        | 41.8        | [38.3,45.3]        | 6.6        | [5.2,8.5]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.0982                |                    |             |                    |            |                  |               |
| Design-based F(3.81, 15516.82) =                    | 1.6211                | Pr =               | 0.169       |                    |            |                  |               |
| <b>Region</b>                                       |                       |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 54.2                  | [50.1,58.3]        | 37.3        | [33.4,41.4]        | 8.4        | [6.5,10.9]       | 100.0         |
| W/E Central/E (n=1,264)                             | 52.3                  | [49.1,55.5]        | 40.4        | [37.3,43.6]        | 7.4        | [5.8,9.3]        | 100.0         |
| S Central/SW/SE (n=837)                             | 47.0                  | [42.9,51.1]        | 43.3        | [39.3,47.3]        | 9.7        | [7.3,12.9]       | 100.0         |
| Detroit Metro (n=1,242)                             | 47.3                  | [43.8,50.7]        | 45.1        | [41.7,48.6]        | 7.6        | [5.8,9.8]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 16.7587               |                    |             |                    |            |                  |               |
| Design-based F(5.24, 21344.54) =                    | 2.0521                | Pr =               | 0.065       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                       |                    |             |                    |            |                  |               |
| Yes (n=490)   | 38.5                  | [32.8,44.4]        | 52.5        | [46.7,58.4]        | 9.0        | [5.9,13.4]       | 100.0         |
| No (n=3,599)  | 51.2                  | [49.1,53.3]        | 41.0        | [38.9,43.0]        | 7.8        | [6.7,9.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 34.8916               |                    |             |                    |            |                  |               |
| Design-based F(1.98, 8088.72) =                     | 7.4569                | Pr =               | 0.001       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                       |                    |             |                    |            |                  |               |
| Yes (n=156)   | 36.3                  | [27.5,46.2]        | 54.1        | [44.1,63.8]        | 9.6        | [5.2,16.9]       | 100.0         |
| No (n=3,933)  | 49.9                  | [47.9,51.9]        | 42.2        | [40.2,44.2]        | 7.9        | [6.8,9.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 12.7376               |                    |             |                    |            |                  |               |
| Design-based F(2.00, 8135.08) =                     | 3.5494                | Pr =               | 0.029       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                       |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 51.0                  | [47.4,54.6]        | 40.7        | [37.3,44.3]        | 8.2        | [6.2,10.8]       | 100.0         |
| No chronic disease (n=2,928)                        | 48.7                  | [46.3,51.0]        | 43.4        | [41.1,45.7]        | 7.9        | [6.7,9.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.2253                |                    |             |                    |            |                  |               |
| Design-based F(1.97, 8035.34) =                     | 0.6772                | Pr =               | 0.506       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                       |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,033)                             | 49.1                  | [46.4,51.9]        | 43.3        | [40.6,46.1]        | 7.6        | [6.2,9.2]        | 100.0         |
| No MH/SA (n=2,056)                                  | 49.4                  | [46.6,52.2]        | 42.2        | [39.5,45.0]        | 8.4        | [6.9,10.3]       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2665                |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8129.93) =                     | 0.3662                | Pr =               | 0.693       |                    |            |                  |               |
| <b>Total (n=4,089)</b>                              | <b>49.3</b>           | <b>[47.3,51.2]</b> | <b>42.7</b> | <b>[40.8,44.7]</b> | <b>8.0</b> | <b>[6.9,9.2]</b> | <b>100.0</b>  |

## 4.65 Q: What led you to complete it?

### 4.65.1 Completed HRA- PCP suggested it

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: PCP suggested |                    |             |                    | Total<br>Row% |
|---|-----------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                 | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                             |                    |             |                    |               |
| 0-35% (n=830)                                       | 44.7                        | [40.5,49.0]        | 55.3        | [51.0,59.5]        | 100.0         |
| 36-99% (n=726)                                      | 48.0                        | [43.6,52.4]        | 52.0        | [47.6,56.4]        | 100.0         |
| ≥ 100% (n = 546)                                    | 46.3                        | [41.3,51.3]        | 53.7        | [48.7,58.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.6516                      |                    |             |                    |               |
| Design-based F(1.95, 4068.29) =                     | 0.6070                      | Pr =               | 0.541       |                    |               |
| <b>Region</b>                                       |                             |                    |             |                    |               |
| UP/NW/NE (n=414)                                    | 47.5                        | [42.0,53.0]        | 52.5        | [47.0,58.0]        | 100.0         |
| W/E Central/E (n=690)                               | 47.1                        | [42.9,51.4]        | 52.9        | [48.6,57.1]        | 100.0         |
| S Central/SW/SE (n=403)                             | 51.1                        | [45.1,57.1]        | 48.9        | [42.9,54.9]        | 100.0         |
| Detroit Metro (n=595)                               | 42.5                        | [37.7,47.4]        | 57.5        | [52.6,62.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 8.8055                      |                    |             |                    |               |
| Design-based F(2.69, 5632.02) =                     | 2.2486                      | Pr =               | 0.088       |                    |               |
| <b>Low healthcare utilizers</b>                     |                             |                    |             |                    |               |
| Yes (n=189)   | 31.0                        | [23.1,40.1]        | 69.0        | [59.9,76.9]        | 100.0         |
| No (n=1,913)  | 47.9                        | [45.1,50.8]        | 52.1        | [49.2,54.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 25.5441                     |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 11.8486                     | Pr =               | 0.001       |                    |               |
| <b>High ER utilizers</b>                            |                             |                    |             |                    |               |
| Yes (n=60)  | 49.9                        | [34.8,65.1]        | 50.1        | [34.9,65.2]        | 100.0         |
| No (n=2,042)  | 45.8                        | [43.0,48.6]        | 54.2        | [51.4,57.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4609                      |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.2638                      | Pr =               | 0.608       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |                    |             |                    |               |
| Chronic disease (HEDIS) (n=625)                     | 48.1                        | [43.2,53.0]        | 51.9        | [47.0,56.8]        | 100.0         |
| No chronic disease (n=1,477)                        | 45.2                        | [41.9,48.4]        | 54.8        | [51.6,58.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3916                      |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.9516                      | Pr =               | 0.329       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |                    |             |                    |               |
| MH/SA (HEDIS) (n=1,043)                             | 46.7                        | [42.9,50.4]        | 53.3        | [49.6,57.1]        | 100.0         |
| No MH/SA (n=1,059)                                  | 45.2                        | [41.4,49.2]        | 54.8        | [50.8,58.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4240                      |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.2601                      | Pr =               | 0.610       |                    |               |
| <b>Total (n=2,102)</b>                              | <b>45.9</b>                 | <b>[43.2,48.7]</b> | <b>54.1</b> | <b>[51.3,56.8]</b> | <b>100.0</b>  |

#### 4.65.2 Completed HRA- Got it in mail

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: got in mail |                    |             |                    | Total<br>Row% |
|---|---------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%               | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                           |                    |             |                    |               |
| 0-35% (n=830)                                       | 33.8                      | [29.8,38.0]        | 66.2        | [62.0,70.2]        | 100.0         |
| 36-99% (n=726)                                      | 31.8                      | [27.8,36.2]        | 68.2        | [63.8,72.2]        | 100.0         |
| ≥ 100%(n = 546)                                     | 32.4                      | [28.1,37.1]        | 67.6        | [62.9,71.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.6987                    |                    |             |                    |               |
| Design-based F(1.93, 4035.18) =                     | 0.2545                    | Pr =               | 0.768       |                    |               |
| <b>Region</b>                                       |                           |                    |             |                    |               |
| UP/NW/NE (n=414)                                    | 31.8                      | [27.0,37.0]        | 68.2        | [63.0,73.0]        | 100.0         |
| W/E Central/E (n=690)                               | 31.1                      | [27.3,35.2]        | 68.9        | [64.8,72.7]        | 100.0         |
| S Central/SW/SE (n=403)                             | 29.3                      | [24.4,34.7]        | 70.7        | [65.3,75.6]        | 100.0         |
| Detroit Metro (n=595)                               | 36.1                      | [31.4,41.2]        | 63.9        | [58.8,68.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 7.4362                    |                    |             |                    |               |
| Design-based F(2.64, 5519.95) =                     | 1.9582                    | Pr =               | 0.126       |                    |               |
| <b>Low healthcare utilizers</b>                     |                           |                    |             |                    |               |
| Yes (n=189)   | 35.3                      | [26.3,45.4]        | 64.7        | [54.6,73.7]        | 100.0         |
| No (n=1,913)  | 32.7                      | [30.0,35.4]        | 67.3        | [64.6,70.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.6877                    |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.2742                    | Pr =               | 0.601       |                    |               |
| <b>High ER utilizers</b>                            |                           |                    |             |                    |               |
| Yes (n=60)  | 26.4                      | [13.9,44.2]        | 73.6        | [55.8,86.1]        | 100.0         |
| No (n=2,042)  | 33.2                      | [30.6,35.9]        | 66.8        | [64.1,69.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3985                    |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.6484                    | Pr =               | 0.421       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |                    |             |                    |               |
| Chronic disease (HEDIS) (n=625)                     | 32.4                      | [28.0,37.1]        | 67.6        | [62.9,72.0]        | 100.0         |
| No chronic disease (n=1,477)                        | 33.2                      | [30.1,36.4]        | 66.8        | [63.6,69.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1068                    |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.0729                    | Pr =               | 0.787       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |                    |             |                    |               |
| MH/SA (HEDIS) (n=1,043)                             | 31.7                      | [28.2,35.5]        | 68.3        | [64.5,71.8]        | 100.0         |
| No MH/SA (n=1,059)                                  | 34.1                      | [30.4,38.0]        | 65.9        | [62.0,69.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.3345                    |                    |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.7925                    | Pr =               | 0.373       |                    |               |
| <b>Total (n=2,102)</b>                              | <b>33.0</b>               | <b>[30.4,35.6]</b> | <b>67.0</b> | <b>[64.4,69.6]</b> | <b>100.0</b>  |

### 4.65.3 Completed HRA- At enrollment on the phone

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: at enrollment via phone |             |            |             | Total<br>Row% |
|---|---------------------------------------|-------------|------------|-------------|---------------|
|   | Yes<br>Row%                           | 95%CI       | No<br>Row% | 95%CI       |               |
| <b>FPL category</b>                                 |                                       |             |            |             |               |
| 0-35% (n=830)                                       | 11.9                                  | [9.2,15.2]  | 88.1       | [84.8,90.8] | 100.0         |
| 36-99% (n=726)                                      | 13.2                                  | [10.6,16.3] | 86.8       | [83.7,89.4] | 100.0         |
| ≥ 100% (n = 546)                                    | 13.8                                  | [10.7,17.6] | 86.2       | [82.4,89.3] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2092                                |             |            |             |               |
| Design-based F(1.90, 3967.54) =                     | 0.4262                                | Pr =        | 0.642      |             |               |
| <b>Region</b>                                       |                                       |             |            |             |               |
| UP/NW/NE (n=414)                                    | 10.9                                  | [8.2,14.4]  | 89.1       | [85.6,91.8] | 100.0         |
| W/E Central/E (n=690)                               | 13.1                                  | [10.4,16.5] | 86.9       | [83.5,89.6] | 100.0         |
| S Central/SW/SE (n=403)                             | 9.7                                   | [6.9,13.4]  | 90.3       | [86.6,93.1] | 100.0         |
| Detroit Metro (n=595)                               | 13.9                                  | [10.8,17.9] | 86.1       | [82.1,89.2] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.0361                                |             |            |             |               |
| Design-based F(2.57, 5375.66) =                     | 1.3519                                | Pr =        | 0.258      |             |               |
| <b>Low healthcare utilizers</b>                     |                                       |             |            |             |               |
| Yes (n=189)   | 17.1                                  | [10.6,26.5] | 82.9       | [73.5,89.4] | 100.0         |
| No (n=1,913)  | 12.0                                  | [10.3,14.0] | 88.0       | [86.0,89.7] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.1923                                |             |            |             |               |
| Design-based F(1.00, 2090.00) =                     | 1.9772                                | Pr =        | 0.160      |             |               |
| <b>High ER utilizers</b>                            |                                       |             |            |             |               |
| Yes (n=60)  | 7.0                                   | [2.3,19.6]  | 93.0       | [80.4,97.7] | 100.0         |
| No (n=2,042)  | 12.8                                  | [11.0,14.9] | 87.2       | [85.1,89.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.0469                                |             |            |             |               |
| Design-based F(1.00, 2090.00) =                     | 1.2706                                | Pr =        | 0.260      |             |               |
| <b>Chronic disease (HEDIS)</b>                      |                                       |             |            |             |               |
| Chronic disease (HEDIS) (n=625)                     | 11.2                                  | [8.5,14.4]  | 88.8       | [85.6,91.5] | 100.0         |
| No chronic disease (n=1,477)                        | 13.2                                  | [11.0,15.6] | 86.8       | [84.4,89.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.4782                                |             |            |             |               |
| Design-based F(1.00, 2090.00) =                     | 1.0650                                | Pr =        | 0.302      |             |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                       |             |            |             |               |
| MH/SA (HEDIS) (n=1,043)                             | 11.0                                  | [8.8,13.6]  | 89.0       | [86.4,91.2] | 100.0         |
| No MH/SA (n=1,059)                                  | 14.2                                  | [11.6,17.3] | 85.8       | [82.7,88.4] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.0158                                |             |            |             |               |
| Design-based F(1.00, 2090.00) =                     | 2.9774                                | Pr =        | 0.085      |             |               |
| <b>Total (n=2,102)</b>                              | 12.6                                  | [10.9,14.6] | 87.4       | [85.4,89.1] | 100.0         |

#### 4.65.4 Q: Did you take the form to your primary care provider?

Universe: Respondents who completed a Health Risk Assessment received by mail or over the phone

|   | Did you take the form to PCP? |             |       |             |            |            |       |
|---|-------------------------------|-------------|-------|-------------|------------|------------|-------|
|   | Yes                           |             | No    |             | Don't know |            | Total |
|   | Row%                          | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI      | Row%  |
| <b>FPL category</b>                                 |                               |             |       |             |            |            |       |
| 0-35% (n=250)                                       | 68.4                          | [60.0,75.7] | 25.9  | [19.0,34.2] | 5.7        | [2.9,11.0] | 100.0 |
| 36-99% (n=205)                                      | 74.0                          | [64.1,82.0] | 19.8  | [12.5,29.8] | 6.2        | [2.9,12.7] | 100.0 |
| ≥ 100% (n = 167)                                    | 78.9                          | [71.1,85.0] | 16.1  | [10.8,23.3] | 5.0        | [2.4,10.3] | 100.0 |
| Pearson: Uncorrected chi2(4) =                      | 6.2215                        |             |       |             |            |            |       |
| Design-based F(3.67, 2237.87) =                     | 1.0026                        | Pr =        | 0.401 |             |            |            |       |
| <b>Region</b>                                       |                               |             |       |             |            |            |       |
| UP/NW/NE (n=123)                                    | 78.3                          | [69.0,85.4] | 13.6  | [8.0,22.1]  | 8.1        | [4.0,15.4] | 100.0 |
| W/E Central/E (n=201)                               | 79.4                          | [72.1,85.2] | 13.5  | [8.9,19.9]  | 7.1        | [3.8,12.8] | 100.0 |
| S Central/SW/SE (n=116)                             | 77.4                          | [66.6,85.6] | 19.6  | [11.9,30.6] | 2.9        | [1.1,7.4]  | 100.0 |
| Detroit Metro (n=182)                               | 64.0                          | [54.1,72.8] | 30.7  | [22.3,40.6] | 5.4        | [2.3,12.2] | 100.0 |
| Pearson: Uncorrected chi2(6) =                      | 24.6830                       |             |       |             |            |            |       |
| Design-based F(4.92, 2999.31) =                     | 3.2118                        | Pr =        | 0.007 |             |            |            |       |
| <b>Low healthcare utilizers</b>                     |                               |             |       |             |            |            |       |
| Yes (n=59)  | 34.0                          | [21.2,49.6] | 55.9  | [38.7,71.8] | 10.1       | [2.8,30.9] | 100.0 |
| No (n=563)  | 77.7                          | [72.6,82.1] | 17.2  | [13.2,22.2] | 5.1        | [3.3,7.6]  | 100.0 |
| Pearson: Uncorrected chi2(2) =                      | 70.2122                       |             |       |             |            |            |       |
| Design-based F(1.90, 1160.64) =                     | 13.5086                       | Pr =        | 0.000 |             |            |            |       |
| <b>High ER utilizers</b>                            |                               |             |       |             |            |            |       |
| Yes (n=11)  | 64.9                          | [21.4,92.6] | 35.1  | [7.4,78.6]  | 0.0        |            | 100.0 |
| No (n=611)  | 72.1                          | [66.7,76.9] | 22.0  | [17.5,27.3] | 5.9        | [3.8,9.0]  | 100.0 |
| Pearson: Uncorrected chi2(2) =                      | 2.2619                        |             |       |             |            |            |       |
| Design-based F(1.62, 990.08) =                      | 0.3972                        | Pr =        | 0.629 |             |            |            |       |
| <b>Chronic disease (HEDIS)</b>                      |                               |             |       |             |            |            |       |
| Chronic disease (HEDIS) (n=182)                     | 81.0                          | [73.4,86.8] | 13.3  | [8.3,20.5]  | 5.7        | [3.2,10.2] | 100.0 |
| No chronic disease (n=440)                          | 68.9                          | [62.2,74.8] | 25.4  | [19.8,32.0] | 5.7        | [3.3,9.8]  | 100.0 |
| Pearson: Uncorrected chi2(2) =                      | 10.0845                       |             |       |             |            |            |       |
| Design-based F(1.98, 1206.19) =                     | 3.7816                        | Pr =        | 0.023 |             |            |            |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |             |       |             |            |            |       |
| MH/SA (HEDIS) (n=297)                               | 71.9                          | [63.5,78.9] | 24.1  | [17.2,32.7] | 4.0        | [2.3,7.0]  | 100.0 |
| No MH/SA (n=325)                                    | 71.9                          | [64.5,78.3] | 20.9  | [15.3,27.9] | 7.2        | [3.9,12.7] | 100.0 |
| Pearson: Uncorrected chi2(2) =                      | 3.3065                        |             |       |             |            |            |       |
| Design-based F(1.88, 1148.58) =                     | 0.8908                        | Pr =        | 0.405 |             |            |            |       |
| <b>Total (n=622)</b>                                | 71.9                          | [66.5,76.7] | 22.4  | [17.8,27.7] | 5.7        | [3.7,8.8]  | 100.0 |

#### 4.65.5 Completed HRA- Gift card/money/reward

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: gift card |                  |             |                    | Total<br>Row% |
|---|-------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%             | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                         |                  |             |                    |               |
| 0-35% (n=830)                                       | 2.5                     | [1.5,4.0]        | 97.5        | [96.0,98.5]        | 100.0         |
| 36-99% (n=726)                                      | 2.1                     | [1.2,3.6]        | 97.9        | [96.4,98.8]        | 100.0         |
| ≥ 100% (n = 546)                                    | 3.1                     | [1.9,5.0]        | 96.9        | [95.0,98.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0039                  |                  |             |                    |               |
| Design-based F(1.94, 4048.89) =                     | 0.4515                  | Pr =             | 0.630       |                    |               |
| <b>Region</b>                                       |                         |                  |             |                    |               |
| UP/NW/NE (n=414)                                    | 2.6                     | [1.3,5.1]        | 97.4        | [94.9,98.7]        | 100.0         |
| W/E Central/E (n=690)                               | 3.1                     | [2.0,4.8]        | 96.9        | [95.2,98.0]        | 100.0         |
| S Central/SW/SE (n=403)                             | 1.8                     | [0.9,3.6]        | 98.2        | [96.4,99.1]        | 100.0         |
| Detroit Metro (n=595)                               | 2.3                     | [1.2,4.2]        | 97.7        | [95.8,98.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.0485                  |                  |             |                    |               |
| Design-based F(2.66, 5557.52) =                     | 0.6381                  | Pr =             | 0.572       |                    |               |
| <b>Low healthcare utilizers</b>                     |                         |                  |             |                    |               |
| Yes (n=189)   | 0.2                     | [0.0,1.6]        | 99.8        | [98.4,100.0]       | 100.0         |
| No (n=1,913)  | 2.8                     | [2.0,3.8]        | 97.2        | [96.2,98.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.9739                  |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 10.6219                 | Pr =             | 0.001       |                    |               |
| <b>High ER utilizers</b>                            |                         |                  |             |                    |               |
| Yes (n=60)  | 0.7                     | [0.1,4.9]        | 99.3        | [95.1,99.9]        | 100.0         |
| No (n=2,042)  | 2.5                     | [1.9,3.5]        | 97.5        | [96.5,98.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.9269                  |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 1.8690                  | Pr =             | 0.172       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                         |                  |             |                    |               |
| Chronic disease (HEDIS) (n=625)                     | 3.7                     | [2.0,6.6]        | 96.3        | [93.4,98.0]        | 100.0         |
| No chronic disease (n=1,477)                        | 2.0                     | [1.5,2.9]        | 98.0        | [97.1,98.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.5888                  |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 2.9592                  | Pr =             | 0.086       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                         |                  |             |                    |               |
| MH/SA (HEDIS) (n=1,043)                             | 3.3                     | [2.1,4.9]        | 96.7        | [95.1,97.9]        | 100.0         |
| No MH/SA (n=1,059)                                  | 1.8                     | [1.1,2.7]        | 98.2        | [97.3,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.8877                  |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 4.0587                  | Pr =             | 0.044       |                    |               |
| <b>Total (n=2,102)</b>                              | <b>2.5</b>              | <b>[1.8,3.4]</b> | <b>97.5</b> | <b>[96.6,98.2]</b> | <b>100.0</b>  |

#### 4.65.6 Completed HRA- Health plan suggested

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: health plan suggested |                  |             |                    | Total<br>Row% |
|---|-------------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                         | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                     |                  |             |                    |               |
| 0-35% (n=830)                                       | 7.1                                 | [5.2,9.6]        | 92.9        | [90.4,94.8]        | 100.0         |
| 36-99% (n=726)                                      | 7.6                                 | [5.4,10.7]       | 92.4        | [89.3,94.6]        | 100.0         |
| ≥ 100%(n = 546)                                     | 7.6                                 | [5.4,10.6]       | 92.4        | [89.4,94.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.2289                              |                  |             |                    |               |
| Design-based F(1.94, 4053.29) =                     | 0.0783                              | Pr =             | 0.920       |                    |               |
| <b>Region</b>                                       |                                     |                  |             |                    |               |
| UP/NW/NE (n=414)                                    | 7.5                                 | [4.4,12.5]       | 92.5        | [87.5,95.6]        | 100.0         |
| W/E Central/E (n=690)                               | 7.6                                 | [5.7,10.1]       | 92.4        | [89.9,94.3]        | 100.0         |
| S Central/SW/SE (n=403)                             | 9.7                                 | [6.0,15.3]       | 90.3        | [84.7,94.0]        | 100.0         |
| Detroit Metro (n=595)                               | 6.1                                 | [4.2,8.6]        | 93.9        | [91.4,95.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.1678                              |                  |             |                    |               |
| Design-based F(2.81, 5869.79) =                     | 1.0638                              | Pr =             | 0.361       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                     |                  |             |                    |               |
| Yes (n=189)   | 9.8                                 | [4.6,19.7]       | 90.2        | [80.3,95.4]        | 100.0         |
| No (n=1,913)  | 7.0                                 | [5.8,8.4]        | 93.0        | [91.6,94.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.6836                              |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.7934                              | Pr =             | 0.373       |                    |               |
| <b>High ER utilizers</b>                            |                                     |                  |             |                    |               |
| Yes (n=60)  | 6.3                                 | [2.5,15.1]       | 93.7        | [84.9,97.5]        | 100.0         |
| No (n=2,042)  | 7.3                                 | [6.0,9.0]        | 92.7        | [91.0,94.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0996                              |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.0986                              | Pr =             | 0.754       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                  |             |                    |               |
| Chronic disease (HEDIS) (n=625)                     | 7.8                                 | [5.7,10.6]       | 92.2        | [89.4,94.3]        | 100.0         |
| No chronic disease (n=1,477)                        | 7.1                                 | [5.6,9.1]        | 92.9        | [90.9,94.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2482                              |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.1792                              | Pr =             | 0.672       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                  |             |                    |               |
| MH/SA (HEDIS) (n=1,043)                             | 6.4                                 | [4.8,8.6]        | 93.6        | [91.4,95.2]        | 100.0         |
| No MH/SA (n=1,059)                                  | 8.1                                 | [6.2,10.6]       | 91.9        | [89.4,93.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.2161                              |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 1.3457                              | Pr =             | 0.246       |                    |               |
| <b>Total (n=2,102)</b>                              | <b>7.3</b>                          | <b>[6.0,8.9]</b> | <b>92.7</b> | <b>[91.1,94.0]</b> | <b>100.0</b>  |



#### 4.65.7 Completed HRA- To save money on copays/cost sharing

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: to save money |           |            |              | Total<br>Row% |
|---|-----------------------------|-----------|------------|--------------|---------------|
|   | Yes<br>Row%                 | 95%CI     | No<br>Row% | 95%CI        |               |
| <b>FPL category</b>                                 |                             |           |            |              |               |
| 0-35% (n=830)                                       | 0.0                         |           | 100.0      |              | 100.0         |
| 36-99% (n=726)                                      | 0.0                         |           | 100.0      |              | 100.0         |
| ≥ 100% (n = 546)                                    | 0.3                         | [0.1,1.6] | 99.7       | [98.4,99.9]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.8223                      |           |            |              |               |
| Design-based F(1.70, 3562.96) =                     | 4.3485                      | Pr =      | 0.018      |              |               |
| <b>Region</b>                                       |                             |           |            |              |               |
| UP/NW/NE (n=414)                                    | 0.0                         |           | 100.0      |              | 100.0         |
| W/E Central/E (n=690)                               | 0.2                         | [0.0,1.3] | 99.8       | [98.7,100.0] | 100.0         |
| S Central/SW/SE (n=403)                             | 0.0                         |           | 100.0      |              | 100.0         |
| Detroit Metro (n=595)                               | 0.0                         | [0.0,0.3] | 100.0      | [99.7,100.0] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.5078                      |           |            |              |               |
| Design-based F(2.11, 4412.97) =                     | 0.8460                      | Pr =      | 0.435      |              |               |
| <b>Low healthcare utilizers</b>                     |                             |           |            |              |               |
| Yes (n=189)   | 0.0                         |           | 100.0      |              | 100.0         |
| No (n=1,913)  | 0.1                         | [0.0,0.4] | 99.9       | [99.6,100.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2049                      |           |            |              |               |
| Design-based F(1.00, 2090.00) =                     | 0.2147                      | Pr =      | 0.643      |              |               |
| <b>High ER utilizers</b>                            |                             |           |            |              |               |
| Yes (n=60)  | 0.0                         |           | 100.0      |              | 100.0         |
| No (n=2,042)  | 0.1                         | [0.0,0.4] | 99.9       | [99.6,100.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0512                      |           |            |              |               |
| Design-based F(1.00, 2090.00) =                     | 0.0532                      | Pr =      | 0.818      |              |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |           |            |              |               |
| Chronic disease (HEDIS) (n=625)                     | 0.1                         | [0.0,0.5] | 99.9       | [99.5,100.0] | 100.0         |
| No chronic disease (n=1,477)                        | 0.1                         | [0.0,0.5] | 99.9       | [99.5,100.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0004                      |           |            |              |               |
| Design-based F(1.00, 2090.00) =                     | 0.0007                      | Pr =      | 0.979      |              |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |           |            |              |               |
| MH/SA (HEDIS) (n=1,043)                             | 0.0                         | [0.0,0.3] | 100.0      | [99.7,100.0] | 100.0         |
| No MH/SA (n=1,059)                                  | 0.1                         | [0.0,0.7] | 99.9       | [99.3,100.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3183                      |           |            |              |               |
| Design-based F(1.00, 2090.00) =                     | 0.5535                      | Pr =      | 0.457      |              |               |
| <b>Total (n=2,102)</b>                              | 0.1                         | [0.0,0.3] | 99.9       | [99.7,100.0] | 100.0         |

#### 4.65.8 Completed HRA- To stay on top of my health

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: to stay healthy |                  |             |                    | Total<br>Row% |
|---|-------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                   | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                               |                  |             |                    |               |
| 0-35% (n=830)                                       | 3.0                           | [1.8,4.8]        | 97.0        | [95.2,98.2]        | 100.0         |
| 36-99% (n=726)                                      | 2.6                           | [1.7,4.0]        | 97.4        | [96.0,98.3]        | 100.0         |
| ≥ 100% (n = 546)                                    | 2.9                           | [1.7,5.0]        | 97.1        | [95.0,98.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1690                        |                  |             |                    |               |
| Design-based F(1.88, 3923.70) =                     | 0.0739                        | Pr =             | 0.919       |                    |               |
| <b>Region</b>                                       |                               |                  |             |                    |               |
| UP/NW/NE (n=414)                                    | 1.5                           | [0.7,3.2]        | 98.5        | [96.8,99.3]        | 100.0         |
| W/E Central/E (n=690)                               | 3.1                           | [2.0,4.8]        | 96.9        | [95.2,98.0]        | 100.0         |
| S Central/SW/SE (n=403)                             | 2.8                           | [1.5,5.0]        | 97.2        | [95.0,98.5]        | 100.0         |
| Detroit Metro (n=595)                               | 3.1                           | [1.8,5.3]        | 96.9        | [94.7,98.2]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.5903                        |                  |             |                    |               |
| Design-based F(2.50, 5224.76) =                     | 0.5032                        | Pr =             | 0.646       |                    |               |
| <b>Low healthcare utilizers</b>                     |                               |                  |             |                    |               |
| Yes (n=189)   | 2.9                           | [1.2,7.1]        | 97.1        | [92.9,98.8]        | 100.0         |
| No (n=1,913)  | 2.9                           | [2.1,4.0]        | 97.1        | [96.0,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0017                        |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.0011                        | Pr =             | 0.974       |                    |               |
| <b>High ER utilizers</b>                            |                               |                  |             |                    |               |
| Yes (n=60)  | 3.4                           | [0.5,20.6]       | 96.6        | [79.4,99.5]        | 100.0         |
| No (n=2,042)  | 2.8                           | [2.1,3.9]        | 97.2        | [96.1,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0838                        |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.0363                        | Pr =             | 0.849       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |                  |             |                    |               |
| Chronic disease (HEDIS) (n=625)                     | 4.2                           | [2.4,7.4]        | 95.8        | [92.6,97.6]        | 100.0         |
| No chronic disease (n=1,477)                        | 2.4                           | [1.7,3.4]        | 97.6        | [96.6,98.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.0527                        |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 2.9970                        | Pr =             | 0.084       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |                  |             |                    |               |
| MH/SA (HEDIS) (n=1,043)                             | 3.8                           | [2.5,5.7]        | 96.2        | [94.3,97.5]        | 100.0         |
| No MH/SA (n=1,059)                                  | 2.0                           | [1.3,3.0]        | 98.0        | [97.0,98.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 6.4588                        |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 4.9114                        | Pr =             | 0.027       |                    |               |
| <b>Total (n=2,102)</b>                              | <b>2.9</b>                    | <b>[2.1,3.9]</b> | <b>97.1</b> | <b>[96.1,97.9]</b> | <b>100.0</b>  |

#### 4.65.9 Completed HRA- Other

Universe: Respondents who completed a Health Risk Assessment

|   | HRA complete: other response-record |                  |             |                    | Total<br>Row% |
|---|-------------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                         | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                     |                  |             |                    |               |
| 0-35% (n=830)                                       | 2.6                                 | [1.3,5.1]        | 97.4        | [94.9,98.7]        | 100.0         |
| 36-99% (n=726)                                      | 2.3                                 | [1.3,4.0]        | 97.7        | [96.0,98.7]        | 100.0         |
| ≥ 100%(n = 546)                                     | 3.4                                 | [2.1,5.6]        | 96.6        | [94.4,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1658                              |                  |             |                    |               |
| Design-based F(1.77, 3688.89) =                     | 0.3615                              | Pr =             | 0.670       |                    |               |
| <b>Region</b>                                       |                                     |                  |             |                    |               |
| UP/NW/NE (n=414)                                    | 1.9                                 | [0.8,4.3]        | 98.1        | [95.7,99.2]        | 100.0         |
| W/E Central/E (n=690)                               | 2.2                                 | [1.3,3.7]        | 97.8        | [96.3,98.7]        | 100.0         |
| S Central/SW/SE (n=403)                             | 4.5                                 | [1.8,10.8]       | 95.5        | [89.2,98.2]        | 100.0         |
| Detroit Metro (n=595)                               | 2.5                                 | [1.4,4.6]        | 97.5        | [95.4,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 5.9719                              |                  |             |                    |               |
| Design-based F(2.27, 4738.86) =                     | 1.1199                              | Pr =             | 0.331       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                     |                  |             |                    |               |
| Yes (n=189)   | 7.6                                 | [3.2,16.8]       | 92.4        | [83.2,96.8]        | 100.0         |
| No (n=1,913)  | 2.1                                 | [1.4,3.0]        | 97.9        | [97.0,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 25.4173                             |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 8.4872                              | Pr =             | 0.004       |                    |               |
| <b>High ER utilizers</b>                            |                                     |                  |             |                    |               |
| Yes (n=60)  | 3.6                                 | [0.8,14.3]       | 96.4        | [85.7,99.2]        | 100.0         |
| No (n=2,042)  | 2.7                                 | [1.8,4.0]        | 97.3        | [96.0,98.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2187                              |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.1538                              | Pr =             | 0.695       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                  |             |                    |               |
| Chronic disease (HEDIS) (n=625)                     | 3.0                                 | [1.4,6.0]        | 97.0        | [94.0,98.6]        | 100.0         |
| No chronic disease (n=1,477)                        | 2.6                                 | [1.7,4.1]        | 97.4        | [95.9,98.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1912                              |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 0.0865                              | Pr =             | 0.769       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                  |             |                    |               |
| MH/SA (HEDIS) (n=1,043)                             | 1.8                                 | [1.0,3.1]        | 98.2        | [96.9,99.0]        | 100.0         |
| No MH/SA (n=1,059)                                  | 3.5                                 | [2.1,5.8]        | 96.5        | [94.2,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.9541                              |                  |             |                    |               |
| Design-based F(1.00, 2090.00) =                     | 3.2412                              | Pr =             | 0.072       |                    |               |
| <b>Total (n=2,102)</b>                              | <b>2.7</b>                          | <b>[1.8,4.0]</b> | <b>97.3</b> | <b>[96.0,98.2]</b> | <b>100.0</b>  |

#### 4.65.10 Completed HRA- Don't know

*Universe:* Respondents who completed a Health Risk Assessment

| <b>HRA complete: don't know</b> | No.             |
|---------------------------------|-----------------|
| Yes                             | 7419.2          |
| No                              | 180629.3        |
| <b>Total</b>                    | <b>188048.5</b> |

#### 4.65.11 Completed HRA- Refused

*Universe:* Respondents who completed a Health Risk Assessment

| <hr/>                        |                 |
|------------------------------|-----------------|
| <b>HRA complete: refused</b> | No.             |
| No                           | 188048.5        |
| <b>Total</b>                 | <b>188048.5</b> |
| <hr/>                        |                 |

#### 4.66 Q: I think doing the Health Risk Assessment was valuable for me to improve my health.

Universe: Respondents who completed a Health Risk Assessment

|   | HRA is valuable to improve health |                    |             |                    |             |                   |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|-----------------------------------|--------------------|-------------|--------------------|-------------|-------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree                    |                    | Agree       |                    | Neutral     |                   | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%                              | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI             | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                   |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| 0-35% (n=829)                                       | 21.0                              | [17.5,25.0]        | 63.9        | [59.5,68.1]        | 9.2         | [6.8,12.4]        | 4.4        | [3.0,6.3]        | 0.6               | [0.2,1.9]        | 0.8        | [0.2,2.7]        | 100.0         |
| 36-99% (n=725)                                      | 17.3                              | [14.5,20.6]        | 65.6        | [61.5,69.5]        | 11.8        | [9.3,14.7]        | 4.4        | [3.0,6.4]        | 0.5               | [0.2,1.7]        | 0.3        | [0.1,1.0]        | 100.0         |
| ≥ 100% (n = 546)                                    | 15.9                              | [12.8,19.5]        | 65.6        | [60.9,70.1]        | 10.8        | [8.2,14.1]        | 6.5        | [4.3,9.8]        | 0.6               | [0.2,1.8]        | 0.6        | [0.2,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 12.9213                           |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Design-based F(9.29, 19397.56) =                    | 1.0094                            |                    | Pr =        | 0.430              |             |                   |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                                   |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=414)                                    | 14.0                              | [10.5,18.3]        | 64.4        | [58.8,69.7]        | 13.4        | [9.7,18.3]        | 7.7        | [5.1,11.2]       | 0.0               |                  | 0.5        | [0.2,1.6]        | 100.0         |
| W/E Central/E (n=689)                               | 17.0                              | [14.1,20.2]        | 64.6        | [60.4,68.6]        | 11.4        | [8.8,14.7]        | 6.0        | [4.1,8.7]        | 0.7               | [0.3,1.7]        | 0.3        | [0.1,1.1]        | 100.0         |
| S Central/SW/SE (n=403)                             | 17.8                              | [12.8,24.1]        | 66.8        | [60.6,72.5]        | 11.8        | [8.8,15.8]        | 2.4        | [1.3,4.5]        | 0.4               | [0.1,1.8]        | 0.7        | [0.2,2.4]        | 100.0         |
| Detroit Metro (n=594)                               | 22.1                              | [18.2,26.6]        | 64.0        | [59.0,68.7]        | 7.9         | [5.4,11.5]        | 4.3        | [2.8,6.5]        | 0.7               | [0.2,2.3]        | 0.9        | [0.2,3.3]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 32.2762                           |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Design-based F(12.44, 25982.49) =                   | 1.6347                            |                    | Pr =        | 0.072              |             |                   |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                   |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Yes (n=189)   | 21.8                              | [13.9,32.5]        | 58.7        | [48.4,68.3]        | 12.0        | [6.9,19.9]        | 5.0        | [2.7,9.0]        | 0.4               | [0.1,3.1]        | 2.1        | [0.4,10.8]       | 100.0         |
| No (n=1,911)  | 18.6                              | [16.5,20.9]        | 65.6        | [62.8,68.2]        | 10.0        | [8.4,11.9]        | 4.8        | [3.7,6.1]        | 0.6               | [0.3,1.3]        | 0.4        | [0.2,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 13.0636                           |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Design-based F(4.37, 9122.17) =                     | 1.1984                            |                    | Pr =        | 0.309              |             |                   |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                                   |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Yes (n=60)  | 28.8                              | [17.4,43.8]        | 55.2        | [39.6,69.8]        | 6.7         | [1.6,24.4]        | 7.5        | [2.2,22.2]       | 0.0               |                  | 1.8        | [0.3,12.1]       | 100.0         |
| No (n=2,040)  | 18.6                              | [16.5,21.0]        | 65.1        | [62.3,67.7]        | 10.4        | [8.7,12.2]        | 4.7        | [3.7,6.0]        | 0.6               | [0.3,1.2]        | 0.6        | [0.2,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 8.5786                            |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Design-based F(4.78, 9982.32) =                     | 0.9479                            |                    | Pr =        | 0.446              |             |                   |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=624)                     | 20.6                              | [16.9,25.0]        | 68.1        | [63.3,72.4]        | 6.8         | [4.8,9.5]         | 3.8        | [2.4,5.9]        | 0.1               | [0.0,0.8]        | 0.6        | [0.3,1.5]        | 100.0         |
| No chronic disease (n=1,476)                        | 18.4                              | [15.9,21.2]        | 63.6        | [60.3,66.7]        | 11.4        | [9.5,13.8]        | 5.2        | [4.0,6.7]        | 0.8               | [0.4,1.6]        | 0.6        | [0.2,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 15.3733                           |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Design-based F(4.73, 9879.33) =                     | 2.5001                            |                    | Pr =        | 0.031              |             |                   |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=1,042)                             | 19.5                              | [16.7,22.6]        | 64.4        | [60.7,68.0]        | 9.5         | [7.4,12.0]        | 5.2        | [3.7,7.3]        | 0.5               | [0.2,1.4]        | 0.9        | [0.3,2.6]        | 100.0         |
| No MH/SA (n=1,058)                                  | 18.5                              | [15.4,22.1]        | 65.0        | [61.1,68.8]        | 11.0        | [8.7,13.8]        | 4.5        | [3.3,6.1]        | 0.7               | [0.3,1.8]        | 0.3        | [0.1,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 5.3514                            |                    |             |                    |             |                   |            |                  |                   |                  |            |                  |               |
| Design-based F(4.87, 10175.57) =                    | 0.6109                            |                    | Pr =        | 0.687              |             |                   |            |                  |                   |                  |            |                  |               |
| <b>Total (n=2,100)</b>                              | <b>19.0</b>                       | <b>[16.8,21.3]</b> | <b>64.7</b> | <b>[62.0,67.4]</b> | <b>10.2</b> | <b>[8.7,12.1]</b> | <b>4.8</b> | <b>[3.8,6.1]</b> | <b>0.6</b>        | <b>[0.3,1.2]</b> | <b>0.6</b> | <b>[0.3,1.5]</b> | <b>100.0</b>  |

## 4.67 Q: I think doing the Health Risk Assessment was helpful for my primary care provider to understand my health needs.

Universe: Respondents who completed a Health Risk Assessment

|   | HRA helped PCP understand my health |                    |             |                    |            |                  |            |                  |                   |                  |            |                  | Total<br>Row% |
|---|-------------------------------------|--------------------|-------------|--------------------|------------|------------------|------------|------------------|-------------------|------------------|------------|------------------|---------------|
|   | Strongly agree                      |                    | Agree       |                    | Neutral    |                  | Disagree   |                  | Strongly disagree |                  | Don't know |                  |               |
|   | Row%                                | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%       | 95%CI            | Row%              | 95%CI            | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| 0-35% (n=829)                                       | 25.4                                | [21.7,29.4]        | 64.9        | [60.6,69.0]        | 5.1        | [3.5,7.5]        | 2.4        | [1.4,4.1]        | 0.2               | [0.1,1.1]        | 1.9        | [1.0,3.7]        | 100.0         |
| 36-99% (n=724)                                      | 23.3                                | [19.9,27.0]        | 65.3        | [61.1,69.3]        | 8.1        | [6.1,10.7]       | 2.0        | [1.2,3.3]        | 0.7               | [0.2,2.1]        | 0.6        | [0.3,1.5]        | 100.0         |
| ≥ 100% (n = 546)                                    | 25.9                                | [21.8,30.4]        | 64.0        | [59.0,68.6]        | 5.9        | [3.5,9.8]        | 3.1        | [1.9,5.0]        | 0.4               | [0.1,1.7]        | 0.7        | [0.3,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 15.9480                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(9.18, 19149.88) =                    | 1.2536                              |                    | Pr =        | 0.256              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Region</b>                                       |                                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| UP/NW/NE (n=414)                                    | 20.2                                | [15.7,25.6]        | 66.7        | [61.0,71.9]        | 5.6        | [3.5,8.8]        | 5.2        | [3.2,8.4]        | 0.6               | [0.2,2.2]        | 1.6        | [0.7,3.7]        | 100.0         |
| W/E Central/E (n=688)                               | 24.6                                | [21.2,28.4]        | 65.3        | [61.2,69.3]        | 6.8        | [4.7,9.6]        | 2.0        | [1.1,3.6]        | 0.3               | [0.1,1.3]        | 1.0        | [0.4,2.0]        | 100.0         |
| S Central/SW/SE (n=403)                             | 22.7                                | [17.7,28.5]        | 64.5        | [58.4,70.1]        | 8.8        | [6.0,12.8]       | 3.0        | [1.7,5.0]        | 0.3               | [0.0,1.9]        | 0.8        | [0.2,3.2]        | 100.0         |
| Detroit Metro (n=594)                               | 27.2                                | [23.0,31.9]        | 64.2        | [59.2,68.9]        | 4.6        | [2.8,7.4]        | 1.9        | [0.9,4.0]        | 0.4               | [0.1,1.6]        | 1.7        | [0.7,4.0]        | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 25.0460                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(12.98, 27082.32) =                   | 1.2886                              |                    | Pr =        | 0.211              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=188)   | 26.4                                | [18.0,37.0]        | 57.7        | [47.5,67.3]        | 5.0        | [2.8,8.9]        | 4.9        | [2.0,11.6]       | 0.7               | [0.1,4.6]        | 5.3        | [2.1,12.4]       | 100.0         |
| No (n=1,911)  | 24.7                                | [22.4,27.2]        | 65.8        | [63.1,68.4]        | 6.2        | [4.9,7.9]        | 2.1        | [1.5,2.9]        | 0.3               | [0.1,0.8]        | 0.8        | [0.4,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 43.4305                             |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.64, 9674.62) =                     | 4.3413                              |                    | Pr =        | 0.001              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>High ER utilizers</b>                            |                                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Yes (n=60)  | 30.5                                | [18.7,45.5]        | 66.9        | [51.8,79.2]        | 1.4        | [0.2,9.2]        | 1.3        | [0.2,8.5]        | 0.0               |                  | 0.0        |                  | 100.0         |
| No (n=2,039)  | 24.7                                | [22.4,27.3]        | 64.8        | [62.0,67.4]        | 6.2        | [5.0,7.8]        | 2.5        | [1.8,3.5]        | 0.4               | [0.2,0.9]        | 1.4        | [0.8,2.3]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 5.1186                              |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.60, 9605.22) =                     | 0.7651                              |                    | Pr =        | 0.565              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Chronic disease (HEDIS) (n=624)                     | 24.9                                | [20.8,29.6]        | 66.9        | [62.0,71.5]        | 4.9        | [3.0,7.8]        | 1.7        | [1.0,2.9]        | 0.1               | [0.0,0.4]        | 1.5        | [0.6,3.5]        | 100.0         |
| No chronic disease (n=1,475)                        | 24.9                                | [22.2,27.9]        | 64.1        | [60.9,67.2]        | 6.5        | [5.0,8.3]        | 2.7        | [1.8,3.9]        | 0.5               | [0.2,1.1]        | 1.3        | [0.7,2.4]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 6.0650                              |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.16, 8685.52) =                     | 0.9794                              |                    | Pr =        | 0.419              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| MH/SA (HEDIS) (n=1,042)                             | 24.8                                | [21.7,28.2]        | 63.8        | [60.0,67.4]        | 6.3        | [4.4,8.8]        | 3.0        | [2.0,4.4]        | 0.5               | [0.2,1.4]        | 1.6        | [0.8,3.4]        | 100.0         |
| No MH/SA (n=1,057)                                  | 25.0                                | [21.7,28.7]        | 65.8        | [62.0,69.5]        | 5.9        | [4.4,7.9]        | 1.9        | [1.1,3.4]        | 0.3               | [0.1,1.0]        | 1.0        | [0.5,2.1]        | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 5.3227                              |                    |             |                    |            |                  |            |                  |                   |                  |            |                  |               |
| Design-based F(4.94, 10314.27) =                    | 0.6551                              |                    | Pr =        | 0.656              |            |                  |            |                  |                   |                  |            |                  |               |
| <b>Total (n=2,099)</b>                              | <b>24.9</b>                         | <b>[22.6,27.4]</b> | <b>64.8</b> | <b>[62.1,67.4]</b> | <b>6.1</b> | <b>[4.9,7.6]</b> | <b>2.4</b> | <b>[1.8,3.4]</b> | <b>0.4</b>        | <b>[0.2,0.8]</b> | <b>1.3</b> | <b>[0.8,2.2]</b> | <b>100.0</b>  |

#### 4.68 Q: I know what I need to do to be healthy, so the Health Risk Assessment wasn't that helpful.

Universe: Respondents who completed a Health Risk Assessment

|   | HRA was not helpful |            |       |             |         |             |          |             |                   |            |            |            | Total<br>Row% |
|---|---------------------|------------|-------|-------------|---------|-------------|----------|-------------|-------------------|------------|------------|------------|---------------|
|   | Strongly agree      |            | Agree |             | Neutral |             | Disagree |             | Strongly disagree |            | Don't know |            |               |
|   | Row%                | 95%CI      | Row%  | 95%CI       | Row%    | 95%CI       | Row%     | 95%CI       | Row%              | 95%CI      | Row%       | 95%CI      |               |
| <b>FPL category</b>                                 |                     |            |       |             |         |             |          |             |                   |            |            |            |               |
| 0-35% (n=829)                                       | 4.6                 | [3.2,6.5]  | 27.2  | [23.5,31.2] | 16.7    | [13.5,20.6] | 45.9     | [41.6,50.2] | 4.9               | [3.3,7.3]  | 0.7        | [0.3,1.8]  | 100.0         |
| 36-99% (n=725)                                      | 4.0                 | [2.6,6.3]  | 27.2  | [23.6,31.1] | 15.3    | [12.1,19.3] | 47.1     | [42.8,51.5] | 4.1               | [2.8,6.0]  | 2.2        | [0.9,5.3]  | 100.0         |
| ≥ 100% (n = 546)                                    | 5.0                 | [3.2,7.7]  | 26.4  | [22.2,31.2] | 19.0    | [15.3,23.4] | 45.8     | [40.9,50.7] | 2.7               | [1.6,4.5]  | 1.1        | [0.4,3.5]  | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 13.5346             |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(9.39, 19614.40) =                    | 0.9162              |            | Pr =  | 0.513       |         |             |          |             |                   |            |            |            |               |
| <b>Region</b>                                       |                     |            |       |             |         |             |          |             |                   |            |            |            |               |
| UP/NW/NE (n=414)                                    | 4.0                 | [2.3,7.1]  | 31.1  | [26.1,36.6] | 16.1    | [12.5,20.4] | 45.2     | [39.8,50.8] | 2.6               | [1.4,4.9]  | 0.9        | [0.4,2.2]  | 100.0         |
| W/E Central/E (n=689)                               | 4.9                 | [3.4,7.1]  | 26.8  | [23.0,31.0] | 16.0    | [13.1,19.5] | 45.8     | [41.6,50.1] | 5.3               | [3.8,7.4]  | 1.1        | [0.5,2.4]  | 100.0         |
| S Central/SW/SE (n=403)                             | 3.3                 | [1.9,5.7]  | 32.3  | [26.6,38.5] | 15.7    | [12.0,20.3] | 44.6     | [38.7,50.6] | 3.5               | [1.9,6.3]  | 0.7        | [0.3,1.7]  | 100.0         |
| Detroit Metro (n=594)                               | 4.8                 | [3.1,7.3]  | 24.0  | [20.2,28.4] | 18.1    | [14.1,22.9] | 47.4     | [42.4,52.4] | 4.2               | [2.4,7.0]  | 1.5        | [0.6,4.0]  | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 17.0507             |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(12.45, 25988.74) =                   | 0.9099              |            | Pr =  | 0.539       |         |             |          |             |                   |            |            |            |               |
| <b>Low healthcare utilizers</b>                     |                     |            |       |             |         |             |          |             |                   |            |            |            |               |
| Yes (n=189)   | 5.9                 | [2.8,11.8] | 27.6  | [19.6,37.4] | 14.5    | [8.4,23.7]  | 42.1     | [33.0,51.8] | 8.0               | [3.4,17.6] | 2.0        | [0.3,12.7] | 100.0         |
| No (n=1,911)  | 4.3                 | [3.3,5.6]  | 27.0  | [24.6,29.5] | 17.1    | [14.9,19.6] | 46.7     | [43.9,49.5] | 3.7               | [2.9,4.8]  | 1.1        | [0.6,1.9]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 13.8379             |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.65, 9704.51) =                     | 0.9465              |            | Pr =  | 0.445       |         |             |          |             |                   |            |            |            |               |
| <b>High ER utilizers</b>                            |                     |            |       |             |         |             |          |             |                   |            |            |            |               |
| Yes (n=60)  | 4.3                 | [1.1,15.9] | 25.0  | [13.9,40.7] | 8.9     | [3.0,23.5]  | 58.5     | [42.9,72.7] | 3.2               | [1.0,9.9]  | 0.0        |            | 100.0         |
| No (n=2,040)  | 4.5                 | [3.5,5.8]  | 27.1  | [24.7,29.7] | 17.1    | [14.9,19.5] | 45.8     | [43.0,48.5] | 4.3               | [3.2,5.6]  | 1.2        | [0.7,2.2]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 6.1291              |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.65, 9716.76) =                     | 0.7654              |            | Pr =  | 0.566       |         |             |          |             |                   |            |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |                     |            |       |             |         |             |          |             |                   |            |            |            |               |
| Chronic disease (HEDIS) (n=624)                     | 3.7                 | [2.3,5.8]  | 25.2  | [21.2,29.6] | 10.5    | [7.8,13.8]  | 54.3     | [49.4,59.1] | 4.9               | [3.3,7.1]  | 1.5        | [0.6,3.6]  | 100.0         |
| No chronic disease (n=1,476)                        | 4.8                 | [3.6,6.4]  | 27.7  | [24.9,30.7] | 19.1    | [16.4,22.1] | 43.3     | [40.1,46.6] | 4.0               | [2.8,5.7]  | 1.1        | [0.5,2.3]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 31.7471             |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.89, 10206.96) =                    | 4.2920              |            | Pr =  | 0.001       |         |             |          |             |                   |            |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                     |            |       |             |         |             |          |             |                   |            |            |            |               |
| MH/SA (HEDIS) (n=1,042)                             | 4.5                 | [3.2,6.4]  | 26.0  | [22.8,29.5] | 14.0    | [11.5,17.1] | 48.8     | [45.0,52.6] | 5.2               | [3.7,7.1]  | 1.5        | [0.7,3.3]  | 100.0         |
| No MH/SA (n=1,058)                                  | 4.5                 | [3.2,6.3]  | 28.0  | [24.7,31.7] | 19.4    | [16.2,23.1] | 43.8     | [39.9,47.7] | 3.4               | [2.1,5.4]  | 0.9        | [0.4,2.0]  | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 18.0664             |            |       |             |         |             |          |             |                   |            |            |            |               |
| Design-based F(4.94, 10313.77) =                    | 2.0311              |            | Pr =  | 0.072       |         |             |          |             |                   |            |            |            |               |
| <b>Total (n=2,100)</b>                              | 4.5                 | [3.5,5.7]  | 27.0  | [24.7,29.5] | 16.8    | [14.7,19.2] | 46.2     | [43.5,48.9] | 4.2               | [3.2,5.6]  | 1.2        | [0.7,2.1]  | 100.0         |



#### 4.69 Q: After going through the Health Risk Assessment, or at a primary care visit, did you choose to work on a healthy behavior or do something good for your health?

Universe: Respondents who completed a Health Risk Assessment

|   | HRA: choose behavior? |                    |             |                    |            |                  | Total<br>Row% |
|---|-----------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                   |                    | No          |                    | Don't know |                  |               |
|   | Row%                  | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                       |                    |             |                    |            |                  |               |
| 0-35% (n=830)                                       | 82.0                  | [78.6,85.1]        | 17.7        | [14.7,21.2]        | 0.3        | [0.1,0.7]        | 100.0         |
| 36-99% (n=725)                                      | 80.2                  | [76.6,83.4]        | 18.9        | [15.7,22.4]        | 1.0        | [0.4,2.2]        | 100.0         |
| ≥ 100% (n = 545)                                    | 78.2                  | [73.4,82.3]        | 20.8        | [16.7,25.4]        | 1.1        | [0.3,3.4]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 6.6897                |                    |             |                    |            |                  |               |
| Design-based F(3.73, 7783.70) =                     | 1.3440                | Pr =               | 0.253       |                    |            |                  |               |
| <b>Region</b>                                       |                       |                    |             |                    |            |                  |               |
| UP/NW/NE (n=414)                                    | 71.7                  | [66.3,76.5]        | 27.0        | [22.2,32.5]        | 1.3        | [0.6,2.7]        | 100.0         |
| W/E Central/E (n=690)                               | 81.3                  | [77.3,84.7]        | 18.1        | [14.7,22.1]        | 0.6        | [0.2,1.8]        | 100.0         |
| S Central/SW/SE (n=403)                             | 79.6                  | [74.6,83.8]        | 20.1        | [15.9,25.0]        | 0.4        | [0.1,1.7]        | 100.0         |
| Detroit Metro (n=593)                               | 83.0                  | [79.0,86.4]        | 16.4        | [13.1,20.4]        | 0.6        | [0.2,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 15.3141               |                    |             |                    |            |                  |               |
| Design-based F(5.24, 10933.82) =                    | 2.2020                | Pr =               | 0.048       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                       |                    |             |                    |            |                  |               |
| Yes (n=188)   | 75.9                  | [67.3,82.8]        | 23.6        | [16.8,32.2]        | 0.4        | [0.1,1.8]        | 100.0         |
| No (n=1,912)  | 81.4                  | [79.1,83.5]        | 18.0        | [15.9,20.2]        | 0.6        | [0.3,1.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 4.7701                |                    |             |                    |            |                  |               |
| Design-based F(1.54, 3222.32) =                     | 1.7805                | Pr =               | 0.177       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                       |                    |             |                    |            |                  |               |
| Yes (n=60)  | 78.8                  | [62.2,89.4]        | 21.2        | [10.6,37.8]        | 0.0        |                  | 100.0         |
| No (n=2,040)  | 80.8                  | [78.5,82.9]        | 18.6        | [16.5,20.8]        | 0.6        | [0.4,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.7109                |                    |             |                    |            |                  |               |
| Design-based F(1.90, 3971.66) =                     | 0.2205                | Pr =               | 0.791       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                       |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=624)                     | 87.6                  | [83.9,90.5]        | 12.1        | [9.2,15.8]         | 0.3        | [0.1,0.8]        | 100.0         |
| No chronic disease (n=1,476)                        | 78.3                  | [75.6,80.9]        | 20.9        | [18.4,23.7]        | 0.7        | [0.4,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 22.3217               |                    |             |                    |            |                  |               |
| Design-based F(1.65, 3434.86) =                     | 10.8436               | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                       |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=1,042)                             | 81.9                  | [78.6,84.8]        | 17.5        | [14.6,20.7]        | 0.6        | [0.3,1.5]        | 100.0         |
| No MH/SA (n=1,058)                                  | 79.7                  | [76.5,82.5]        | 19.7        | [16.9,22.9]        | 0.6        | [0.3,1.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.7972                |                    |             |                    |            |                  |               |
| Design-based F(1.94, 4054.72) =                     | 0.6389                | Pr =               | 0.523       |                    |            |                  |               |
| <b>Total (n=2,100)</b>                              | <b>80.7</b>           | <b>[78.5,82.8]</b> | <b>18.6</b> | <b>[16.6,20.9]</b> | <b>0.6</b> | <b>[0.3,1.1]</b> | <b>100.0</b>  |

## 4.70 Q: What did you choose to do?

### 4.70.1 HRA behavior- Exercise/activity

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: exercise |             |            |             | Total<br>Row% |
|---|------------------------|-------------|------------|-------------|---------------|
|   | Yes<br>Row%            | 95%CI       | No<br>Row% | 95%CI       |               |
| <b>FPL category</b>                                 |                        |             |            |             |               |
| 0-35% (n=671)                                       | 50.6                   | [45.8,55.4] | 49.4       | [44.6,54.2] | 100.0         |
| 36-99% (n=582)                                      | 55.4                   | [50.5,60.3] | 44.6       | [39.7,49.5] | 100.0         |
| ≥ 100% (n = 437)                                    | 54.1                   | [48.7,59.5] | 45.9       | [40.5,51.3] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2440                 |             |            |             |               |
| Design-based F(1.93, 3239.77) =                     | 1.2048                 | Pr =        | 0.299      |             |               |
| <b>Region</b>                                       |                        |             |            |             |               |
| UP/NW/NE (n=299)                                    | 54.4                   | [47.9,60.7] | 45.6       | [39.3,52.1] | 100.0         |
| W/E Central/E (n=581)                               | 52.4                   | [47.8,57.0] | 47.6       | [43.0,52.2] | 100.0         |
| S Central/SW/SE (n=319)                             | 51.2                   | [44.3,58.0] | 48.8       | [42.0,55.7] | 100.0         |
| Detroit Metro (n=491)                               | 52.9                   | [47.4,58.4] | 47.1       | [41.6,52.6] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.4593                 |             |            |             |               |
| Design-based F(2.65, 4453.33) =                     | 0.1173                 | Pr =        | 0.935      |             |               |
| <b>Low healthcare utilizers</b>                     |                        |             |            |             |               |
| Yes (n=133)   | 40.3                   | [29.5,52.3] | 59.7       | [47.7,70.5] | 100.0         |
| No (n=1,557)  | 54.1                   | [51.0,57.2] | 45.9       | [42.8,49.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 12.7612                |             |            |             |               |
| Design-based F(1.00, 1678.00) =                     | 4.9132                 | Pr =        | 0.027      |             |               |
| <b>High ER utilizers</b>                            |                        |             |            |             |               |
| Yes (n=52)  | 38.4                   | [24.5,54.4] | 61.6       | [45.6,75.5] | 100.0         |
| No (n=1,638)  | 53.1                   | [49.9,56.2] | 46.9       | [43.8,50.1] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.5131                 |             |            |             |               |
| Design-based F(1.00, 1678.00) =                     | 3.1970                 | Pr =        | 0.074      |             |               |
| <b>Chronic disease (HEDIS)</b>                      |                        |             |            |             |               |
| Chronic disease (HEDIS) (n=543)                     | 53.1                   | [47.8,58.2] | 46.9       | [41.8,52.2] | 100.0         |
| No chronic disease (n=1,147)                        | 52.4                   | [48.6,56.2] | 47.6       | [43.8,51.4] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0557                 |             |            |             |               |
| Design-based F(1.00, 1678.00) =                     | 0.0377                 | Pr =        | 0.846      |             |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                        |             |            |             |               |
| MH/SA (HEDIS) (n=870)                               | 48.5                   | [44.3,52.6] | 51.5       | [47.4,55.7] | 100.0         |
| No MH/SA (n=820)                                    | 56.6                   | [52.0,61.0] | 43.4       | [39.0,48.0] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 11.1167                |             |            |             |               |
| Design-based F(1.00, 1678.00) =                     | 6.7029                 | Pr =        | 0.010      |             |               |
| <b>Total</b> (n=1,690)                              | 52.6                   | [49.5,55.7] | 47.4       | [44.3,50.5] | 100.0         |

#### 4.70.2 HRA behavior- Nutrition/diet

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: nutrition |                    |             |                    | Total<br>Row% |
|---|-------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%             | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                         |                    |             |                    |               |
| 0-35% (n=671)                                       | 58.6                    | [53.9,63.2]        | 41.4        | [36.8,46.1]        | 100.0         |
| 36-99% (n=582)                                      | 55.4                    | [50.4,60.2]        | 44.6        | [39.8,49.6]        | 100.0         |
| ≥ 100%(n = 437)                                     | 56.1                    | [50.6,61.4]        | 43.9        | [38.6,49.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.5572                  |                    |             |                    |               |
| Design-based F(1.93, 3239.92) =                     | 0.5826                  | Pr =               | 0.553       |                    |               |
| <b>Region</b>                                       |                         |                    |             |                    |               |
| UP/NW/NE (n=299)                                    | 58.6                    | [52.2,64.8]        | 41.4        | [35.2,47.8]        | 100.0         |
| W/E Central/E (n=581)                               | 54.3                    | [49.7,58.9]        | 45.7        | [41.1,50.3]        | 100.0         |
| S Central/SW/SE (n=319)                             | 58.1                    | [51.4,64.5]        | 41.9        | [35.5,48.6]        | 100.0         |
| Detroit Metro (n=491)                               | 58.7                    | [53.1,64.0]        | 41.3        | [36.0,46.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.6165                  |                    |             |                    |               |
| Design-based F(2.65, 4449.54) =                     | 0.6842                  | Pr =               | 0.544       |                    |               |
| <b>Low healthcare utilizers</b>                     |                         |                    |             |                    |               |
| Yes (n=133)   | 65.5                    | [54.9,74.8]        | 34.5        | [25.2,45.1]        | 100.0         |
| No (n=1,557)  | 56.2                    | [53.1,59.3]        | 43.8        | [40.7,46.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.9496                  |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 2.7767                  | Pr =               | 0.096       |                    |               |
| <b>High ER utilizers</b>                            |                         |                    |             |                    |               |
| Yes (n=52)  | 55.5                    | [38.1,71.6]        | 44.5        | [28.4,61.9]        | 100.0         |
| No (n=1,638)  | 57.3                    | [54.2,60.3]        | 42.7        | [39.7,45.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0724                  |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.0425                  | Pr =               | 0.837       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                         |                    |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 58.1                    | [52.9,63.0]        | 41.9        | [37.0,47.1]        | 100.0         |
| No chronic disease (n=1,147)                        | 56.9                    | [53.2,60.6]        | 43.1        | [39.4,46.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1798                  |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.1242                  | Pr =               | 0.725       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                         |                    |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 51.3                    | [47.2,55.5]        | 48.7        | [44.5,52.8]        | 100.0         |
| No MH/SA (n=820)                                    | 62.9                    | [58.5,67.0]        | 37.1        | [33.0,41.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 22.9933                 |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 14.1768                 | Pr =               | 0.000       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>57.2</b>             | <b>[54.2,60.2]</b> | <b>42.8</b> | <b>[39.8,45.8]</b> | <b>100.0</b>  |

### 4.70.3 HRA behavior- Lose weight

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: lose weight |                   |             |                    | Total<br>Row% |
|---|---------------------------|-------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%               | 95%CI             | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                           |                   |             |                    |               |
| 0-35% (n=671)                                       | 8.6                       | [6.4,11.5]        | 91.4        | [88.5,93.6]        | 100.0         |
| 36-99% (n=582)                                      | 13.7                      | [10.8,17.1]       | 86.3        | [82.9,89.2]        | 100.0         |
| ≥ 100%(n = 437)                                     | 9.2                       | [6.7,12.5]        | 90.8        | [87.5,93.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 8.9881                    |                   |             |                    |               |
| Design-based F(1.89, 3174.20) =                     | 3.7633                    | Pr =              | 0.025       |                    |               |
| <b>Region</b>                                       |                           |                   |             |                    |               |
| UP/NW/NE (n=299)                                    | 9.2                       | [6.1,13.6]        | 90.8        | [86.4,93.9]        | 100.0         |
| W/E Central/E (n=581)                               | 11.3                      | [8.8,14.4]        | 88.7        | [85.6,91.2]        | 100.0         |
| S Central/SW/SE (n=319)                             | 8.5                       | [5.9,12.0]        | 91.5        | [88.0,94.1]        | 100.0         |
| Detroit Metro (n=491)                               | 10.0                      | [7.4,13.6]        | 90.0        | [86.4,92.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.8452                    |                   |             |                    |               |
| Design-based F(2.68, 4497.52) =                     | 0.5813                    | Pr =              | 0.608       |                    |               |
| <b>Low healthcare utilizers</b>                     |                           |                   |             |                    |               |
| Yes (n=133)   | 3.6                       | [1.6,7.8]         | 96.4        | [92.2,98.4]        | 100.0         |
| No (n=1,557)  | 10.9                      | [9.2,12.9]        | 89.1        | [87.1,90.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 9.8837                    |                   |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 8.4166                    | Pr =              | 0.004       |                    |               |
| <b>High ER utilizers</b>                            |                           |                   |             |                    |               |
| Yes (n=52)  | 16.0                      | [7.6,30.6]        | 84.0        | [69.4,92.4]        | 100.0         |
| No (n=1,638)  | 9.9                       | [8.3,11.7]        | 90.1        | [88.3,91.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.1672                    |                   |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 1.6256                    | Pr =              | 0.202       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |                   |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 13.9                      | [10.6,18.0]       | 86.1        | [82.0,89.4]        | 100.0         |
| No chronic disease (n=1,147)                        | 8.6                       | [6.9,10.6]        | 91.4        | [89.4,93.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 10.7192                   |                   |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 7.6342                    | Pr =              | 0.006       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |                   |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 12.2                      | [9.7,15.3]        | 87.8        | [84.7,90.3]        | 100.0         |
| No MH/SA (n=820)                                    | 8.0                       | [6.2,10.2]        | 92.0        | [89.8,93.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 8.3315                    |                   |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 6.2631                    | Pr =              | 0.012       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>10.1</b>               | <b>[8.5,11.9]</b> | <b>89.9</b> | <b>[88.1,91.5]</b> | <b>100.0</b>  |

#### 4.70.4 HRA behavior- Reduce/quit tobacco use

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: reduce/quit smoking |                    |             |                    | Total<br>Row% |
|---|-----------------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                       | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                   |                    |             |                    |               |
| 0-35% (n=671)                                       | 19.6                              | [16.1,23.6]        | 80.4        | [76.4,83.9]        | 100.0         |
| 36-99% (n=582)                                      | 17.9                              | [14.4,22.0]        | 82.1        | [78.0,85.6]        | 100.0         |
| ≥ 100%(n = 437)                                     | 16.1                              | [12.5,20.4]        | 83.9        | [79.6,87.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.1041                            |                    |             |                    |               |
| Design-based F(1.93, 3243.79) =                     | 0.8110                            | Pr =               | 0.441       |                    |               |
| <b>Region</b>                                       |                                   |                    |             |                    |               |
| UP/NW/NE (n=299)                                    | 20.6                              | [15.7,26.6]        | 79.4        | [73.4,84.3]        | 100.0         |
| W/E Central/E (n=581)                               | 19.8                              | [16.4,23.6]        | 80.2        | [76.4,83.6]        | 100.0         |
| S Central/SW/SE (n=319)                             | 15.7                              | [11.7,20.6]        | 84.3        | [79.4,88.3]        | 100.0         |
| Detroit Metro (n=491)                               | 18.1                              | [14.2,22.9]        | 81.9        | [77.1,85.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.6528                            |                    |             |                    |               |
| Design-based F(2.64, 4432.22) =                     | 0.7124                            | Pr =               | 0.527       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                   |                    |             |                    |               |
| Yes (n=133)   | 20.0                              | [11.9,31.6]        | 80.0        | [68.4,88.1]        | 100.0         |
| No (n=1,557)  | 18.2                              | [16.0,20.7]        | 81.8        | [79.3,84.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3314                            |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.1191                            | Pr =               | 0.730       |                    |               |
| <b>High ER utilizers</b>                            |                                   |                    |             |                    |               |
| Yes (n=52)  | 22.8                              | [9.9,44.4]         | 77.2        | [55.6,90.1]        | 100.0         |
| No (n=1,638)  | 18.3                              | [16.0,20.8]        | 81.7        | [79.2,84.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7225                            |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.3006                            | Pr =               | 0.584       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                    |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 21.4                              | [17.6,25.8]        | 78.6        | [74.2,82.4]        | 100.0         |
| No chronic disease (n=1,147)                        | 17.2                              | [14.5,20.3]        | 82.8        | [79.7,85.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.0255                            |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 2.8347                            | Pr =               | 0.092       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                    |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 24.9                              | [21.4,28.9]        | 75.1        | [71.1,78.6]        | 100.0         |
| No MH/SA (n=820)                                    | 12.2                              | [9.7,15.3]         | 87.8        | [84.7,90.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 45.7286                           |                    |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 28.2220                           | Pr =               | 0.000       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>18.4</b>                       | <b>[16.2,20.9]</b> | <b>81.6</b> | <b>[79.1,83.8]</b> | <b>100.0</b>  |

#### 4.70.5 HRA behavior- Flu shot

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: flu shot |                  |             |                    | Total<br>Row% |
|---|------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%            | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                        |                  |             |                    |               |
| 0-35% (n=671)                                       | 0.6                    | [0.2,1.4]        | 99.4        | [98.6,99.8]        | 100.0         |
| 36-99% (n=582)                                      | 1.0                    | [0.5,2.2]        | 99.0        | [97.8,99.5]        | 100.0         |
| ≥ 100%(n = 437)                                     | 1.5                    | [0.7,3.1]        | 98.5        | [96.9,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.3192                 |                  |             |                    |               |
| Design-based F(1.95, 3280.33) =                     | 1.3474                 | Pr =             | 0.260       |                    |               |
| <b>Region</b>                                       |                        |                  |             |                    |               |
| UP/NW/NE (n=299)                                    | 2.0                    | [0.8,5.1]        | 98.0        | [94.9,99.2]        | 100.0         |
| W/E Central/E (n=581)                               | 1.8                    | [1.0,3.2]        | 98.2        | [96.8,99.0]        | 100.0         |
| S Central/SW/SE (n=319)                             | 0.0                    |                  | 100.0       |                    | 100.0         |
| Detroit Metro (n=491)                               | 0.3                    | [0.1,1.4]        | 99.7        | [98.6,99.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 12.5410                |                  |             |                    |               |
| Design-based F(2.82, 4727.02) =                     | 4.5226                 | Pr =             | 0.004       |                    |               |
| <b>Low healthcare utilizers</b>                     |                        |                  |             |                    |               |
| Yes (n=133)   | 0.9                    | [0.3,2.9]        | 99.1        | [97.1,99.7]        | 100.0         |
| No (n=1,557)  | 0.9                    | [0.5,1.5]        | 99.1        | [98.5,99.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0000                 |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.0000                 | Pr =             | 0.994       |                    |               |
| <b>High ER utilizers</b>                            |                        |                  |             |                    |               |
| Yes (n=52)  | 0.0                    |                  | 100.0       |                    | 100.0         |
| No (n=1,638)  | 0.9                    | [0.6,1.5]        | 99.1        | [98.5,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4947                 |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.4739                 | Pr =             | 0.491       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                        |                  |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 0.8                    | [0.3,2.2]        | 99.2        | [97.8,99.7]        | 100.0         |
| No chronic disease (n=1,147)                        | 0.9                    | [0.5,1.6]        | 99.1        | [98.4,99.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0853                 |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.0831                 | Pr =             | 0.773       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                        |                  |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 0.7                    | [0.3,1.5]        | 99.3        | [98.5,99.7]        | 100.0         |
| No MH/SA (n=820)                                    | 1.1                    | [0.6,1.9]        | 98.9        | [98.1,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7561                 |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.8525                 | Pr =             | 0.356       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>0.9</b>             | <b>[0.5,1.4]</b> | <b>99.1</b> | <b>[98.6,99.5]</b> | <b>100.0</b>  |

#### 4.70.6 HRA behavior- Reduce/quit alcohol consumption

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: reduce/quit drinking |                  |             |                    | Total<br>Row% |
|---|------------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                        | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                    |                  |             |                    |               |
| 0-35% (n=671)                                       | 4.1                                | [2.7,6.2]        | 95.9        | [93.8,97.3]        | 100.0         |
| 36-99% (n=582)                                      | 3.3                                | [1.6,6.8]        | 96.7        | [93.2,98.4]        | 100.0         |
| ≥ 100%(n = 437)                                     | 2.0                                | [1.0,3.9]        | 98.0        | [96.1,99.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.0883                             |                  |             |                    |               |
| Design-based F(1.75, 2936.64) =                     | 1.0431                             | Pr =             | 0.345       |                    |               |
| <b>Region</b>                                       |                                    |                  |             |                    |               |
| UP/NW/NE (n=299)                                    | 2.5                                | [1.2,5.2]        | 97.5        | [94.8,98.8]        | 100.0         |
| W/E Central/E (n=581)                               | 3.7                                | [2.3,5.9]        | 96.3        | [94.1,97.7]        | 100.0         |
| S Central/SW/SE (n=319)                             | 1.7                                | [0.8,3.6]        | 98.3        | [96.4,99.2]        | 100.0         |
| Detroit Metro (n=491)                               | 4.2                                | [2.4,7.1]        | 95.8        | [92.9,97.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.5213                             |                  |             |                    |               |
| Design-based F(2.51, 4209.18) =                     | 1.4228                             | Pr =             | 0.238       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                    |                  |             |                    |               |
| Yes (n=133)   | 6.9                                | [2.7,16.5]       | 93.1        | [83.5,97.3]        | 100.0         |
| No (n=1,557)  | 3.0                                | [2.1,4.2]        | 97.0        | [95.8,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 7.6921                             |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 2.9169                             | Pr =             | 0.088       |                    |               |
| <b>High ER utilizers</b>                            |                                    |                  |             |                    |               |
| Yes (n=52)  | 4.1                                | [1.1,14.0]       | 95.9        | [86.0,98.9]        | 100.0         |
| No (n=1,638)  | 3.4                                | [2.4,4.8]        | 96.6        | [95.2,97.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0809                             |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.0806                             | Pr =             | 0.777       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                    |                  |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 4.1                                | [2.4,6.9]        | 95.9        | [93.1,97.6]        | 100.0         |
| No chronic disease (n=1,147)                        | 3.2                                | [2.1,4.9]        | 96.8        | [95.1,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7778                             |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.4771                             | Pr =             | 0.490       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                    |                  |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 6.2                                | [4.3,8.9]        | 93.8        | [91.1,95.7]        | 100.0         |
| No MH/SA (n=820)                                    | 0.8                                | [0.4,1.6]        | 99.2        | [98.4,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 37.1689                            |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 38.4318                            | Pr =             | 0.000       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>3.4</b>                         | <b>[2.5,4.8]</b> | <b>96.6</b> | <b>[95.2,97.5]</b> | <b>100.0</b>  |

#### 4.70.7 HRA behavior- Treatment for substance use disorder

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: treat substance abuse |                  |             |                     | Total<br>Row% |
|---|-------------------------------------|------------------|-------------|---------------------|---------------|
|   | Yes<br>Row%                         | 95%CI            | No<br>Row%  | 95%CI               |               |
| <b>FPL category</b>                                 |                                     |                  |             |                     |               |
| 0-35% (n=671)                                       | 0.3                                 | [0.1,0.9]        | 99.7        | [99.1,99.9]         | 100.0         |
| 36-99% (n=582)                                      | 0.0                                 |                  | 100.0       |                     | 100.0         |
| ≥ 100%(n = 437)                                     | 0.0                                 |                  | 100.0       |                     | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.2751                              |                  |             |                     |               |
| Design-based F(1.56, 2614.98) =                     | 1.9113                              | Pr =             | 0.158       |                     |               |
| <b>Region</b>                                       |                                     |                  |             |                     |               |
| UP/NW/NE (n=299)                                    | 1.1                                 | [0.3,4.4]        | 98.9        | [95.6,99.7]         | 100.0         |
| W/E Central/E (n=581)                               | 0.2                                 | [0.0,1.4]        | 99.8        | [98.6,100.0]        | 100.0         |
| S Central/SW/SE (n=319)                             | 0.0                                 |                  | 100.0       |                     | 100.0         |
| Detroit Metro (n=491)                               | 0.0                                 |                  | 100.0       |                     | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 9.7913                              |                  |             |                     |               |
| Design-based F(2.82, 4728.38) =                     | 4.1328                              | Pr =             | 0.007       |                     |               |
| <b>Low healthcare utilizers</b>                     |                                     |                  |             |                     |               |
| Yes (n=133)   | 0.0                                 |                  | 100.0       |                     | 100.0         |
| No (n=1,557)  | 0.2                                 | [0.1,0.5]        | 99.8        | [99.5,99.9]         | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3232                              |                  |             |                     |               |
| Design-based F(1.00, 1678.00) =                     | 0.3462                              | Pr =             | 0.556       |                     |               |
| <b>High ER utilizers</b>                            |                                     |                  |             |                     |               |
| Yes (n=52)  | 1.0                                 | [0.1,7.1]        | 99.0        | [92.9,99.9]         | 100.0         |
| No (n=1,638)  | 0.1                                 | [0.0,0.5]        | 99.9        | [99.5,100.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.7879                              |                  |             |                     |               |
| Design-based F(1.00, 1678.00) =                     | 4.2064                              | Pr =             | 0.040       |                     |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                  |             |                     |               |
| Chronic disease (HEDIS) (n=543)                     | 0.2                                 | [0.0,1.5]        | 99.8        | [98.5,100.0]        | 100.0         |
| No chronic disease (n=1,147)                        | 0.1                                 | [0.0,0.6]        | 99.9        | [99.4,100.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1310                              |                  |             |                     |               |
| Design-based F(1.00, 1678.00) =                     | 0.1392                              | Pr =             | 0.709       |                     |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                  |             |                     |               |
| MH/SA (HEDIS) (n=870)                               | 0.3                                 | [0.1,1.0]        | 99.7        | [99.0,99.9]         | 100.0         |
| No MH/SA (n=820)                                    | 0.0                                 |                  | 100.0       |                     | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.6988                              |                  |             |                     |               |
| Design-based F(1.00, 1678.00) =                     | 2.9496                              | Pr =             | 0.086       |                     |               |
| <b>Total (n=1,690)</b>                              | <b>0.2</b>                          | <b>[0.0,0.5]</b> | <b>99.8</b> | <b>[99.5,100.0]</b> | <b>100.0</b>  |



#### 4.70.8 HRA behavior- Take medicine regularly

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: take meds regularly |                  |             |                    | Total<br>Row% |
|---|-----------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                       | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                   |                  |             |                    |               |
| 0-35% (n=671)                                       | 2.9                               | [1.6,5.3]        | 97.1        | [94.7,98.4]        | 100.0         |
| 36-99% (n=582)                                      | 1.4                               | [0.7,2.8]        | 98.6        | [97.2,99.3]        | 100.0         |
| ≥ 100%(n = 437)                                     | 1.7                               | [0.8,3.5]        | 98.3        | [96.5,99.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.8904                            |                  |             |                    |               |
| Design-based F(1.88, 3162.44) =                     | 1.7845                            | Pr =             | 0.170       |                    |               |
| <b>Region</b>                                       |                                   |                  |             |                    |               |
| UP/NW/NE (n=299)                                    | 1.8                               | [0.6,5.0]        | 98.2        | [95.0,99.4]        | 100.0         |
| W/E Central/E (n=581)                               | 2.1                               | [1.2,3.9]        | 97.9        | [96.1,98.8]        | 100.0         |
| S Central/SW/SE (n=319)                             | 2.0                               | [0.9,4.6]        | 98.0        | [95.4,99.1]        | 100.0         |
| Detroit Metro (n=491)                               | 2.6                               | [1.2,5.5]        | 97.4        | [94.5,98.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 0.5781                            |                  |             |                    |               |
| Design-based F(2.58, 4330.34) =                     | 0.1469                            | Pr =             | 0.909       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                   |                  |             |                    |               |
| Yes (n=133)   | 3.0                               | [0.8,10.4]       | 97.0        | [89.6,99.2]        | 100.0         |
| No (n=1,557)  | 2.2                               | [1.4,3.5]        | 97.8        | [96.5,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5219                            |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.2168                            | Pr =             | 0.642       |                    |               |
| <b>High ER utilizers</b>                            |                                   |                  |             |                    |               |
| Yes (n=52)  | 1.2                               | [0.2,8.4]        | 98.8        | [91.6,99.8]        | 100.0         |
| No (n=1,638)  | 2.3                               | [1.5,3.6]        | 97.7        | [96.4,98.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2663                            |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.3801                            | Pr =             | 0.538       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                  |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 3.4                               | [1.6,7.0]        | 96.6        | [93.0,98.4]        | 100.0         |
| No chronic disease (n=1,147)                        | 1.8                               | [1.1,3.1]        | 98.2        | [96.9,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.7769                            |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 1.8126                            | Pr =             | 0.178       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                  |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 3.6                               | [2.2,6.0]        | 96.4        | [94.0,97.8]        | 100.0         |
| No MH/SA (n=820)                                    | 1.0                               | [0.4,2.2]        | 99.0        | [97.8,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 13.1282                           |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 7.9418                            | Pr =             | 0.005       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>2.3</b>                        | <b>[1.5,3.5]</b> | <b>97.7</b> | <b>[96.5,98.5]</b> | <b>100.0</b>  |

#### 4.70.9 HRA behavior- Monitor my blood pressure/blood sugar

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: monitor bp/blood sugar |                  |             |                    | Total<br>Row% |
|---|--------------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                          | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                      |                  |             |                    |               |
| 0-35% (n=671)                                       | 1.2                                  | [0.6,2.3]        | 98.8        | [97.7,99.4]        | 100.0         |
| 36-99% (n=582)                                      | 2.4                                  | [1.4,4.2]        | 97.6        | [95.8,98.6]        | 100.0         |
| ≥ 100%(n = 437)                                     | 1.2                                  | [0.6,2.6]        | 98.8        | [97.4,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.3338                               |                  |             |                    |               |
| Design-based F(1.89, 3177.57) =                     | 1.8643                               | Pr =             | 0.157       |                    |               |
| <b>Region</b>                                       |                                      |                  |             |                    |               |
| UP/NW/NE (n=299)                                    | 2.0                                  | [1.0,4.2]        | 98.0        | [95.8,99.0]        | 100.0         |
| W/E Central/E (n=581)                               | 2.0                                  | [1.1,3.6]        | 98.0        | [96.4,98.9]        | 100.0         |
| S Central/SW/SE (n=319)                             | 0.8                                  | [0.3,2.3]        | 99.2        | [97.7,99.7]        | 100.0         |
| Detroit Metro (n=491)                               | 1.4                                  | [0.7,2.8]        | 98.6        | [97.2,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.0096                               |                  |             |                    |               |
| Design-based F(2.68, 4491.45) =                     | 0.8445                               | Pr =             | 0.458       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                      |                  |             |                    |               |
| Yes (n=133)   | 0.2                                  | [0.0,1.2]        | 99.8        | [98.8,100.0]       | 100.0         |
| No (n=1,557)  | 1.7                                  | [1.1,2.5]        | 98.3        | [97.5,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.5747                               |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 7.6228                               | Pr =             | 0.006       |                    |               |
| <b>High ER utilizers</b>                            |                                      |                  |             |                    |               |
| Yes (n=52)  | 0.0                                  |                  | 100.0       |                    | 100.0         |
| No (n=1,638)  | 1.6                                  | [1.1,2.3]        | 98.4        | [97.7,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.8594                               |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.7033                               | Pr =             | 0.402       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                      |                  |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 2.9                                  | [1.6,5.0]        | 97.1        | [95.0,98.4]        | 100.0         |
| No chronic disease (n=1,147)                        | 1.0                                  | [0.6,1.7]        | 99.0        | [98.3,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 8.1016                               |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 8.1149                               | Pr =             | 0.004       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                      |                  |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 1.7                                  | [1.0,2.9]        | 98.3        | [97.1,99.0]        | 100.0         |
| No MH/SA (n=820)                                    | 1.4                                  | [0.8,2.4]        | 98.6        | [97.6,99.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2489                               |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.2471                               | Pr =             | 0.619       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>1.5</b>                           | <b>[1.0,2.2]</b> | <b>98.5</b> | <b>[97.8,99.0]</b> | <b>100.0</b>  |

#### 4.70.10 HRA behavior- Go to the dentist

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: go to dentist |                  |             |                    | Total<br>Row% |
|---|-----------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                 | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                             |                  |             |                    |               |
| 0-35% (n=671)                                       | 0.5                         | [0.1,1.9]        | 99.5        | [98.1,99.9]        | 100.0         |
| 36-99% (n=582)                                      | 0.6                         | [0.2,1.6]        | 99.4        | [98.4,99.8]        | 100.0         |
| ≥ 100%(n = 437)                                     | 0.1                         | [0.0,0.8]        | 99.9        | [99.2,100.0]       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0568                      |                  |             |                    |               |
| Design-based F(1.58, 2647.09) =                     | 0.6239                      | Pr =             | 0.499       |                    |               |
| <b>Region</b>                                       |                             |                  |             |                    |               |
| UP/NW/NE (n=299)                                    | 0.3                         | [0.0,2.2]        | 99.7        | [97.8,100.0]       | 100.0         |
| W/E Central/E (n=581)                               | 0.9                         | [0.3,2.8]        | 99.1        | [97.2,99.7]        | 100.0         |
| S Central/SW/SE (n=319)                             | 0.1                         | [0.0,0.9]        | 99.9        | [99.1,100.0]       | 100.0         |
| Detroit Metro (n=491)                               | 0.3                         | [0.0,1.8]        | 99.7        | [98.2,100.0]       | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.6133                      |                  |             |                    |               |
| Design-based F(2.08, 3489.08) =                     | 1.2837                      | Pr =             | 0.278       |                    |               |
| <b>Low healthcare utilizers</b>                     |                             |                  |             |                    |               |
| Yes (n=133)   | 0.0                         |                  | 100.0       |                    | 100.0         |
| No (n=1,557)  | 0.5                         | [0.2,1.2]        | 99.5        | [98.8,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.9124                      |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.5719                      | Pr =             | 0.450       |                    |               |
| <b>High ER utilizers</b>                            |                             |                  |             |                    |               |
| Yes (n=52)  | 0.0                         |                  | 100.0       |                    | 100.0         |
| No (n=1,638)  | 0.4                         | [0.2,1.1]        | 99.6        | [98.9,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2395                      |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.1522                      | Pr =             | 0.697       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |                  |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 0.4                         | [0.1,2.7]        | 99.6        | [97.3,99.9]        | 100.0         |
| No chronic disease (n=1,147)                        | 0.4                         | [0.2,1.2]        | 99.6        | [98.8,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0202                      |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.0114                      | Pr =             | 0.915       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |                  |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 0.4                         | [0.1,1.8]        | 99.6        | [98.2,99.9]        | 100.0         |
| No MH/SA (n=820)                                    | 0.5                         | [0.2,1.3]        | 99.5        | [98.7,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0550                      |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.0332                      | Pr =             | 0.855       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>0.4</b>                  | <b>[0.2,1.1]</b> | <b>99.6</b> | <b>[98.9,99.8]</b> | <b>100.0</b>  |

#### 4.70.11 HRA behavior- Follow up appointment for chronic disease

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: follow up appt |                  |             |                    | Total<br>Row% |
|---|------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                  | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                              |                  |             |                    |               |
| 0-35% (n=671)                                       | 0.8                          | [0.4,1.9]        | 99.2        | [98.1,99.6]        | 100.0         |
| 36-99% (n=582)                                      | 0.5                          | [0.2,1.5]        | 99.5        | [98.5,99.8]        | 100.0         |
| ≥ 100%(n = 437)                                     | 0.0                          |                  | 100.0       |                    | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.9352                       |                  |             |                    |               |
| Design-based F(1.79, 3008.18) =                     | 1.4713                       | Pr =             | 0.231       |                    |               |
| <b>Region</b>                                       |                              |                  |             |                    |               |
| UP/NW/NE (n=299)                                    | 1.6                          | [0.5,5.0]        | 98.4        | [95.0,99.5]        | 100.0         |
| W/E Central/E (n=581)                               | 0.5                          | [0.2,1.6]        | 99.5        | [98.4,99.8]        | 100.0         |
| S Central/SW/SE (n=319)                             | 0.3                          | [0.1,1.3]        | 99.7        | [98.7,99.9]        | 100.0         |
| Detroit Metro (n=491)                               | 0.6                          | [0.2,2.0]        | 99.4        | [98.0,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.9984                       |                  |             |                    |               |
| Design-based F(2.67, 4477.21) =                     | 1.0763                       | Pr =             | 0.353       |                    |               |
| <b>Low healthcare utilizers</b>                     |                              |                  |             |                    |               |
| Yes (n=133)   | 0.6                          | [0.1,4.2]        | 99.4        | [95.8,99.9]        | 100.0         |
| No (n=1,557)  | 0.6                          | [0.3,1.2]        | 99.4        | [98.8,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0013                       |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.0011                       | Pr =             | 0.974       |                    |               |
| <b>High ER utilizers</b>                            |                              |                  |             |                    |               |
| Yes (n=52)  | 0.0                          |                  | 100.0       |                    | 100.0         |
| No (n=1,638)  | 0.6                          | [0.3,1.2]        | 99.4        | [98.8,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3279                       |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.2624                       | Pr =             | 0.609       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                              |                  |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 0.8                          | [0.2,2.9]        | 99.2        | [97.1,99.8]        | 100.0         |
| No chronic disease (n=1,147)                        | 0.5                          | [0.2,1.0]        | 99.5        | [99.0,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5760                       |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.4226                       | Pr =             | 0.516       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                              |                  |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 1.1                          | [0.5,2.2]        | 98.9        | [97.8,99.5]        | 100.0         |
| No MH/SA (n=820)                                    | 0.1                          | [0.0,0.7]        | 99.9        | [99.3,100.0]       | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 7.3906                       |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 8.8370                       | Pr =             | 0.003       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>0.6</b>                   | <b>[0.3,1.1]</b> | <b>99.4</b> | <b>[98.9,99.7]</b> | <b>100.0</b>  |

#### 4.70.12 HRA behavior- Other

Universe: Respondents who chose to work on a health behavior

|   | HRA behavior: other response-record |                  |             |                    | Total<br>Row% |
|---|-------------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                         | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                     |                  |             |                    |               |
| 0-35% (n=671)                                       | 5.9                                 | [4.2,8.3]        | 94.1        | [91.7,95.8]        | 100.0         |
| 36-99% (n=582)                                      | 5.1                                 | [3.5,7.3]        | 94.9        | [92.7,96.5]        | 100.0         |
| ≥ 100%(n = 437)                                     | 4.6                                 | [2.9,7.3]        | 95.4        | [92.7,97.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0148                              |                  |             |                    |               |
| Design-based F(1.95, 3276.74) =                     | 0.4841                              | Pr =             | 0.612       |                    |               |
| <b>Region</b>                                       |                                     |                  |             |                    |               |
| UP/NW/NE (n=299)                                    | 3.0                                 | [1.6,5.5]        | 97.0        | [94.5,98.4]        | 100.0         |
| W/E Central/E (n=581)                               | 6.4                                 | [4.5,9.1]        | 93.6        | [90.9,95.5]        | 100.0         |
| S Central/SW/SE (n=319)                             | 6.3                                 | [4.0,9.7]        | 93.7        | [90.3,96.0]        | 100.0         |
| Detroit Metro (n=491)                               | 4.9                                 | [3.2,7.5]        | 95.1        | [92.5,96.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.4938                              |                  |             |                    |               |
| Design-based F(2.58, 4321.68) =                     | 1.1486                              | Pr =             | 0.325       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                     |                  |             |                    |               |
| Yes (n=133)   | 2.4                                 | [0.6,9.1]        | 97.6        | [90.9,99.4]        | 100.0         |
| No (n=1,557)  | 5.8                                 | [4.6,7.3]        | 94.2        | [92.7,95.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.9249                              |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 1.7491                              | Pr =             | 0.186       |                    |               |
| <b>High ER utilizers</b>                            |                                     |                  |             |                    |               |
| Yes (n=52)  | 8.0                                 | [2.9,20.2]       | 92.0        | [79.8,97.1]        | 100.0         |
| No (n=1,638)  | 5.4                                 | [4.2,6.8]        | 94.6        | [93.2,95.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.7315                              |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.6218                              | Pr =             | 0.430       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                  |             |                    |               |
| Chronic disease (HEDIS) (n=543)                     | 5.9                                 | [3.9,8.8]        | 94.1        | [91.2,96.1]        | 100.0         |
| No chronic disease (n=1,147)                        | 5.3                                 | [4.0,6.9]        | 94.7        | [93.1,96.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2441                              |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 0.1860                              | Pr =             | 0.666       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                  |             |                    |               |
| MH/SA (HEDIS) (n=870)                               | 7.4                                 | [5.6,9.8]        | 92.6        | [90.2,94.4]        | 100.0         |
| No MH/SA (n=820)                                    | 3.6                                 | [2.4,5.2]        | 96.4        | [94.8,97.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 12.1594                             |                  |             |                    |               |
| Design-based F(1.00, 1678.00) =                     | 9.5941                              | Pr =             | 0.002       |                    |               |
| <b>Total (n=1,690)</b>                              | <b>5.4</b>                          | <b>[4.3,6.8]</b> | <b>94.6</b> | <b>[93.2,95.7]</b> | <b>100.0</b>  |

**4.70.13 HRA behavior- Don't know**

*Universe:* Respondents who chose to work on a health behavior

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| <b>HRA behavior: don't know</b> | No.             |
|---------------------------------|-----------------|
| Yes                             | 1180.3          |
| No                              | 150563.8        |
| <b>Total</b>                    | <b>151744.1</b> |

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#### 4.70.14 HRA behavior- Refused

*Universe:* Respondents who chose to work on a health behavior

| <b>HRA behavior: refused</b> |  | No.      |
|------------------------------|--|----------|
| Yes                          |  | 78.1     |
| No                           |  | 151666.0 |
| <b>Total</b>                 |  | 151744.1 |

## 4.71 Q: Did your health care provider or health plan help you work on this healthy behavior?

Universe: Respondents who chose to work on a health behavior

|   | Did provider/health plan help with goal? |                    |             |                    |             |                    |            |                  |              |       |
|---|--|--------------------|-------------|--------------------|-------------|--------------------|------------|------------------|--------------|-------|
|   | Yes                                      |                    | No          |                    | NA          |                    | Don't know |                  | Total        |       |
|   | Row%                                     | 95%CI              | Row%        | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            | Row%         | 95%CI |
| <b>FPL category</b>                                 |  |                    |             |                    |             |                    |            |                  |              |       |
| 0-35% (n=664)                                       | 63.2                                     | [58.4,67.9]        | 25.0        | [20.8,29.8]        | 11.0        | [8.5,14.1]         | 0.7        | [0.3,1.8]        | 100.0        |       |
| 36-99% (n=579)                                      | 60.1                                     | [55.0,65.1]        | 26.7        | [22.3,31.7]        | 13.0        | [9.6,17.4]         | 0.1        | [0.0,0.8]        | 100.0        |       |
| ≥ 100% (n = 434)                                    | 58.0                                     | [52.5,63.3]        | 29.1        | [24.2,34.6]        | 12.7        | [9.6,16.7]         | 0.2        | [0.0,1.4]        | 100.0        |       |
| Pearson: Uncorrected chi2(6) =                      | 6.9767                                   |                    |             |                    |             |                    |            |                  |              |       |
| Design-based F(5.26, 8755.50) =                     | 0.9730                                   | Pr =               | 0.435       |                    |             |                    |            |                  |              |       |
| <b>Region</b>                                       |  |                    |             |                    |             |                    |            |                  |              |       |
| UP/NW/NE (n=296)                                    | 70.3                                     | [63.9,76.0]        | 19.6        | [14.8,25.5]        | 10.1        | [6.8,14.8]         | 0.0        |                  | 100.0        |       |
| W/E Central/E (n=578)                               | 62.2                                     | [57.6,66.6]        | 26.3        | [22.3,30.7]        | 11.1        | [8.6,14.1]         | 0.5        | [0.2,1.5]        | 100.0        |       |
| S Central/SW/SE (n=314)                             | 60.0                                     | [52.9,66.7]        | 27.0        | [20.8,34.3]        | 12.8        | [9.1,17.7]         | 0.2        | [0.0,1.3]        | 100.0        |       |
| Detroit Metro (n=489)                               | 59.5                                     | [53.9,64.9]        | 27.4        | [22.5,32.9]        | 12.5        | [9.3,16.6]         | 0.6        | [0.2,2.0]        | 100.0        |       |
| Pearson: Uncorrected chi2(9) =                      | 8.0899                                   |                    |             |                    |             |                    |            |                  |              |       |
| Design-based F(7.66, 12760.92) =                    | 0.7468                                   | Pr =               | 0.644       |                    |             |                    |            |                  |              |       |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |             |                    |            |                  |              |       |
| Yes (n=130)   | 54.3                                     | [42.4,65.7]        | 32.9        | [22.8,44.8]        | 12.9        | [7.8,20.5]         | 0.0        |                  | 100.0        |       |
| No (n=1,547)  | 62.2                                     | [59.0,65.3]        | 25.5        | [22.7,28.6]        | 11.8        | [9.9,14.0]         | 0.5        | [0.2,1.1]        | 100.0        |       |
| Pearson: Uncorrected chi2(3) =                      | 6.1456                                   |                    |             |                    |             |                    |            |                  |              |       |
| Design-based F(2.73, 4538.62) =                     | 1.0783                                   | Pr =               | 0.354       |                    |             |                    |            |                  |              |       |
| <b>High ER utilizers</b>                            |  |                    |             |                    |             |                    |            |                  |              |       |
| Yes (n=52)  | 71.7                                     | [51.4,85.9]        | 21.6        | [8.8,44.3]         | 6.6         | [2.6,15.7]         | 0.0        |                  | 100.0        |       |
| No (n=1,625)  | 61.0                                     | [57.8,64.1]        | 26.5        | [23.6,29.5]        | 12.1        | [10.2,14.2]        | 0.5        | [0.2,1.0]        | 100.0        |       |
| Pearson: Uncorrected chi2(3) =                      | 2.9919                                   |                    |             |                    |             |                    |            |                  |              |       |
| Design-based F(2.40, 3993.00) =                     | 0.6301                                   | Pr =               | 0.561       |                    |             |                    |            |                  |              |       |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |             |                    |            |                  |              |       |
| Chronic disease (HEDIS) (n=538)                     | 71.8                                     | [66.9,76.3]        | 20.3        | [16.2,25.0]        | 7.1         | [5.1,9.7]          | 0.9        | [0.3,2.6]        | 100.0        |       |
| No chronic disease (n=1,139)                        | 57.2                                     | [53.4,61.0]        | 28.7        | [25.2,32.4]        | 13.8        | [11.5,16.6]        | 0.3        | [0.1,0.9]        | 100.0        |       |
| Pearson: Uncorrected chi2(3) =                      | 36.6689                                  |                    |             |                    |             |                    |            |                  |              |       |
| Design-based F(2.92, 4870.09) =                     | 9.2955                                   | Pr =               | 0.000       |                    |             |                    |            |                  |              |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |             |                    |            |                  |              |       |
| MH/SA (HEDIS) (n=861)                               | 64.4                                     | [60.1,68.4]        | 24.7        | [21.0,28.7]        | 10.5        | [8.1,13.4]         | 0.5        | [0.2,1.4]        | 100.0        |       |
| No MH/SA (n=816)                                    | 58.5                                     | [53.9,62.9]        | 27.9        | [23.8,32.3]        | 13.3        | [10.7,16.4]        | 0.4        | [0.1,1.4]        | 100.0        |       |
| Pearson: Uncorrected chi2(3) =                      | 6.9164                                   |                    |             |                    |             |                    |            |                  |              |       |
| Design-based F(2.94, 4887.84) =                     | 1.4617                                   | Pr =               | 0.224       |                    |             |                    |            |                  |              |       |
| <b>Total (n=1,677)</b>                              | <b>61.3</b>                              | <b>[58.2,64.4]</b> | <b>26.3</b> | <b>[23.5,29.3]</b> | <b>11.9</b> | <b>[10.1,14.0]</b> | <b>0.4</b> | <b>[0.2,1.0]</b> | <b>100.0</b> |       |



## 4.72 Q: Was there help that you wanted that you didn't get?

Universe: Respondents who chose to work on a health behavior

|   | Was there help you didn't get? |            |      |             |      |            |            |           |       |       |
|---|--------------------------------|------------|------|-------------|------|------------|------------|-----------|-------|-------|
|   | Yes                            |            | No   |             | NA   |            | Don't know |           | Total |       |
|   | Row%                           | 95%CI      | Row% | 95%CI       | Row% | 95%CI      | Row%       | 95%CI     | Row%  | 95%CI |
| <b>FPL category</b>                                 |                                |            |      |             |      |            |            |           |       |       |
| 0-35% (n=580)                                       | 9.0                            | [6.8,11.8] | 88.5 | [85.1,91.2] | 1.4  | [0.5,3.5]  | 1.2        | [0.4,3.6] | 100.0 |       |
| 36-99% (n=511)                                      | 5.7                            | [4.0,8.0]  | 93.1 | [90.6,95.0] | 0.6  | [0.2,1.6]  | 0.6        | [0.2,2.0] | 100.0 |       |
| ≥ 100% (n = 379)                                    | 8.4                            | [5.8,12.0] | 90.1 | [86.1,93.0] | 1.4  | [0.4,4.3]  | 0.2        | [0.0,1.2] | 100.0 |       |
| Pearson: Uncorrected chi2(6) =                      | 8.8200                         |            |      |             |      |            |            |           |       |       |
| Design-based F(5.21, 7595.84) =                     | 1.3717                         |            | Pr = | 0.229       |      |            |            |           |       |       |
| <b>Region</b>                                       |                                |            |      |             |      |            |            |           |       |       |
| UP/NW/NE (n=267)                                    | 9.1                            | [5.6,14.4] | 89.6 | [84.2,93.3] | 1.3  | [0.4,3.8]  | 0.0        |           | 100.0 |       |
| W/E Central/E (n=506)                               | 10.0                           | [7.5,13.2] | 88.4 | [85.0,91.1] | 1.1  | [0.5,2.3]  | 0.6        | [0.1,2.6] | 100.0 |       |
| S Central/SW/SE (n=275)                             | 10.5                           | [6.9,15.6] | 87.5 | [82.3,91.3] | 1.4  | [0.6,3.4]  | 0.6        | [0.2,2.0] | 100.0 |       |
| Detroit Metro (n=422)                               | 5.3                            | [3.4,8.0]  | 92.3 | [88.6,94.9] | 1.1  | [0.2,4.7]  | 1.3        | [0.4,4.3] | 100.0 |       |
| Pearson: Uncorrected chi2(9) =                      | 14.2347                        |            |      |             |      |            |            |           |       |       |
| Design-based F(6.61, 9643.27) =                     | 1.1262                         |            | Pr = | 0.343       |      |            |            |           |       |       |
| <b>Low healthcare utilizers</b>                     |                                |            |      |             |      |            |            |           |       |       |
| Yes (n=109)   | 3.5                            | [1.4,8.5]  | 96.2 | [91.3,98.4] | 0.0  |            | 0.3        | [0.0,1.9] | 100.0 |       |
| No (n=1,361)  | 8.5                            | [7.0,10.4] | 89.3 | [87.1,91.1] | 1.3  | [0.7,2.5]  | 0.9        | [0.4,2.2] | 100.0 |       |
| Pearson: Uncorrected chi2(3) =                      | 8.0587                         |            |      |             |      |            |            |           |       |       |
| Design-based F(2.40, 3503.55) =                     | 2.0994                         |            | Pr = | 0.112       |      |            |            |           |       |       |
| <b>High ER utilizers</b>                            |                                |            |      |             |      |            |            |           |       |       |
| Yes (n=47)  | 2.1                            | [0.5,9.0]  | 96.2 | [87.6,98.9] | 1.8  | [0.2,11.7] | 0.0        |           | 100.0 |       |
| No (n=1,423)  | 8.2                            | [6.7,9.9]  | 89.8 | [87.8,91.6] | 1.1  | [0.6,2.3]  | 0.9        | [0.4,2.1] | 100.0 |       |
| Pearson: Uncorrected chi2(3) =                      | 3.0867                         |            |      |             |      |            |            |           |       |       |
| Design-based F(2.28, 3322.27) =                     | 0.7856                         |            | Pr = | 0.471       |      |            |            |           |       |       |
| <b>Chronic disease (HEDIS)</b>                      |                                |            |      |             |      |            |            |           |       |       |
| Chronic disease (HEDIS) (n=491)                     | 9.5                            | [6.9,13.1] | 90.2 | [86.7,92.9] | 0.2  | [0.0,1.0]  | 0.0        |           | 100.0 |       |
| No chronic disease (n=979)                          | 7.3                            | [5.7,9.3]  | 90.0 | [87.4,92.0] | 1.6  | [0.8,3.1]  | 1.2        | [0.5,2.8] | 100.0 |       |
| Pearson: Uncorrected chi2(3) =                      | 11.7989                        |            |      |             |      |            |            |           |       |       |
| Design-based F(2.39, 3488.42) =                     | 2.6888                         |            | Pr = | 0.058       |      |            |            |           |       |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                |            |      |             |      |            |            |           |       |       |
| MH/SA (HEDIS) (n=766)                               | 10.9                           | [8.5,13.8] | 87.4 | [84.3,90.0] | 0.8  | [0.4,1.5]  | 0.9        | [0.2,3.4] | 100.0 |       |
| No MH/SA (n=704)                                    | 5.1                            | [3.7,7.1]  | 92.6 | [89.9,94.6] | 1.5  | [0.6,3.9]  | 0.8        | [0.2,2.3] | 100.0 |       |
| Pearson: Uncorrected chi2(3) =                      | 17.8860                        |            |      |             |      |            |            |           |       |       |
| Design-based F(2.69, 3926.03) =                     | 3.6371                         |            | Pr = | 0.016       |      |            |            |           |       |       |
| <b>Total (n=1,470)</b>                              | 8.0                            | [6.6,9.7]  | 90.0 | [88.0,91.7] | 1.2  | [0.6,2.3]  | 0.8        | [0.3,2.0] | 100.0 |       |

NA

### 4.73 Q: How often do you get together socially with friends or relatives who live outside your home?

Universe: All respondents

|   | Social connections |             |                |             |            |             |             |             |                     |             |            |           | Total<br>Row% |
|---|--------------------|-------------|----------------|-------------|------------|-------------|-------------|-------------|---------------------|-------------|------------|-----------|---------------|
|   | Every day          |             | Every few days |             | Every week |             | Every month |             | Once a year or less |             | Don't know |           |               |
|   | Row%               | 95%CI       | Row%           | 95%CI       | Row%       | 95%CI       | Row%        | 95%CI       | Row%                | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                    |             |                |             |            |             |             |             |                     |             |            |           |               |
| 0-35% (n=1,596)                                     | 14.3               | [12.3,16.7] | 21.7           | [19.3,24.3] | 27.8       | [25.0,30.7] | 22.4        | [19.9,25.1] | 13.1                | [11.2,15.3] | 0.7        | [0.4,1.3] | 100.0         |
| 36-99% (n=1,444)                                    | 14.4               | [12.3,16.8] | 25.3           | [22.7,28.1] | 31.5       | [28.6,34.5] | 18.9        | [16.8,21.3] | 9.2                 | [7.5,11.3]  | 0.7        | [0.4,1.2] | 100.0         |
| ≥ 100% (n = 1, 036)                                 | 12.7               | [10.4,15.4] | 26.4           | [23.4,29.7] | 32.9       | [29.6,36.4] | 20.3        | [17.7,23.3] | 7.4                 | [5.7,9.4]   | 0.4        | [0.2,0.9] | 100.0         |
| Pearson: Uncorrected chi2(10) =                     | 42.4992            |             |                |             |            |             |             |             |                     |             |            |           |               |
| Design-based F(9.34, 37970.89) =                    | 3.3986             |             | Pr =           | 0.000       |            |             |             |             |                     |             |            |           |               |
| <b>Region</b>                                       |                    |             |                |             |            |             |             |             |                     |             |            |           |               |
| UP/NW/NE (n=744)                                    | 14.1               | [11.3,17.5] | 28.2           | [24.7,32.0] | 29.1       | [25.5,32.9] | 17.0        | [14.2,20.3] | 10.7                | [8.3,13.6]  | 1.0        | [0.4,2.3] | 100.0         |
| W/E Central/E (n=1,261)                             | 14.9               | [12.7,17.5] | 24.2           | [21.6,27.0] | 28.9       | [26.1,31.9] | 21.4        | [18.9,24.1] | 9.8                 | [8.1,11.8]  | 0.7        | [0.3,1.4] | 100.0         |
| S Central/SW/SE (n=835)                             | 11.0               | [8.8,13.8]  | 26.6           | [23.2,30.3] | 30.4       | [26.6,34.5] | 20.2        | [17.3,23.6] | 10.9                | [8.5,13.9]  | 0.8        | [0.4,1.8] | 100.0         |
| Detroit Metro (n=1,236)                             | 14.6               | [12.3,17.3] | 21.1           | [18.4,24.1] | 30.4       | [27.3,33.7] | 21.9        | [19.1,24.9] | 11.5                | [9.5,14.0]  | 0.4        | [0.2,1.0] | 100.0         |
| Pearson: Uncorrected chi2(15) =                     | 25.3626            |             |                |             |            |             |             |             |                     |             |            |           |               |
| Design-based F(13.47, 54746.97) =                   | 1.3666             |             | Pr =           | 0.163       |            |             |             |             |                     |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                    |             |                |             |            |             |             |             |                     |             |            |           |               |
| Yes (n=488)   | 19.9               | [15.6,25.1] | 26.1           | [21.6,31.3] | 27.4       | [22.3,33.2] | 15.8        | [12.1,20.4] | 10.4                | [7.2,14.7]  | 0.4        | [0.1,1.7] | 100.0         |
| No (n=3,588)  | 13.0               | [11.6,14.4] | 23.2           | [21.5,25.0] | 30.3       | [28.4,32.2] | 21.9        | [20.3,23.7] | 10.9                | [9.7,12.3]  | 0.7        | [0.4,1.0] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 31.4358            |             |                |             |            |             |             |             |                     |             |            |           |               |
| Design-based F(4.82, 19585.16) =                    | 3.2127             |             | Pr =           | 0.007       |            |             |             |             |                     |             |            |           |               |
| <b>High ER utilizers</b>                            |                    |             |                |             |            |             |             |             |                     |             |            |           |               |
| Yes (n=155)   | 16.4               | [10.2,25.2] | 26.0           | [17.8,36.3] | 24.2       | [17.1,33.1] | 22.4        | [14.4,33.0] | 9.6                 | [5.8,15.4]  | 1.5        | [0.3,7.1] | 100.0         |
| No (n=3,921)  | 13.9               | [12.5,15.4] | 23.5           | [21.9,25.3] | 30.1       | [28.3,32.0] | 20.9        | [19.4,22.6] | 10.9                | [9.7,12.3]  | 0.6        | [0.4,0.9] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 5.7735             |             |                |             |            |             |             |             |                     |             |            |           |               |
| Design-based F(4.79, 19447.97) =                    | 0.6469             |             | Pr =           | 0.657       |            |             |             |             |                     |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                    |             |                |             |            |             |             |             |                     |             |            |           |               |
| Chronic disease (HEDIS) (n=1,157)                   | 13.3               | [10.9,16.0] | 19.5           | [16.8,22.4] | 28.5       | [25.3,31.8] | 25.4        | [22.4,28.7] | 12.5                | [10.3,15.1] | 0.9        | [0.4,1.7] | 100.0         |
| No chronic disease (n=2,919)                        | 14.3               | [12.7,16.0] | 25.1           | [23.1,27.1] | 30.3       | [28.2,32.5] | 19.5        | [17.7,21.4] | 10.3                | [8.9,11.9]  | 0.6        | [0.3,0.9] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 28.7484            |             |                |             |            |             |             |             |                     |             |            |           |               |
| Design-based F(4.95, 20135.51) =                    | 4.0330             |             | Pr =           | 0.001       |            |             |             |             |                     |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                    |             |                |             |            |             |             |             |                     |             |            |           |               |
| MH/SA (HEDIS) (n=2,027)                             | 11.4               | [9.7,13.3]  | 21.2           | [19.1,23.6] | 28.5       | [26.1,31.1] | 24.0        | [21.7,26.4] | 13.9                | [12.0,16.0] | 1.0        | [0.6,1.6] | 100.0         |
| No MH/SA (n=2,049)                                  | 16.5               | [14.5,18.7] | 25.9           | [23.6,28.4] | 31.1       | [28.5,33.8] | 18.2        | [16.2,20.4] | 8.0                 | [6.6,9.7]   | 0.3        | [0.1,0.7] | 100.0         |
| Pearson: Uncorrected chi2(5) =                      | 86.3350            |             |                |             |            |             |             |             |                     |             |            |           |               |
| Design-based F(4.95, 20128.88) =                    | 10.9211            |             | Pr =           | 0.000       |            |             |             |             |                     |             |            |           |               |
| <b>Total (n=4,076)</b>                              | 14.0               | [12.7,15.5] | 23.7           | [22.0,25.3] | 29.9       | [28.1,31.7] | 21.0        | [19.4,22.6] | 10.9                | [9.7,12.2]  | 0.6        | [0.4,1.0] | 100.0         |

#### 4.74 Q: Since enrolling in the Healthy Michigan Plan, are you involved with your family, friends or community more/less/about the same?

Universe: All respondents

|   | Social connection more/less |             |      |           |                |             |            |           | Total<br>Row% |
|---|-----------------------------|-------------|------|-----------|----------------|-------------|------------|-----------|---------------|
|   | More                        |             | Less |           | About the same |             | Don't know |           |               |
|   | Row%                        | 95%CI       | Row% | 95%CI     | Row%           | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                             |             |      |           |                |             |            |           |               |
| 0-35% (n=1,595)                                     | 16.1                        | [14.0,18.5] | 5.9  | [4.6,7.5] | 77.1           | [74.4,79.6] | 0.9        | [0.5,1.9] | 100.0         |
| 36-99% (n=1,446)                                    | 14.8                        | [12.6,17.3] | 3.1  | [2.3,4.3] | 81.6           | [79.0,83.9] | 0.5        | [0.2,1.1] | 100.0         |
| ≥ 100% (n = 1,036)                                  | 12.9                        | [10.6,15.6] | 2.5  | [1.7,3.7] | 84.5           | [81.8,87.0] | 0.1        | [0.0,0.4] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 37.0867                     |             |      |           |                |             |            |           |               |
| Design-based F(5.39, 21920.81) =                    | 5.5033                      |             | Pr = | 0.000     |                |             |            |           |               |
| <b>Region</b>                                       |                             |             |      |           |                |             |            |           |               |
| UP/NW/NE (n=743)                                    | 14.2                        | [11.5,17.3] | 4.9  | [3.4,6.9] | 80.7           | [77.3,83.7] | 0.2        | [0.1,0.8] | 100.0         |
| W/E Central/E (n=1,262)                             | 14.8                        | [12.6,17.2] | 4.1  | [3.0,5.5] | 80.1           | [77.4,82.6] | 1.0        | [0.4,2.6] | 100.0         |
| S Central/SW/SE (n=836)                             | 15.9                        | [13.0,19.2] | 3.5  | [2.4,5.0] | 80.3           | [76.8,83.4] | 0.4        | [0.1,1.3] | 100.0         |
| Detroit Metro (n=1,236)                             | 15.2                        | [12.8,17.9] | 5.0  | [3.6,6.8] | 79.3           | [76.3,82.0] | 0.6        | [0.3,1.3] | 100.0         |
| Pearson: Uncorrected chi2(9) =                      | 8.3643                      |             |      |           |                |             |            |           |               |
| Design-based F(7.39, 30023.68) =                    | 0.7344                      |             | Pr = | 0.650     |                |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                             |             |      |           |                |             |            |           |               |
| Yes (n=488)   | 8.2                         | [5.4,12.3]  | 1.1  | [0.3,4.0] | 89.9           | [85.4,93.1] | 0.8        | [0.2,3.2] | 100.0         |
| No (n=3,589)  | 16.3                        | [14.8,18.0] | 5.0  | [4.2,6.0] | 78.0           | [76.2,79.7] | 0.6        | [0.3,1.1] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 50.1661                     |             |      |           |                |             |            |           |               |
| Design-based F(2.98, 12104.29) =                    | 6.4674                      |             | Pr = | 0.000     |                |             |            |           |               |
| <b>High ER utilizers</b>                            |                             |             |      |           |                |             |            |           |               |
| Yes (n=155)   | 19.5                        | [13.6,27.3] | 3.1  | [1.2,7.5] | 74.3           | [65.6,81.3] | 3.1        | [1.0,9.3] | 100.0         |
| No (n=3,922)  | 14.9                        | [13.5,16.4] | 4.5  | [3.7,5.4] | 80.1           | [78.4,81.7] | 0.5        | [0.3,1.0] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 22.1235                     |             |      |           |                |             |            |           |               |
| Design-based F(2.88, 11711.66) =                    | 4.7551                      |             | Pr = | 0.003     |                |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |             |      |           |                |             |            |           |               |
| Chronic disease (HEDIS) (n=1,158)                   | 15.0                        | [12.6,17.6] | 6.8  | [5.2,8.9] | 77.8           | [74.8,80.7] | 0.4        | [0.1,1.0] | 100.0         |
| No chronic disease (n=2,919)                        | 15.2                        | [13.5,17.0] | 3.6  | [2.8,4.6] | 80.5           | [78.5,82.3] | 0.7        | [0.4,1.4] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 19.7952                     |             |      |           |                |             |            |           |               |
| Design-based F(2.97, 12059.58) =                    | 4.6406                      |             | Pr = | 0.003     |                |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |             |      |           |                |             |            |           |               |
| MH/SA (HEDIS) (n=2,029)                             | 18.4                        | [16.3,20.7] | 6.9  | [5.5,8.5] | 73.8           | [71.2,76.3] | 0.9        | [0.5,1.9] | 100.0         |
| No MH/SA (n=2,048)                                  | 12.0                        | [10.3,14.0] | 2.1  | [1.5,3.0] | 85.5           | [83.4,87.3] | 0.4        | [0.1,0.8] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 101.0280                    |             |      |           |                |             |            |           |               |
| Design-based F(2.98, 12120.96) =                    | 20.3804                     |             | Pr = | 0.000     |                |             |            |           |               |
| <b>Total (n=4,077)</b>                              | 15.1                        | [13.7,16.6] | 4.4  | [3.7,5.3] | 79.8           | [78.2,81.4] | 0.6        | [0.4,1.1] | 100.0         |

## 5 AIM 3: To understand enrollee decisions about when, where and how to seek care, including decisions about emergency department utilization

### 5.1 Q: In the last 12 months, was there a time when you needed help or advice when your usual clinic or doctor's office was closed?

Universe: All respondents

|   | Yes         |                    | Needed help when office closed |                    |                    |                  | Total<br>Row% |
|---|-------------|--------------------|--------------------------------|--------------------|--------------------|------------------|---------------|
|   | Row%        | 95%CI              | No<br>Row%                     | 95%CI              | Don't know<br>Row% | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                                |                    |                    |                  |               |
| 0-35% (n=1,584)                                     | 22.3        | [19.9,24.8]        | 77.4                           | [74.8,79.7]        | 0.3                | [0.2,0.8]        | 100.0         |
| 36-99% (n=1,442)                                    | 21.2        | [18.8,23.8]        | 78.1                           | [75.4,80.6]        | 0.7                | [0.2,2.4]        | 100.0         |
| ≥ 100% (n = 1,037)                                  | 22.2        | [19.4,25.3]        | 77.5                           | [74.4,80.3]        | 0.3                | [0.1,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 3.2862      |                    |                                |                    |                    |                  |               |
| Design-based F(3.52, 14279.57) =                    | 0.5817      | Pr =               | 0.654                          |                    |                    |                  |               |
| <b>Region</b>                                       |             |                    |                                |                    |                    |                  |               |
| UP/NW/NE (n=742)                                    | 21.1        | [17.9,24.6]        | 78.5                           | [75.0,81.7]        | 0.4                | [0.1,2.0]        | 100.0         |
| W/E Central/E (n=1,257)                             | 24.5        | [21.9,27.4]        | 74.7                           | [71.9,77.4]        | 0.7                | [0.4,1.5]        | 100.0         |
| S Central/SW/SE (n=832)                             | 22.8        | [19.6,26.2]        | 77.2                           | [73.7,80.3]        | 0.1                | [0.0,0.5]        | 100.0         |
| Detroit Metro (n=1,232)                             | 20.1        | [17.6,22.9]        | 79.4                           | [76.6,82.0]        | 0.4                | [0.1,1.6]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 13.0160     |                    |                                |                    |                    |                  |               |
| Design-based F(4.84, 19604.29) =                    | 1.7086      | Pr =               | 0.131                          |                    |                    |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                                |                    |                    |                  |               |
| Yes (n=476)   | 10.0        | [7.2,13.7]         | 88.9                           | [84.9,92.0]        | 1.1                | [0.3,4.6]        | 100.0         |
| No (n=3,587)  | 24.1        | [22.4,25.8]        | 75.6                           | [73.8,77.3]        | 0.3                | [0.2,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 65.6325     |                    |                                |                    |                    |                  |               |
| Design-based F(1.92, 7791.77) =                     | 14.6243     | Pr =               | 0.000                          |                    |                    |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                                |                    |                    |                  |               |
| Yes (n=152)   | 37.4        | [28.8,47.0]        | 61.9                           | [52.3,70.6]        | 0.7                | [0.1,4.7]        | 100.0         |
| No (n=3,911)  | 21.3        | [19.7,22.9]        | 78.3                           | [76.7,79.9]        | 0.4                | [0.2,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 26.3996     |                    |                                |                    |                    |                  |               |
| Design-based F(1.96, 7956.39) =                     | 8.9983      | Pr =               | 0.000                          |                    |                    |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                                |                    |                    |                  |               |
| Chronic disease (HEDIS) (n=1,157)                   | 28.1        | [25.0,31.3]        | 71.4                           | [68.1,74.5]        | 0.5                | [0.2,1.3]        | 100.0         |
| No chronic disease (n=2,906)                        | 19.9        | [18.2,21.8]        | 79.7                           | [77.8,81.4]        | 0.4                | [0.2,1.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 30.1661     |                    |                                |                    |                    |                  |               |
| Design-based F(2.00, 8094.40) =                     | 10.3802     | Pr =               | 0.000                          |                    |                    |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                                |                    |                    |                  |               |
| MH/SA (HEDIS) (n=2,024)                             | 29.9        | [27.4,32.4]        | 69.6                           | [67.0,72.0]        | 0.6                | [0.2,1.4]        | 100.0         |
| No MH/SA (n=2,039)                                  | 14.5        | [12.8,16.5]        | 85.1                           | [83.2,86.9]        | 0.3                | [0.1,0.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 141.5344    |                    |                                |                    |                    |                  |               |
| Design-based F(1.99, 8060.12) =                     | 43.3910     | Pr =               | 0.000                          |                    |                    |                  |               |
| <b>Total (n=4,063)</b>                              | <b>22.0</b> | <b>[20.4,23.6]</b> | <b>77.6</b>                    | <b>[76.0,79.1]</b> | <b>0.4</b>         | <b>[0.2,0.9]</b> | <b>100.0</b>  |

## 5.2 Q: In the most recent case, did you try to contact your provider's office after it was closed to get help or advice?

Universe: Respondents who needed help when usual clinic or doctor's office was closed

|   | Tried to contact office when closed |             |       |             |            |           | Total<br>Row% |
|---|-------------------------------------|-------------|-------|-------------|------------|-----------|---------------|
|   | Yes                                 |             | No    |             | Don't know |           |               |
|   | Row%                                | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                                     |             |       |             |            |           |               |
| 0-35% (n=378)                                       | 44.5                                | [38.6,50.6] | 54.8  | [48.8,60.8] | 0.6        | [0.2,2.4] | 100.0         |
| 36-99% (n=306)                                      | 50.2                                | [43.5,56.9] | 49.8  | [43.1,56.5] | 0.0        |           | 100.0         |
| ≥ 100%(n = 232)                                     | 47.8                                | [40.4,55.3] | 51.2  | [43.7,58.7] | 1.0        | [0.1,6.5] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 4.1658                              |             |       |             |            |           |               |
| Design-based F(3.91, 3533.97) =                     | 0.7188                              | Pr =        | 0.576 |             |            |           |               |
| <b>Region</b>                                       |                                     |             |       |             |            |           |               |
| UP/NW/NE (n=159)                                    | 36.0                                | [28.2,44.6] | 64.0  | [55.4,71.8] | 0.0        |           | 100.0         |
| W/E Central/E (n=307)                               | 45.2                                | [38.9,51.6] | 54.2  | [47.8,60.5] | 0.6        | [0.1,4.1] | 100.0         |
| S Central/SW/SE (n=198)                             | 47.8                                | [39.7,56.0] | 52.2  | [44.0,60.3] | 0.0        |           | 100.0         |
| Detroit Metro (n=252)                               | 49.9                                | [42.6,57.1] | 49.3  | [42.1,56.7] | 0.8        | [0.2,3.2] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 7.7095                              |             |       |             |            |           |               |
| Design-based F(4.88, 4409.15) =                     | 1.0957                              | Pr =        | 0.360 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                                     |             |       |             |            |           |               |
| Yes (n=53)  | 36.6                                | [22.7,53.1] | 63.4  | [46.9,77.3] | 0.0        |           | 100.0         |
| No (n=863)  | 47.5                                | [43.4,51.6] | 52.0  | [47.9,56.0] | 0.5        | [0.2,1.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2867                              |             |       |             |            |           |               |
| Design-based F(2.00, 1804.01) =                     | 1.0045                              | Pr =        | 0.366 |             |            |           |               |
| <b>High ER utilizers</b>                            |                                     |             |       |             |            |           |               |
| Yes (n=70)  | 64.7                                | [50.4,76.8] | 35.3  | [23.2,49.6] | 0.0        |           | 100.0         |
| No (n=846)  | 45.3                                | [41.2,49.5] | 54.1  | [50.0,58.3] | 0.6        | [0.2,1.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.7194                              |             |       |             |            |           |               |
| Design-based F(1.99, 1802.96) =                     | 3.2718                              | Pr =        | 0.038 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |             |       |             |            |           |               |
| Chronic disease (HEDIS) (n=317)                     | 45.8                                | [39.3,52.3] | 53.7  | [47.2,60.2] | 0.5        | [0.1,3.5] | 100.0         |
| No chronic disease (n=599)                          | 47.2                                | [42.3,52.2] | 52.3  | [47.3,57.2] | 0.5        | [0.1,2.0] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1760                              |             |       |             |            |           |               |
| Design-based F(2.00, 1804.58) =                     | 0.0597                              | Pr =        | 0.942 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |             |       |             |            |           |               |
| MH/SA (HEDIS) (n=607)                               | 50.5                                | [45.6,55.4] | 49.0  | [44.1,53.9] | 0.5        | [0.1,1.9] | 100.0         |
| No MH/SA (n=309)                                    | 39.5                                | [33.3,46.2] | 59.9  | [53.3,66.2] | 0.6        | [0.1,3.9] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.9733                              |             |       |             |            |           |               |
| Design-based F(1.99, 1801.66) =                     | 3.2300                              | Pr =        | 0.040 |             |            |           |               |
| <b>Total (n=916)</b>                                | 46.8                                | [42.8,50.7] | 52.7  | [48.7,56.7] | 0.5        | [0.2,1.6] | 100.0         |

### 5.3 Q: Were you able to talk to someone?

Universe: Respondents who tried to contact provider's office after it was closed

|   | Were you able to talk to someone? |             |       |             |            |           | Total<br>Row% |
|---|-----------------------------------|-------------|-------|-------------|------------|-----------|---------------|
|   | Yes                               |             | No    |             | Don't know |           |               |
|   | Row%                              | 95%CI       | Row%  | 95%CI       | Row%       | 95%CI     |               |
| <b>FPL category</b>                                 |                                   |             |       |             |            |           |               |
| 0-35% (n=172)                                       | 58.3                              | [49.2,66.9] | 40.8  | [32.2,50.0] | 0.9        | [0.1,6.3] | 100.0         |
| 36-99% (n=153)                                      | 52.1                              | [42.3,61.7] | 47.9  | [38.3,57.7] | 0.0        |           | 100.0         |
| ≥ 100% (n = 103)                                    | 58.6                              | [46.7,69.7] | 41.4  | [30.3,53.3] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 3.5968                            |             |       |             |            |           |               |
| Design-based F(3.30, 1370.74) =                     | 0.6971                            | Pr =        | 0.567 |             |            |           |               |
| <b>Region</b>                                       |                                   |             |       |             |            |           |               |
| UP/NW/NE (n=62)                                     | 52.9                              | [38.8,66.5] | 47.1  | [33.5,61.2] | 0.0        |           | 100.0         |
| W/E Central/E (n=142)                               | 64.5                              | [55.0,73.0] | 35.5  | [27.0,45.0] | 0.0        |           | 100.0         |
| S Central/SW/SE (n=96)                              | 55.0                              | [43.3,66.1] | 45.0  | [33.9,56.7] | 0.0        |           | 100.0         |
| Detroit Metro (n=128)                               | 52.1                              | [41.8,62.2] | 46.8  | [36.8,57.1] | 1.1        | [0.1,7.3] | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 7.3159                            |             |       |             |            |           |               |
| Design-based F(4.09, 1701.39) =                     | 1.2326                            | Pr =        | 0.295 |             |            |           |               |
| <b>Low healthcare utilizers</b>                     |                                   |             |       |             |            |           |               |
| Yes (n=21)  | 45.4                              | [23.4,69.4] | 54.6  | [30.6,76.6] | 0.0        |           | 100.0         |
| No (n=407)  | 57.2                              | [51.1,63.0] | 42.4  | [36.6,48.4] | 0.5        | [0.1,3.4] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.3858                            |             |       |             |            |           |               |
| Design-based F(1.96, 816.45) =                      | 0.4086                            | Pr =        | 0.661 |             |            |           |               |
| <b>High ER utilizers</b>                            |                                   |             |       |             |            |           |               |
| Yes (n=49)  | 60.0                              | [44.4,73.7] | 40.0  | [26.3,55.6] | 0.0        |           | 100.0         |
| No (n=379)  | 56.1                              | [49.8,62.3] | 43.4  | [37.2,49.7] | 0.5        | [0.1,3.6] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.4300                            |             |       |             |            |           |               |
| Design-based F(1.88, 780.55) =                      | 0.1401                            | Pr =        | 0.857 |             |            |           |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |             |       |             |            |           |               |
| Chronic disease (HEDIS) (n=155)                     | 62.9                              | [53.8,71.1] | 37.1  | [28.9,46.2] | 0.0        |           | 100.0         |
| No chronic disease (n=273)                          | 53.6                              | [46.2,60.8] | 45.7  | [38.5,53.1] | 0.7        | [0.1,4.6] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.8894                            |             |       |             |            |           |               |
| Design-based F(1.92, 798.18) =                      | 1.2069                            | Pr =        | 0.299 |             |            |           |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |             |       |             |            |           |               |
| MH/SA (HEDIS) (n=294)                               | 55.6                              | [48.5,62.6] | 43.7  | [36.8,50.9] | 0.6        | [0.1,4.5] | 100.0         |
| No MH/SA (n=134)                                    | 58.7                              | [48.5,68.2] | 41.3  | [31.8,51.5] | 0.0        |           | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0577                            |             |       |             |            |           |               |
| Design-based F(1.95, 810.52) =                      | 0.3164                            | Pr =        | 0.723 |             |            |           |               |
| <b>Total (n=428)</b>                                | 56.5                              | [50.6,62.2] | 43.0  | [37.3,48.9] | 0.5        | [0.1,3.2] | 100.0         |

## 5.4 Q: Why didn't you try to contact your provider's office?

### 5.4.1 No attempt to contact provider's office because- It was closed

Universe: Respondents who did not try to contact provider's office after it was closed

|   | No doctor contact: closed |                    |             |                    | Total<br>Row% |
|---|---------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%               | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                           |                    |             |                    |               |
| 0-35% (n=206)                                       | 70.5                      | [62.3,77.6]        | 29.5        | [22.4,37.7]        | 100.0         |
| 36-99% (n=153)                                      | 72.2                      | [63.4,79.5]        | 27.8        | [20.5,36.6]        | 100.0         |
| ≥ 100% (n = 129)                                    | 63.0                      | [52.8,72.2]        | 37.0        | [27.8,47.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.4255                    |                    |             |                    |               |
| Design-based F(1.94, 924.82) =                      | 0.9716                    | Pr =               | 0.377       |                    |               |
| <b>Region</b>                                       |                           |                    |             |                    |               |
| UP/NW/NE (n=97)                                     | 74.5                      | [62.7,83.6]        | 25.5        | [16.4,37.3]        | 100.0         |
| W/E Central/E (n=164)                               | 70.9                      | [62.7,78.0]        | 29.1        | [22.0,37.3]        | 100.0         |
| S Central/SW/SE (n=103)                             | 60.3                      | [48.4,71.1]        | 39.7        | [28.9,51.6]        | 100.0         |
| Detroit Metro (n=124)                               | 71.5                      | [61.0,80.1]        | 28.5        | [19.9,39.0]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.8067                    |                    |             |                    |               |
| Design-based F(2.74, 1302.88) =                     | 1.2277                    | Pr =               | 0.298       |                    |               |
| <b>Low healthcare utilizers</b>                     |                           |                    |             |                    |               |
| Yes (n=32)  | 56.0                      | [33.8,76.0]        | 44.0        | [24.0,66.2]        | 100.0         |
| No (n=456)  | 70.7                      | [65.4,75.5]        | 29.3        | [24.5,34.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.6987                    |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 1.8129                    | Pr =               | 0.179       |                    |               |
| <b>High ER utilizers</b>                            |                           |                    |             |                    |               |
| Yes (n=21)  | 64.4                      | [36.6,85.1]        | 35.6        | [14.9,63.4]        | 100.0         |
| No (n=467)  | 69.7                      | [64.4,74.6]        | 30.3        | [25.4,35.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3019                    |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.1636                    | Pr =               | 0.686       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                           |                    |             |                    |               |
| Chronic disease (HEDIS) (n=163)                     | 66.4                      | [57.4,74.3]        | 33.6        | [25.7,42.6]        | 100.0         |
| No chronic disease (n=325)                          | 71.0                      | [64.3,76.9]        | 29.0        | [23.1,35.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0995                    |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.7543                    | Pr =               | 0.386       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                           |                    |             |                    |               |
| MH/SA (HEDIS) (n=312)                               | 69.9                      | [63.3,75.7]        | 30.1        | [24.3,36.7]        | 100.0         |
| No MH/SA (n=176)                                    | 68.9                      | [59.6,76.8]        | 31.1        | [23.2,40.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0531                    |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.0332                    | Pr =               | 0.855       |                    |               |
| <b>Total (n=488)</b>                                | <b>69.5</b>               | <b>[64.2,74.3]</b> | <b>30.5</b> | <b>[25.7,35.8]</b> | <b>100.0</b>  |

## 5.4.2 No attempt to contact provider's office because- Felt it was an emergency

Universe: Respondents who did not try to contact provider's office after it was closed

|   | Yes         |                    | No doctor contact: emergency |                    | Total<br>Row% |
|---|-------------|--------------------|------------------------------|--------------------|---------------|
|   | Row%        | 95%CI              | No<br>Row%                   | 95%CI              |               |
| <b>FPL category</b>                                 |             |                    |                              |                    |               |
| 0-35% (n=206)                                       | 15.7        | [10.6,22.6]        | 84.3                         | [77.4,89.4]        | 100.0         |
| 36-99% (n=153)                                      | 16.9        | [11.2,24.5]        | 83.1                         | [75.5,88.8]        | 100.0         |
| ≥ 100%(n = 129)                                     | 13.6        | [8.3,21.6]         | 86.4                         | [78.4,91.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.4329      |                    |                              |                    |               |
| Design-based F(1.94, 921.42) =                      | 0.1869      | Pr =               | 0.823                        |                    |               |
| <b>Region</b>                                       |             |                    |                              |                    |               |
| UP/NW/NE (n=97)                                     | 20.6        | [12.2,32.6]        | 79.4                         | [67.4,87.8]        | 100.0         |
| W/E Central/E (n=164)                               | 15.0        | [9.9,22.0]         | 85.0                         | [78.0,90.1]        | 100.0         |
| S Central/SW/SE (n=103)                             | 22.7        | [13.6,35.4]        | 77.3                         | [64.6,86.4]        | 100.0         |
| Detroit Metro (n=124)                               | 11.1        | [6.3,18.8]         | 88.9                         | [81.2,93.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 7.3457      |                    |                              |                    |               |
| Design-based F(2.82, 1341.34) =                     | 1.8257      | Pr =               | 0.144                        |                    |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                              |                    |               |
| Yes (n=32)  | 11.5        | [3.4,32.2]         | 88.5                         | [67.8,96.6]        | 100.0         |
| No (n=456)  | 16.0        | [12.3,20.5]        | 84.0                         | [79.5,87.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5464      |                    |                              |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.3158      | Pr =               | 0.574                        |                    |               |
| <b>High ER utilizers</b>                            |             |                    |                              |                    |               |
| Yes (n=21)  | 26.5        | [9.0,56.7]         | 73.5                         | [43.3,91.0]        | 100.0         |
| No (n=467)  | 15.0        | [11.6,19.3]        | 85.0                         | [80.7,88.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.2564      |                    |                              |                    |               |
| Design-based F(1.00, 476.00) =                      | 1.1498      | Pr =               | 0.284                        |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                              |                    |               |
| Chronic disease (HEDIS) (n=163)                     | 19.0        | [12.9,27.2]        | 81.0                         | [72.8,87.1]        | 100.0         |
| No chronic disease (n=325)                          | 13.9        | [9.9,19.2]         | 86.1                         | [80.8,90.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.1334      |                    |                              |                    |               |
| Design-based F(1.00, 476.00) =                      | 1.4923      | Pr =               | 0.222                        |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                              |                    |               |
| MH/SA (HEDIS) (n=312)                               | 16.8        | [12.3,22.6]        | 83.2                         | [77.4,87.7]        | 100.0         |
| No MH/SA (n=176)                                    | 13.7        | [8.7,20.9]         | 86.3                         | [79.1,91.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.8592      |                    |                              |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.5793      | Pr =               | 0.447                        |                    |               |
| <b>Total (n=488)</b>                                | <b>15.6</b> | <b>[12.1,19.9]</b> | <b>84.4</b>                  | <b>[80.1,87.9]</b> | <b>100.0</b>  |



### 5.4.3 No attempt to contact provider's office because- Decided to wait and see if conditions resolved

Universe: Respondents who did not try to contact provider's office after it was closed

|   | No doctor contact: wait and see |                  |             |                    | Total<br>Row% |
|---|---------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                     | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                 |                  |             |                    |               |
| 0-35% (n=206)                                       | 5.5                             | [2.6,11.2]       | 94.5        | [88.8,97.4]        | 100.0         |
| 36-99% (n=153)                                      | 6.5                             | [3.4,12.0]       | 93.5        | [88.0,96.6]        | 100.0         |
| ≥ 100%(n = 129)                                     | 9.3                             | [4.8,17.1]       | 90.7        | [82.9,95.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.6962                          |                  |             |                    |               |
| Design-based F(1.88, 893.14) =                      | 0.6624                          | Pr =             | 0.507       |                    |               |
| <b>Region</b>                                       |                                 |                  |             |                    |               |
| UP/NW/NE (n=97)                                     | 3.3                             | [0.9,11.3]       | 96.7        | [88.7,99.1]        | 100.0         |
| W/E Central/E (n=164)                               | 7.8                             | [4.3,13.7]       | 92.2        | [86.3,95.7]        | 100.0         |
| S Central/SW/SE (n=103)                             | 8.2                             | [3.7,17.2]       | 91.8        | [82.8,96.3]        | 100.0         |
| Detroit Metro (n=124)                               | 5.4                             | [2.1,13.0]       | 94.6        | [87.0,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.0718                          |                  |             |                    |               |
| Design-based F(2.65, 1261.02) =                     | 0.5253                          | Pr =             | 0.642       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                 |                  |             |                    |               |
| Yes (n=32)  | 0.0                             |                  | 100.0       |                    | 100.0         |
| No (n=456)  | 7.1                             | [4.6,10.6]       | 92.9        | [89.4,95.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.9788                          |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 1.8369                          | Pr =             | 0.176       |                    |               |
| <b>High ER utilizers</b>                            |                                 |                  |             |                    |               |
| Yes (n=21)  | 13.0                            | [2.9,42.1]       | 87.0        | [57.9,97.1]        | 100.0         |
| No (n=467)  | 6.2                             | [4.0,9.5]        | 93.8        | [90.5,96.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.7360                          |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.9960                          | Pr =             | 0.319       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                 |                  |             |                    |               |
| Chronic disease (HEDIS) (n=163)                     | 4.8                             | [2.2,9.9]        | 95.2        | [90.1,97.8]        | 100.0         |
| No chronic disease (n=325)                          | 7.3                             | [4.4,11.9]       | 92.7        | [88.1,95.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.1842                          |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.9259                          | Pr =             | 0.336       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                 |                  |             |                    |               |
| MH/SA (HEDIS) (n=312)                               | 7.2                             | [4.2,12.0]       | 92.8        | [88.0,95.8]        | 100.0         |
| No MH/SA (n=176)                                    | 5.4                             | [2.8,10.2]       | 94.6        | [89.8,97.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5673                          |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.4232                          | Pr =             | 0.516       |                    |               |
| <b>Total (n=488)</b>                                | <b>6.5</b>                      | <b>[4.3,9.8]</b> | <b>93.5</b> | <b>[90.2,95.7]</b> | <b>100.0</b>  |

#### 5.4.4 No attempt to contact provider's office because- Unsure how to contact provider

Universe: Respondents who did not try to contact provider's office after it was closed

|   | No doctor contact: unsure how |                  |             |                    | Total<br>Row% |
|---|-------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                   | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                               |                  |             |                    |               |
| 0-35% (n=206)                                       | 0.1                           | [0.0,0.8]        | 99.9        | [99.2,100.0]       | 100.0         |
| 36-99% (n=153)                                      | 2.8                           | [0.4,17.3]       | 97.2        | [82.7,99.6]        | 100.0         |
| ≥ 100%(n = 129)                                     | 2.0                           | [0.3,13.0]       | 98.0        | [87.0,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 6.0486                        |                  |             |                    |               |
| Design-based F(1.33, 633.05) =                      | 2.0905                        | Pr =             | 0.142       |                    |               |
| <b>Region</b>                                       |                               |                  |             |                    |               |
| UP/NW/NE (n=97)                                     | 0.6                           | [0.1,4.1]        | 99.4        | [95.9,99.9]        | 100.0         |
| W/E Central/E (n=164)                               | 0.0                           |                  | 100.0       |                    | 100.0         |
| S Central/SW/SE (n=103)                             | 2.0                           | [0.3,13.2]       | 98.0        | [86.8,99.7]        | 100.0         |
| Detroit Metro (n=124)                               | 1.9                           | [0.3,12.2]       | 98.1        | [87.8,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.5191                        |                  |             |                    |               |
| Design-based F(2.06, 980.26) =                      | 0.6337                        | Pr =             | 0.535       |                    |               |
| <b>Low healthcare utilizers</b>                     |                               |                  |             |                    |               |
| Yes (n=32)  | 8.8                           | [1.3,42.2]       | 91.2        | [57.8,98.7]        | 100.0         |
| No (n=456)  | 0.5                           | [0.1,2.7]        | 99.5        | [97.3,99.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 21.8547                       |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 9.1887                        | Pr =             | 0.003       |                    |               |
| <b>High ER utilizers</b>                            |                               |                  |             |                    |               |
| Yes (n=21)  | 0.0                           |                  | 100.0       |                    | 100.0         |
| No (n=467)  | 1.2                           | [0.3,4.7]        | 98.8        | [95.3,99.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2979                        |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.1175                        | Pr =             | 0.732       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |                  |             |                    |               |
| Chronic disease (HEDIS) (n=163)                     | 0.0                           |                  | 100.0       |                    | 100.0         |
| No chronic disease (n=325)                          | 1.7                           | [0.4,6.6]        | 98.3        | [93.4,99.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.8413                        |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 1.0544                        | Pr =             | 0.305       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |                  |             |                    |               |
| MH/SA (HEDIS) (n=312)                               | 0.1                           | [0.0,0.7]        | 99.9        | [99.3,100.0]       | 100.0         |
| No MH/SA (n=176)                                    | 2.8                           | [0.7,11.2]       | 97.2        | [88.8,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 7.5521                        |                  |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 17.3397                       | Pr =             | 0.000       |                    |               |
| <b>Total (n=488)</b>                                | <b>1.2</b>                    | <b>[0.3,4.5]</b> | <b>98.8</b> | <b>[95.5,99.7]</b> | <b>100.0</b>  |

### 5.4.5 No attempt to contact provider's office because- Other

Universe: Respondents who did not try to contact provider's office after it was closed

|   | No doctor contact: other response-record |                    |             |                    | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                              | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |  |                    |             |                    |               |
| 0-35% (n=206)                                       | 20.7                                     | [14.4,28.9]        | 79.3        | [71.1,85.6]        | 100.0         |
| 36-99% (n=153)                                      | 23.7                                     | [16.7,32.4]        | 76.3        | [67.6,83.3]        | 100.0         |
| ≥ 100% (n = 129)                                    | 22.5                                     | [15.6,31.3]        | 77.5        | [68.7,84.4]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.4639                                   |                    |             |                    |               |
| Design-based F(1.89, 897.36) =                      | 0.1807                                   | Pr =               | 0.822       |                    |               |
| <b>Region</b>                                       |  |                    |             |                    |               |
| UP/NW/NE (n=97)                                     | 14.9                                     | [8.8,23.9]         | 85.1        | [76.1,91.2]        | 100.0         |
| W/E Central/E (n=164)                               | 22.2                                     | [16.0,29.9]        | 77.8        | [70.1,84.0]        | 100.0         |
| S Central/SW/SE (n=103)                             | 21.9                                     | [13.9,32.8]        | 78.1        | [67.2,86.1]        | 100.0         |
| Detroit Metro (n=124)                               | 23.4                                     | [15.2,34.3]        | 76.6        | [65.7,84.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.7146                                   |                    |             |                    |               |
| Design-based F(2.55, 1214.00) =                     | 0.4499                                   | Pr =               | 0.686       |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |               |
| Yes (n=32)  | 36.7                                     | [17.9,60.6]        | 63.3        | [39.4,82.1]        | 100.0         |
| No (n=456)  | 20.5                                     | [16.2,25.6]        | 79.5        | [74.4,83.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.5708                                   |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 2.5526                                   | Pr =               | 0.111       |                    |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |               |
| Yes (n=21)  | 10.6                                     | [3.2,29.6]         | 89.4        | [70.4,96.8]        | 100.0         |
| No (n=467)  | 22.4                                     | [17.9,27.7]        | 77.6        | [72.3,82.1]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.8721                                   |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 1.9488                                   | Pr =               | 0.163       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |               |
| Chronic disease (HEDIS) (n=163)                     | 19.0                                     | [13.2,26.7]        | 81.0        | [73.3,86.8]        | 100.0         |
| No chronic disease (n=325)                          | 23.2                                     | [17.6,29.9]        | 76.8        | [70.1,82.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.1170                                   |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.7993                                   | Pr =               | 0.372       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |               |
| MH/SA (HEDIS) (n=312)                               | 21.3                                     | [16.2,27.4]        | 78.7        | [72.6,83.8]        | 100.0         |
| No MH/SA (n=176)                                    | 22.6                                     | [15.4,32.1]        | 77.4        | [67.9,84.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1228                                   |                    |             |                    |               |
| Design-based F(1.00, 476.00) =                      | 0.0700                                   | Pr =               | 0.792       |                    |               |
| <b>Total (n=488)</b>                                | <b>21.8</b>                              | <b>[17.5,26.9]</b> | <b>78.2</b> | <b>[73.1,82.5]</b> | <b>100.0</b>  |

#### 5.4.6 No attempt to contact provider's office because- Don't know

*Universe:* Respondents who did not try to contact provider's office after it was closed

| <hr/>                         |                |
|-------------------------------|----------------|
| No doctor contact: don't know | No.            |
| Yes                           | 785.0          |
| No                            | 43737.8        |
| <b>Total</b>                  | <b>44522.8</b> |

#### 5.4.7 No attempt to contact provider's office because- Refused

*Universe:* Respondents who did not try to contact provider's office after it was closed

| <b>No doctor contact: refused</b> | No.            |
|-----------------------------------|----------------|
| Yes                               | 115.2          |
| No                                | 44407.6        |
| <b>Total</b>                      | <b>44522.8</b> |

## 5.5 Q: During the past 12 months, did you go to a hospital emergency room about your own health (whether or not you were admitted overnight)?

Universe: All respondents

|   | Any ER visits past 12 months |                    |             |                    |            |                  | Total<br>Row% |
|---|------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                          |                    | No          |                    | Don't know |                  |               |
|   | Row%                         | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                              |                    |             |                    |            |                  |               |
| 0-35% (n=1,600)                                     | 41.5                         | [38.5,44.6]        | 57.7        | [54.6,60.7]        | 0.8        | [0.4,1.7]        | 100.0         |
| 36-99% (n=1,450)                                    | 33.4                         | [30.5,36.4]        | 66.6        | [63.5,69.5]        | 0.0        | [0.0,0.3]        | 100.0         |
| ≥ 100%(n = 1,040)                                   | 33.6                         | [30.3,37.1]        | 65.7        | [62.2,69.0]        | 0.7        | [0.3,1.5]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 38.0119                      |                    |             |                    |            |                  |               |
| Design-based F(3.52, 14335.31) =                    | 8.5208                       | Pr =               | 0.000       |                    |            |                  |               |
| <b>Region</b>                                       |                              |                    |             |                    |            |                  |               |
| UP/NW/NE (n=746)                                    | 33.5                         | [29.8,37.5]        | 65.5        | [61.5,69.3]        | 1.0        | [0.4,2.2]        | 100.0         |
| W/E Central/E (n=1,265)                             | 36.7                         | [33.6,39.8]        | 62.9        | [59.7,65.9]        | 0.5        | [0.2,1.0]        | 100.0         |
| S Central/SW/SE (n=837)                             | 39.8                         | [35.9,44.0]        | 59.4        | [55.3,63.4]        | 0.7        | [0.3,1.8]        | 100.0         |
| Detroit Metro (n=1,242)                             | 38.2                         | [34.9,41.6]        | 61.3        | [57.9,64.6]        | 0.5        | [0.2,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 6.5598                       |                    |             |                    |            |                  |               |
| Design-based F(4.89, 19949.08) =                    | 0.8018                       | Pr =               | 0.546       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                              |                    |             |                    |            |                  |               |
| Yes (n=491)   | 26.6                         | [21.8,32.1]        | 72.7        | [67.2,77.5]        | 0.7        | [0.2,2.0]        | 100.0         |
| No (n=3,599)  | 39.6                         | [37.6,41.7]        | 59.8        | [57.8,61.9]        | 0.6        | [0.3,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 37.8677                      |                    |             |                    |            |                  |               |
| Design-based F(1.93, 7886.83) =                     | 10.6164                      | Pr =               | 0.000       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                              |                    |             |                    |            |                  |               |
| Yes (n=156)   | 84.1                         | [72.7,91.3]        | 15.9        | [8.7,27.3]         | 0.0        |                  | 100.0         |
| No (n=3,934)  | 35.5                         | [33.6,37.4]        | 63.9        | [61.9,65.8]        | 0.6        | [0.3,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 174.0909                     |                    |             |                    |            |                  |               |
| Design-based F(1.91, 7774.07) =                     | 35.5602                      | Pr =               | 0.000       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                              |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=1,161)                   | 48.3                         | [44.8,51.9]        | 51.0        | [47.4,54.6]        | 0.6        | [0.3,1.3]        | 100.0         |
| No chronic disease (n=2,929)                        | 34.0                         | [31.8,36.3]        | 65.4        | [63.1,67.6]        | 0.6        | [0.3,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 67.5120                      |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8118.36) =                     | 24.1425                      | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                              |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=2,034)                             | 49.2                         | [46.4,52.0]        | 49.9        | [47.1,52.6]        | 0.9        | [0.5,1.8]        | 100.0         |
| No MH/SA (n=2,056)                                  | 26.8                         | [24.4,29.4]        | 72.9        | [70.3,75.4]        | 0.2        | [0.1,0.6]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 232.6156                     |                    |             |                    |            |                  |               |
| Design-based F(1.99, 8104.66) =                     | 74.9585                      | Pr =               | 0.000       |                    |            |                  |               |
| <b>Total (n=4,090)</b>                              | <b>37.6</b>                  | <b>[35.7,39.6]</b> | <b>61.8</b> | <b>[59.8,63.7]</b> | <b>0.6</b> | <b>[0.3,1.0]</b> | <b>100.0</b>  |

## 5.6 Q: Thinking about the last time you were at the emergency room, did you think your problem needed to be handled in the emergency room?

Universe: Respondents who went to a hospital emergency room in the past 12 months

|   | Last ER visit: was it emergency? |                    |             |                    |            |                  | Total<br>Row% |
|---|----------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                              |                    | No          |                    | Don't know |                  |               |
|   | Row%                             | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                  |                    |             |                    |            |                  |               |
| 0-35% (n=650)                                       | 82.9                             | [78.8,86.3]        | 16.4        | [13.0,20.5]        | 0.7        | [0.3,1.5]        | 100.0         |
| 36-99% (n=472)                                      | 83.3                             | [78.4,87.2]        | 14.7        | [11.0,19.5]        | 2.0        | [0.9,4.2]        | 100.0         |
| ≥ 100%(n = 333)                                     | 87.7                             | [82.8,91.3]        | 10.5        | [7.2,15.0]         | 1.8        | [0.6,5.1]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.5445                           |                    |             |                    |            |                  |               |
| Design-based F(3.86, 5575.03) =                     | 1.8924                           | Pr =               | 0.111       |                    |            |                  |               |
| <b>Region</b>                                       |                                  |                    |             |                    |            |                  |               |
| UP/NW/NE (n=248)                                    | 83.1                             | [76.7,88.1]        | 15.1        | [10.4,21.4]        | 1.7        | [0.6,5.2]        | 100.0         |
| W/E Central/E (n=440)                               | 84.6                             | [80.1,88.2]        | 13.6        | [10.2,17.9]        | 1.8        | [0.8,4.0]        | 100.0         |
| S Central/SW/SE (n=314)                             | 81.1                             | [74.3,86.4]        | 16.7        | [11.6,23.5]        | 2.2        | [1.0,5.1]        | 100.0         |
| Detroit Metro (n=453)                               | 84.7                             | [80.0,88.4]        | 15.0        | [11.3,19.6]        | 0.3        | [0.1,1.3]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 9.5140                           |                    |             |                    |            |                  |               |
| Design-based F(5.28, 7626.16) =                     | 1.2887                           | Pr =               | 0.264       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                  |                    |             |                    |            |                  |               |
| Yes (n=116)   | 73.6                             | [62.8,82.2]        | 25.4        | [16.9,36.3]        | 1.0        | [0.2,4.1]        | 100.0         |
| No (n=1,339)  | 85.0                             | [82.3,87.4]        | 13.7        | [11.4,16.4]        | 1.3        | [0.8,2.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.8820                          |                    |             |                    |            |                  |               |
| Design-based F(1.73, 2491.21) =                     | 5.2303                           | Pr =               | 0.008       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                                  |                    |             |                    |            |                  |               |
| Yes (n=138)   | 88.2                             | [81.2,92.8]        | 11.2        | [6.7,18.0]         | 0.7        | [0.1,4.6]        | 100.0         |
| No (n=1,317)  | 83.3                             | [80.4,85.9]        | 15.4        | [12.9,18.2]        | 1.3        | [0.8,2.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.3088                           |                    |             |                    |            |                  |               |
| Design-based F(1.98, 2850.25) =                     | 1.0634                           | Pr =               | 0.345       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                  |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=535)                     | 90.9                             | [87.6,93.4]        | 8.6         | [6.2,11.9]         | 0.5        | [0.2,1.2]        | 100.0         |
| No chronic disease (n=920)                          | 80.5                             | [76.8,83.7]        | 18.0        | [14.8,21.6]        | 1.6        | [0.9,2.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 25.7050                          |                    |             |                    |            |                  |               |
| Design-based F(1.73, 2502.83) =                     | 12.8738                          | Pr =               | 0.000       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                  |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=938)                               | 83.2                             | [79.8,86.1]        | 15.5        | [12.6,18.8]        | 1.3        | [0.8,2.3]        | 100.0         |
| No MH/SA (n=517)                                    | 84.9                             | [80.1,88.7]        | 14.0        | [10.3,18.7]        | 1.1        | [0.4,2.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.7957                           |                    |             |                    |            |                  |               |
| Design-based F(1.93, 2779.07) =                     | 0.2481                           | Pr =               | 0.772       |                    |            |                  |               |
| <b>Total (n=1,455)</b>                              | <b>83.8</b>                      | <b>[81.1,86.2]</b> | <b>14.9</b> | <b>[12.6,17.6]</b> | <b>1.2</b> | <b>[0.8,2.0]</b> | <b>100.0</b>  |

## 5.7 Q: Thinking about the last time you were at the emergency room, did you try to contact your usual provider's office before going to the emergency room?

Universe: Respondents who went to a hospital emergency room in the past 12 months

|   | Last ER visit: try to contact primary? |                    |             |                    |            |                  | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                                    |                    | No          |                    | Don't know |                  |               |
|   | Row%                                   | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |  |                    |             |                    |            |                  |               |
| 0-35% (n=651)                                       | 25.9                                   | [22.0,30.2]        | 74.0        | [69.7,77.9]        | 0.0        | [0.0,0.3]        | 100.0         |
| 36-99% (n=472)                                      | 30.2                                   | [25.3,35.6]        | 69.5        | [64.1,74.4]        | 0.3        | [0.1,1.4]        | 100.0         |
| ≥ 100%(n = 333)                                     | 31.5                                   | [26.1,37.4]        | 67.3        | [61.3,72.8]        | 1.3        | [0.4,3.9]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 13.9278                                |                    |             |                    |            |                  |               |
| Design-based F(3.33, 4802.94) =                     | 3.7610                                 | Pr =               | 0.008       |                    |            |                  |               |
| <b>Region</b>                                       |  |                    |             |                    |            |                  |               |
| UP/NW/NE (n=248)                                    | 21.4                                   | [16.5,27.4]        | 78.1        | [72.1,83.1]        | 0.5        | [0.1,2.0]        | 100.0         |
| W/E Central/E (n=441)                               | 29.7                                   | [25.0,34.9]        | 69.9        | [64.7,74.6]        | 0.4        | [0.1,2.8]        | 100.0         |
| S Central/SW/SE (n=314)                             | 26.1                                   | [21.0,32.0]        | 73.3        | [67.5,78.5]        | 0.6        | [0.2,1.8]        | 100.0         |
| Detroit Metro (n=453)                               | 28.9                                   | [24.2,34.2]        | 71.0        | [65.7,75.7]        | 0.1        | [0.0,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 5.2876                                 |                    |             |                    |            |                  |               |
| Design-based F(4.96, 7158.27) =                     | 0.9106                                 | Pr =               | 0.472       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |            |                  |               |
| Yes (n=117)   | 15.6                                   | [8.9,25.9]         | 84.4        | [74.1,91.1]        | 0.0        |                  | 100.0         |
| No (n=1,339)  | 29.5                                   | [26.5,32.6]        | 70.1        | [67.0,73.1]        | 0.4        | [0.1,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.2522                                |                    |             |                    |            |                  |               |
| Design-based F(1.75, 2525.00) =                     | 4.5661                                 | Pr =               | 0.014       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |            |                  |               |
| Yes (n=138)   | 38.8                                   | [29.7,48.8]        | 61.2        | [51.2,70.3]        | 0.0        |                  | 100.0         |
| No (n=1,318)  | 26.8                                   | [23.9,29.9]        | 72.8        | [69.7,75.7]        | 0.4        | [0.1,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.6581                                 |                    |             |                    |            |                  |               |
| Design-based F(1.91, 2754.74) =                     | 3.9394                                 | Pr =               | 0.021       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=535)                     | 29.1                                   | [24.7,33.9]        | 70.7        | [65.9,75.1]        | 0.2        | [0.1,0.8]        | 100.0         |
| No chronic disease (n=921)                          | 27.5                                   | [24.0,31.2]        | 72.2        | [68.4,75.6]        | 0.4        | [0.1,1.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.5527                                 |                    |             |                    |            |                  |               |
| Design-based F(1.70, 2451.62) =                     | 0.2800                                 | Pr =               | 0.719       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=938)                               | 29.8                                   | [26.2,33.6]        | 70.0        | [66.2,73.6]        | 0.2        | [0.1,0.6]        | 100.0         |
| No MH/SA (n=518)                                    | 24.9                                   | [20.7,29.7]        | 74.5        | [69.7,78.8]        | 0.5        | [0.2,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.0017                                 |                    |             |                    |            |                  |               |
| Design-based F(1.81, 2611.02) =                     | 2.1660                                 | Pr =               | 0.120       |                    |            |                  |               |
| <b>Total (n=1,456)</b>                              | <b>28.0</b>                            | <b>[25.2,30.9]</b> | <b>71.7</b> | <b>[68.7,74.5]</b> | <b>0.3</b> | <b>[0.1,0.8]</b> | <b>100.0</b>  |



## 5.8 Q: Did you talk to someone?

Universe: Respondents who tried to contact their usual provider's office before going to the emergency room

|   | Last ER visit: talk to primary provider? |                    |             |                    | Total<br>Row% |
|---|--|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                              | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |  |                    |             |                    |               |
| 0-35% (n=181)                                       | 74.7                                     | [65.9,81.8]        | 25.3        | [18.2,34.1]        | 100.0         |
| 36-99% (n=136)                                      | 80.2                                     | [72.0,86.4]        | 19.8        | [13.6,28.0]        | 100.0         |
| ≥ 100%(n = 107)                                     | 77.1                                     | [67.0,84.8]        | 22.9        | [15.2,33.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.3102                                   |                    |             |                    |               |
| Design-based F(1.94, 798.46) =                      | 0.5527                                   | Pr =               | 0.570       |                    |               |
| <b>Region</b>                                       |  |                    |             |                    |               |
| UP/NW/NE (n=58)                                     | 76.0                                     | [62.5,85.7]        | 24.0        | [14.3,37.5]        | 100.0         |
| W/E Central/E (n=138)                               | 80.6                                     | [73.2,86.4]        | 19.4        | [13.6,26.8]        | 100.0         |
| S Central/SW/SE (n=88)                              | 71.1                                     | [58.6,81.0]        | 28.9        | [19.0,41.4]        | 100.0         |
| Detroit Metro (n=140)                               | 76.4                                     | [66.7,83.9]        | 23.6        | [16.1,33.3]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.4549                                   |                    |             |                    |               |
| Design-based F(2.58, 1062.54) =                     | 0.7544                                   | Pr =               | 0.501       |                    |               |
| <b>Low healthcare utilizers</b>                     |  |                    |             |                    |               |
| Yes (n=17)  | 82.9                                     | [49.2,96.1]        | 17.1        | [3.9,50.8]         | 100.0         |
| No (n=407)  | 76.2                                     | [70.8,81.0]        | 23.8        | [19.0,29.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.6005                                   |                    |             |                    |               |
| Design-based F(1.00, 412.00) =                      | 0.2508                                   | Pr =               | 0.617       |                    |               |
| <b>High ER utilizers</b>                            |  |                    |             |                    |               |
| Yes (n=59)  | 73.8                                     | [58.7,84.8]        | 26.2        | [15.2,41.3]        | 100.0         |
| No (n=365)  | 77.1                                     | [71.3,82.0]        | 22.9        | [18.0,28.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3016                                   |                    |             |                    |               |
| Design-based F(1.00, 412.00) =                      | 0.2149                                   | Pr =               | 0.643       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |  |                    |             |                    |               |
| Chronic disease (HEDIS) (n=173)                     | 78.8                                     | [70.6,85.1]        | 21.2        | [14.9,29.4]        | 100.0         |
| No chronic disease (n=251)                          | 75.6                                     | [68.5,81.5]        | 24.4        | [18.5,31.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5333                                   |                    |             |                    |               |
| Design-based F(1.00, 412.00) =                      | 0.3999                                   | Pr =               | 0.527       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |                    |             |                    |               |
| MH/SA (HEDIS) (n=283)                               | 73.5                                     | [66.7,79.3]        | 26.5        | [20.7,33.3]        | 100.0         |
| No MH/SA (n=141)                                    | 83.1                                     | [74.1,89.5]        | 16.9        | [10.5,25.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.8964                                   |                    |             |                    |               |
| Design-based F(1.00, 412.00) =                      | 3.2555                                   | Pr =               | 0.072       |                    |               |
| <b>Total (n=424)</b>                                | <b>76.6</b>                              | <b>[71.3,81.2]</b> | <b>23.4</b> | <b>[18.8,28.7]</b> | <b>100.0</b>  |

## 5.9 Q: Why did you end up going to the ER?

### 5.9.1 Went to ER because- No response from provider

Universe: Respondents who tried to contact their usual provider's office before going to the emergency room

|   | Why ER: no provider response |                  |             |                    | Total<br>Row% |
|---|------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                  | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                              |                  |             |                    |               |
| 0-35% (n=131)                                       | 2.9                          | [0.7,11.6]       | 97.1        | [88.4,99.3]        | 100.0         |
| 36-99% (n=106)                                      | 1.0                          | [0.1,6.7]        | 99.0        | [93.3,99.9]        | 100.0         |
| ≥ 100% (n = 82)                                     | 1.8                          | [0.2,11.9]       | 98.2        | [88.1,99.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.1106                       |                  |             |                    |               |
| Design-based F(1.91, 586.69) =                      | 0.4393                       | Pr =             | 0.636       |                    |               |
| <b>Region</b>                                       |                              |                  |             |                    |               |
| UP/NW/NE (n=43)                                     | 0.0                          |                  | 100.0       |                    | 100.0         |
| W/E Central/E (n=104)                               | 1.2                          | [0.2,7.9]        | 98.8        | [92.1,99.8]        | 100.0         |
| S Central/SW/SE (n=65)                              | 2.7                          | [0.7,10.3]       | 97.3        | [89.7,99.3]        | 100.0         |
| Detroit Metro (n=107)                               | 2.9                          | [0.6,13.4]       | 97.1        | [86.6,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.3621                       |                  |             |                    |               |
| Design-based F(2.34, 719.74) =                      | 0.3196                       | Pr =             | 0.761       |                    |               |
| <b>Low healthcare utilizers</b>                     |                              |                  |             |                    |               |
| Yes (n=14)  | 0.0                          |                  | 100.0       |                    | 100.0         |
| No (n=305)  | 2.3                          | [0.8,6.7]        | 97.7        | [93.3,99.2]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4864                       |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.2319                       | Pr =             | 0.630       |                    |               |
| <b>High ER utilizers</b>                            |                              |                  |             |                    |               |
| Yes (n=43)  | 2.0                          | [0.3,12.9]       | 98.0        | [87.1,99.7]        | 100.0         |
| No (n=276)  | 2.2                          | [0.6,7.1]        | 97.8        | [92.9,99.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0081                       |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.0079                       | Pr =             | 0.929       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                              |                  |             |                    |               |
| Chronic disease (HEDIS) (n=133)                     | 1.4                          | [0.3,5.5]        | 98.6        | [94.5,99.7]        | 100.0         |
| No chronic disease (n=186)                          | 2.6                          | [0.7,9.3]        | 97.4        | [90.7,99.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4793                       |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.4101                       | Pr =             | 0.522       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                              |                  |             |                    |               |
| MH/SA (HEDIS) (n=203)                               | 2.8                          | [0.8,9.2]        | 97.2        | [90.8,99.2]        | 100.0         |
| No MH/SA (n=116)                                    | 1.0                          | [0.1,6.9]        | 99.0        | [93.1,99.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0833                       |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.8059                       | Pr =             | 0.370       |                    |               |
| <b>Total (n=319)</b>                                | <b>2.1</b>                   | <b>[0.7,6.2]</b> | <b>97.9</b> | <b>[93.8,99.3]</b> | <b>100.0</b>  |

## 5.9.2 Went to ER because- Provider said to go to the ER

Universe: Respondents who tried to contact their usual provider's office before going to the emergency room

|   | Why ER: provider said to go |                    |             |                    | Total<br>Row% |
|---|-----------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                 | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                             |                    |             |                    |               |
| 0-35% (n=131)                                       | 76.3                        | [65.5,84.5]        | 23.7        | [15.5,34.5]        | 100.0         |
| 36-99% (n=106)                                      | 74.5                        | [61.4,84.3]        | 25.5        | [15.7,38.6]        | 100.0         |
| ≥ 100% (n = 82)                                     | 75.9                        | [63.8,85.0]        | 24.1        | [15.0,36.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1014                      |                    |             |                    |               |
| Design-based F(1.91, 586.60) =                      | 0.0334                      | Pr =               | 0.963       |                    |               |
| <b>Region</b>                                       |                             |                    |             |                    |               |
| UP/NW/NE (n=43)                                     | 66.5                        | [48.6,80.6]        | 33.5        | [19.4,51.4]        | 100.0         |
| W/E Central/E (n=104)                               | 83.4                        | [74.7,89.5]        | 16.6        | [10.5,25.3]        | 100.0         |
| S Central/SW/SE (n=65)                              | 85.2                        | [73.9,92.1]        | 14.8        | [7.9,26.1]         | 100.0         |
| Detroit Metro (n=107)                               | 68.2                        | [55.5,78.7]        | 31.8        | [21.3,44.5]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 11.1596                     |                    |             |                    |               |
| Design-based F(2.65, 813.18) =                      | 3.5339                      | Pr =               | 0.019       |                    |               |
| <b>Low healthcare utilizers</b>                     |                             |                    |             |                    |               |
| Yes (n=14)  | 45.1                        | [18.8,74.5]        | 54.9        | [25.5,81.2]        | 100.0         |
| No (n=305)  | 77.8                        | [71.2,83.3]        | 22.2        | [16.7,28.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 11.2742                     |                    |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 5.4241                      | Pr =               | 0.021       |                    |               |
| <b>High ER utilizers</b>                            |                             |                    |             |                    |               |
| Yes (n=43)  | 77.1                        | [59.8,88.3]        | 22.9        | [11.7,40.2]        | 100.0         |
| No (n=276)  | 75.5                        | [68.0,81.8]        | 24.5        | [18.2,32.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0477                      |                    |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.0354                      | Pr =               | 0.851       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                             |                    |             |                    |               |
| Chronic disease (HEDIS) (n=133)                     | 82.8                        | [74.6,88.8]        | 17.2        | [11.2,25.4]        | 100.0         |
| No chronic disease (n=186)                          | 72.0                        | [62.6,79.8]        | 28.0        | [20.2,37.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 4.6289                      |                    |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 3.6103                      | Pr =               | 0.058       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                             |                    |             |                    |               |
| MH/SA (HEDIS) (n=203)                               | 76.4                        | [67.9,83.2]        | 23.6        | [16.8,32.1]        | 100.0         |
| No MH/SA (n=116)                                    | 74.5                        | [62.0,84.0]        | 25.5        | [16.0,38.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1371                      |                    |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.0738                      | Pr =               | 0.786       |                    |               |
| <b>Total (n=319)</b>                                | <b>75.7</b>                 | <b>[68.9,81.5]</b> | <b>24.3</b> | <b>[18.5,31.1]</b> | <b>100.0</b>  |

### 5.9.3 Went to ER because- Provider's advice wasn't helpful

Universe: Respondents who tried to contact their usual provider's office before going to the emergency room

|   | Why ER: provider advice not helpful |                  |             |                    | Total<br>Row% |
|---|-------------------------------------|------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                         | 95%CI            | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                     |                  |             |                    |               |
| 0-35% (n=131)                                       | 2.7                                 | [1.0,6.7]        | 97.3        | [93.3,99.0]        | 100.0         |
| 36-99% (n=106)                                      | 1.7                                 | [0.4,6.8]        | 98.3        | [93.2,99.6]        | 100.0         |
| ≥ 100%(n = 82)                                      | 5.8                                 | [2.2,14.6]       | 94.2        | [85.4,97.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.3361                              |                  |             |                    |               |
| Design-based F(1.99, 610.37) =                      | 1.2845                              | Pr =             | 0.277       |                    |               |
| <b>Region</b>                                       |                                     |                  |             |                    |               |
| UP/NW/NE (n=43)                                     | 6.1                                 | [1.3,24.9]       | 93.9        | [75.1,98.7]        | 100.0         |
| W/E Central/E (n=104)                               | 4.2                                 | [1.6,10.4]       | 95.8        | [89.6,98.4]        | 100.0         |
| S Central/SW/SE (n=65)                              | 1.0                                 | [0.1,7.0]        | 99.0        | [93.0,99.9]        | 100.0         |
| Detroit Metro (n=107)                               | 2.6                                 | [0.9,7.1]        | 97.4        | [92.9,99.1]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 1.9342                              |                  |             |                    |               |
| Design-based F(2.86, 876.83) =                      | 0.8093                              | Pr =             | 0.484       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                     |                  |             |                    |               |
| Yes (n=14)  | 8.0                                 | [1.8,29.3]       | 92.0        | [70.7,98.2]        | 100.0         |
| No (n=305)  | 2.7                                 | [1.4,5.2]        | 97.3        | [94.8,98.6]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.8530                              |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 1.9387                              | Pr =             | 0.165       |                    |               |
| <b>High ER utilizers</b>                            |                                     |                  |             |                    |               |
| Yes (n=43)  | 3.4                                 | [0.8,13.3]       | 96.6        | [86.7,99.2]        | 100.0         |
| No (n=276)  | 3.0                                 | [1.5,5.8]        | 97.0        | [94.2,98.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0207                              |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.0258                              | Pr =             | 0.873       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                     |                  |             |                    |               |
| Chronic disease (HEDIS) (n=133)                     | 4.0                                 | [1.6,9.5]        | 96.0        | [90.5,98.4]        | 100.0         |
| No chronic disease (n=186)                          | 2.5                                 | [1.1,5.7]        | 97.5        | [94.3,98.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.5509                              |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.5958                              | Pr =             | 0.441       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                     |                  |             |                    |               |
| MH/SA (HEDIS) (n=203)                               | 2.9                                 | [1.3,6.0]        | 97.1        | [94.0,98.7]        | 100.0         |
| No MH/SA (n=116)                                    | 3.3                                 | [1.2,8.8]        | 96.7        | [91.2,98.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0568                              |                  |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.0598                              | Pr =             | 0.807       |                    |               |
| <b>Total (n=319)</b>                                | <b>3.0</b>                          | <b>[1.6,5.5]</b> | <b>97.0</b> | <b>[94.5,98.4]</b> | <b>100.0</b>  |

### 5.9.4 Went to ER because- Symptoms did not improve or got worse

Universe: Respondents who tried to contact their usual provider's office before going to the emergency room

|   | Why ER: symptoms did not improve |                   |             |                    | Total<br>Row% |
|---|----------------------------------|-------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                      | 95%CI             | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                  |                   |             |                    |               |
| 0-35% (n=131)                                       | 15.5                             | [8.7,26.1]        | 84.5        | [73.9,91.3]        | 100.0         |
| 36-99% (n=106)                                      | 15.0                             | [7.2,28.8]        | 85.0        | [71.2,92.8]        | 100.0         |
| ≥ 100%(n = 82)                                      | 10.4                             | [4.8,20.8]        | 89.6        | [79.2,95.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.0380                           |                   |             |                    |               |
| Design-based F(1.85, 567.96) =                      | 0.3064                           | Pr =              | 0.719       |                    |               |
| <b>Region</b>                                       |                                  |                   |             |                    |               |
| UP/NW/NE (n=43)                                     | 16.5                             | [6.5,36.0]        | 83.5        | [64.0,93.5]        | 100.0         |
| W/E Central/E (n=104)                               | 10.1                             | [5.3,18.7]        | 89.9        | [81.3,94.7]        | 100.0         |
| S Central/SW/SE (n=65)                              | 9.4                              | [4.0,20.4]        | 90.6        | [79.6,96.0]        | 100.0         |
| Detroit Metro (n=107)                               | 18.8                             | [10.3,31.7]       | 81.2        | [68.3,89.7]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 4.9083                           |                   |             |                    |               |
| Design-based F(2.67, 819.89) =                      | 1.3431                           | Pr =              | 0.261       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                  |                   |             |                    |               |
| Yes (n=14)  | 22.2                             | [3.5,69.1]        | 77.8        | [30.9,96.5]        | 100.0         |
| No (n=305)  | 13.8                             | [9.3,20.0]        | 86.2        | [80.0,90.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.1063                           |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.2987                           | Pr =              | 0.585       |                    |               |
| <b>High ER utilizers</b>                            |                                  |                   |             |                    |               |
| Yes (n=43)  | 11.1                             | [4.7,24.1]        | 88.9        | [75.9,95.3]        | 100.0         |
| No (n=276)  | 14.8                             | [9.6,22.2]        | 85.2        | [77.8,90.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4055                           |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.3841                           | Pr =              | 0.536       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                  |                   |             |                    |               |
| Chronic disease (HEDIS) (n=133)                     | 12.5                             | [7.3,20.8]        | 87.5        | [79.2,92.7]        | 100.0         |
| No chronic disease (n=186)                          | 15.3                             | [9.0,24.7]        | 84.7        | [75.3,91.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4412                           |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.2796                           | Pr =              | 0.597       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                  |                   |             |                    |               |
| MH/SA (HEDIS) (n=203)                               | 13.0                             | [7.8,20.8]        | 87.0        | [79.2,92.2]        | 100.0         |
| No MH/SA (n=116)                                    | 16.8                             | [8.7,30.1]        | 83.2        | [69.9,91.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.8782                           |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.4025                           | Pr =              | 0.526       |                    |               |
| <b>Total (n=319)</b>                                | <b>14.3</b>                      | <b>[9.6,20.9]</b> | <b>85.7</b> | <b>[79.1,90.4]</b> | <b>100.0</b>  |

### 5.9.5 Went to ER because- Could not get an appointment soon enough

Universe: Respondents who tried to contact their usual provider's office before going to the emergency room

|   | Why ER: could not get appt soon |                   |             |                    | Total<br>Row% |
|---|---------------------------------|-------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%                     | 95%CI             | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                                 |                   |             |                    |               |
| 0-35% (n=131)                                       | 6.0                             | [3.1,11.3]        | 94.0        | [88.7,96.9]        | 100.0         |
| 36-99% (n=106)                                      | 9.6                             | [4.6,19.0]        | 90.4        | [81.0,95.4]        | 100.0         |
| ≥ 100%(n = 82)                                      | 11.1                            | [5.9,19.9]        | 88.9        | [80.1,94.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.0420                          |                   |             |                    |               |
| Design-based F(1.95, 598.37) =                      | 0.9668                          | Pr =              | 0.379       |                    |               |
| <b>Region</b>                                       |                                 |                   |             |                    |               |
| UP/NW/NE (n=43)                                     | 14.7                            | [6.0,31.6]        | 85.3        | [68.4,94.0]        | 100.0         |
| W/E Central/E (n=104)                               | 10.8                            | [6.3,18.0]        | 89.2        | [82.0,93.7]        | 100.0         |
| S Central/SW/SE (n=65)                              | 7.7                             | [3.2,17.0]        | 92.3        | [83.0,96.8]        | 100.0         |
| Detroit Metro (n=107)                               | 5.4                             | [2.1,12.8]        | 94.6        | [87.2,97.9]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 3.6452                          |                   |             |                    |               |
| Design-based F(2.67, 819.22) =                      | 1.2467                          | Pr =              | 0.291       |                    |               |
| <b>Low healthcare utilizers</b>                     |                                 |                   |             |                    |               |
| Yes (n=14)  | 9.4                             | [2.1,32.7]        | 90.6        | [67.3,97.9]        | 100.0         |
| No (n=305)  | 7.9                             | [5.3,11.8]        | 92.1        | [88.2,94.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.0540                          |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.0496                          | Pr =              | 0.824       |                    |               |
| <b>High ER utilizers</b>                            |                                 |                   |             |                    |               |
| Yes (n=43)  | 15.2                            | [6.2,32.9]        | 84.8        | [67.1,93.8]        | 100.0         |
| No (n=276)  | 6.9                             | [4.5,10.5]        | 93.1        | [89.5,95.5]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.4185                          |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 2.6223                          | Pr =              | 0.106       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                                 |                   |             |                    |               |
| Chronic disease (HEDIS) (n=133)                     | 10.1                            | [5.6,17.4]        | 89.9        | [82.6,94.4]        | 100.0         |
| No chronic disease (n=186)                          | 6.9                             | [4.1,11.6]        | 93.1        | [88.4,95.9]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.9597                          |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 0.9019                          | Pr =              | 0.343       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                 |                   |             |                    |               |
| MH/SA (HEDIS) (n=203)                               | 10.1                            | [6.4,15.6]        | 89.9        | [84.4,93.6]        | 100.0         |
| No MH/SA (n=116)                                    | 4.3                             | [2.0,9.0]         | 95.7        | [91.0,98.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 3.2393                          |                   |             |                    |               |
| Design-based F(1.00, 307.00) =                      | 3.8907                          | Pr =              | 0.049       |                    |               |
| <b>Total (n=319)</b>                                | <b>8.0</b>                      | <b>[5.4,11.8]</b> | <b>92.0</b> | <b>[88.2,94.6]</b> | <b>100.0</b>  |

### 5.9.6 Went to ER because- Other

Universe: Respondents who tried to contact their usual provider's office before going to the emergency room

|   | Why ER: other response-record |             |            |             | Total<br>Row% |
|---|-------------------------------|-------------|------------|-------------|---------------|
|   | Yes<br>Row%                   | 95%CI       | No<br>Row% | 95%CI       |               |
| <b>FPL category</b>                                 |                               |             |            |             |               |
| 0-35% (n=131)                                       | 19.3                          | [11.9,29.8] | 80.7       | [70.2,88.1] | 100.0         |
| 36-99% (n=106)                                      | 12.2                          | [7.2,20.0]  | 87.8       | [80.0,92.8] | 100.0         |
| ≥ 100% (n = 82)                                     | 15.6                          | [8.3,27.2]  | 84.4       | [72.8,91.7] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.2255                        |             |            |             |               |
| Design-based F(1.92, 588.45) =                      | 0.9113                        | Pr =        | 0.399      |             |               |
| <b>Region</b>                                       |                               |             |            |             |               |
| UP/NW/NE (n=43)                                     | 16.4                          | [6.9,34.2]  | 83.6       | [65.8,93.1] | 100.0         |
| W/E Central/E (n=104)                               | 11.9                          | [7.1,19.1]  | 88.1       | [80.9,92.9] | 100.0         |
| S Central/SW/SE (n=65)                              | 17.4                          | [9.6,29.4]  | 82.6       | [70.6,90.4] | 100.0         |
| Detroit Metro (n=107)                               | 19.4                          | [11.3,31.3] | 80.6       | [68.7,88.7] | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 2.4845                        |             |            |             |               |
| Design-based F(2.64, 810.43) =                      | 0.7821                        | Pr =        | 0.489      |             |               |
| <b>Low healthcare utilizers</b>                     |                               |             |            |             |               |
| Yes (n=14)  | 24.6                          | [7.0,58.6]  | 75.4       | [41.4,93.0] | 100.0         |
| No (n=305)  | 16.0                          | [11.3,22.1] | 84.0       | [77.9,88.7] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.0439                        |             |            |             |               |
| Design-based F(1.00, 307.00) =                      | 0.4952                        | Pr =        | 0.482      |             |               |
| <b>High ER utilizers</b>                            |                               |             |            |             |               |
| Yes (n=43)  | 14.1                          | [6.7,27.4]  | 85.9       | [72.6,93.3] | 100.0         |
| No (n=276)  | 16.9                          | [11.8,23.7] | 83.1       | [76.3,88.2] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.2095                        |             |            |             |               |
| Design-based F(1.00, 307.00) =                      | 0.2086                        | Pr =        | 0.648      |             |               |
| <b>Chronic disease (HEDIS)</b>                      |                               |             |            |             |               |
| Chronic disease (HEDIS) (n=133)                     | 14.2                          | [8.7,22.4]  | 85.8       | [77.6,91.3] | 100.0         |
| No chronic disease (n=186)                          | 17.8                          | [11.6,26.2] | 82.2       | [73.8,88.4] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.6630                        |             |            |             |               |
| Design-based F(1.00, 307.00) =                      | 0.4959                        | Pr =        | 0.482      |             |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                               |             |            |             |               |
| MH/SA (HEDIS) (n=203)                               | 14.2                          | [9.6,20.7]  | 85.8       | [79.3,90.4] | 100.0         |
| No MH/SA (n=116)                                    | 20.7                          | [11.9,33.6] | 79.3       | [66.4,88.1] | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.2133                        |             |            |             |               |
| Design-based F(1.00, 307.00) =                      | 1.2398                        | Pr =        | 0.266      |             |               |
| <b>Total (n=319)</b>                                | 16.5                          | [11.9,22.5] | 83.5       | [77.5,88.1] | 100.0         |

### 5.9.7 Went to ER because- Don't know

*Universe:* Respondents who tried to contact their usual provider's office before going to the emergency room

| <b>Why ER: don't know</b> | No.            |
|---------------------------|----------------|
| Yes                       | 88.3           |
| No                        | 30735.8        |
| <b>Total</b>              | <b>30824.1</b> |



### 5.9.8 Went to ER because- Refused

*Universe:* Respondents who tried to contact their usual provider's office before going to the emergency room

| Why ER: refused | No.            |
|-----------------|----------------|
| No              | 30824.1        |
| <b>Total</b>    | <b>30824.1</b> |

## 5.10 Q: Which of these were true of this particular ER visit?

### 5.10.1 Arrived to emergency room by ambulance

Universe: Respondents who did not try to contact their usual provider's office before going to the emergency room

|   | ER: arrived by ambulance |                    |             |                    | Total<br>Row% |
|---|--------------------------|--------------------|-------------|--------------------|---------------|
|   | Yes<br>Row%              | 95%CI              | No<br>Row%  | 95%CI              |               |
| <b>FPL category</b>                                 |                          |                    |             |                    |               |
| 0-35% (n=458)                                       | 23.5                     | [19.1,28.5]        | 76.5        | [71.5,80.9]        | 100.0         |
| 36-99% (n=327)                                      | 16.4                     | [12.1,21.9]        | 83.6        | [78.1,87.9]        | 100.0         |
| ≥ 100% (n = 217)                                    | 14.8                     | [10.3,20.7]        | 85.2        | [79.3,89.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 9.2016                   |                    |             |                    |               |
| Design-based F(1.96, 1935.51) =                     | 3.9339                   | Pr =               | 0.021       |                    |               |
| <b>Region</b>                                       |                          |                    |             |                    |               |
| UP/NW/NE (n=183)                                    | 12.1                     | [8.1,17.6]         | 87.9        | [82.4,91.9]        | 100.0         |
| W/E Central/E (n=299)                               | 20.7                     | [15.7,26.8]        | 79.3        | [73.2,84.3]        | 100.0         |
| S Central/SW/SE (n=216)                             | 16.4                     | [11.8,22.4]        | 83.6        | [77.6,88.2]        | 100.0         |
| Detroit Metro (n=304)                               | 23.5                     | [18.2,29.6]        | 76.5        | [70.4,81.8]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 8.2382                   |                    |             |                    |               |
| Design-based F(2.57, 2541.26) =                     | 2.4481                   | Pr =               | 0.072       |                    |               |
| <b>Low healthcare utilizers</b>                     |                          |                    |             |                    |               |
| Yes (n=89)  | 24.6                     | [14.7,38.2]        | 75.4        | [61.8,85.3]        | 100.0         |
| No (n=913)  | 19.7                     | [16.7,23.1]        | 80.3        | [76.9,83.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.4448                   |                    |             |                    |               |
| Design-based F(1.00, 990.00) =                      | 0.6822                   | Pr =               | 0.409       |                    |               |
| <b>High ER utilizers</b>                            |                          |                    |             |                    |               |
| Yes (n=78)  | 30.0                     | [19.7,42.8]        | 70.0        | [57.2,80.3]        | 100.0         |
| No (n=924)  | 19.4                     | [16.3,22.8]        | 80.6        | [77.2,83.7]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 5.5238                   |                    |             |                    |               |
| Design-based F(1.00, 990.00) =                      | 3.7119                   | Pr =               | 0.054       |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |                          |                    |             |                    |               |
| Chronic disease (HEDIS) (n=359)                     | 22.4                     | [17.8,27.8]        | 77.6        | [72.2,82.2]        | 100.0         |
| No chronic disease (n=643)                          | 19.2                     | [15.6,23.5]        | 80.8        | [76.5,84.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 1.4036                   |                    |             |                    |               |
| Design-based F(1.00, 990.00) =                      | 0.9864                   | Pr =               | 0.321       |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                          |                    |             |                    |               |
| MH/SA (HEDIS) (n=638)                               | 25.1                     | [21.0,29.7]        | 74.9        | [70.3,79.0]        | 100.0         |
| No MH/SA (n=364)                                    | 12.4                     | [9.0,16.9]         | 87.6        | [83.1,91.0]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 23.6294                  |                    |             |                    |               |
| Design-based F(1.00, 990.00) =                      | 16.2177                  | Pr =               | 0.000       |                    |               |
| <b>Total (n=1,002)</b>                              | <b>20.3</b>              | <b>[17.3,23.6]</b> | <b>79.7</b> | <b>[76.4,82.7]</b> | <b>100.0</b>  |

## 5.10.2 Emergency room is closest place

Universe: Respondents who did not try to contact their usual provider's office before going to the emergency room

|   | ER: closest place to receive care |                    |             |                    |            |                  | Total<br>Row% |
|---|-----------------------------------|--------------------|-------------|--------------------|------------|------------------|---------------|
|   | Yes                               |                    | No          |                    | Don't know |                  |               |
|   | Row%                              | 95%CI              | Row%        | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |                                   |                    |             |                    |            |                  |               |
| 0-35% (n=458)                                       | 79.4                              | [75.0,83.3]        | 19.8        | [16.1,24.2]        | 0.8        | [0.2,2.6]        | 100.0         |
| 36-99% (n=327)                                      | 65.0                              | [57.9,71.4]        | 34.6        | [28.2,41.7]        | 0.4        | [0.1,2.9]        | 100.0         |
| ≥ 100% (n = 217)                                    | 75.3                              | [67.8,81.5]        | 22.8        | [16.8,30.2]        | 1.9        | [0.8,4.7]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 23.6797                           |                    |             |                    |            |                  |               |
| Design-based F(3.91, 3869.83) =                     | 4.8806                            | Pr =               | 0.001       |                    |            |                  |               |
| <b>Region</b>                                       |                                   |                    |             |                    |            |                  |               |
| UP/NW/NE (n=183)                                    | 75.1                              | [67.0,81.7]        | 23.5        | [17.1,31.4]        | 1.4        | [0.3,7.2]        | 100.0         |
| W/E Central/E (n=299)                               | 73.5                              | [67.5,78.8]        | 25.1        | [20.0,31.0]        | 1.4        | [0.3,5.5]        | 100.0         |
| S Central/SW/SE (n=216)                             | 74.9                              | [67.5,81.1]        | 24.9        | [18.7,32.3]        | 0.3        | [0.0,1.9]        | 100.0         |
| Detroit Metro (n=304)                               | 76.3                              | [70.4,81.3]        | 23.0        | [18.0,28.9]        | 0.7        | [0.3,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 2.7938                            |                    |             |                    |            |                  |               |
| Design-based F(5.32, 5262.25) =                     | 0.4360                            | Pr =               | 0.834       |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |                                   |                    |             |                    |            |                  |               |
| Yes (n=89)  | 81.5                              | [71.6,88.5]        | 17.1        | [10.4,26.6]        | 1.5        | [0.2,9.8]        | 100.0         |
| No (n=913)  | 74.3                              | [70.7,77.7]        | 24.9        | [21.6,28.5]        | 0.8        | [0.3,1.8]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.7293                            |                    |             |                    |            |                  |               |
| Design-based F(1.99, 1966.27) =                     | 1.2819                            | Pr =               | 0.278       |                    |            |                  |               |
| <b>High ER utilizers</b>                            |                                   |                    |             |                    |            |                  |               |
| Yes (n=78)  | 88.1                              | [79.0,93.5]        | 11.9        | [6.5,21.0]         | 0.0        |                  | 100.0         |
| No (n=924)  | 73.9                              | [70.3,77.2]        | 25.1        | [21.9,28.7]        | 0.9        | [0.4,2.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 8.7097                            |                    |             |                    |            |                  |               |
| Design-based F(1.97, 1951.51) =                     | 3.5880                            | Pr =               | 0.028       |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |                                   |                    |             |                    |            |                  |               |
| Chronic disease (HEDIS) (n=359)                     | 79.3                              | [74.0,83.7]        | 19.7        | [15.3,24.9]        | 1.0        | [0.4,2.7]        | 100.0         |
| No chronic disease (n=643)                          | 73.1                              | [68.7,77.1]        | 26.1        | [22.2,30.5]        | 0.8        | [0.3,2.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.0522                            |                    |             |                    |            |                  |               |
| Design-based F(1.99, 1966.28) =                     | 2.0359                            | Pr =               | 0.131       |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |                                   |                    |             |                    |            |                  |               |
| MH/SA (HEDIS) (n=638)                               | 78.0                              | [73.9,81.6]        | 21.2        | [17.6,25.2]        | 0.9        | [0.3,2.3]        | 100.0         |
| No MH/SA (n=364)                                    | 70.6                              | [64.5,75.9]        | 28.6        | [23.2,34.5]        | 0.9        | [0.3,2.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 7.0813                            |                    |             |                    |            |                  |               |
| Design-based F(1.99, 1970.78) =                     | 2.5434                            | Pr =               | 0.079       |                    |            |                  |               |
| <b>Total (n=1,002)</b>                              | <b>75.1</b>                       | <b>[71.8,78.2]</b> | <b>24.0</b> | <b>[20.9,27.3]</b> | <b>0.9</b> | <b>[0.4,1.8]</b> | <b>100.0</b>  |

### 5.10.3 Get most care at the emergency room

Universe: Respondents who did not try to contact their usual provider's office before going to the emergency room

|   | Yes         |                    | ER: get most care at ER<br>No |                    | Don't know |                  | Total<br>Row% |
|---|-------------|--------------------|-------------------------------|--------------------|------------|------------------|---------------|
|   | Row%        | 95%CI              | Row%                          | 95%CI              | Row%       | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                               |                    |            |                  |               |
| 0-35% (n=458)                                       | 23.0        | [18.6,28.2]        | 76.3                          | [71.1,80.8]        | 0.7        | [0.2,2.6]        | 100.0         |
| 36-99% (n=327)                                      | 12.4        | [8.9,17.2]         | 86.9                          | [82.1,90.7]        | 0.6        | [0.1,4.3]        | 100.0         |
| ≥ 100%(n = 217)                                     | 16.8        | [11.2,24.4]        | 82.9                          | [75.2,88.5]        | 0.3        | [0.0,2.4]        | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 13.7279     |                    |                               |                    |            |                  |               |
| Design-based F(3.68, 3639.18) =                     | 2.7399      | Pr =               | 0.031                         |                    |            |                  |               |
| <b>Region</b>                                       |             |                    |                               |                    |            |                  |               |
| UP/NW/NE (n=183)                                    | 6.6         | [3.8,11.3]         | 93.4                          | [88.7,96.2]        | 0.0        |                  | 100.0         |
| W/E Central/E (n=299)                               | 18.8        | [14.3,24.3]        | 79.8                          | [74.1,84.6]        | 1.4        | [0.3,5.5]        | 100.0         |
| S Central/SW/SE (n=216)                             | 26.7        | [19.3,35.5]        | 72.6                          | [63.7,80.0]        | 0.8        | [0.1,5.2]        | 100.0         |
| Detroit Metro (n=304)                               | 18.9        | [14.1,24.8]        | 81.0                          | [75.0,85.8]        | 0.1        | [0.0,0.9]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 21.5220     |                    |                               |                    |            |                  |               |
| Design-based F(5.05, 4996.92) =                     | 2.7505      | Pr =               | 0.017                         |                    |            |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                               |                    |            |                  |               |
| Yes (n=89)  | 32.4        | [22.1,44.6]        | 66.2                          | [53.9,76.6]        | 1.5        | [0.2,9.8]        | 100.0         |
| No (n=913)  | 17.7        | [14.7,21.3]        | 81.8                          | [78.2,84.9]        | 0.5        | [0.1,1.7]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 15.5896     |                    |                               |                    |            |                  |               |
| Design-based F(2.00, 1979.64) =                     | 4.5663      | Pr =               | 0.011                         |                    |            |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                               |                    |            |                  |               |
| Yes (n=78)  | 22.0        | [13.1,34.5]        | 78.0                          | [65.5,86.9]        | 0.0        |                  | 100.0         |
| No (n=924)  | 19.1        | [16.0,22.7]        | 80.2                          | [76.6,83.4]        | 0.7        | [0.2,1.9]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.9548      |                    |                               |                    |            |                  |               |
| Design-based F(1.99, 1972.66) =                     | 0.2945      | Pr =               | 0.744                         |                    |            |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                               |                    |            |                  |               |
| Chronic disease (HEDIS) (n=359)                     | 13.8        | [10.1,18.6]        | 86.0                          | [81.3,89.8]        | 0.2        | [0.0,1.2]        | 100.0         |
| No chronic disease (n=643)                          | 22.1        | [18.1,26.7]        | 77.1                          | [72.5,81.1]        | 0.8        | [0.3,2.5]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.6580     |                    |                               |                    |            |                  |               |
| Design-based F(1.79, 1771.66) =                     | 5.4440      | Pr =               | 0.006                         |                    |            |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                               |                    |            |                  |               |
| MH/SA (HEDIS) (n=638)                               | 18.3        | [14.8,22.4]        | 81.0                          | [76.8,84.6]        | 0.7        | [0.2,2.4]        | 100.0         |
| No MH/SA (n=364)                                    | 21.1        | [15.9,27.4]        | 78.5                          | [72.2,83.7]        | 0.4        | [0.1,3.0]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.4201      |                    |                               |                    |            |                  |               |
| Design-based F(2.00, 1977.56) =                     | 0.4074      | Pr =               | 0.665                         |                    |            |                  |               |
| <b>Total (n=1,002)</b>                              | <b>19.4</b> | <b>[16.4,22.8]</b> | <b>80.0</b>                   | <b>[76.6,83.1]</b> | <b>0.6</b> | <b>[0.2,1.7]</b> | <b>100.0</b>  |

### 5.10.4 Problem was too serious for doctor's office

Universe: Respondents who did not try to contact their usual provider's office before going to the emergency room

|   | Yes         |                    | ER: problem was too serious |                    |                    |                  | Total<br>Row% |
|---|-------------|--------------------|-----------------------------|--------------------|--------------------|------------------|---------------|
|   | Row%        | 95%CI              | No<br>Row%                  | 95%CI              | Don't know<br>Row% | 95%CI            |               |
| <b>FPL category</b>                                 |             |                    |                             |                    |                    |                  |               |
| 0-35% (n=458)                                       | 66.2        | [60.5,71.4]        | 31.7                        | [26.6,37.2]        | 2.1                | [0.7,6.1]        | 100.0         |
| 36-99% (n=327)                                      | 60.9        | [53.8,67.4]        | 37.1                        | [30.5,44.2]        | 2.0                | [0.9,4.4]        | 100.0         |
| ≥ 100% (n = 217)                                    | 62.9        | [55.2,70.1]        | 31.4                        | [24.7,39.0]        | 5.7                | [2.9,10.6]       | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 9.1166      |                    |                             |                    |                    |                  |               |
| Design-based F(3.43, 3400.40) =                     | 1.4970      | Pr =               | 0.208                       |                    |                    |                  |               |
| <b>Region</b>                                       |             |                    |                             |                    |                    |                  |               |
| UP/NW/NE (n=183)                                    | 62.9        | [54.7,70.4]        | 33.5                        | [26.1,41.7]        | 3.6                | [1.8,7.2]        | 100.0         |
| W/E Central/E (n=299)                               | 65.6        | [59.0,71.6]        | 31.1                        | [25.3,37.6]        | 3.3                | [1.6,6.7]        | 100.0         |
| S Central/SW/SE (n=216)                             | 66.8        | [58.4,74.3]        | 28.1                        | [21.7,35.5]        | 5.1                | [1.4,16.5]       | 100.0         |
| Detroit Metro (n=304)                               | 62.6        | [55.6,69.1]        | 36.4                        | [29.9,43.4]        | 1.0                | [0.4,2.4]        | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 13.1577     |                    |                             |                    |                    |                  |               |
| Design-based F(4.33, 4288.26) =                     | 1.5840      | Pr =               | 0.171                       |                    |                    |                  |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                             |                    |                    |                  |               |
| Yes (n=89)  | 71.8        | [60.0,81.1]        | 26.8                        | [17.6,38.4]        | 1.5                | [0.2,9.8]        | 100.0         |
| No (n=913)  | 63.4        | [59.2,67.4]        | 33.8                        | [29.9,37.9]        | 2.9                | [1.6,5.1]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 3.2545      |                    |                             |                    |                    |                  |               |
| Design-based F(2.00, 1979.21) =                     | 0.9816      | Pr =               | 0.375                       |                    |                    |                  |               |
| <b>High ER utilizers</b>                            |             |                    |                             |                    |                    |                  |               |
| Yes (n=78)  | 65.3        | [50.1,77.9]        | 34.7                        | [22.1,49.9]        | 0.0                |                  | 100.0         |
| No (n=924)  | 64.2        | [60.1,68.1]        | 32.8                        | [29.1,36.8]        | 3.0                | [1.7,5.2]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 2.6763      |                    |                             |                    |                    |                  |               |
| Design-based F(1.98, 1961.95) =                     | 0.6566      | Pr =               | 0.517                       |                    |                    |                  |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                             |                    |                    |                  |               |
| Chronic disease (HEDIS) (n=359)                     | 71.3        | [65.1,76.8]        | 27.1                        | [21.7,33.3]        | 1.6                | [0.8,3.1]        | 100.0         |
| No chronic disease (n=643)                          | 60.9        | [55.9,65.7]        | 35.9                        | [31.2,40.8]        | 3.3                | [1.7,6.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.1985     |                    |                             |                    |                    |                  |               |
| Design-based F(1.93, 1908.33) =                     | 4.2926      | Pr =               | 0.015                       |                    |                    |                  |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                             |                    |                    |                  |               |
| MH/SA (HEDIS) (n=638)                               | 67.6        | [62.8,72.0]        | 31.0                        | [26.6,35.8]        | 1.4                | [0.7,2.7]        | 100.0         |
| No MH/SA (n=364)                                    | 59.0        | [52.3,65.5]        | 36.2                        | [30.0,42.8]        | 4.8                | [2.2,10.1]       | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 14.6801     |                    |                             |                    |                    |                  |               |
| Design-based F(2.00, 1978.09) =                     | 4.5014      | Pr =               | 0.011                       |                    |                    |                  |               |
| <b>Total (n=1,002)</b>                              | <b>64.3</b> | <b>[60.4,68.1]</b> | <b>33.0</b>                 | <b>[29.3,36.8]</b> | <b>2.7</b>         | <b>[1.5,4.7]</b> | <b>100.0</b>  |

### 5.10.5 Doctor's office or clinic was not open

Universe: Respondents who did not try to contact their usual provider's office before going to the emergency room

|   | Yes     |             | ER: doctor not open<br>No |             | Don't know |            | Total<br>Row% |
|---|---------|-------------|---------------------------|-------------|------------|------------|---------------|
|   | Row%    | 95%CI       | Row%                      | 95%CI       | Row%       | 95%CI      |               |
| <b>FPL category</b>                                 |         |             |                           |             |            |            |               |
| 0-35% (n=443)                                       | 63.6    | [58.0,68.9] | 30.8                      | [25.9,36.2] | 5.5        | [3.3,9.2]  | 100.0         |
| 36-99% (n=321)                                      | 64.0    | [57.3,70.2] | 30.5                      | [24.6,37.0] | 5.5        | [3.3,9.1]  | 100.0         |
| ≥ 100% (n = 213)                                    | 63.1    | [55.1,70.5] | 31.1                      | [24.2,39.0] | 5.8        | [3.0,10.8] | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 0.0371  |             |                           |             |            |            |               |
| Design-based F(3.89, 3752.72) =                     | 0.0072  | Pr =        | 1.000                     |             |            |            |               |
| <b>Region</b>                                       |         |             |                           |             |            |            |               |
| UP/NW/NE (n=181)                                    | 63.7    | [55.4,71.3] | 35.0                      | [27.5,43.3] | 1.3        | [0.4,4.0]  | 100.0         |
| W/E Central/E (n=293)                               | 60.8    | [54.1,67.1] | 32.9                      | [26.9,39.5] | 6.3        | [3.7,10.4] | 100.0         |
| S Central/SW/SE (n=210)                             | 56.9    | [48.3,65.1] | 33.1                      | [25.9,41.3] | 9.9        | [4.9,19.2] | 100.0         |
| Detroit Metro (n=293)                               | 68.6    | [62.0,74.5] | 27.5                      | [21.8,34.0] | 4.0        | [2.3,6.7]  | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 17.9629 |             |                           |             |            |            |               |
| Design-based F(4.94, 4764.48) =                     | 2.3615  | Pr =        | 0.038                     |             |            |            |               |
| <b>Low healthcare utilizers</b>                     |         |             |                           |             |            |            |               |
| Yes (n=79)  | 43.9    | [31.4,57.3] | 49.2                      | [36.2,62.3] | 6.9        | [2.8,16.0] | 100.0         |
| No (n=898)  | 65.9    | [61.9,69.7] | 28.7                      | [25.1,32.5] | 5.4        | [3.7,7.8]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 19.6532 |             |                           |             |            |            |               |
| Design-based F(1.99, 1915.79) =                     | 5.7669  | Pr =        | 0.003                     |             |            |            |               |
| <b>High ER utilizers</b>                            |         |             |                           |             |            |            |               |
| Yes (n=74)  | 79.6    | [67.3,88.2] | 17.5                      | [9.5,29.9]  | 2.9        | [1.0,8.0]  | 100.0         |
| No (n=903)  | 62.1    | [58.1,66.0] | 32.0                      | [28.4,36.0] | 5.8        | [4.1,8.3]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 10.1924 |             |                           |             |            |            |               |
| Design-based F(1.78, 1719.57) =                     | 4.4259  | Pr =        | 0.015                     |             |            |            |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                           |             |            |            |               |
| Chronic disease (HEDIS) (n=356)                     | 64.0    | [57.6,69.8] | 30.1                      | [24.6,36.4] | 5.9        | [3.7,9.3]  | 100.0         |
| No chronic disease (n=621)                          | 63.5    | [58.6,68.1] | 31.1                      | [26.8,35.8] | 5.4        | [3.4,8.6]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 0.1701  |             |                           |             |            |            |               |
| Design-based F(2.00, 1929.76) =                     | 0.0568  | Pr =        | 0.945                     |             |            |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                           |             |            |            |               |
| MH/SA (HEDIS) (n=623)                               | 63.6    | [58.8,68.2] | 32.0                      | [27.6,36.8] | 4.3        | [2.9,6.5]  | 100.0         |
| No MH/SA (n=354)                                    | 63.6    | [57.1,69.7] | 28.8                      | [23.4,34.8] | 7.6        | [4.4,12.9] | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.1946  |             |                           |             |            |            |               |
| Design-based F(1.99, 1921.99) =                     | 1.5787  | Pr =        | 0.207                     |             |            |            |               |
| <b>Total (n=977)</b>                                | 63.6    | [59.8,67.3] | 30.8                      | [27.3,34.5] | 5.6        | [3.9,7.8]  | 100.0         |

### 5.10.6 Needed care at a time that would not make you miss work or school

Universe: Respondents who did not try to contact their usual provider's office before going to the emergency room

|   | Yes     |             | ER: couldn't miss work/school |             |                    |            | Total<br>Row% |
|---|---------|-------------|-------------------------------|-------------|--------------------|------------|---------------|
|   | Row%    | 95%CI       | No<br>Row%                    | 95%CI       | Don't know<br>Row% | 95%CI      |               |
| <b>FPL category</b>                                 |         |             |                               |             |                    |            |               |
| 0-35% (n=458)                                       | 23.5    | [18.7,29.0] | 74.6                          | [69.1,79.5] | 1.9                | [0.8,4.6]  | 100.0         |
| 36-99% (n=327)                                      | 27.5    | [22.3,33.5] | 71.1                          | [65.1,76.4] | 1.4                | [0.6,3.2]  | 100.0         |
| ≥ 100%(n = 217)                                     | 33.2    | [26.2,40.9] | 64.5                          | [56.7,71.5] | 2.4                | [0.9,5.9]  | 100.0         |
| Pearson: Uncorrected chi2(4) =                      | 7.4404  |             |                               |             |                    |            |               |
| Design-based F(3.73, 3688.61) =                     | 1.5520  | Pr =        | 0.188                         |             |                    |            |               |
| <b>Region</b>                                       |         |             |                               |             |                    |            |               |
| UP/NW/NE (n=183)                                    | 25.7    | [18.9,33.8] | 72.7                          | [64.5,79.6] | 1.7                | [0.5,5.3]  | 100.0         |
| W/E Central/E (n=299)                               | 21.3    | [16.5,27.0] | 78.2                          | [72.4,83.0] | 0.6                | [0.1,2.5]  | 100.0         |
| S Central/SW/SE (n=216)                             | 28.4    | [21.2,36.8] | 68.0                          | [59.3,75.6] | 3.6                | [1.2,10.2] | 100.0         |
| Detroit Metro (n=304)                               | 28.2    | [22.5,34.8] | 69.9                          | [63.3,75.8] | 1.9                | [0.8,4.4]  | 100.0         |
| Pearson: Uncorrected chi2(6) =                      | 11.8294 |             |                               |             |                    |            |               |
| Design-based F(5.15, 5094.54) =                     | 1.5838  | Pr =        | 0.159                         |             |                    |            |               |
| <b>Low healthcare utilizers</b>                     |         |             |                               |             |                    |            |               |
| Yes (n=89)  | 29.8    | [19.4,42.7] | 69.2                          | [56.3,79.7] | 1.0                | [0.1,6.9]  | 100.0         |
| No (n=913)  | 25.6    | [22.2,29.5] | 72.4                          | [68.5,76.0] | 2.0                | [1.1,3.6]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2701  |             |                               |             |                    |            |               |
| Design-based F(1.90, 1877.46) =                     | 0.4144  | Pr =        | 0.650                         |             |                    |            |               |
| <b>High ER utilizers</b>                            |         |             |                               |             |                    |            |               |
| Yes (n=78)  | 26.8    | [16.7,40.0] | 69.9                          | [56.5,80.5] | 3.4                | [1.0,10.7] | 100.0         |
| No (n=924)  | 26.0    | [22.5,29.9] | 72.3                          | [68.4,75.8] | 1.7                | [0.9,3.3]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.2994  |             |                               |             |                    |            |               |
| Design-based F(1.96, 1941.24) =                     | 0.4589  | Pr =        | 0.628                         |             |                    |            |               |
| <b>Chronic disease (HEDIS)</b>                      |         |             |                               |             |                    |            |               |
| Chronic disease (HEDIS) (n=359)                     | 19.4    | [15.1,24.6] | 78.5                          | [73.1,83.1] | 2.1                | [0.8,5.1]  | 100.0         |
| No chronic disease (n=643)                          | 29.4    | [25.0,34.2] | 68.9                          | [64.0,73.4] | 1.7                | [0.8,3.7]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 11.4231 |             |                               |             |                    |            |               |
| Design-based F(1.99, 1967.12) =                     | 3.7507  | Pr =        | 0.024                         |             |                    |            |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |         |             |                               |             |                    |            |               |
| MH/SA (HEDIS) (n=638)                               | 23.7    | [19.8,28.0] | 74.2                          | [69.7,78.2] | 2.1                | [1.0,4.5]  | 100.0         |
| No MH/SA (n=364)                                    | 30.0    | [24.1,36.6] | 68.6                          | [62.0,74.5] | 1.4                | [0.7,3.1]  | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 5.2128  |             |                               |             |                    |            |               |
| Design-based F(1.95, 1930.20) =                     | 1.7841  | Pr =        | 0.169                         |             |                    |            |               |
| <b>Total (n=1,002)</b>                              | 26.1    | [22.7,29.8] | 72.1                          | [68.3,75.5] | 1.8                | [1.0,3.3]  | 100.0         |

### 5.10.7 Other reason for not contacting usual provider before going to the emergency room

Universe: Respondents who did not try to contact their usual provider's office before going to the emergency room

|   | Yes         |                    | ER: other reason<br>No |                    | Total<br>Row% |
|---|-------------|--------------------|------------------------|--------------------|---------------|
|   | Row%        | 95%CI              | Row%                   | 95%CI              |               |
| <b>FPL category</b>                                 |             |                    |                        |                    |               |
| 0-35% (n=456)                                       | 41.6        | [36.1,47.3]        | 58.4                   | [52.7,63.9]        | 100.0         |
| 36-99% (n=327)                                      | 41.5        | [35.4,47.9]        | 58.5                   | [52.1,64.6]        | 100.0         |
| ≥ 100%(n = 217)                                     | 36.7        | [29.7,44.3]        | 63.3                   | [55.7,70.3]        | 100.0         |
| Pearson: Uncorrected chi2(2) =                      | 1.3811      |                    |                        |                    |               |
| Design-based F(1.95, 1929.00) =                     | 0.5648      | Pr =               | 0.564                  |                    |               |
| <b>Region</b>                                       |             |                    |                        |                    |               |
| UP/NW/NE (n=183)                                    | 43.2        | [35.5,51.3]        | 56.8                   | [48.7,64.5]        | 100.0         |
| W/E Central/E (n=298)                               | 46.3        | [39.9,53.0]        | 53.7                   | [47.0,60.1]        | 100.0         |
| S Central/SW/SE (n=216)                             | 43.0        | [35.0,51.4]        | 57.0                   | [48.6,65.0]        | 100.0         |
| Detroit Metro (n=303)                               | 35.6        | [29.4,42.3]        | 64.4                   | [57.7,70.6]        | 100.0         |
| Pearson: Uncorrected chi2(3) =                      | 8.9743      |                    |                        |                    |               |
| Design-based F(2.67, 2639.30) =                     | 2.3750      | Pr =               | 0.076                  |                    |               |
| <b>Low healthcare utilizers</b>                     |             |                    |                        |                    |               |
| Yes (n=89)  | 37.6        | [26.7,50.0]        | 62.4                   | [50.0,73.3]        | 100.0         |
| No (n=911)  | 41.1        | [37.2,45.2]        | 58.9                   | [54.8,62.8]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.4989      |                    |                        |                    |               |
| Design-based F(1.00, 988.00) =                      | 0.2901      | Pr =               | 0.590                  |                    |               |
| <b>High ER utilizers</b>                            |             |                    |                        |                    |               |
| Yes (n=78)  | 32.1        | [20.9,45.9]        | 67.9                   | [54.1,79.1]        | 100.0         |
| No (n=922)  | 41.6        | [37.6,45.6]        | 58.4                   | [54.4,62.4]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 2.9444      |                    |                        |                    |               |
| Design-based F(1.00, 988.00) =                      | 1.7672      | Pr =               | 0.184                  |                    |               |
| <b>Chronic disease (HEDIS)</b>                      |             |                    |                        |                    |               |
| Chronic disease (HEDIS) (n=358)                     | 39.4        | [33.5,45.6]        | 60.6                   | [54.4,66.5]        | 100.0         |
| No chronic disease (n=642)                          | 41.4        | [36.7,46.3]        | 58.6                   | [53.7,63.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.3772      |                    |                        |                    |               |
| Design-based F(1.00, 988.00) =                      | 0.2594      | Pr =               | 0.611                  |                    |               |
| <b>Mental health/substance use disorder (HEDIS)</b> |             |                    |                        |                    |               |
| MH/SA (HEDIS) (n=636)                               | 41.2        | [36.6,46.0]        | 58.8                   | [54.0,63.4]        | 100.0         |
| No MH/SA (n=364)                                    | 39.9        | [33.7,46.5]        | 60.1                   | [53.5,66.3]        | 100.0         |
| Pearson: Uncorrected chi2(1) =                      | 0.1685      |                    |                        |                    |               |
| Design-based F(1.00, 988.00) =                      | 0.1031      | Pr =               | 0.748                  |                    |               |
| <b>Total (n=1,000)</b>                              | <b>40.7</b> | <b>[37.0,44.6]</b> | <b>59.3</b>            | <b>[55.4,63.0]</b> | <b>100.0</b>  |



## 5.11 Q: Compared to before you had the Healthy Michigan Plan, how likely are you to contact your usual doctor's office before going to the emergency room?

Universe: All respondents

|   | More/Less likely to contact usual doctor |             |             |             |                 |             |            |            |       |
|---|--|-------------|-------------|-------------|-----------------|-------------|------------|------------|-------|
|   | More likely                              |             | Less likely |             | About as likely |             | Don't know |            | Total |
|   | Row%                                     | 95%CI       | Row%        | 95%CI       | Row%            | 95%CI       | Row%       | 95%CI      | Row%  |
| <b>FPL category</b>                                 |  |             |             |             |                 |             |            |            |       |
| 0-35% (n=1,597)                                     | 63.4                                     | [60.4,66.4] | 10.0        | [8.2,12.1]  | 21.5            | [19.0,24.3] | 5.0        | [3.8,6.5]  | 100.0 |
| 36-99% (n=1,446)                                    | 65.7                                     | [62.6,68.6] | 6.1         | [4.7,7.8]   | 24.3            | [21.7,27.2] | 3.9        | [2.9,5.4]  | 100.0 |
| ≥ 100%(n = 1,038)                                   | 63.3                                     | [59.7,66.7] | 7.1         | [5.4,9.2]   | 27.4            | [24.2,30.9] | 2.2        | [1.5,3.3]  | 100.0 |
| Pearson: Uncorrected chi2(6) =                      | 36.8077                                  |             |             |             |                 |             |            |            |       |
| Design-based F(5.70, 23212.89) =                    | 4.5612                                   |             | Pr =        | 0.000       |                 |             |            |            |       |
| <b>Region</b>                                       |  |             |             |             |                 |             |            |            |       |
| UP/NW/NE (n=743)                                    | 65.7                                     | [61.7,69.5] | 5.3         | [3.9,7.2]   | 25.3            | [21.8,29.1] | 3.7        | [2.4,5.6]  | 100.0 |
| W/E Central/E (n=1,262)                             | 64.6                                     | [61.4,67.7] | 7.6         | [6.0,9.6]   | 24.1            | [21.4,27.0] | 3.7        | [2.6,5.3]  | 100.0 |
| S Central/SW/SE (n=836)                             | 66.6                                     | [62.6,70.3] | 7.0         | [5.2,9.2]   | 23.3            | [20.1,27.0] | 3.1        | [2.1,4.7]  | 100.0 |
| Detroit Metro (n=1,240)                             | 62.2                                     | [58.8,65.6] | 9.9         | [8.0,12.4]  | 22.8            | [20.0,25.9] | 5.0        | [3.7,6.7]  | 100.0 |
| Pearson: Uncorrected chi2(9) =                      | 20.5762                                  |             |             |             |                 |             |            |            |       |
| Design-based F(7.88, 32082.76) =                    | 1.8124                                   |             | Pr =        | 0.071       |                 |             |            |            |       |
| <b>Low healthcare utilizers</b>                     |  |             |             |             |                 |             |            |            |       |
| Yes (n=488)   | 53.3                                     | [47.5,59.1] | 14.5        | [10.6,19.5] | 25.6            | [21.0,30.9] | 6.6        | [4.3,9.9]  | 100.0 |
| No (n=3,593)  | 66.0                                     | [63.9,67.9] | 7.2         | [6.2,8.4]   | 23.1            | [21.4,25.0] | 3.7        | [3.0,4.6]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 58.2318                                  |             |             |             |                 |             |            |            |       |
| Design-based F(2.97, 12082.09) =                    | 9.3372                                   |             | Pr =        | 0.000       |                 |             |            |            |       |
| <b>High ER utilizers</b>                            |  |             |             |             |                 |             |            |            |       |
| Yes (n=156)   | 62.9                                     | [52.4,72.3] | 12.7        | [6.7,22.8]  | 13.0            | [8.1,20.2]  | 11.3       | [5.7,21.2] | 100.0 |
| No (n=3,925)  | 64.1                                     | [62.1,66.0] | 8.1         | [7.0,9.3]   | 24.0            | [22.3,25.8] | 3.8        | [3.1,4.6]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 36.9278                                  |             |             |             |                 |             |            |            |       |
| Design-based F(2.85, 11591.07) =                    | 5.6964                                   |             | Pr =        | 0.001       |                 |             |            |            |       |
| <b>Chronic disease (HEDIS)</b>                      |  |             |             |             |                 |             |            |            |       |
| Chronic disease (HEDIS) (n=1,157)                   | 65.9                                     | [62.4,69.3] | 7.0         | [5.4,8.9]   | 22.9            | [19.9,26.2] | 4.2        | [2.9,6.1]  | 100.0 |
| No chronic disease (n=2,924)                        | 63.4                                     | [61.1,65.7] | 8.8         | [7.4,10.3]  | 23.7            | [21.8,25.8] | 4.1        | [3.3,5.2]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 3.9186                                   |             |             |             |                 |             |            |            |       |
| Design-based F(2.99, 12167.09) =                    | 0.8480                                   |             | Pr =        | 0.467       |                 |             |            |            |       |
| <b>Mental health/substance use disorder (HEDIS)</b> |  |             |             |             |                 |             |            |            |       |
| MH/SA (HEDIS) (n=2,029)                             | 65.8                                     | [63.1,68.5] | 7.6         | [6.2,9.4]   | 22.7            | [20.4,25.2] | 3.8        | [2.8,5.1]  | 100.0 |
| No MH/SA (n=2,052)                                  | 62.4                                     | [59.6,65.1] | 8.9         | [7.4,10.8]  | 24.2            | [21.9,26.7] | 4.5        | [3.5,5.7]  | 100.0 |
| Pearson: Uncorrected chi2(3) =                      | 6.0295                                   |             |             |             |                 |             |            |            |       |
| Design-based F(2.99, 12175.67) =                    | 1.1411                                   |             | Pr =        | 0.331       |                 |             |            |            |       |
| <b>Total (n=4,081)</b>                              | 64.0                                     | [62.1,65.9] | 8.3         | [7.2,9.6]   | 23.5            | [21.8,25.2] | 4.2        | [3.4,5.0]  | 100.0 |

## Appendix B: Tables for Individual and Community Factors Analyses

**Table 1: Individual and community-level predictors of needing help with reading written materials (scale 1-5)**

|                                    | Individual |              | Community |              | Combined  |              |
|------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                |            |              |           |              |           |              |
| 19-34                              | Reference  |              |           |              | Reference |              |
| 35-50                              | 1.11       | [0.87, 1.41] |           |              | 1.11      | [0.87, 1.42] |
| 51-64                              | 1.19       | [0.94, 1.51] |           |              | 1.18      | [0.93, 1.50] |
| Gender                             |            |              |           |              |           |              |
| M                                  | Reference  |              |           |              | Reference |              |
| F                                  | 0.70***    | [0.57, 0.85] |           |              | 0.69***   | [0.57, 0.85] |
| Race                               |            |              |           |              |           |              |
| White                              | Reference  |              |           |              | Reference |              |
| Black/AA                           | 0.99       | [0.79, 1.26] |           |              | 0.85      | [0.65, 1.10] |
| Other                              | 2.04***    | [1.40, 2.97] |           |              | 1.75**    | [1.18, 2.60] |
| More than one                      | 2.17***    | [1.37, 3.43] |           |              | 2.01**    | [1.26, 3.21] |
| Hispanic                           | 1.31       | [0.78, 2.20] |           |              | 1.32      | [0.79, 2.19] |
| FPL                                |            |              |           |              |           |              |
| 0-35%                              | Reference  |              |           |              | Reference |              |
| 36-99%                             | 0.66***    | [0.53, 0.82] |           |              | 0.66***   | [0.53, 0.81] |
| >=100%                             | 0.70**     | [0.55, 0.88] |           |              | 0.71**    | [0.56, 0.90] |
| Any insurance pre-HMP              | 0.66**     | [0.51, 0.85] |           |              | 0.68**    | [0.52, 0.87] |
| Previous Medicaid insurance        | 1.53**     | [1.12, 2.09] |           |              | 1.52**    | [1.11, 2.08] |
| Seen PCP in past 12 months         | 1.12       | [0.83, 1.51] |           |              | 1.13      | [0.83, 1.53] |
| Any chronic condition              | 1.71***    | [1.36, 2.17] |           |              | 1.69***   | [1.34, 2.14] |
| HS graduates (%) <sup>1</sup>      |            |              |           |              |           |              |
| 50.9-86.3                          | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                          |            |              | 0.83      | [0.63, 1.10] | 0.89      | [0.65, 1.20] |
| 90.6-100                           |            |              | 0.63*     | [0.43, 0.92] | 0.71      | [0.47, 1.07] |
| College graduates (%) <sup>1</sup> |            |              |           |              |           |              |
| 3-14.8                             | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                          |            |              | 1.00      | [0.78, 1.29] | 0.96      | [0.73, 1.26] |
| 22.8-100                           |            |              | 1.38*     | [1.02, 1.86] | 1.34      | [0.98, 1.85] |
| Below poverty (%) <sup>1</sup>     |            |              |           |              |           |              |
| 0-14                               | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                          |            |              | 1.05      | [0.80, 1.37] | 1.06      | [0.79, 1.42] |
| 22.7-56.3                          |            |              | 0.97      | [0.72, 1.32] | 1.05      | [0.74, 1.48] |
| Uninsured (%) <sup>1</sup>         |            |              |           |              |           |              |
| 2.5-11.1                           | Reference  |              | Reference |              | Reference |              |
| 11.2-14.3                          |            |              | 1.12      | [0.86, 1.46] | 1.02      | [0.76, 1.37] |
| 14.4-28.2                          |            |              | 1.19      | [0.87, 1.63] | 1.20      | [0.85, 1.69] |
| Medicaid (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-2.5                              | Reference  |              | Reference |              | Reference |              |
| 2.6-3.4                            |            |              | 0.96      | [0.77, 1.20] | 0.96      | [0.75, 1.22] |
| 3.5-10.4                           |            |              | 0.96      | [0.76, 1.22] | 0.95      | [0.73, 1.23] |
| Limited English (%) <sup>1</sup>   |            |              |           |              |           |              |
| 0-0.7                              | Reference  |              | Reference |              | Reference |              |
| 0.8-1.9                            |            |              | 0.95      | [0.75, 1.21] | 0.94      | [0.73, 1.21] |
| 2-34.1                             |            |              | 1.06      | [0.83, 1.35] | 0.98      | [0.75, 1.28] |
| Observations                       | 3742       |              | 4044      |              | 3705      |              |

Ordered logistic regression predicting frequency of needing help with written materials (1 = Never - 5 = Always). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

**Table 2: Individual and community-level predictors of knowledge and understanding of HMP coverage (scale 0-4)**

|                                    | Individual |              | Community |              | Combined  |              |
|------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                |            |              |           |              |           |              |
| 19-34                              | Reference  |              | Reference |              | Reference |              |
| 35-50                              | 1.10       | [0.91, 1.32] |           |              | 1.07      | [0.89, 1.30] |
| 51-64                              | 1.15       | [0.95, 1.38] |           |              | 1.14      | [0.94, 1.37] |
| Gender                             |            |              |           |              |           |              |
| M                                  | Reference  |              | Reference |              | Reference |              |
| F                                  | 1.52***    | [1.29, 1.78] |           |              | 1.52***   | [1.29, 1.78] |
| Race                               |            |              |           |              |           |              |
| White                              | Reference  |              | Reference |              | Reference |              |
| Black/AA                           | 1.31**     | [1.08, 1.60] |           |              | 1.42**    | [1.14, 1.76] |
| Other                              | 1.25       | [0.93, 1.67] |           |              | 1.33      | [0.99, 1.79] |
| More than one                      | 1.19       | [0.79, 1.79] |           |              | 1.23      | [0.81, 1.86] |
| Hispanic                           | 1.23       | [0.80, 1.89] |           |              | 1.16      | [0.76, 1.77] |
| FPL                                |            |              |           |              |           |              |
| 0-35%                              | Reference  |              | Reference |              | Reference |              |
| 36-99%                             | 0.99       | [0.83, 1.17] |           |              | 0.98      | [0.82, 1.16] |
| >=100%                             | 0.91       | [0.76, 1.09] |           |              | 0.89      | [0.74, 1.07] |
| Any insurance pre-HMP              | 1.00       | [0.83, 1.20] |           |              | Reference |              |
| Previous Medicaid insurance        | 1.07       | [0.85, 1.34] |           |              | 1.06      | [0.84, 1.34] |
| Seen PCP in past 12 months         | 1.42**     | [1.12, 1.80] |           |              | 1.41**    | [1.11, 1.80] |
| Any chronic condition              | 1.43***    | [1.20, 1.71] |           |              | 1.42***   | [1.19, 1.70] |
| HS graduates (%) <sup>1</sup>      |            |              |           |              |           |              |
| 50.9-86.3                          | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                          |            |              | 1.19      | [0.95, 1.50] | 1.12      | [0.87, 1.44] |
| 90.6-100                           |            |              | 1.13      | [0.83, 1.53] | 1.04      | [0.75, 1.43] |
| College graduates (%) <sup>1</sup> |            |              |           |              |           |              |
| 3-14.8                             | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                          |            |              | 0.90      | [0.74, 1.10] | 0.95      | [0.77, 1.17] |
| 22.8-100                           |            |              | 0.99      | [0.76, 1.28] | 1.00      | [0.76, 1.31] |
| Below poverty (%) <sup>1</sup>     |            |              |           |              |           |              |
| 0-14                               | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                          |            |              | 0.99      | [0.80, 1.21] | 0.93      | [0.75, 1.15] |
| 22.7-56.3                          |            |              | 1.00      | [0.78, 1.28] | 0.83      | [0.63, 1.09] |
| Uninsured (%) <sup>1</sup>         |            |              |           |              |           |              |
| 2.5-11.1                           | Reference  |              | Reference |              | Reference |              |
| 11.2-14.3                          |            |              | 1.11      | [0.92, 1.35] | 1.10      | [0.90, 1.34] |
| 14.4-28.2                          |            |              | 1.08      | [0.85, 1.37] | 1.06      | [0.82, 1.37] |
| Medicaid (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-2.5                              | Reference  |              | Reference |              | Reference |              |
| 2.6-3.4                            |            |              | 1.10      | [0.92, 1.31] | 1.08      | [0.90, 1.30] |
| 3.5-10.4                           |            |              | 1.17      | [0.96, 1.42] | 1.16      | [0.95, 1.42] |
| Limited English (%) <sup>1</sup>   |            |              |           |              |           |              |
| 0-0.7                              | Reference  |              | Reference |              | Reference |              |
| 0.8-1.9                            |            |              | 0.94      | [0.78, 1.13] | 0.94      | [0.77, 1.14] |
| 2-34.1                             |            |              | 0.95      | [0.77, 1.17] | 0.99      | [0.80, 1.22] |
| Observations                       | 3745       |              | 4049      |              | 3708      |              |

Ordered logistic regression predicting understanding HMP coverage in four areas: dental, eyeglasses, mental health, and prescription drugs (0 = None - 4 = All). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

**Table 3: Individual and community-level predictors of knowledge and understanding of HMP cost-sharing (scale 0-5)**

|                                    | Individual |              | Community |              | Combined  |              |
|------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                |            |              |           |              |           |              |
| 19-34                              | Reference  |              | Reference |              | Reference |              |
| 35-50                              | 0.87       | [0.71, 1.05] |           |              | 0.87      | [0.71, 1.05] |
| 51-64                              | 1.04       | [0.85, 1.27] |           |              | 1.05      | [0.86, 1.27] |
| Gender                             |            |              |           |              |           |              |
| M                                  | Reference  |              | Reference |              | Reference |              |
| F                                  | 0.86       | [0.74, 1.01] |           |              | 0.86      | [0.74, 1.01] |
| Race                               |            |              |           |              |           |              |
| White                              | Reference  |              | Reference |              | Reference |              |
| Black/AA                           | 1.00       | [0.82, 1.22] |           |              | 1.05      | [0.83, 1.32] |
| Other                              | 0.80       | [0.55, 1.17] |           |              | 0.82      | [0.55, 1.21] |
| More than one                      | 0.93       | [0.60, 1.46] |           |              | 1.00      | [0.64, 1.56] |
| Hispanic                           | 0.97       | [0.62, 1.50] |           |              | 0.96      | [0.61, 1.50] |
| FPL                                |            |              |           |              |           |              |
| 0-35%                              | Reference  |              | Reference |              | Reference |              |
| 36-99%                             | 1.25*      | [1.04, 1.49] |           |              | 1.24*     | [1.04, 1.48] |
| >=100%                             | 1.62***    | [1.34, 1.94] |           |              | 1.60***   | [1.33, 1.93] |
| Any insurance pre-HMP              | 0.99       | [0.81, 1.21] |           |              | 0.99      | [0.80, 1.21] |
| Previous Medicaid insurance        | 0.91       | [0.72, 1.16] |           |              | 0.90      | [0.71, 1.15] |
| Seen PCP in past 12 months         | 1.16       | [0.90, 1.49] |           |              | 1.15      | [0.90, 1.48] |
| Any chronic condition              | 1.10       | [0.92, 1.33] |           |              | 1.10      | [0.91, 1.33] |
| HS graduates (%) <sup>1</sup>      |            |              |           |              |           |              |
| 50.9-86.3                          | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                          |            |              | 1.01      | [0.79, 1.28] | 1.00      | [0.77, 1.29] |
| 90.6-100                           |            |              | 1.13      | [0.83, 1.52] | 1.05      | [0.75, 1.45] |
| College graduates (%) <sup>1</sup> |            |              |           |              |           |              |
| 3-14.8                             | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                          |            |              | 0.93      | [0.75, 1.16] | 0.97      | [0.78, 1.22] |
| 22.8-100                           |            |              | 0.85      | [0.66, 1.10] | 0.87      | [0.66, 1.14] |
| Below poverty (%) <sup>1</sup>     |            |              |           |              |           |              |
| 0-14                               | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                          |            |              | 0.82*     | [0.67, 1.00] | 0.80*     | [0.65, 0.99] |
| 22.7-56.3                          |            |              | 0.90      | [0.71, 1.14] | 0.87      | [0.67, 1.14] |
| Uninsured (%) <sup>1</sup>         |            |              |           |              |           |              |
| 2.5-11.1                           | Reference  |              | Reference |              | Reference |              |
| 11.2-14.3                          |            |              | 1.01      | [0.83, 1.22] | 1.03      | [0.84, 1.26] |
| 14.4-28.2                          |            |              | 0.85      | [0.67, 1.08] | 0.96      | [0.74, 1.24] |
| Medicaid (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-2.5                              | Reference  |              | Reference |              | Reference |              |
| 2.6-3.4                            |            |              | 1.10      | [0.92, 1.31] | 1.11      | [0.92, 1.35] |
| 3.5-10.4                           |            |              | 1.09      | [0.89, 1.33] | 1.06      | [0.86, 1.30] |
| Limited English (%) <sup>1</sup>   |            |              |           |              |           |              |
| 0-0.7                              | Reference  |              | Reference |              | Reference |              |
| 0.8-1.9                            |            |              | 1.04      | [0.86, 1.26] | 1.08      | [0.89, 1.31] |
| 2-34.1                             |            |              | 1.04      | [0.85, 1.27] | 1.10      | [0.89, 1.37] |
| Observations                       | 3745       |              | 4049      |              | 3708      |              |

Ordered logistic regression predicting understanding HMP cost sharing in 5 different areas: contributions, maximum out of pocket, dropped for failure to pay, reduction in fees, and services with no copay (0 = None - 5 = All). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets; \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

**Table 4: Individual and community-level predictors of sweetened drink consumption (# days in the past 7 days)**

|                                      | Individual |              | Community |              | Combined  |              |
|--------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                  |            |              |           |              |           |              |
| 19-34                                | Reference  |              |           |              | Reference |              |
| 35-50                                | 0.82*      | [0.68, 0.99] |           |              | 0.79*     | [0.65, 0.96] |
| 51-64                                | 0.51***    | [0.42, 0.62] |           |              | 0.50***   | [0.41, 0.62] |
| Gender                               |            |              |           |              |           |              |
| M                                    | Reference  |              |           |              | Reference |              |
| F                                    | 0.78**     | [0.66, 0.90] |           |              | 0.79**    | [0.67, 0.93] |
| Race                                 |            |              |           |              |           |              |
| White                                | Reference  |              |           |              | Reference |              |
| Black/AA                             | 1.08       | [0.90, 1.30] |           |              | 1.02      | [0.81, 1.29] |
| Other                                | 0.64***    | [0.50, 0.83] |           |              | 0.66**    | [0.49, 0.89] |
| More than one                        | 0.94       | [0.65, 1.35] |           |              | 0.89      | [0.61, 1.31] |
| Hispanic                             | 0.98       | [0.72, 1.34] |           |              | 0.90      | [0.64, 1.27] |
| FPL                                  |            |              |           |              |           |              |
| 0-35%                                | Reference  |              |           |              | Reference |              |
| 36-99%                               | 0.93       | [0.78, 1.10] |           |              | 0.93      | [0.77, 1.11] |
| >=100%                               | 0.87       | [0.72, 1.05] |           |              | 0.87      | [0.71, 1.06] |
| Any chronic disease                  | 1.01       | [0.84, 1.22] |           |              | 0.99      | [0.82, 1.21] |
| 1+ days poor physical health         | 1.17       | [0.99, 1.37] |           |              | 1.16      | [0.97, 1.37] |
| 1+ days poor mental health           | 1.21*      | [1.02, 1.43] |           |              | 1.23*     | [1.03, 1.47] |
| Seen PCP in past 12 months           | 0.83       | [0.66, 1.06] |           |              | 0.85      | [0.66, 1.09] |
| Employed or self-employed            | 1.12       | [0.95, 1.32] |           |              | 1.11      | [0.94, 1.32] |
| Needs help reading                   |            |              |           |              |           |              |
| Never                                | Reference  |              |           |              | Reference |              |
| Rarely                               | 1.18       | [0.96, 1.46] |           |              | 1.24      | [0.98, 1.57] |
| Sometimes                            | 0.90       | [0.69, 1.16] |           |              | 0.90      | [0.68, 1.19] |
| Often                                | 1.35       | [0.81, 2.25] |           |              | 1.44      | [0.85, 2.44] |
| Always                               | 1.10       | [0.68, 1.77] |           |              | 1.05      | [0.62, 1.78] |
| HS graduates (%) <sup>1</sup>        |            |              |           |              |           |              |
| 50.9-86.3                            | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                            |            |              | 1.01      | [0.80, 1.28] | 0.91      | [0.70, 1.18] |
| 90.6-100                             |            |              | 0.87      | [0.65, 1.18] | 0.84      | [0.60, 1.18] |
| College graduates (%) <sup>1</sup>   |            |              |           |              |           |              |
| 3-14.8                               | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                            |            |              | 1.04      | [0.84, 1.29] | 1.05      | [0.84, 1.32] |
| 22.8-100                             |            |              | 0.89      | [0.69, 1.16] | 0.93      | [0.70, 1.23] |
| Below poverty (%) <sup>1</sup>       |            |              |           |              |           |              |
| 0-14                                 | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                            |            |              | 0.89      | [0.69, 1.16] | 0.92      | [0.69, 1.22] |
| 22.7-56.3                            |            |              | 0.84      | [0.58, 1.20] | 0.78      | [0.53, 1.14] |
| Unemployed (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-8.5                                | Reference  |              | Reference |              | Reference |              |
| 8.6-12.8                             |            |              | 1.06      | [0.82, 1.36] | 1.12      | [0.86, 1.45] |
| 12.9-35.3                            |            |              | 0.88      | [0.62, 1.25] | 0.88      | [0.60, 1.28] |
| SNAP/food stamps (%) <sup>1</sup>    |            |              |           |              |           |              |
| 0-14.7                               | Reference  |              | Reference |              | Reference |              |
| 14.8-23.1                            |            |              | 1.31*     | [1.02, 1.69] | 1.38*     | [1.05, 1.82] |
| 23.2-55.8                            |            |              | 1.71**    | [1.15, 2.54] | 1.88**    | [1.23, 2.88] |
| Number of liquor stores <sup>1</sup> |            |              |           |              |           |              |
| 0                                    | Reference  |              | Reference |              | Reference |              |
| 1-5                                  |            |              | 0.97      | [0.77, 1.23] | 1.00      | [0.78, 1.28] |
| 6-22                                 |            |              | 0.89      | [0.68, 1.18] | 0.92      | [0.69, 1.24] |

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|   |      |                   |                    |
|---|------|-------------------|--------------------|
| PCP ratio <sup>2</sup>                    |      |                   |                    |
| 579-1135                                  |      | Reference         | Reference          |
| 1136-1695                                 |      | 1.06 [0.80, 1.40] | 1.09 [0.82, 1.46]  |
| 1734-6531                                 |      | 1.28 [1.00, 1.66] | 1.36* [1.04, 1.79] |
| Preventable hospitalization               |      |                   |                    |
| 28-51                                     |      | Reference         | Reference          |
| 52-64                                     |      | 0.97 [0.74, 1.26] | 1.02 [0.77, 1.34]  |
| 65-97                                     |      | 0.98 [0.75, 1.29] | 1.01 [0.76, 1.34]  |
| Violent crime rate <sup>2</sup>           |      |                   |                    |
| 42-323                                    |      | Reference         | Reference          |
| 236-409                                   |      | 0.98 [0.77, 1.23] | 0.92 [0.72, 1.18]  |
| 472-1089                                  |      | 1.03 [0.77, 1.39] | 0.89 [0.65, 1.21]  |
| Injury death rate <sup>2</sup>            |      |                   |                    |
| 40-60                                     |      | Reference         | Reference          |
| 61-72                                     |      | 0.90 [0.72, 1.13] | 0.93 [0.73, 1.18]  |
| 73-107                                    |      | 1.13 [0.84, 1.53] | 1.21 [0.88, 1.65]  |
| Drug overdose mortality rate <sup>2</sup> |      |                   |                    |
| 5-13                                      |      | Reference         | Reference          |
| 14-21                                     |      | 1.13 [0.90, 1.40] | 1.06 [0.84, 1.34]  |
| 22-30                                     |      | 0.92 [0.65, 1.31] | 0.92 [0.63, 1.35]  |
| Observations                              | 3778 | 3608              | 3324               |

Ordered logistic regression predicting frequency of drinking sweet beverages (1 = 0 days - 4 = Every day). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

<sup>2</sup> Data from RWJF County Health Rankings, grouped by tertiles at county level.

**Table 5: Individual and community-level predictors of exercise (# days in past 7 days)**

|                                      | Individual |              | Community |              | Combined  |              |
|--------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                  |            |              |           |              |           |              |
| 19-34                                | Reference  |              | Reference |              | Reference |              |
| 35-50                                | 0.96       | [0.80, 1.15] |           |              | 0.96      | [0.79, 1.16] |
| 51-64                                | 1.31**     | [1.10, 1.57] |           |              | 1.28*     | [1.06, 1.56] |
| Gender                               |            |              |           |              |           |              |
| M                                    | Reference  |              | Reference |              | Reference |              |
| F                                    | 0.78**     | [0.67, 0.91] |           |              | 0.77**    | [0.66, 0.91] |
| Race                                 |            |              |           |              |           |              |
| White                                | Reference  |              | Reference |              | Reference |              |
| Black/AA                             | 0.83*      | [0.69, 1.00] |           |              | 0.85      | [0.68, 1.07] |
| Other                                | 0.81       | [0.58, 1.12] |           |              | 0.79      | [0.55, 1.13] |
| More than one                        | 1.16       | [0.80, 1.69] |           |              | 1.09      | [0.73, 1.65] |
| Hispanic                             | 1.39       | [0.96, 2.02] |           |              | 1.47      | [0.98, 2.20] |
| FPL                                  |            |              |           |              |           |              |
| 0-35%                                | Reference  |              | Reference |              | Reference |              |
| 36-99%                               | 1.08       | [0.91, 1.28] |           |              | 1.13      | [0.94, 1.36] |
| >=100%                               | 1.01       | [0.84, 1.22] |           |              | 1.04      | [0.86, 1.26] |
| Any chronic disease                  | 1.09       | [0.91, 1.30] |           |              | 1.12      | [0.92, 1.35] |
| 1+ days poor physical health         | 0.86       | [0.73, 1.02] |           |              | 0.85      | [0.71, 1.01] |
| 1+ days poor mental health           | 0.80**     | [0.68, 0.95] |           |              | 0.79**    | [0.66, 0.94] |
| Seen PCP in past 12 months           | 0.99       | [0.78, 1.24] |           |              | 0.96      | [0.76, 1.22] |
| Employed or self-employed            | 1.33***    | [1.13, 1.56] |           |              | 1.31**    | [1.11, 1.55] |
| Needs help reading                   |            |              |           |              |           |              |
| Never                                | Reference  |              | Reference |              | Reference |              |
| Rarely                               | 0.82       | [0.65, 1.03] |           |              | 0.78*     | [0.62, 1.00] |
| Sometimes                            | 0.86       | [0.63, 1.17] |           |              | 0.88      | [0.64, 1.22] |
| Often                                | 0.69       | [0.39, 1.20] |           |              | 0.73      | [0.42, 1.29] |
| Always                               | 0.80       | [0.49, 1.31] |           |              | 0.86      | [0.50, 1.46] |
| HS graduates (%) <sup>1</sup>        |            |              |           |              |           |              |
| 50.9-86.3                            | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                            |            |              | 1.18      | [0.91, 1.52] | 1.16      | [0.88, 1.52] |
| 90.6-100                             |            |              | 1.30      | [0.95, 1.78] | 1.27      | [0.91, 1.78] |
| College graduates (%) <sup>1</sup>   |            |              |           |              |           |              |
| 3-14.8                               | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                            |            |              | 1.03      | [0.82, 1.30] | 1.02      | [0.80, 1.29] |
| 22.8-100                             |            |              | 0.99      | [0.75, 1.31] | 0.93      | [0.69, 1.25] |
| Below poverty (%) <sup>1</sup>       |            |              |           |              |           |              |
| 0-14                                 | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                            |            |              | 1.15      | [0.88, 1.50] | 1.19      | [0.89, 1.61] |
| 22.7-56.3                            |            |              | 1.18      | [0.82, 1.72] | 1.27      | [0.84, 1.92] |
| Unemployed (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-8.5                                | Reference  |              | Reference |              | Reference |              |
| 8.6-12.8                             |            |              | 1.29*     | [1.01, 1.65] | 1.26      | [0.97, 1.64] |
| 12.9-35.3                            |            |              | 1.50*     | [1.06, 2.12] | 1.60*     | [1.11, 2.30] |
| SNAP/food stamps (%) <sup>1</sup>    |            |              |           |              |           |              |
| 0-14.7                               | Reference  |              | Reference |              | Reference |              |
| 14.8-23.1                            |            |              | 0.92      | [0.71, 1.20] | 0.90      | [0.68, 1.21] |
| 23.2-55.8                            |            |              | 0.89      | [0.59, 1.36] | 0.80      | [0.51, 1.25] |
| Number of liquor stores <sup>1</sup> |            |              |           |              |           |              |
| 0                                    | Reference  |              | Reference |              | Reference |              |
| 1-5                                  |            |              | 0.73**    | [0.58, 0.92] | 0.66***   | [0.52, 0.84] |
| 6-22                                 |            |              | 0.74*     | [0.57, 0.96] | 0.72*     | [0.54, 0.95] |

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|   |      |                   |                   |
|---|------|-------------------|-------------------|
| PCP ratio <sup>2</sup>                    |      |                   |                   |
| 579-1135                                  |      | Reference         | Reference         |
| 1136-1695                                 |      | 1.05 [0.80, 1.37] | 1.13 [0.85, 1.51] |
| 1734-6531                                 |      | 1.29 [1.00, 1.66] | 1.24 [0.94, 1.64] |
| Preventable hospitalization               |      |                   |                   |
| 28-51                                     |      | Reference         | Reference         |
| 52-64                                     |      | 0.93 [0.72, 1.21] | 1.06 [0.81, 1.39] |
| 65-97                                     |      | 0.93 [0.71, 1.22] | 1.03 [0.77, 1.39] |
| Violent crime rate <sup>2</sup>           |      |                   |                   |
| 42-323                                    |      | Reference         | Reference         |
| 236-409                                   |      | 1.12 [0.88, 1.42] | 1.16 [0.90, 1.50] |
| 472-1089                                  |      | 1.06 [0.78, 1.42] | 1.01 [0.74, 1.38] |
| Injury death rate <sup>2</sup>            |      |                   |                   |
| 40-60                                     |      | Reference         | Reference         |
| 61-72                                     |      | 0.95 [0.76, 1.18] | 0.92 [0.72, 1.17] |
| 73-107                                    |      | 0.91 [0.67, 1.23] | 0.87 [0.63, 1.20] |
| Drug overdose mortality rate <sup>2</sup> |      |                   |                   |
| 5-13                                      |      | Reference         | Reference         |
| 14-21                                     |      | 0.98 [0.78, 1.22] | 0.98 [0.78, 1.25] |
| 22-30                                     |      | 0.94 [0.66, 1.33] | 0.95 [0.66, 1.39] |
|   | 3772 | 3604              | 3321              |

Ordered logistic regression predicting frequency of exercise (1 = 0 days - 4 = Every day). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

<sup>2</sup> Data from RWJF County Health Rankings, grouped by tertiles at county level.



**Table 6: Individual and community-level predictors of eating fruits and vegetables (# days in past 7 days)**

|                                      | Individual |              | Community |              | Combined  |              |
|--------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                  |            |              |           |              |           |              |
| 19-34                                | Reference  |              |           |              | Reference |              |
| 35-50                                | 1.20       | [0.99, 1.45] |           |              | 1.22      | [1.00, 1.49] |
| 51-64                                | 1.31**     | [1.08, 1.58] |           |              | 1.36**    | [1.12, 1.66] |
| Gender                               |            |              |           |              |           |              |
| M                                    | Reference  |              |           |              | Reference |              |
| F                                    | 1.45***    | [1.24, 1.70] |           |              | 1.45***   | [1.23, 1.71] |
| Race                                 |            |              |           |              |           |              |
| White                                | Reference  |              |           |              | Reference |              |
| Black/AA                             | 0.97       | [0.80, 1.16] |           |              | 0.99      | [0.79, 1.23] |
| Other                                | 0.99       | [0.68, 1.44] |           |              | 1.00      | [0.67, 1.48] |
| More than one                        | 1.09       | [0.69, 1.70] |           |              | 1.15      | [0.71, 1.87] |
| Hispanic                             | 1.66*      | [1.07, 2.58] |           |              | 1.64*     | [1.03, 2.59] |
| FPL                                  |            |              |           |              |           |              |
| 0-35%                                | Reference  |              |           |              | Reference |              |
| 36-99%                               | 1.11       | [0.92, 1.34] |           |              | 1.16      | [0.95, 1.42] |
| >=100%                               | 1.13       | [0.93, 1.38] |           |              | 1.17      | [0.95, 1.44] |
| Any chronic disease                  | 0.88       | [0.73, 1.07] |           |              | 0.90      | [0.73, 1.10] |
| 1+ days poor physical health         | 1.01       | [0.87, 1.19] |           |              | 1.01      | [0.85, 1.20] |
| 1+ days poor mental health           | 0.66***    | [0.57, 0.78] |           |              | 0.65***   | [0.55, 0.77] |
| Seen PCP in past 12 months           | 1.15       | [0.89, 1.49] |           |              | 1.14      | [0.87, 1.50] |
| Employed or self-employed            | 0.97       | [0.82, 1.15] |           |              | 0.92      | [0.77, 1.11] |
| Needs help reading                   |            |              |           |              |           |              |
| Never                                | Reference  |              |           |              | Reference |              |
| Rarely                               | 0.92       | [0.72, 1.18] |           |              | 0.94      | [0.72, 1.23] |
| Sometimes                            | 0.89       | [0.66, 1.21] |           |              | 0.89      | [0.65, 1.22] |
| Often                                | 0.76       | [0.49, 1.17] |           |              | 0.71      | [0.45, 1.13] |
| Always                               | 1.08       | [0.69, 1.69] |           |              | 1.04      | [0.65, 1.67] |
| HS graduates (%) <sup>1</sup>        |            |              |           |              |           |              |
| 50.9-86.3                            | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                            |            |              | 1.11      | [0.87, 1.41] | 1.19      | [0.92, 1.54] |
| 90.6-100                             |            |              | 1.08      | [0.79, 1.47] | 1.11      | [0.79, 1.55] |
| College graduates (%) <sup>1</sup>   |            |              |           |              |           |              |
| 3-14.8                               | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                            |            |              | 1.14      | [0.91, 1.44] | 1.10      | [0.86, 1.39] |
| 22.8-100                             |            |              | 0.97      | [0.72, 1.29] | 0.93      | [0.69, 1.25] |
| Below poverty (%) <sup>1</sup>       |            |              |           |              |           |              |
| 0-14                                 | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                            |            |              | 1.04      | [0.82, 1.33] | 1.04      | [0.80, 1.35] |
| 22.7-56.3                            |            |              | 1.20      | [0.85, 1.69] | 1.26      | [0.87, 1.82] |
| Unemployed (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-8.5                                | Reference  |              | Reference |              | Reference |              |
| 8.6-12.8                             |            |              | 1.04      | [0.83, 1.32] | 1.01      | [0.79, 1.28] |
| 12.9-35.3                            |            |              | 0.89      | [0.64, 1.23] | 0.84      | [0.60, 1.18] |
| SNAP/food stamps (%) <sup>1</sup>    |            |              |           |              |           |              |
| 0-14.7                               | Reference  |              | Reference |              | Reference |              |
| 14.8-23.1                            |            |              | 0.76*     | [0.59, 0.97] | 0.75*     | [0.57, 0.98] |
| 23.2-55.8                            |            |              | 0.77      | [0.52, 1.14] | 0.77      | [0.51, 1.17] |
| Number of liquor stores <sup>1</sup> |            |              |           |              |           |              |
| 0                                    | Reference  |              | Reference |              | Reference |              |
| 1-5                                  |            |              | 1.12      | [0.89, 1.42] | 1.08      | [0.84, 1.39] |
| 6-22                                 |            |              | 1.06      | [0.82, 1.39] | 1.02      | [0.76, 1.36] |

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|   |      |                    |                   |
|---|------|--------------------|-------------------|
| PCP ratio <sup>2</sup>                    |      |                    |                   |
| 579-1135                                  |      | Reference          | Reference         |
| 1136-1695                                 |      | 1.03 [0.77, 1.37]  | 1.09 [0.80, 1.47] |
| 1734-6531                                 |      | 1.00 [0.78, 1.29]  | 0.99 [0.76, 1.29] |
| Preventable hospitalization               |      |                    |                   |
| 28-51                                     |      | Reference          | Reference         |
| 52-64                                     |      | 0.96 [0.73, 1.25]  | 0.96 [0.73, 1.26] |
| 65-97                                     |      | 0.91 [0.70, 1.18]  | 0.93 [0.70, 1.24] |
| Violent crime rate <sup>2</sup>           |      |                    |                   |
| 42-323                                    |      | Reference          | Reference         |
| 236-409                                   |      | 0.78* [0.61, 0.99] | 0.78 [0.61, 1.01] |
| 472-1089                                  |      | 0.94 [0.71, 1.24]  | 0.95 [0.71, 1.26] |
| Injury death rate <sup>2</sup>            |      |                    |                   |
| 40-60                                     |      | Reference          | Reference         |
| 61-72                                     |      | 1.00 [0.79, 1.27]  | 1.00 [0.78, 1.27] |
| 73-107                                    |      | 0.95 [0.71, 1.27]  | 0.95 [0.69, 1.29] |
| Drug overdose mortality rate <sup>2</sup> |      |                    |                   |
| 5-13                                      |      | Reference          | Reference         |
| 14-21                                     |      | 1.11 [0.88, 1.39]  | 1.14 [0.90, 1.45] |
| 22-30                                     |      | 1.38 [0.97, 1.95]  | 1.41 [0.97, 2.07] |
| Observations                              | 3758 | 3586               | 3305              |

Ordered logistic regression predicting frequency of eating fruits and vegetables (1 = 0 days - 4 = Every day). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

<sup>2</sup> Data from RWJF County Health Rankings, grouped by tertiles at county level.

**Table 7: Individual and community-level predictors of binge drinking (#days in past 7 days)**

|                                      | Individual |              | Community |              | Combined  |              |
|--------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                  |            |              |           |              |           |              |
| 19-34                                | Reference  |              |           |              | Reference |              |
| 35-50                                | 1.30       | [1.00, 1.71] |           |              | 1.35*     | [1.01, 1.80] |
| 51-64                                | 1.17       | [0.88, 1.56] |           |              | 1.23      | [0.91, 1.67] |
| Gender                               |            |              |           |              |           |              |
| M                                    | Reference  |              |           |              | Reference |              |
| F                                    | 0.62***    | [0.50, 0.78] |           |              | 0.62***   | [0.49, 0.79] |
| Race                                 |            |              |           |              |           |              |
| White                                | Reference  |              |           |              | Reference |              |
| Black/AA                             | 1.50**     | [1.17, 1.93] |           |              | 1.78***   | [1.27, 2.49] |
| Other                                | 0.54*      | [0.32, 0.93] |           |              | 0.60      | [0.33, 1.10] |
| More than one                        | 0.95       | [0.54, 1.67] |           |              | 1.00      | [0.53, 1.88] |
| Hispanic                             | 1.36       | [0.80, 2.32] |           |              | 1.51      | [0.84, 2.73] |
| FPL                                  |            |              |           |              |           |              |
| 0-35%                                | Reference  |              |           |              | Reference |              |
| 36-99%                               | 0.84       | [0.64, 1.09] |           |              | 0.76      | [0.57, 1.01] |
| >=100%                               | 0.90       | [0.67, 1.21] |           |              | 0.87      | [0.64, 1.18] |
| Any chronic disease                  | 0.99       | [0.76, 1.29] |           |              | 0.97      | [0.73, 1.28] |
| 1+ days poor physical health         | 1.02       | [0.80, 1.29] |           |              | 1.07      | [0.83, 1.38] |
| 1+ days poor mental health           | 1.24       | [0.97, 1.59] |           |              | 1.23      | [0.95, 1.60] |
| Seen PCP in past 12 months           | 0.98       | [0.69, 1.38] |           |              | 0.97      | [0.67, 1.39] |
| Employed or self-employed            | 1.38*      | [1.07, 1.77] |           |              | 1.47**    | [1.12, 1.92] |
| Needs help reading                   |            |              |           |              |           |              |
| Never                                | Reference  |              |           |              | Reference |              |
| Rarely                               | 0.89       | [0.62, 1.27] |           |              | 0.81      | [0.55, 1.20] |
| Sometimes                            | 0.67       | [0.43, 1.03] |           |              | 0.57*     | [0.35, 0.92] |
| Often                                | 1.02       | [0.48, 2.18] |           |              | 0.98      | [0.43, 2.25] |
| Always                               | 0.34***    | [0.19, 0.63] |           |              | 0.29***   | [0.15, 0.56] |
| HS graduates (%) <sup>1</sup>        |            |              |           |              |           |              |
| 50.9-86.3                            |            |              | Reference |              | Reference |              |
| 86.4-90.5                            |            |              | 0.99      | [0.69, 1.42] | 0.92      | [0.60, 1.41] |
| 90.6-100                             |            |              | 1.07      | [0.67, 1.71] | 0.98      | [0.58, 1.65] |
| College graduates (%) <sup>1</sup>   |            |              |           |              |           |              |
| 3-14.8                               |            |              | Reference |              | Reference |              |
| 14.9-22.7                            |            |              | 0.89      | [0.67, 1.17] | 0.96      | [0.70, 1.31] |
| 22.8-100                             |            |              | 0.94      | [0.64, 1.38] | 0.89      | [0.57, 1.37] |
| Below poverty (%) <sup>1</sup>       |            |              |           |              |           |              |
| 0-14                                 |            |              | Reference |              | Reference |              |
| 14.1-22.6                            |            |              | 0.99      | [0.69, 1.40] | 0.98      | [0.68, 1.41] |
| 22.7-56.3                            |            |              | 1.31      | [0.78, 2.20] | 1.05      | [0.57, 1.91] |
| Unemployed (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-8.5                                |            |              | Reference |              | Reference |              |
| 8.6-12.8                             |            |              | 0.95      | [0.68, 1.34] | 0.97      | [0.67, 1.40] |
| 12.9-35.3                            |            |              | 1.09      | [0.68, 1.76] | 0.95      | [0.56, 1.63] |
| SNAP/food stamps (%) <sup>1</sup>    |            |              |           |              |           |              |
| 0-14.7                               |            |              | Reference |              | Reference |              |
| 14.8-23.1                            |            |              | 0.89      | [0.63, 1.25] | 0.75      | [0.52, 1.08] |
| 23.2-55.8                            |            |              | 0.85      | [0.49, 1.47] | 0.79      | [0.42, 1.48] |
| Number of liquor stores <sup>1</sup> |            |              |           |              |           |              |
| 0                                    |            |              | Reference |              | Reference |              |
| 1-5                                  |            |              | 0.89      | [0.65, 1.22] | 0.80      | [0.57, 1.12] |
| 6-22                                 |            |              | 1.04      | [0.72, 1.49] | 0.94      | [0.62, 1.41] |

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|   |      |                   |                   |
|---|------|-------------------|-------------------|
| PCP ratio <sup>2</sup>                    |      |                   |                   |
| 579-1135                                  |      | Reference         | Reference         |
| 1136-1695                                 |      | 1.10 [0.73, 1.65] | 0.96 [0.62, 1.51] |
| 1734-6531                                 |      | 1.11 [0.77, 1.60] | 1.13 [0.74, 1.72] |
| Preventable hospitalization               |      |                   |                   |
| 28-51                                     |      | Reference         | Reference         |
| 52-64                                     |      | 0.91 [0.64, 1.30] | 0.87 [0.59, 1.29] |
| 65-97                                     |      | 0.76 [0.52, 1.12] | 0.69 [0.45, 1.05] |
| Violent crime rate <sup>2</sup>           |      |                   |                   |
| 42-323                                    |      | Reference         | Reference         |
| 236-409                                   |      | 0.98 [0.69, 1.38] | 0.96 [0.66, 1.40] |
| 472-1089                                  |      | 1.05 [0.68, 1.63] | 1.21 [0.73, 2.00] |
| Injury death rate <sup>2</sup>            |      |                   |                   |
| 40-60                                     |      | Reference         | Reference         |
| 61-72                                     |      | 1.14 [0.81, 1.60] | 1.30 [0.89, 1.88] |
| 73-107                                    |      | 0.97 [0.63, 1.50] | 0.96 [0.59, 1.58] |
| Drug overdose mortality rate <sup>2</sup> |      |                   |                   |
| 5-13                                      |      | Reference         | Reference         |
| 14-21                                     |      | 0.98 [0.68, 1.40] | 0.99 [0.67, 1.47] |
| 22-30                                     |      | 1.02 [0.61, 1.68] | 0.93 [0.53, 1.62] |
| Observations                              | 3776 | 3607              | 3323              |

Ordered logistic regression predicting frequency of binge drinking (1 = 0 days - 4 = Every day). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

<sup>2</sup> Data from RWJF County Health Rankings, grouped by tertiles at county level.

**Table 8: Individual and community-level predictors of smoking/tobacco use in past 30 days**

|                                      | Individual |              | Community |              | Combined  |              |
|--------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                  |            |              |           |              |           |              |
| 19-34                                | Reference  |              |           |              | Reference |              |
| 35-50                                | 1.42**     | [1.14, 1.77] |           |              | 1.47**    | [1.16, 1.86] |
| 51-64                                | 1.39**     | [1.12, 1.73] |           |              | 1.45**    | [1.14, 1.83] |
| Gender                               |            |              |           |              |           |              |
| M                                    | Reference  |              |           |              | Reference |              |
| F                                    | 0.71***    | [0.60, 0.85] |           |              | 0.70***   | [0.58, 0.85] |
| Race                                 |            |              |           |              |           |              |
| White                                | Reference  |              |           |              | Reference |              |
| Black/AA                             | 0.73**     | [0.58, 0.91] |           |              | 0.74*     | [0.56, 0.98] |
| Other                                | 0.77       | [0.52, 1.14] |           |              | 0.76      | [0.50, 1.16] |
| More than one                        | 0.68       | [0.42, 1.10] |           |              | 0.63      | [0.37, 1.06] |
| Hispanic                             | 0.82       | [0.52, 1.28] |           |              | 0.82      | [0.51, 1.32] |
| FPL                                  |            |              |           |              |           |              |
| 0-35%                                | Reference  |              |           |              | Reference |              |
| 36-99%                               | 0.69***    | [0.56, 0.85] |           |              | 0.68***   | [0.54, 0.85] |
| >=100%                               | 0.60***    | [0.48, 0.75] |           |              | 0.59***   | [0.47, 0.75] |
| Any chronic disease                  | 1.35**     | [1.08, 1.69] |           |              | 1.23      | [0.96, 1.56] |
| 1+ days poor physical health         | 1.29**     | [1.07, 1.57] |           |              | 1.29*     | [1.05, 1.59] |
| 1+ days poor mental health           | 1.31**     | [1.08, 1.58] |           |              | 1.38**    | [1.12, 1.69] |
| Seen PCP in past 12 months           | 0.71*      | [0.54, 0.94] |           |              | 0.71*     | [0.53, 0.95] |
| Employed or self-employed            | 1.04       | [0.85, 1.26] |           |              | 1.01      | [0.82, 1.25] |
| Needs help reading                   |            |              |           |              |           |              |
| Never                                | Reference  |              |           |              | Reference |              |
| Rarely                               | 1.20       | [0.90, 1.60] |           |              | 1.26      | [0.93, 1.71] |
| Sometimes                            | 1.33       | [0.99, 1.80] |           |              | 1.26      | [0.91, 1.73] |
| Often                                | 1.44       | [0.81, 2.57] |           |              | 1.69      | [0.95, 3.01] |
| Always                               | 1.07       | [0.70, 1.64] |           |              | 0.92      | [0.58, 1.44] |
| HS graduates (%) <sup>1</sup>        |            |              |           |              |           |              |
| 50.9-86.3                            | Reference  |              |           |              | Reference |              |
| 86.4-90.5                            |            |              | 1.02      | [0.77, 1.35] | 0.98      | [0.72, 1.33] |
| 90.6-100                             |            |              | 0.79      | [0.55, 1.14] | 0.83      | [0.56, 1.24] |
| College graduates (%) <sup>1</sup>   |            |              |           |              |           |              |
| 3-14.8                               | Reference  |              |           |              | Reference |              |
| 14.9-22.7                            |            |              | 1.10      | [0.85, 1.42] | 1.14      | [0.86, 1.50] |
| 22.8-100                             |            |              | 1.04      | [0.75, 1.45] | 1.11      | [0.78, 1.58] |
| Below poverty (%) <sup>1</sup>       |            |              |           |              |           |              |
| 0-14                                 | Reference  |              |           |              | Reference |              |
| 14.1-22.6                            |            |              | 0.95      | [0.70, 1.29] | 1.01      | [0.72, 1.41] |
| 22.7-56.3                            |            |              | 1.03      | [0.67, 1.58] | 0.99      | [0.62, 1.60] |
| Unemployed (%) <sup>1</sup>          |            |              |           |              |           |              |
| 0-8.5                                | Reference  |              |           |              | Reference |              |
| 8.6-12.8                             |            |              | 1.52**    | [1.15, 2.02] | 1.63**    | [1.21, 2.21] |
| 12.9-35.3                            |            |              | 1.25      | [0.84, 1.86] | 1.26      | [0.83, 1.91] |
| SNAP/food stamps (%) <sup>1</sup>    |            |              |           |              |           |              |
| 0-14.7                               | Reference  |              |           |              | Reference |              |
| 14.8-23.1                            |            |              | 1.01      | [0.74, 1.38] | 0.99      | [0.70, 1.39] |
| 23.2-55.8                            |            |              | 1.06      | [0.66, 1.70] | 1.24      | [0.73, 2.11] |
| Number of liquor stores <sup>1</sup> |            |              |           |              |           |              |
| 0                                    | Reference  |              |           |              | Reference |              |
| 1-5                                  |            |              | 0.86      | [0.65, 1.13] | 0.88      | [0.65, 1.19] |
| 6-22                                 |            |              | 0.79      | [0.57, 1.10] | 0.84      | [0.58, 1.21] |

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|   |      |                   |                   |
|---|------|-------------------|-------------------|
| PCP ratio <sup>2</sup>                    |      |                   |                   |
| 579-1135                                  |      | Reference         | Reference         |
| 1136-1695                                 |      | 1.04 [0.74, 1.47] | 1.00 [0.69, 1.44] |
| 1734-6531                                 |      | 1.23 [0.92, 1.64] | 1.31 [0.95, 1.79] |
| Preventable hospitalization               |      |                   |                   |
| 28-51                                     |      | Reference         | Reference         |
| 52-64                                     |      | 0.94 [0.69, 1.26] | 0.86 [0.62, 1.18] |
| 65-97                                     |      | 0.99 [0.74, 1.33] | 0.96 [0.70, 1.32] |
| Violent crime rate <sup>2</sup>           |      |                   |                   |
| 42-323                                    |      | Reference         | Reference         |
| 236-409                                   |      | 1.07 [0.81, 1.41] | 1.01 [0.75, 1.36] |
| 472-1089                                  |      | 1.16 [0.83, 1.63] | 1.20 [0.84, 1.71] |
| Injury death rate <sup>2</sup>            |      |                   |                   |
| 40-60                                     |      | Reference         | Reference         |
| 61-72                                     |      | 1.03 [0.79, 1.34] | 0.98 [0.74, 1.32] |
| 73-107                                    |      | 0.96 [0.68, 1.35] | 0.90 [0.62, 1.31] |
| Drug overdose mortality rate <sup>2</sup> |      |                   |                   |
| 5-13                                      |      | Reference         | Reference         |
| 14-21                                     |      | 0.94 [0.73, 1.22] | 1.01 [0.77, 1.33] |
| 22-30                                     |      | 0.77 [0.52, 1.15] | 0.87 [0.57, 1.32] |
| Observations                              | 3781 | 3611              | 3327              |

Logistic regression predicting any smoking or tobacco use in the past 30 days. Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

<sup>2</sup> Data from RWJF County Health Rankings, grouped by tertiles at county level.

**Table 9: Individual and community-level predictors of any ER visits in the past 12 months**

|   | Individual |              | Community |              | Combined  |              |
|---|------------|--------------|-----------|--------------|-----------|--------------|
| Age                                       |            |              |           |              |           |              |
| 19-34                                     | Reference  |              |           |              | Reference |              |
| 35-50                                     | 0.98       | [0.71, 1.36] |           |              | 0.98      | [0.69, 1.38] |
| 51-64                                     | 0.59**     | [0.42, 0.83] |           |              | 0.60**    | [0.42, 0.86] |
| Gender                                    |            |              |           |              |           |              |
| M   | Reference  |              |           |              | Reference |              |
| F   | 1.57**     | [1.18, 2.10] |           |              | 1.59**    | [1.17, 2.15] |
| Race                                      |            |              |           |              |           |              |
| White                                     | Reference  |              |           |              | Reference |              |
| Black/ AA                                 | 1.25       | [0.88, 1.77] |           |              | 1.16      | [0.76, 1.76] |
| Other                                     | 1.52       | [0.92, 2.50] |           |              | 1.71      | [0.99, 2.95] |
| More than one                             | 2.02*      | [1.04, 3.90] |           |              | 2.06*     | [1.02, 4.17] |
| Hispanic                                  | 1.26       | [0.64, 2.47] |           |              | 0.96      | [0.49, 1.87] |
| FPL                                       |            |              |           |              |           |              |
| 0-35%                                     | Reference  |              |           |              | Reference |              |
| 36-99%                                    | 0.66**     | [0.48, 0.90] |           |              | 0.67*     | [0.48, 0.93] |
| >=100%                                    | 0.65*      | [0.46, 0.92] |           |              | 0.66*     | [0.46, 0.95] |
| Any chronic disease                       | 2.45***    | [1.76, 3.39] |           |              | 2.59***   | [1.82, 3.68] |
| Seen PCP in past 12 months                | 1.41       | [0.91, 2.20] |           |              | 1.42      | [0.89, 2.26] |
| Pre-HMP insurance length                  |            |              |           |              |           |              |
| All 12 months                             | Reference  |              |           |              | Reference |              |
| 6-11 months                               | 1.82**     | [1.25, 2.66] |           |              | 1.79**    | [1.19, 2.67] |
| Less than 6 months                        | 1.42       | [0.88, 2.31] |           |              | 1.52      | [0.92, 2.51] |
| Previous Medicaid insurance               | 1.33*      | [1.01, 1.77] |           |              | 1.25      | [0.92, 1.68] |
| HS graduates (%) <sup>1</sup>             |            |              |           |              |           |              |
| 50.9-86.3                                 | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                                 |            |              | 1.25      | [0.95, 1.65] | 1.57      | [0.96, 2.55] |
| 90.6-100                                  |            |              | 1.02      | [0.71, 1.47] | 1.72      | [0.92, 3.22] |
| College graduates (%) <sup>1</sup>        |            |              |           |              |           |              |
| 3-14.8                                    | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                                 |            |              | 0.87      | [0.68, 1.12] | 0.93      | [0.62, 1.41] |
| 22.8-100                                  |            |              | 0.75      | [0.56, 1.01] | 0.70      | [0.42, 1.16] |
| Below poverty (%) <sup>1</sup>            |            |              |           |              |           |              |
| 0-14                                      | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                                 |            |              | 1.10      | [0.82, 1.47] | 1.31      | [0.80, 2.15] |
| 22.7-56.3                                 |            |              | 1.18      | [0.78, 1.78] | 2.91**    | [1.44, 5.90] |
| Unemployed (%) <sup>1</sup>               |            |              |           |              |           |              |
| 0-8.5                                     | Reference  |              | Reference |              | Reference |              |
| 8.6-12.8                                  |            |              | 1.09      | [0.82, 1.44] | 0.94      | [0.58, 1.52] |
| 12.9-35.3                                 |            |              | 1.10      | [0.75, 1.61] | 0.82      | [0.43, 1.55] |
| No household vehicle (%) <sup>1</sup>     |            |              |           |              |           |              |
| 0-.05                                     | Reference  |              | Reference |              | Reference |              |
| .06-.09                                   |            |              | 1.18      | [0.93, 1.50] | 0.97      | [0.64, 1.47] |
| 1.0-.48                                   |            |              | 1.39      | [0.98, 1.96] | 0.87      | [0.48, 1.58] |
| Preventable hospitalizations <sup>2</sup> |            |              |           |              |           |              |
| 28-51                                     | Reference  |              | Reference |              | Reference |              |
| 52-64                                     |            |              | 0.89      | [0.69, 1.14] | 0.66      | [0.43, 1.02] |
| 65-97                                     |            |              | 0.90      | [0.67, 1.20] | 0.83      | [0.51, 1.37] |
| Violent crime rate <sup>2</sup>           |            |              |           |              |           |              |
| 42-323                                    | Reference  |              | Reference |              | Reference |              |
| 236-409                                   |            |              | 0.95      | [0.74, 1.22] | 0.87      | [0.57, 1.35] |
| 472-1089                                  |            |              | 1.03      | [0.76, 1.41] | 0.83      | [0.48, 1.44] |

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| Injury death rate <sup>2</sup>            |      | Reference |              | Reference |              |
|---|------|-----------|--------------|-----------|--------------|
| 40-60                                     |      |           |              |           |              |
| 61-72                                     |      | 0.77      | [0.58, 1.02] | 0.80      | [0.51, 1.26] |
| 73-107                                    |      | 0.65*     | [0.46, 0.93] | 0.81      | [0.45, 1.44] |
| Drug overdose mortality rate <sup>2</sup> |      | Reference |              | Reference |              |
| 5-13                                      |      |           |              |           |              |
| 14-21                                     |      | 1.06      | [0.81, 1.37] | 1.03      | [0.65, 1.63] |
| 22-30                                     |      | 1.29      | [0.88, 1.90] | 1.30      | [0.67, 2.49] |
| Observations                              | 1494 |           | 3593         |           | 1337         |

Logistic regression predicting any self-reported ER use in the past 12 months. Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

<sup>2</sup> Data from RWJF County Health Rankings, grouped by tertiles at county level.



**Table 10: Individual and community-level predictors of change in contacting usual doctor before seeking emergency care**

|                              | Individual |              | Community |              | Combined  |              |
|------------------------------|------------|--------------|-----------|--------------|-----------|--------------|
| Age                          |            |              |           |              |           |              |
| 19-34                        | Reference  |              |           |              | Reference |              |
| 35-50                        | 1.33       | [0.96, 1.84] |           |              | 1.24      | [0.88, 1.75] |
| 51-64                        | 1.83***    | [1.31, 2.56] |           |              | 1.77**    | [1.24, 2.55] |
| Gender                       |            |              |           |              |           |              |
| M                            | Reference  |              |           |              | Reference |              |
| F                            | 1.39*      | [1.05, 1.84] |           |              | 1.40*     | [1.04, 1.89] |
| Race                         |            |              |           |              |           |              |
| White                        | Reference  |              |           |              | Reference |              |
| Black/AA                     | 1.22       | [0.83, 1.80] |           |              | 1.11      | [0.72, 1.73] |
| Other                        | 1.09       | [0.70, 1.71] |           |              | 1.01      | [0.61, 1.66] |
| More than one                | 1.01       | [0.54, 1.88] |           |              | 0.87      | [0.45, 1.68] |
| Hispanic                     | 1.85       | [0.94, 3.66] |           |              | 1.74      | [0.83, 3.66] |
| FPL                          |            |              |           |              |           |              |
| 0-35%                        | Reference  |              |           |              | Reference |              |
| 36-99%                       | 1.16       | [0.85, 1.59] |           |              | 1.25      | [0.89, 1.75] |
| >=100%                       | 0.99       | [0.70, 1.39] |           |              | 0.99      | [0.70, 1.41] |
| Any chronic disease          | 1.01       | [0.74, 1.38] |           |              | 1.00      | [0.72, 1.38] |
| Seen PCP in past 12 months   | 1.74*      | [1.14, 2.68] |           |              | 1.78**    | [1.15, 2.75] |
| Pre-HMP insurance length     |            |              |           |              |           |              |
| All 12 months                | Reference  |              |           |              | Reference |              |
| 6-11 months                  | 2.06**     | [1.33, 3.18] |           |              | 2.35***   | [1.49, 3.70] |
| Less than 6 months           | 2.48***    | [1.50, 4.10] |           |              | 2.88***   | [1.68, 4.92] |
| Previous Medicaid insurance  | 0.92       | [0.70, 1.21] |           |              | 0.86      | [0.64, 1.15] |
| HS graduates (%)             |            |              |           |              |           |              |
| 50.9-86.3                    | Reference  |              | Reference |              | Reference |              |
| 86.4-90.5                    |            |              | 0.77      | [0.58, 1.03] | 0.86      | [0.53, 1.38] |
| 90.6-100                     |            |              | 0.84      | [0.58, 1.23] | 0.76      | [0.42, 1.36] |
| College graduates (%)        |            |              |           |              |           |              |
| 3-14.8                       | Reference  |              | Reference |              | Reference |              |
| 14.9-22.7                    |            |              | 1.18      | [0.90, 1.54] | 1.45      | [0.95, 2.21] |
| 22.8-100                     |            |              | 1.02      | [0.73, 1.43] | 0.98      | [0.58, 1.65] |
| Below poverty (%)            |            |              |           |              |           |              |
| 0-14                         | Reference  |              | Reference |              | Reference |              |
| 14.1-22.6                    |            |              | 0.96      | [0.73, 1.28] | 1.14      | [0.72, 1.80] |
| 22.7-56.3                    |            |              | 1.02      | [0.66, 1.58] | 0.88      | [0.43, 1.79] |
| Unemployed (%)               |            |              |           |              |           |              |
| 0-8.5                        | Reference  |              | Reference |              | Reference |              |
| 8.6-12.8                     |            |              | 1.06      | [0.81, 1.40] | 0.81      | [0.53, 1.25] |
| 12.9-35.3                    |            |              | 0.95      | [0.63, 1.42] | 0.67      | [0.36, 1.25] |
| No household vehicle (%)     |            |              |           |              |           |              |
| 0-.05                        | Reference  |              | Reference |              | Reference |              |
| .06-.09                      |            |              | 0.99      | [0.79, 1.25] | 0.69      | [0.47, 1.02] |
| 1.0-.48                      |            |              | 1.10      | [0.77, 1.57] | 1.77      | [0.94, 3.30] |
| Preventable hospitalizations |            |              |           |              |           |              |
| 28-51                        | Reference  |              | Reference |              | Reference |              |
| 52-64                        |            |              | 0.91      | [0.71, 1.16] | 0.79      | [0.55, 1.15] |
| 65-97                        |            |              | 0.97      | [0.73, 1.30] | 0.59*     | [0.35, 1.00] |
| Violent crime rate           |            |              |           |              |           |              |
| 42-323                       | Reference  |              | Reference |              | Reference |              |
| 236-409                      |            |              | 1.11      | [0.87, 1.43] | 1.35      | [0.87, 2.07] |
| 472-1089                     |            |              | 0.86      | [0.63, 1.17] | 1.64      | [0.98, 2.74] |

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|                              |      |           |              |      |
|------------------------------|------|-----------|--------------|------|
| Injury death rate            |      |           |              |      |
| 40-60                        |      | Reference | Reference    |      |
| 61-72                        |      | 0.81      | [0.62, 1.07] | 1.06 |
| 73-107                       |      | 0.80      | [0.56, 1.15] | 0.84 |
| Drug overdose mortality rate |      |           |              |      |
| 5-13                         |      | Reference | Reference    |      |
| 14-21                        |      | 1.27      | [0.98, 1.66] | 0.97 |
| 22-30                        |      | 1.12      | [0.76, 1.65] | 1.00 |
| Observations                 | 1457 | 3463      |              | 1302 |

Ordered logistic regression predicting improved likelihood of contacting usual doctor before seeking emergency care (1 = Less likely - 3 = More likely). Columns represent 3 separate models, each adjusted for the covariates shown. See methods for further explanation.

Adjusted odds ratios; 95% confidence intervals in brackets

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup> Data from American Community Survey, 2013 and 2015, grouped by tertiles at zip code level.

<sup>2</sup> Data from RWJF County Health Rankings, grouped by tertiles at county level.

## Appendix C: Subgroup and Community Factors Definitions

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### Subgroup Analyses

Utilization measures were based on Medicaid administrative data drawn directly from the MDHHS data warehouse.

**Low outpatient care utilizers:** defined as those with no primary care or other outpatient visits in the 12 months prior to HMV sampling. Identification of primary care visits was based on any visit with a procedure or revenue code included in the Healthcare Effectiveness Data and Information Set (HEDIS) Outpatient value set, with two additional elements:

1. A procedure code on the MDHHS Physician Primary Care Rate Increase Initiative list and
2. A billing or rendering provider who was a Primary Care Provider of record for  $\geq 1$  Medicaid enrollee in the MDHHS data warehouse PCP table; or who had participated in Michigan's Primary Care Transformation (MiPCT) project and thus had been verified as a primary care provider; or who had a primary care specialty classification in both the Michigan Medicaid provider specialty table and the NPPES taxonomy table. NPIs known to be inaccurate from prior analyses were excluded.

Identification of other outpatient visits also was based on the HEDIS Outpatient value set; visits that did not meet criteria for primary care or as mental health were counted as 'other outpatient'.

**High ER utilizers:** defined as those five or more ER visits based on claims in the 12 months prior to HMV sampling. Identification of ED visits was based on specifications in the HEDIS Emergency Department Utilization (EDU) measure. Consistent with HEDIS, ED visits that resulted in an inpatient admission were not counted, and non-institutional/non-surgical ED visits that occurred a day prior to or after an institutional ED/Observation/Inpatient visit were removed. Two modifications of the HEDIS criteria were made, to allow results to represent the full range of ED utilization for the HMP population: (1) mental health/substance abuse ED visits were included, where HEDIS excludes them; and (2) three observation visit codes (G0378, G0379, revenue code 0762) were added to the HEDIS observation value set, along with codes G0380-G0384 for Hospital Type B emergency visits.

**Respondents with one or more chronic conditions:** Identification of the four chronic disease groups of interest (asthma, cardiovascular disease, COPD, and diabetes) was based on identification criteria outlined in the HEDIS 2016 Relative Resource Use (RRU) specifications

**Respondents with a mental and behavioral health condition or substance use disorder:** defined by Mental and Behavioral Disorders value set from HEDIS 2016. Tobacco use disorder was excluded from the list of mental and behavioral health conditions for this analysis.

### Individual and Community Factors Analysis

**Census/American Community Survey (ACS):** American FactFinder, United States Census Bureau <https://factfinder.census.gov> All data is downloadable at the ZIP code level. Data is

from the 2011-2015 ACS 5-year estimates unless otherwise noted. The following fields were included in the individual and community factor analysis.

**Educational attainment**

- HS Grads (% of population ages 25 and over)
- College Grads (% of population ages 25 and over)

**Language spoken at home**

- Who speak English less than “very well” (% of population ages 5+)

**Poverty status in the past 12 months**

- Below poverty level (% of population)

**Food stamps/SNAP**

- Households receiving food stamps/SNAP benefits (% total households)

**Employment status**

- Unemployment rate for ages 16 and over (As a percent of the civilian labor force) – This is the official unemployment rate.

**Insurance coverage (2009-2013 ACS data as pre-HMP comparator)**

- Percent uninsured of the civilian non-institutionalized population
- Percent uninsured ages 18-64

**Public health insurance coverage by type**

- Percent public coverage alone
- Percent Medicaid coverage alone

**Household size by vehicles available**

- Unit is households – number of cars available per household given (0, 1, 2, 3, 4 or more)

**United States Census/Economic Census:** American FactFinder, United States Census Bureau <https://www.census.gov/EconomicCensus> All data is downloadable at the ZIP code level. Data is from the 2012 Economic Census.

**Liquor stores**

- Number of liquor stores by zip code

**County Health Rankings & Roadmaps:** Robert Wood Johnson Foundation, <http://www.countyhealthrankings.org/> Data is available on the county level, both as rankings within the state and some summary measures used to calculate those rankings. The following variables are used in the analysis.

**Ratio of PCPs to population**

Source: Area Health Resource File/National Provider Identification File 2014

Definition: Ratio of population to primary care physicians

**Preventable hospitalization rate**

Source: Dartmouth Atlas of Healthcare 2013

Definition: Number of hospital stays for ambulatory-care sensitive conditions per 1,000 Medicare enrollees

**Violent crime rate**

Source: Uniform Crime reporting (FBI) 2010-2012

Definition: Number of reported violent crime offenses per 100,000 population

**Injury death rate**

Source: CDC WONDER mortality data 2009-2013

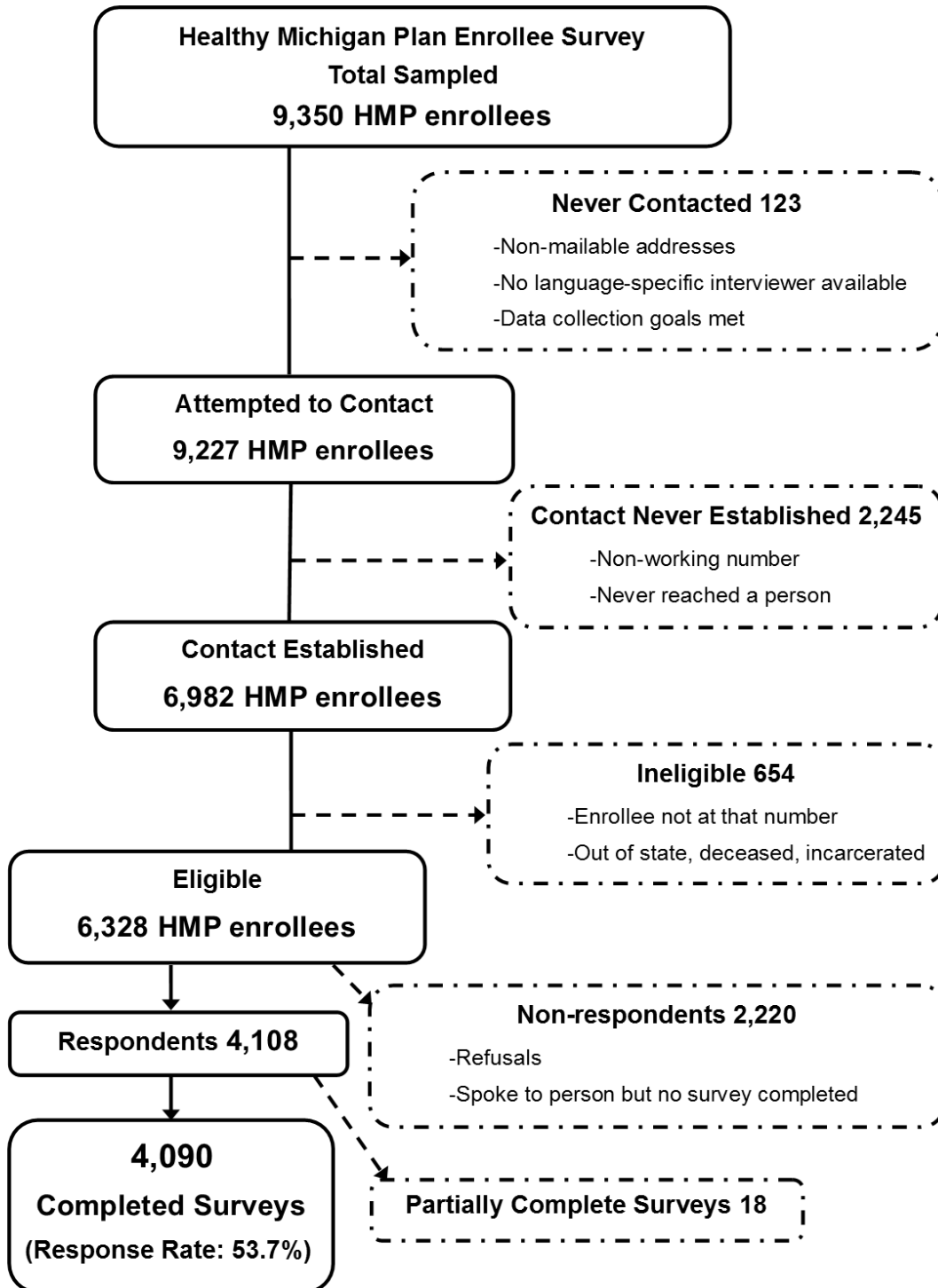
Definition: Number of deaths due to injury per 100,000 population

**Drug overdose rate**

Source: CDC WONDER mortality data 2012-2014

## Appendix D: Respondent/Non-respondent Flowchart

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## Appendix E: 2016 HMV Enrollee Survey Instrument

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### Healthy Michigan Voices Survey OPERATIONALIZED VERSION – Use for Programming the CATI System

First of all, I'd like to confirm that I'm talking with the right person.

I have you born in [DOB MonthYear autofilled] Is that correct? Record info \_\_\_\_\_

I have you listed as enrolled in [plan auto-filled] Is that correct? Yes/No

[If not the same] Do you know the name of your health plan now? Record info \_\_\_\_\_

And you first enrolled in the Healthy Michigan Plan in about [HMP first month/year autofilled]. Does that sound about right? Record info

[If not the same – establish first month]

For these first few questions, I am going to ask you to think back to the 12 months before you enrolled in the Healthy Michigan Plan.

1. During the 12 months BEFORE you enrolled in the Healthy Michigan Plan, did you have any type of health insurance at any time? Yes/No

If YES:

a) Did you have health insurance for: all 12 mos, 6-11 mos, Less than 6 months; Not at all.

b)

c) What type of health insurance did you have? Was it:

1. Private insurance provided through a job or union

2. Private insurance purchased by you or someone else

a. If YES: Was this insurance purchased on the healthcare.gov exchange?

i. If YES: Did you receive a subsidy?

3. Medicaid, MiChild, or other state health program that pays for health care

4. Veterans Administration or VA care

5. Some other type of insurance

• CHAMPUS, TRICARE

• Medicare

• County health plan

• Other: Record info \_\_\_\_\_

2. **During the 12 months BEFORE you were enrolled** in the Healthy Michigan Plan, about how much did you spend out-of-pocket for your own medical and dental care? Record \$ \_\_\_\_\_ / don't know

**If DON'T KNOW:** I'll read some categories, and you stop me when I get to the amount:

less than \$50, from \$51-100, \$101-500, \$501 to \$2,000, \$2,001 to \$3,000, \$3,001 to \$5,000, or more than \$5,000?

Prompt if questions/difficulty answering: (1) Your best estimate is fine. (2) Include anything paid for prescription drugs, co-payments, insurance premiums and deductibles. Do not include anything paid by your health insurance.

3. **In the 12 months BEFORE enrolling** in the Healthy Michigan Plan, did you have problems paying medical bills? Yes/No

**If YES:**

Because of these problems paying medical bills, have you or your family...

- a) Been contacted by a collections agency? Yes/No
- b) Thought about filing for bankruptcy? Yes/No  
If YES: Did you file for bankruptcy? Yes/ No
- c) **Since enrolling in Healthy Michigan**, have your problems paying medical bills gotten worse, stayed the same, or gotten better?

4. **In the 12 months BEFORE enrolling** in the Healthy Michigan Plan, was there a place that you usually would go for a checkup, when you felt sick, or when you wanted advice about your health? Yes/No / Don't know/NA-didn't need care

- a) **If YES** What kind of a place was it? a clinic, doctor's office, urgent care or walk-in clinic, emergency room, or other place \_\_\_\_\_

**INTERVIEWER NOTE:** If respondent says there was more than one place: "Think about the place you went most often. What kind of place was it."

5. **In the 12 months BEFORE enrolling** in the Healthy Michigan Plan, was there any time when you didn't get the *health care* you needed? Yes/No

**If YES:** Why didn't you get the care you needed?

*If not already described:* I'm going to read some options; let me know if any apply to you.

- You were worried about the cost
- You did not have health insurance
- The doctor or hospital wouldn't accept your health insurance
- Your health plan wouldn't pay for the treatment
- You couldn't get an appointment soon enough
- You didn't have transportation

*Now I'm going to ask about your recent experiences getting health care – while you have been enrolled in the Healthy Michigan Plan.*

6. **In the last 12 months**, is there a place you usually go when you need a checkup, feel sick, or want advice about your health? Yes/ No/ Don't know/NA – haven't gotten care

**If YES to 8**

- a) What kind of a place was it? a clinic, doctor's office, urgent care/walk-in clinic, emergency room, other



INTERVIEWER NOTE: If respondent says there was more than one place: "Think about the place you went most often. What kind of place was it."

If clinic or doctor's office:

- b) Is this the same place than where you went **before you enrolled** in Healthy Michigan? Yes/No
- c) And is this your **primary care provider** for your Healthy Michigan Plan Coverage? Yes/No  
If YES then SKIP to Q9

IF Q8=URGENT CARE/WALK-IN, EMERGENCY ROOM, N/A no care OR if Q8C=No

7. Do you have a **primary care provider** through your Healthy Michigan Plan coverage? Yes/No

If YES:

- a. Did you choose your primary care provider or did your health plan assign you to one?  
Chose /Plan assigned

8. If YES to 8c or 9a: Have you seen your primary care provider in the past 12 months? (Yes/ No/Don't know)

If NO: Why have you NOT seen your primary care provider? (open-ended, check all that apply)

- Healthy/didn't need to see doctor
- Couldn't get appointment
- Transportation difficulties/too far
- Don't like doctor/staff
- See a specialist instead
- Inconvenient hours
- Don't like doctors in general
- Record other response \_\_\_\_\_

If YES to Q10:

- a) Did you and the primary care provider talk about things you can do to be healthy and prevent medical problems? Yes/No/DK
- b) **In the last 12 months**, when you felt sick or wanted advice about your health, how easy or difficult was it to get an appointment to see your primary care provider? Would you say: Very easy/Easy/Neutral/ Difficult/Very Difficult)

If DIFFICULT OR VERY DIFFICULT:

a) What made it difficult? (open-ended, check all that apply)

- Couldn't get through on the telephone
- Couldn't get an appointment soon enough
- Inconvenient hours
- Transportation
- Record other response \_\_\_\_\_

9. Before you enrolled in the Healthy Michigan Plan, about how long had it been since you had a primary care visit?

- a) < 1 year [before HMP]

- 1-5 years
- >5 years

Now I'm going to ask about your health.

10. In general, would you say your health is: Excellent; Very Good; Good; Fair; OR Poor
11. Now thinking about your physical health, which includes physical illness and injury: for how many days during the past 30 days was your physical health not good? \_\_\_\_\_
12. Overall, since you enrolled in the Healthy Michigan Plan, would you say your physical health has gotten better, stayed the same, OR gotten worse?
13. Now thinking about your mental health, which includes stress, depression, and problems with emotions: for how many days during the past 30 days was your mental health not good? \_\_\_\_\_
14. Overall, since you enrolled in the Healthy Michigan Plan, would you say your mental and emotional health has gotten better, stayed the same, OR gotten worse?
15. During the past 30 days, for how many days did poor physical or mental health keep you from doing your usual activities, such as self-care, work, or recreation? \_\_\_\_\_
16. Thinking about your dental health, since you enrolled in the Healthy Michigan Plan, has the health of your teeth and gums gotten better, stayed the same, OR gotten worse?
17. How tall are you without shoes? \_\_\_\_\_
18. How much do you weigh without shoes? \_\_\_\_\_
19. Compared to 12 months ago, how would you describe your weight? Have you lost weight; gained weight; or stayed about the same
20. How often do you need to have someone help you read instructions, pamphlets, or other written material from a doctor, pharmacy or health plan? Never /Rarely/Sometimes/Often/Always
21. Next I'm going to ask about different categories of health care. Tell me if your ability to get that type of care through the Healthy Michigan Plan is better, worse, or about the same, compared to before you had Healthy Michigan Plan. You can also say if you don't know, or if that type of care doesn't apply to you. The first one is primary care. Would you say that your ability to get primary care through the Healthy Michigan Plan is better, worse or about the same, compared to before.
  - a) Primary care: better/worse/same; not applicable, don't know
  - b) Specialist care: better/worse/same; not applicable, don't know
  - c) Dental care: better/worse/same; not applicable, don't know
  - d) Mental health care: better/worse/same; not applicable, don't know
  - e) Substance use treatment services: better/worse/same; not applicable, don't know
  - f) Prescription medications: better/worse/same; not applicable, don't know
  - g) Cancer screening: better/worse/same; not applicable, don't know
  - h) Help with staying healthy or preventing health problems better/worse/same; not applicable, don't know
  - i) Birth control/ Family planning services better/worse/same, not applicable, don't know

22. Has a doctor or other health professional ever told you that you had any of the following?
- Hypertension, also called high blood pressure? Yes/No
  - A heart condition or heart disease? Yes/No
  - Diabetes or sugar diabetes (other than during pregnancy)? Yes/No
  - Cancer, other than skin cancer? Yes/No
  - A mood disorder, (For example, depression, anxiety, bipolar disorder)? Yes/No
  - A stroke? Yes/No
  - Asthma? Yes/No
  - Chronic bronchitis, COPD or emphysema? Yes/No
  - A substance use disorder? Yes/No
  - Any other ongoing health condition that can be controlled but not cured? Yes/No If YES: What is the condition? \_\_\_\_\_

**For each condition, if YES:** Did you find out you had [autofill condition from Q22] before or after you enrolled in the Healthy Michigan Plan?

*The next questions are about things people do that can affect their health. This is sometimes called a Health Risk Assessment*

23. In the last 7 days, how many days did you exercise for at least 20 minutes? **Read categories if needed:**  
Every day; 3-6 days; 1-2 days; 0 days
24. In the last 7 days, how many days did you drink sugary drinks like soda or pop, sweetened fruit drinks, sports drinks, or energy drinks? (Do not include diet soda) **Read if needed:** Every day 3-6 days 1-2 days 0 days
25. In the last 7 days, how many days did you eat 3 or more servings of fruits or vegetables in a day?  
**Read if needed:** Every day 3-6 days 1-2 days 0 days
26. In the last 12 months, has a doctor, nurse, or other health professional talked with you about exercise?  
Yes/ No
27. In the last 12 months, has a doctor, nurse, or other health professional talked with you about diet and nutrition? Yes/ No
28. In the last 7 days, how many days did you have (autofill 5 or more for men, 4 or more for women) alcoholic drinks? **Read if needed:** Every day 3-6 days 1-2 days 0 days

**If Q28=ANY RESPONSE OTHER THAN 0 days:** In the last 12 months, has a doctor, nurse, or other health professional talked with you about safe alcohol use? Yes/No

29. In the last 30 days have you smoked or used tobacco? Yes /No  
**If YES:** Do you want to quit smoking or using tobacco? Yes/No  
**If Yes** Are you working on cutting back or quitting right now? Yes/No
- In the last 12 months, did you receive any advice or assistance from a health professional or your health plan on HOW to quit smoking? Yes/No/Don't know

30. In the last 30 days, have you used drugs or medications to affect your mood or help you relax? This includes prescription drugs taken differently than how you were told to take them, as well as street drugs. Yes/No

If YES: How often? Almost every day/Sometimes/Rarely/Never

**IF ALMOST EVERY DAY OR SOMETIMES:** In the last 12 months, has a doctor, nurse, or other health professional talked with you about your use of these drugs or medications? Yes/N

31. Since July 1, 2015, have you had a flu vaccine? Yes/No

32. Many people answered these questions, called a Health Risk Assessment, either on the phone when they enrolled in the Healthy Michigan Plan, or at a primary care visit, or both. Do you remember completing the Health Risk Assessment? Yes/No/Don't know

**If YES:** What led you to complete it? \_\_\_\_\_ (open-ended, check any mentioned)

- PCP suggested
- Got it in mail – f/u Q:
- At enrollment on the phone – f/u Q:
- Gift card/money/reward
- Health plan suggested
- To save money on copays/cost-sharing
- To stay on top of my health (anything related to staying healthy)
- Other \_\_\_\_\_

**If 32a response is “got it in mail” or “at enrollment on phone”:**

b) Did you take the form to your primary care provider? Yes/No

*For the following statements about the Health Risk Assessment, tell me if you strongly agree, agree, are neutral, disagree, or strongly disagree.*

33. I think doing the Health Risk Assessment was valuable for me to improve my health. SA/A/N/D/SD

34. I think doing the Health Risk Assessment was helpful for my primary care provider to understand my health needs. SA/A/N/D/SD

35. I know what I need to do to be healthy, so the Health Risk Assessment wasn't that helpful. SA/A/N/D/SD

36. After going through the Health Risk Assessment, or at a primary care visit, did you choose to work on a healthy behavior or do something good for your health? Yes/No/Don't know

**INTERVIEWER NOTE:** Prompt with: It could have been something like trying to exercise or eat better, quit smoking, get a flu shot, those types of things.

If YES: What did you choose to do? (open ended-check all mentioned)

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Exercise/activity</li> <li>• Nutrition/diet</li> <li>• Lose weight</li> <li>• Reduce/quit tobacco use</li> <li>• Flu shot</li> <li>• Reduce/quit alcohol consumption</li> <li>• Treatment for substance use disorder</li> </ul> | <ul style="list-style-type: none"> <li>• Take medicine regularly</li> <li>• Monitor my blood pressure/blood sugar</li> <li>• Go to the dentist</li> <li>• Follow-up appointment for chronic disease</li> <li>• Other _____</li> </ul> |
|--|---|

b) Did your health care provider or health plan help you work on this healthy behavior?  
Yes/No/Don't know/NA-didn't need help

b) Was there help that you wanted that you didn't get? Yes/No/Don't know/NA  
**If YES:** What help did you want that you didn't get? **(open-ended; record)**

37. Sometimes people need health care help or advice when their usual clinic or doctor's office is closed. In the last 12 months was there a time when you needed help or advice when your usual clinic or doctor's office was closed? Yes/No

**If YES:** In the most recent case, did you try to contact your provider's office after they were closed to get help or advice?

**If YES to a:** Were you able to talk to someone? Yes/ No

**If NO to Contact:** Why didn't you try to contact your provider's office? **(open-ended)**

- It was closed
- I felt it was an Emergency and went to ER/called 911
- Decided to wait to see if condition resolved,
- Unsure how to contact provider;
- Other **(record)** \_\_\_\_\_

### **Emergency Department Use**

38. **During the past 12 months**, did you go to a hospital emergency room about your own health (whether or not you were admitted overnight)? Yes/No **If 38=NO, skip to Q43**

39. Thinking about the last time you were at the emergency room, did you think your problem needed to be handled in the emergency room? Yes/No

40. Thinking about the last time you were at the emergency room, did you try to contact your usual provider's office before going to the emergency room? Yes/No

**If 40=YES:**

- a) Did you talk to someone? Yes/No
- b) Why did you end up going to the ER? **(open-ended, check any mentioned)**
  - No response from the provider
  - Provider said go to the ER
  - Provider advice wasn't helpful
  - Symptoms didn't improve or got worse
  - You couldn't get an appointment soon enough
  - Other **(record)** \_\_\_\_\_

**If 40=NO**

41. Which of these were true of this particular ER visit?

- a) You arrived by ambulance or other emergency vehicle; (Yes/No/Don't know)

- b) You went to the ER because it's your closest place to receive care; (Yes/No/Don't know)
- c) You went to the ER because you get most of your care at the emergency room; (Yes/No/Don't know)
- d) The problem was too serious for a doctor's office or clinic (Yes/No/Don't know)
- e) Your doctor's office or clinic was not open (Yes/No/Don't know)
- f) You needed to get care at a time that would not make you miss work or school (Yes/No/Don't know)
- g) Any other reason you decided to go to the ER? (**record**) \_\_\_\_\_

42. Compared to before you had the Healthy Michigan Plan, are you (more likely, less likely, OR about as likely) to contact your usual doctor's office before going to the emergency room?

*Now I'm going to ask you some questions about your Healthy Michigan coverage.*

43. Have you had any questions or problems **using** your Healthy Michigan Plan insurance? Yes/ No  
**INTERVIEWER NOTE: If questioned: Like knowing what provider you can go to, how much you have to pay, or whether something is covered.)**

**If YES:** Did anyone give you help or advice? Yes/ No

**If YES:** Who helped you? (**open-ended; mark anything mentioned**)

- Helpline (undistinguished)
- HMP Beneficiary Hotline (Toll free # on the back of the MiHealth card)
- Health Plan Hotline (Toll free # on back of health plan card)
- Friend/relative
- Community health worker (Promotora)
- Someone at my doctor's office
- Other (**record**) \_\_\_\_\_

Did you get an answer or solution to your question(s)? Yes/No

44. Have you received a bill or statement from the state that showed the services you received and how much you owe for the Healthy Michigan Plan? It's called your MI Health Account Statement. Yes/No/Not sure

**INTERVIEWER NOTE: You should get one of these statements in the mail every few months, even if you don't owe anything. Do you remember anything like that?**

**If No/Not sure to Q45, SKIP to Q47**

45. For the following statements, tell me if you strongly agree, agree, are neutral, disagree, or strongly disagree.

- a) I carefully review each MI Health Account statement to see how much I owe;
- b) The MI Health Account statements help me be more aware of the cost of health care;
- c) Information I saw in a MI Health Account statement led me to change some of my decisions about health care

46. *Still SA/A/N/D/SD.*

- a) The amount I have to pay overall for the Healthy Michigan Plan seems fair.
- b) The amount I pay for the Healthy Michigan Plan is affordable.
- c) I'd rather take some responsibility to pay something for my health care than not pay anything.
- d) It is very important to me personally to have health insurance.
- e) The amount I might have to pay for my prescription influences my decisions about filling prescriptions.
- f) Information about the healthy behavior rewards that I can earn has led me to do something I might not have done otherwise
- g) I don't worry as much about something bad happening to my health since enrolling in the Healthy Michigan Plan.
- h) Having the Healthy Michigan Plan has taken a lot of stress off me.
- i) Without the Healthy Michigan Plan, I wouldn't be able to go to the doctor.
- j) Having the Healthy Michigan Plan has helped me live a better life.

*For these next statements about the Healthy Michigan Plan coverage and costs: if you think the statement is correct, say "yes." If you think it is incorrect, say "no." If you don't know, say "don't know".*

47. My Healthy Michigan Plan covers routine dental visits.

48. My Healthy Michigan Plan covers eyeglasses.

49. My Healthy Michigan Plan covers counseling for mental or emotional problems.

50. Only generic medicines are covered by my Healthy Michigan Plan.

51. Contributions are what I am charged every month for Healthy Michigan Plan coverage even if I do not use any health care.

52. There is no limit or maximum on the amount I might have to pay in copays or contributions.

53. I could be dropped from the Healthy Michigan Plan for not paying my bill.

54. I may get a reduction in the amount I might have to pay if I complete a health risk assessment.

55. Some kinds of visits, tests and medicines have no copays.

56. Please tell me how likely you are to do the following: The choices are very likely/somewhat likely/somewhat unlikely/very unlikely.

- a) Find out what you might have to pay for a health service before you go to get it.
- b) Talk with your doctor about how much different health care options would cost you.
- c) Ask your doctor to recommend a less costly prescription drug
- d) Check reviews or ratings of quality before choosing a doctor or hospital.



57. **In the last 12 months**, about how much did you spend out-of-pocket for your own medical and dental care? Record \$ \_\_\_\_\_ / don't know

**If DON'T KNOW:** I'll read some categories, and you stop me when I get to the amount you think is about right. less than \$50, \$51-100, \$101-500, \$501 to \$2,000, \$2,001 to \$3,000, \$3,001 to \$5,000; more than \$5,000

**INTERVIEWER NOTE:** (1) Your best estimate is fine. (2) Include anything paid for prescription drugs, co-payments, insurance premiums and deductibles. Do not include anything paid by your health insurance.

58. **In the last 12 months**, was there any time when you didn't get the medical or dental care you needed? Yes/No

**If YES:**

- a) Why didn't you get the care you needed? I'm going to read some options; let me know if any apply to you. **(Read all and code all that apply)**
1. You were worried about the cost
  2. You did not have health insurance
  3. The doctor or hospital wouldn't accept your health insurance
  4. Your health plan wouldn't pay for the treatment
  5. You couldn't get an appointment soon enough
  6. You didn't have transportation
  7. Other **(record)** \_\_\_\_\_

**If YES to Q59a/1, 2, 3 or 4:**

- b) Was there any time in the last 12 months when you needed or wanted any of the following but could not afford it?
1. A checkup, physical or wellness visit; Yes/No.
  2. To see a specialist; Yes/No.
  3. Mental health care or counseling; Yes/No.
  4. Substance use treatment services; Yes/No.
  5. Prescription medication [not over the counter] Yes/No
  6. Dental care (including check-ups); Yes/No.

*Next we have just a few questions about you.*

59. What is your current job status. Are you currently...?  
Employed or Self-employed; Out of work for 1 year or more; Out of work for less than 1 year; A Homemaker; A Student; Retired; Unable to work

**If a STUDENT:**

- a) **In the past 12 months**...about how many days did you miss school because of illness or injury (do not include maternity leave)? \_\_\_\_\_
- b) Compared to the 12 months before this time, was this more, less, or about the same?

**If EMPLOYED/SELF-EMPLOYED, OR OUT OF WORK FOR LESS THAN 1 YEAR:**

c) **In the past 12 months**...about how many days did you miss work because of illness or injury (do not include maternity leave)? \_\_\_\_\_

d) Compared to the 12 months before this time, was this more, less, or about the same?

**IF EMPLOYED/SELF-EMPLOYED:**

e) Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work? Yes/No

f) Have you changed jobs in the last 12 months? Yes/No

**If YES:** How much do you agree or disagree with the following statement: Having health insurance through the Healthy Michigan Plan helped me get a better job. SA/A/N/D/SD

**IF OUT OF WORK FOR LESS THAN OR MORE THAN A YEAR:**

g) How much do you agree or disagree with the following statement: Having health insurance through the Healthy Michigan Plan has made me better able to look for a job. Strongly agree/agree/neutral/disagree/strongly disagree

**IF A HOMEMAKER; RETIRED; UNABLE TO WORK:**

h) **In the past 12 months**...about how many days were you unable to do your activities because of illness or injury? \_\_\_\_\_

i) Compared to the 12 months before this time, was this more, less, or about the same?

60. How often do you get together socially with friends or relatives who live outside your home? Every day/Every few days/Every week/Every month/Once a year or less

61. Since enrolling in the Healthy Michigan Plan, are you involved with your family, friends or community more/less/about the same?

62. Now, thinking about all of the experiences you have had with health care in the last 12 months, have you ever felt that a doctor or medical staff judged you unfairly or treated you with disrespect because of...

a) Your race or ethnic background Yes/No/Don't know

b) How well you speak English Yes/No/Don't know

c) Your ability to pay for care or the type of health insurance you have Yes/No/Don't know

63. Are you Hispanic or Latino? Yes/No

64. Are you of Arab or Chaldean or Middle Eastern descent? Yes/No

65. What race or races do you consider yourself to be? **(open question, check all that they mention)**

1.White 2.Black or African American 3.American Indian or Alaska Native 4. Asian: Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese, Other Asian 5.Pacific Islander: Native Hawaiian, Guamanian or Chamorro, Samoan, Other Pacific Islander

66. Are you... 1. Married 2. Partnered, 3. Divorced, 4. Widowed, 4. Separated, 5. Never Married

67. Is anyone else in your household enrolled in the Healthy Michigan Plan? Yes/No

68. Are you a Veteran of the U.S. Military Armed Forces? Yes/No

69. Would you like to add anything else about the Healthy Michigan Plan?

**Record response** \_\_\_\_\_

### **Contact information**

That's the end of the survey. Can you just confirm your address so we can send your gift card:  
[AUTO FILL address]

You should receive the gift card in 1-3 weeks at that address.

We may be conducting a few follow-up surveys. Would you be willing to have us recontact you for those? We're just asking for contact information – you can decide at that time if you'd like to participate.  
Yes/No

**If YES:** I already have your mail address.

Is this the best phone number to call you? *Yes/Better number:* \_\_\_\_\_

Can this number get text messages? Yes/No

Is there an email address we can use you to contact you? \_\_\_\_\_

Thanks so much for talking with me today! Look for your gift card in 1-3 weeks.

# Report on the 2016 Healthy Michigan Voices Enrollee Survey: Supplemental Analyses

January 17, 2018

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## Introduction

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The University of Michigan Institute for Healthcare Policy & Innovation (IHPI) is conducting the evaluation of the Healthy Michigan Plan (HMP) as required by the Centers for Medicare & Medicaid Services (CMS) through a contract with the Michigan Department of Health and Human Services (MDHHS). Domain IV of the evaluation includes a series of surveys called *Healthy Michigan Voices*. This report presents supplementary findings from the 2016 *Healthy Michigan Voices* survey of individuals who were currently enrolled in HMP and who had at least 12 months total HMP enrollment, conducted during January-November 2016.

Supplemental analyses were conducted to further explore relationships between select variables of interest, including those using claims data, in order to describe relationships between enrollees' utilization of healthcare services and their survey responses. For all analyses of bivariate and multivariate relationships, the types of analyses, models, variables included and how they are defined or measured are described in detail in Appendices A and B of this report. The specific tests are described in the table footnotes.

## Supplemental Analyses Results

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### Section 1: Impact of pre-HMP insurance status on improvements in forgone care, access, and health

#### *Relationship between pre-HMP insurance status and forgone care, health status*

Enrollees without health insurance for any of the 12 months prior to HMP enrollment were about twice as likely to have forgone care during those 12 months (42.0% vs. 21.6%) as those who had insurance at some time during those 12 months (see Appendix A Table 1.1).

#### *Relationship between pre-HMP insurance status and forgone care, access to services, change in health, worry and stress*

Those who were insured all 12 months prior to enrollment in HMP were significantly less likely to report forgone care or forgone care due to cost during the 12 months prior to enrollment in HMP (see Appendix A Table 1.2a and 1.2b).

Respondents who lacked insurance for all 12 months before enrollment in HMP were significantly more likely than those who were insured all 12 months to report improvement in access to prescription medications, primary care, help with staying healthy, dental care, specialist care, mental health care, and cancer screening since enrollment in HMP. Compared to those with no insurance during the 12 months prior to HMP, individuals with some insurance were less likely to report improvements in access to primary care, specialty care, and cancer screening (see Appendix A Table 1.2a and 1.2b).

Respondents who had health insurance for all 12 months prior to enrollment in HMP were less likely to report improvement in mental, physical and dental health (see Appendix A Table 1.2a and 1.2b).

Those who lacked health insurance for the 12 months prior to enrollment in HMP were more likely to agree that they had less stress or worry about their health since enrollment in HMP (see Appendix A Table 1.2a and 1.2b).

## **Section 2: Primary care and use of preventive services**

### ***Receipt of preventive care***

Of enrollees who met criteria for breast, cervical, or colorectal cancer screening based on age and/or gender, rates of breast cancer screening were highest (71.7%) and colorectal cancer screening lowest (41.6%) based on claims data. More than half (53.9%) of women had cervical cancer screening (see Appendix A Table 2.1).

Nearly all (86.8%) enrollees had at least one preventive service based on claims data. More than half (59.5%) of enrollees had at least one dental visit, 43.9% had a vaccination, 32.5% had a flu vaccine, 18.0% of enrollees filled a prescription for a statin, and 11.3% of all enrollees filled a prescription for smoking cessation (see Appendix A Table 2.1).

### ***Relationship between enrollee knowledge about copays and incentives and use of preventive services***

Enrollee knowledge that some services have no copayments was significantly associated with greater utilization of all preventive services examined, with the exception of vaccinations other than flu and pneumonia, Diabetes Prevention Programs, and nutrition services (for which there were few claims in total). Of those who knew some services had no copays, 88.6% received at least one preventive service, compared to 81.6% of those who did not know (see Appendix A Table 2.2).

Enrollee knowledge that completing a Health Risk Assessment (HRA) could result in lower fees was not associated with any preventive service use (see Appendix A Table 2.2).

### ***Perceived impact of healthy behavior rewards and use of preventive services***

Enrollees who agreed that healthy behavior rewards affected their behavior seemed to have a greater likelihood of filling a prescription for a statin, but a lesser likelihood of filling a prescription for smoking cessation (see Appendix A Table 2.3).

### ***Relationship between primary care visit and use of preventive services***

Enrollees with a self-reported primary care visit in the past 12 months of HMP enrollment, or a primary care visit in their claims, were significantly more likely than enrollees without a visit to have claims for nearly all preventive services we examined when adjusted for demographic and

health variables, with the exception of nutrition services, Diabetes Prevention Programs, and pneumonia vaccines (see Appendix A Table 2.4a and 2.4b).

Over 90% of those with a primary care visit (self-reported or based on claims) had a claim for a preventive service (see Appendix A Table 2.4a and 2.4b).

### ***Demographic and health predictors of primary care visits in previous 12 months***

Older enrollees, women, white enrollees, those in worse health or with a chronic condition, and those who live in rural areas were more likely to report a primary care visit and to have a primary care visit claim (see Appendix A Table 2.6).

Neither self-reported primary care visits nor claims for primary care visits differed on the basis of employment, ethnicity, partnership status, FPL group, or health literacy (see Appendix A Table 2.6).

### ***Relationship between primary care visit and improved access to health care***

Enrollees who reported having a primary care visit were significantly more likely than those who did not to report improved access to help with staying healthy, dental care, specialty care and cancer screening, but not more likely to report improved access to mental health care (see Appendix A Table 2.7).

### ***Relationship between primary care visit and HRA completion, health behavior counseling***

Enrollees who reported having a primary care visit, or had a primary care visit in claims, were significantly more likely to report completing an HRA (see Appendix A Table 2.8).

Enrollees who reported having a primary care visit, or had a primary care visit in claims, were 3-4 times more likely to report being counseled about exercise, nutrition, tobacco cessation, or alcohol use (see Appendix A Table 2.8).

Enrollees who reported having a primary care visit, or had a primary care visit in claims, were more likely to report a new diagnosis of a chronic condition after HMP enrollment (see Appendix A Table 2.8).

### ***Predictors of claims-based smoking cessation prescriptions***

About one-third (37.7% of HMP survey respondents reported smoking or using tobacco in the last 30 days. (See STC report Appendix A Tables 4.45-4.47). About one-quarter (24.3%) of those who reported tobacco use in the past month filled a prescription for smoking cessation in the previous 12 months (see Appendix A Table 2.9a).



Nearly 100 respondents who had a claim for a prescription for smoking cessation in the year before the survey (18.2% of those with such claims) reported not smoking in the past 30 days (see Appendix A Table 2.9a).

Of those who said they chose to reduce or quit tobacco on the HRA, 33.0% had a claim for a prescription for smoking cessation. Those who reported choosing to quit using tobacco were six times more likely than other smokers to have a claim for a smoking cessation prescription (see Appendix A Table 2.9b).

Older respondents, those with poorer health or a chronic condition, and those with a self-reported or claims-based primary visit were more likely to have a claim for a smoking cessation prescription (see Appendix A Table 2.5k).

### ***Predictors of claims-based participation in Diabetes Prevention Program***

Those with a chronic condition were more likely to have a claim for a Diabetes Prevention Program, after controlling for demographics and any primary care visit (aOR=8.5) (see Appendix A Table 2.5e).

### ***Predictors of claims-based use of nutrition services***

Very few (2.1%) respondents had a claim for any nutrition service (Appendix A Table 2.1). Those who chose improved nutrition or losing weight on the HRA were not statistically more likely to have a nutrition service claim, although the small number of nutrition claims limited our ability to precisely measure associations between this outcome and other factors (see Appendix A Table 2.5g).

### ***Predictors of claims-based receipt of STI testing***

Those who reported seeing a PCP in the past 12 months were more likely to have a claim for testing for sexually transmitted infection (excluding HPV) (see Appendix A Table 2.5i).

Women, Black or African American enrollees, urban residents and those reporting a chronic condition were more likely to have a claim for STI testing (excluding HPV) (see Appendix A Table 2.5i).

## **Section 3: Health risk assessment completion**

### ***HRA completion for HMV respondents***

While 57.3% of HMV respondents had some HRA record in the Data Warehouse, only 31.3% had an HRA record with physician attestation, signaling completion of the HRA process. Almost half of those who reported in the survey, that they did NOT complete an HRA had an HRA record in the data warehouse, although only 18.8% had an HRA record with physician attestation. Those who recalled completing an HRA were more likely to have any HRA record

(68.3%) and to have an HRA record with physician attestation (44.1%) (see Appendix A Table 3.1).

### ***Demographic predictors of Data Warehouse record of completed HRA***

Older respondents, White enrollees, and those who reported seeing a PCP in the past 12 months were more likely to have an HRA record with physician attestation (see Appendix A Table 3.2).

### ***Demographic predictors of self-reported HRA completion***

Hispanics/Latinos, those of Arab/Chaldean/Middle Eastern descent, those with a preferred language of Arabic and urban residents were less likely to report completing an HRA. Those who reported seeing a PCP in the past 12 months were more likely to report completing an HRA (see Appendix A Table 3.3).

## **Section 4: Health behaviors**

### ***Relationship between frequency of social connections and health behaviors***

Of enrollees who connected with friends or relatives outside their home every day, 73.6% exercised at least 3 days in the previous week and 13.8% had not exercised at all. Of those who connected socially once a year or less, 64.7% exercised at least 3 times in the previous week, and 22.7% had not exercised at all (see Appendix A Table 4.1).

Of enrollees who connected with friends or relatives outside their home every day, 2.7% reported unsafe alcohol use every day and 79.2% reported no unsafe alcohol use during the previous week (see Appendix A Table 4.1).

Of those who connected socially once a month or less, nearly all (85.2% and 82.8%) reported no episodes of unsafe alcohol use in the previous week (see Appendix A Table 4.1).

### ***Relationship between change in frequency of social connections and health behaviors***

Enrollees who reported being less involved with family, friends and community since enrollment in HMP (4.4%) were more likely to report no exercise (33.1%) compared to those who reported being more involved (16.0%) or involved about the same (17.8%) (see Appendix A Table 4.2).

Enrollee reports of changes in involvement with family, friends and community had no relationship with the frequency of unsafe alcohol use (see Appendix A Table 4.2).

## **Section 5: Emergency department utilization**

### ***Characteristics of emergency department utilization***

Enrollees who were younger, female, and resided in regions with a higher proportion of uninsured were more likely to self-report any ER visits in the past 12 months. Other factors that were significantly associated with any self-reported ER use were a greater number of outpatient visits, 2 or more chronic conditions, a mental health or substance use disorder condition, fair or poor health, or perceived discrimination related to their insurance or ability to pay. The strongest predictors of self-reported ER use were a mental health/substance use diagnosis (aOR=1.71), 2 or more chronic conditions (aOR=1.71), experience of discrimination due to insurance/ability to pay (aOR=1.55) and fair/poor health status (aOR=1.46) (see Appendix A Table 5.1a).

Enrollees with at least one ER visit in the past 12 months, as defined by claims, were younger, female, had lower incomes, and lived in regions with a lower proportion of college-educated individuals. Enrollees with at least one ER visit were more likely to have 2 or more chronic conditions (aOR=1.79), mental health or substance use disorders (aOR=1.93) and more outpatient visits (aOR=1.07). They also were more likely to report perceived discrimination related to their insurance or ability to pay (aOR=1.39). Enrollees were less likely to have an ER visit in claims if their regular source of care was a clinic or doctor's office (aOR=0.73) (see Appendix A Table 5.1a).

Enrollees who were younger, female, had lower incomes, 2 or more chronic conditions, a mental health or substance use disorder condition and had more outpatient visits (based on claims) had a greater number of ER visits (by claims assessment). Enrollees who reported fair/poor health or perceived discrimination related to their insurance or ability to pay also had more ER visits. However, enrollees with a clinic or doctor's office as their regular source of care had fewer ER visits (see Appendix A Table 5.1b).

Enrollees who were younger, female, had lower incomes, 2 or more chronic conditions, a mental health or substance use disorder condition, and more outpatient visits were likely to have a greater number of high-complexity ER visits (by claims assessment). Enrollees who reported perceived discrimination related to their insurance or ability to pay, fair/poor health, and improved access to prescription medications were also likely to have a greater number of high-complexity ER visits (see Appendix A Table 5.1b).

Enrollees had a greater number of medium to low-complexity ER visits (by claims assessment) if they were younger, female, had 2 or more chronic conditions, or a mental health or substance use disorder condition, or if they reported perceived discrimination related to their health insurance or ability to pay. Enrollees with a clinic or doctor's office as their regular source of care had fewer medium/low-complexity ER visits (see Appendix A Table 5.1b).

## **Section 6: Impact of HMP premium contributions on cost-conscious behaviors**

### *Engagement in cost-conscious behaviors among subgroups of HMP enrollees*

Enrollees with incomes 100 to 133% of the FPL, and therefore subject to monthly contributions, were no more likely than enrollees with incomes 36 to 99% of the FPL who are not subject to monthly premium contributions to agree they carefully review their MI Health Account

statements (86.0% vs. 88.7%), inquire about costs of services before getting them (70.4% vs. 72.9%), talk to providers about costs of health services (67.8 vs. 68.6%), or ask for less costly medications (77.0% vs. 78.2%).

Enrollees age 51-64 were more likely than those age 19-34 to report carefully reviewing MI Health Account statements, enrollees with forgone care due to cost in the 12 months before HMP enrollment were more likely to inquire about costs of services before getting them, and enrollees from the UP/NW/NE region were less likely than enrollees from other regions in Michigan to check reviews or ratings of quality before seeking care. Women were more likely than men to find out the costs of services before getting them, ask doctors about less costly drugs, and check reviews or ratings of quality. Hispanic enrollees were less likely than non-Hispanic white enrollees to find out about costs of services before getting them, talk with doctors about costs, ask doctors about less costly drugs, or check reviews or ratings of quality (see Appendix A Table 6.2).

### *Health care affordability among subgroups of HMP enrollees*

Enrollees with incomes 100 to 133% of the FPL were less likely than enrollees with incomes 36 to 99% of the FPL without monthly premium contributions to agree their health care payments were affordable (84.9% vs. 90.8%), but were no more likely to report forgoing needed care due to cost in the past 12 months of HMP enrollment (10.4% vs. 12.0%).

Those with fair or poor health status were less likely than those with better health status to agree their payments were affordable, and were also more likely to report forgone care due to cost. Those with chronic conditions were also more likely than others to report forgone care due to cost (see Appendix A Table 6.3).

## **Section 7: Diagnosis and care of self-reported chronic health conditions among HMP enrollees**

### *Enrollee characteristics, by chronic health condition status*

Enrollees with chronic health conditions were more often older than 35 years old, White, and more often had an income of 0-35% FPL (see Appendix A Table 7.1).

Enrollees with chronic health conditions reported significant functional limitations in day to day life (24.4% reported they were physically limited in daily activities more than 14 of the last 30 days) more often than those without chronic health conditions (5.8%) (see Appendix A Table 7.1).

Over half (58.4%) of those with chronic health conditions had two or more chronic health conditions, 11.5% had four or more (see Appendix A Table 7.1).

Enrollees with chronic health conditions reported more days of poor health per month than those without chronic conditions, but also reported improved physical and mental health since

enrolling in HMP more often than enrollees without chronic health conditions (see Appendix A Table 7.1).

***Pre-HMP insurance status and access to care before and after HMP enrollment, by chronic health condition status***

Those with chronic conditions were more likely than those without chronic conditions to have a usual source of care in the 12 months prior to HMP enrollment, although they were equally likely to have gone more than 5 years without a PCP visit before HMP enrollment (see Appendix A Table 7.2).

More than half (51.9%) of enrollees with chronic conditions reported having problems paying medical bills in the 12 months prior to HMP enrollment, more often than those without chronic conditions, 29.7% of whom had trouble paying medical bills (see Appendix A Table 7.2).

After HMP enrollment, enrollees with chronic conditions reported seeing a PCP in the past 12 months more often than those without chronic conditions (89.8% vs. 75.5%), and more often reported a usual source of care in the past 12 months of HMP enrollment (95.2% vs. 85.8%) (see Appendix A Table 7.2).

***New chronic condition diagnosis since HMP enrollment, by pre-HMP insurance status and time since last PCP visit prior to HMP enrollment, among enrollees with chronic conditions***

Among enrollees with chronic disease, those reporting a new chronic disease diagnosis since enrolling in HMP were more likely to have lacked health insurance for all 12 months before enrollment (65.5% vs. 55.7%). However, 34.5% of those with a new diagnosis had health insurance some or all of the 12 months prior to HMP (see Appendix A Table 7.3a).

Among enrollees with chronic disease, those reporting a new chronic disease diagnosis since enrolling in HMP were less likely to have had a PCP visit in the 12 months prior to HMP enrollment (35.5% vs. 47.9%) than those reporting no new diagnoses since enrollment (see Appendix A Table 7.3b).

***Association between having a chronic health condition and improved physical and mental health after HMP enrollment, among all respondents***

Enrollees with chronic health conditions were significantly more likely to report improved physical and mental health status since HMP enrollment than enrollees without chronic health conditions, even when adjusted for other factors that can affect health status (see Appendix A Table 7.4).

***Associations between access to specific types of care and improved physical and mental health after HMP enrollment, among enrollees with chronic health conditions***

Among enrollees with chronic health conditions, when adjusted for other factors that can affect health status, seeing a PCP in the past 12 months of HMP enrollment and having improved access to prescription medications, were the strongest predictors of improved physical health since HMP enrollment (see Appendix A Table 7.5). Other significant predictors of improved physical health were improved access to specialty care and improved access to mental health care (see Appendix A Table 7.5).

Among enrollees with chronic health conditions, the strongest predictor of improved mental health in adjusted analyses was improved access to mental health care (aOR=3.40). Other significant predictors were improved access to prescription medications and improved access to specialty care, but not whether the enrollee saw a PCP in the past 12 months of HMP enrollment (see Appendix A Table 7.5).

## **Section 8: Diagnosis and care of chronic health conditions among HMP enrollees as measured by HEDIS criteria and claims-based diagnostic codes**

### **Chronic disease defined by HEDIS criteria**

In this section, the measure of chronic disease is defined by HEDIS criteria for asthma, cardiovascular disease, COPD or diabetes using claims data. See Appendix B for full definitions.

### ***Demographic and health characteristics for HMP enrollees with and without chronic disease defined by HEDIS criteria***

Compared to those with no chronic disease, individuals with one or more chronic conditions were more likely to be older, have an income of 0-35% FPL, report fair/poor health status, report functional impairment, and less likely to be of 'other' race or more than one race (see Appendix A Table 8.1).

Compared to those with no chronic disease, individuals with one or more chronic conditions were more likely to report that both their physical (56.7% vs. 45.2%), and mental health (41.5% vs. 37.3%) have gotten better since HMP enrollment (see Appendix A Table 8.1).

### ***Differences in access to care among HMP enrollees with and without chronic disease defined by HEDIS criteria before and after HMP***

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to have seen a PCP in the 12 months preceding their response to the survey (46.6% vs. 38.8%) (see Appendix A Table 8.2).

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to report a usual source of care (80.2% vs. 71.8%) in the 12 months prior to HMP enrollment (see Appendix A Table 8.2).

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to report that their usual source of care was a clinic (20.4% vs. 16.0%) in the 12 months prior to HMP enrollment (see Appendix A Table 8.2).

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to report problems paying bills (56.8% vs. 40.9%) in the 12 months prior to HMP enrollment (see Appendix A Table 8.2).

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to have seen a PCP (94.8% vs. 82.1%) and to report a usual source of care (98.1% vs. 90.2%), and less likely to report urgent care as a usual source of care (3.5% vs. 6.6%) in the past 12 months of HMP enrollment (see Appendix A Table 8.2).

No significant differences were evident between individuals with no chronic disease and individuals with one or more chronic diseases in their report of whether their ability to pay medical bills since HMP enrollment had changed (see Appendix A Table 8.2).

### ***Association between chronic disease defined by HEDIS criteria and improvements in physical and mental health outcomes among HMP enrollees***

Compared to individuals with no chronic disease, enrollees with one or more chronic diseases were more likely to report significant improvements in their physical health in the past 12 months preceding the survey, but no more likely to report significant improvements in their mental health after adjusting for coverage status prior to HMP, smoking, age, gender, income, and race (see Appendix A Table 8.3).

### ***Association between improvements in access to specific types of care and physical and mental health outcomes among HMP enrollees with chronic disease defined by HEDIS criteria***

Among enrollees with one or more chronic diseases, individuals who reported improved access to mental health services, improved access to prescriptions, and improved access to specialty services were more likely to report improvements in their physical health when adjusting for health insurance status in the 12 months prior to HMP, smoking, age, gender, income, and race (see Appendix A Table 8.4).

Among enrollees with one or more chronic diseases, individuals who reported improved access to mental health services were more likely, and individuals who reported improved access to specialty services were more likely, to report improvements in their mental health when adjusting for health insurance status in the 12 months prior to HMP, smoking, age, gender, income, and race (see Appendix A Table 8.4).

### ***Differences in HRA behavior choice between HMP enrollees with and without chronic disease defined by HEDIS criteria***

Among enrollees who self-reported completing the HRA, no significant differences were evident among individuals with and without chronic disease in the behaviors selected on the HRA, including reducing/quitting smoking, getting the flu shot, exercising, or improving nutrition (see Appendix A Table 8.5).

### **Chronic disease defined by claims-based diagnostic codes**

In this section, the measure of chronic disease is defined by claims-based diagnosis codes including Alzheimer's disease and related dementia, anemia, asthma, atrial fibrillation, cancer, chronic kidney disease, COPD, cystic fibrosis, deep venous thrombosis, diabetes mellitus, glaucoma, heart failure, hemophilia, HIV, hyperlipidemia, hypertension, ischemic heart disease, liver disease and other liver disorders, osteoporosis, arthritis, and stroke/transient ischemic attack.

### ***Demographic and health characteristics for HMP enrollees with and without chronic disease defined by claims-based diagnosis codes***

Compared to those with no chronic disease, individuals with one or more chronic conditions were more likely to be older, female, report fair/poor health status, and report functional impairment (see Appendix A Table 8.6).

Compared to those with no chronic disease, individuals with one or more chronic conditions were more likely to report that both their physical (53.3% vs. 37.5%), and mental health (40.5% vs. 34.1%) have gotten better since HMP enrollment (see Appendix A Table 8.6).

### ***Differences in access to care among HMP enrollees with and without chronic disease defined by claims-based diagnosis codes before and after HMP***

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to report a usual source of care (75.9% vs. 69.7%) in the 12 months prior to HMP enrollment (see Appendix A Table 8.7). They were also more likely to report that their usual source of care was a clinic (18.4% vs. 14.4%) in the 12 months prior to HMP enrollment (see Appendix A Table 8.7).

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to report having seen a PCP (93.1% vs. 68.3%) and to report a usual source of care (97.1% vs. 82.4%) in the 12 months preceding the survey and less likely to report urgent care as their usual source of care (4.2% vs. 9.6%) (see Appendix A Table 8.7).

Compared to individuals with no chronic disease, individuals with one or more chronic diseases were more likely to report problems paying medical bills (50.8% vs. 33.0%) in the 12 months prior to HMP enrollment (see Appendix A Table 8.7).

No significant differences were evident between individuals with no chronic disease and individuals with one or more chronic diseases in their report about whether their ability to pay medical bills had changed since HMP enrollment (see Appendix A Table 8.7).



### *Association between chronic disease defined by claims-based diagnosis codes and improvements in physical and mental health outcomes among HMP enrollees*

Compared to individuals with no chronic disease, enrollees with one or more chronic diseases were twice as likely to report significant improvements in their physical health since HMP enrollment, and more likely to report significant improvements in their mental health after adjusting for coverage status prior to HMP, smoking, age, gender, income, and race (see Appendix A Table 8.8).

### *Association between improvements in access to specific types of care and physical and mental health outcomes among HMP enrollees with chronic disease defined by claims-based diagnosis codes*

Among enrollees with one or more chronic diseases, individuals who reported improved access to mental health services were more likely, individuals who reported improved access to prescriptions were twice more likely, and individuals who reported improved access to specialty services were more likely to report improvements in their physical health when adjusting for coverage status prior to HMP, smoking, age, gender, income, and race (see Appendix A Table 8.9).

Among enrollees with one or more chronic diseases, individuals who reported improved access to mental health services were four times more likely, individuals who reported improved access to prescriptions were more likely, and individuals who reported improved access to specialty services were more likely, to report improvements in their mental health when adjusting for coverage status prior to HMP, smoking, age, gender, income, and race (see Appendix A Table 8.9).

### *Differences in HRA behavior selection among HMP enrollees with and without chronic disease defined by claims-based diagnosis codes*

Among enrollees who self-reported completing the HRA, no significant differences were evident among individuals with and without chronic disease in the behavior selected on the HRA of reduce/quit smoking, getting the flu shot, exercising or nutrition (see Appendix A Table 8.10).

Among all enrollees, individuals with one or more chronic disease were more likely to choose getting a flu shot (0.5% vs. 0.1%), exercise (22.9% vs. 17.0%), and nutrition (24.3% vs. 19.7%) compared to individuals with no chronic disease (see Appendix A Table 8.10).

## **Section 9: Impact of HMP on enrollees with mental health or substance use disorder conditions**

### *Changes in access to care and health, among enrollees with mental health or substance use disorder conditions*

In almost all measures of access to care, enrollees with mental health/substance use disorder conditions (MH/SUD) were significantly more likely than enrollees without MH/SUD conditions to report improved access. This included reported improvements in access to: primary care (1.5 times as likely), specialty care (1.6 times as likely), dental care (1.2 times as likely), mental health care (3.4 times as likely), substance use disorder treatment (2.9 times as likely), prescription medications (1.6 times as likely), cancer screening (1.2 times as likely), and preventive health care (1.3 times as likely). For all of these outcomes, enrollees with MH/SUD conditions who were uninsured in the 12 months prior to HMP enrollment were even more likely to report improved access than those who had health insurance prior to HMP (see Appendix A Table 9.1).

There was no significant difference between enrollees with MH/SUD conditions and enrollees without MH/SUD conditions with regard to reported changes in access to family planning services (see Appendix A Table 9.1).

Enrollees with MH/SUD conditions were significantly more likely to report improvements in health since HMP enrollment compared with enrollees without MH/SUD conditions: 1.7 times as likely to report improved mental health and 1.3 times as likely to report improved physical health (see Appendix A Table 9.1).

### ***Forgone care before and after HMP, among enrollees with mental health or substance use disorder conditions***

In the 12 months prior to HMP enrollment, enrollees with co-morbid mental and physical health conditions were significantly more likely to forgo needed health care services (41.1%) than enrollees with only MH/SUD (36.8%), only physical health conditions (32.9%), or no health conditions (27.1%). There were no significant differences in reasons for forgone care across these groups (see Appendix A Table 9.2).

In the past 12 months of HMP enrollment, rates of forgone care were much lower in all groups, though remained highest for enrollees with co-morbid mental and physical health conditions (18.1%) or only MH/SUD (17.8%), compared with enrollees who had only physical health conditions (13.7%) or no health conditions (13.5%). Again, there were no significant differences in reasons for forgone care across these groups (see Appendix A Table 9.2).

### ***Use of preventive services, among enrollees with mental health or substance use disorder conditions***

Enrollees with any physical or mental health condition, or both, were more likely to have a primary care visit than those without such conditions: co-morbid mental and physical health conditions (98.9%), MH/SUD only (93.4%), physical health only (99.0%), no health conditions (82.5%) (see Appendix A Table 9.3b).

Cancer screening was more common among enrollees with co-morbid mental and physical health conditions (49.6%), compared with other groups: MH/SUD only (46.5%), physical health only (40.9%), no health conditions (39.0%) (see Appendix A Table 9.3b).

Dental visits were more common among enrollees with mental health conditions: co-morbid mental and physical health conditions (64.0%), MH/SUD only (63.6%), physical health only (53.0%), no health conditions (56.0%) (see Appendix A Table 9.3b).

Nutrition services were an infrequent service overall, but there was significant variation among the sub-groups without a predominant pattern: co-morbid mental and physical health conditions (5.9%), MH/SUD only (1.1%), physical health only (5.5%), no health conditions (0.7%) (see Appendix A Table 9.3b).

STI screening was more common among enrollees with mental health conditions: co-morbid mental and physical health conditions (18.2%), MH/SUD only (18.1%), physical health only (10.0%), no health conditions (10.0%) (see Appendix A Table 9.3b).

Smoking cessation prescriptions were more commonly used among enrollees with co-morbid mental and physical health conditions (21.6%), compared with other groups: MH/SUD only (13.3%), physical health only (10.9%), no health conditions (5.1%) (see Appendix A Table 9.3b).

Vaccines were more commonly received by enrollees with physical health conditions: co-morbid mental and physical health conditions (59.0%), MH/SUD only (45.4%), physical health only (53.5%), no health conditions (35.1%) (see Appendix A Table 9.3b).

Use of any of the above preventive services was highly prevalent across all sub-groups, though more common among enrollees with either physical or mental health conditions vs. no health conditions: co-morbid mental and physical health conditions (94.9%), MH/SUD only (89.8%), physical health only (92.4%), no health conditions (81.1%) (see Appendix A Table 9.3b).

### ***Impact on work/employment for enrollees with mental health or substance use disorder conditions***

Enrollees with MH/SUD conditions were significantly less likely to be employed (43%) than enrollees without MH/SUD conditions (54%) (see Appendix A Table 9.4A). There was no statistically significant association between reported physical or mental health improvements and employment for either enrollees with MH/SUD conditions or enrollees without MH/SUD conditions (see Appendix A Table 9.4b).

Enrollees with MH/SUD conditions were significantly more likely to report that HMP helped them to do a better job at work (80%) than enrollees without MH/SUD conditions (67%) (see Appendix A Table 9.4a). Both groups were significantly more likely to report that HMP helped them do a better job at work if they reported physical or mental health improvements, though the association was more pronounced among enrollees with MH/SUD conditions (5.6 times as likely) (see Appendix A Table 9.4b) than for enrollees without MH/SUD conditions (3.3 times as likely) (see Appendix A Table 9.4c).

Among enrollees who were out of work, those with improved physical or mental health reported HMP made them better able to look for a job at similar rates across sub-groups: 59% of

enrollees with MH/SUD conditions and 56% of enrollees without MH/SUD conditions (see Appendix A Table 9.4a). Both groups were similarly more likely to report that HMP made them better able to look for a job if they reported physical or mental health improvements: 2.7 times as likely for enrollees with MH/SUD conditions (see Appendix A Table 9.4b) and 3.2 times as likely for enrollees without MH/SUD conditions (see Appendix A Table 9.4c).

Among enrollees who had a recent job change, those with improved physical or mental health reported HMP helped them get a better job at similar rates across sub-groups: 41% of enrollees with MH/SUD conditions and 35% of enrollees without MH/SUD conditions (see Appendix A Table 9.4a). Both groups were significantly more likely to report that HMP helped them get a better job if they reported physical or mental health improvements, though the association was more pronounced among enrollees with MH/SUD conditions (5.4 times as likely) (see Appendix A Table 9.4b) than for enrollees without MH/SUD conditions (2.7 times as likely) (see Appendix A Table 9.4c).

## **Section 10: Awareness of HMP dental coverage, perceived access to and use of dental services, oral health status and outcomes**

### *Awareness of HMP dental coverage*

Women were more likely to be aware of their HMP dental coverage than men (80.8% vs. 73.2%). No other differences in demographic characteristics were evident in awareness of HMP dental coverage (see Appendix A Table 10.1).

### *Perceived access to dental care*

The percentage of respondents who reported improved access to dental care since HMP enrollment was associated with duration of health insurance coverage in the 12 months prior to HMP enrollment, ranging from 32.6% of enrollees who had health insurance for all 12 months to 53.5% of those who were uninsured for all 12 months (see Appendix A Table 10.1).

Employed enrollees (48.2%) were more likely than unemployed people (44.0%) to report improved access to dental care since HMP enrollment (see Appendix A Table 10.1).

Respondents who were aware of their HMP dental coverage were more likely to report better access to dental care than those who were unaware (55.3% vs. 15.0%) (see Appendix A Table 10.2).

### *Dental care use*

Women were more likely than men to use dental care (62.9% vs. 55.9%). Enrollees who had health insurance for some of the 12 months prior to HMP enrollment were more likely to use dental care (68.7%) compared to those who had health insurance for all 12 months prior to HMP enrollment (59.0%) or who were uninsured all 12 months prior to HMP enrollment (58.2%) (see Appendix A Table 10.1).

Respondents who were aware of their HMP dental coverage were more likely to use dental care compared to those who were unaware (68.9% vs. 27.8%) (see Appendix A Table 10.2).

Respondents who reported better access to dental care since HMP enrollment were more likely to use dental care than those who did not report better access (77.4% vs. 44.3%) (see Appendix A Table 10.3).

Respondents who reported improved oral health since HMP enrollment were more likely to use dental care compared to those who did not report improved oral health (85.2% vs. 42.8%) (see Appendix A Table 10.3).

Enrollees who reported improved access to dental care were 4.7 times more likely to use dental care compared to those who reported no change or worse access to dental care after adjusting for age, gender, race, income, employment status, and insurance duration in the 12 months before HMP enrollment (see Appendix A Table 10.5).

Adjusting for improved access and other covariates in the multivariate model, women were 1.3 times more likely to use dental care. Enrollees who were uninsured for all 12 months prior to HMP enrollment were 70% as likely to use dental care than those who had health insurance for all of the 12 months prior to HMP (see Appendix A Table 10.5).

Enrollees who were aware of their HMP dental coverage were 5.9 times more likely to use dental services. Adjusting for awareness of HMP dental coverage and other respondent characteristics, women were 1.2 times more likely to use dental care. Respondents ages 35-50 years were 1.3 times more likely, and those with insurance coverage some of the year prior to enrolling in HMP were 1.5 times more likely to use dental care (see Appendix A Table 10.5).

### *Improved oral health*

Black or African American enrollees were the most likely (45.4%) and Hispanic enrollees the least likely (30.6%) to report improved oral health since HMP enrollment (see Appendix A Table 10.1).

The percentage of respondents who reported improved oral health since HMP enrollment was associated with the duration of health insurance coverage in the 12 months prior to HMP enrollment, ranging from 31.7% of enrollees who had health insurance for all 12 months to 44.1% of those who were uninsured for all 12 months (see Appendix A Table 10.1).

Respondents who were aware of their HMP dental coverage were more likely to report improved oral health since HMP enrollment than those who were unaware (47.3% vs. 13.3%) (see Appendix A Table 10.2).

Respondents who reported better access to dental care were more likely to report improved oral health since HMP enrollment than those who did not report better access (67.9% vs. 15.4%) (see Appendix A Table 10.4).

Respondents who used dental care were more likely to report improved oral health since HMP enrollment than those who did not use dental care services (56.5% vs. 14.4%) (see Appendix A Table 10.4).

Enrollees who used dental care were 8.3 times more likely to report improved oral health since HMP enrollment than those who had not used dental care after adjusting for age, gender, race, income, employment status, insurance duration in the 12 months before HMP enrollment (see Appendix A Table 10.6).

Adjusting for dental care use and other enrollee characteristics, Black or African American enrollees were 1.6 times more likely, and those who were uninsured all 12 months prior to HMP enrollment were 2.0 times more likely to report improved oral health since HMP enrollment (see Appendix A Table 10.6).

### *Job-related outcomes*

Among unemployed/out of work respondents, those who reported improved access to dental care since HMP enrollment were more likely than those who reported no change or worse access, to report that HMP had made them better able to look for a job (61.5% vs. 48.8%) (see Appendix A Table 10.7).

Among unemployed respondents, those who reported improved oral health since HMP enrollment were more likely than those who reported no change or worse oral health, to report that HMP had made them better able to look for a job (59.9% vs. 51.1%) (see Appendix A Table 10.7).

In multivariate analyses adjusting for characteristics of unemployed respondents:

Adjusting for dental care service use, those with improved oral health were 1.5 times more likely to report that HMP had made them better able to look for a job (see Appendix A Table 10.6; Model 2b).

Adjusting for improved oral health, unemployed enrollees ages 51-64 were 1.7 times more likely to report that HMP made them better able to look for a job (see Appendix A Table 10.6; Model 2b).

Among employed respondents, those who reported improved access to dental care since HMP enrollment were more likely than those who reported no change or worse access, to report that HMP had helped them do a better job at work (76.8% vs. 62.6%) (see Appendix A Table 10.7).

Among employed respondents, those who reported improved oral health since HMP enrollment were more likely than those who reported no change or worse oral health, to report that HMP had helped them do a better job at work (76.1% vs. 65.0%) (see Appendix A Table 10.7).

In multivariate analyses adjusting for characteristics of employed respondents:

Those who reported improved oral health were 1.6 times more likely to report that HMP helped them to do a better job at work (see Appendix A Table 10.6; Model 2a).

Adjusting for improved oral health and other covariates in the model, women were 1.4 times more likely, Black or African American enrollees were 1.5 times more likely, and enrollees with health insurance for some of the 12 months prior to HMP enrollment were 1.6 times more likely to report that HMP helped them to do a better job at work (see Appendix A Table 10.6; Model 2a).

Employed enrollees with incomes of 100-133% FPL were 65.0% as likely to report HMP helped them do a better job at work than those with lower income levels (see Appendix A Table 10.6; Model 2a).

Among employed respondents with a recent job change, respondents who reported better access to dental care since HMP enrollment, were more likely than those who reported no change or worse access, to report that HMP had helped them to get a better job (51.2% vs. 24.5%). Those with a dental care visit since HMP enrollment were more likely than those who had no visit to report that HMP had helped them to get a better job (30.0% vs. 34.1%) (see Appendix A Table 10.7).

In multivariate analyses adjusting for characteristics of employed respondents who had a recent job change:

Improved oral health was not associated with helping them to get a better job, although there was a trend in that direction. The low sample size in this population may have affected this model (see Appendix A Table 10.6; Model 2c).

Those who were uninsured all 12 months prior to HMP enrollment were 2.4 times more likely to report that HMP helped them get a better job (see Appendix A Table 10.6; Model 2c).

## **Section 11: Impact of HMP on reproductive health services**

### ***Demographic and health characteristics of female respondents ages 19-44***

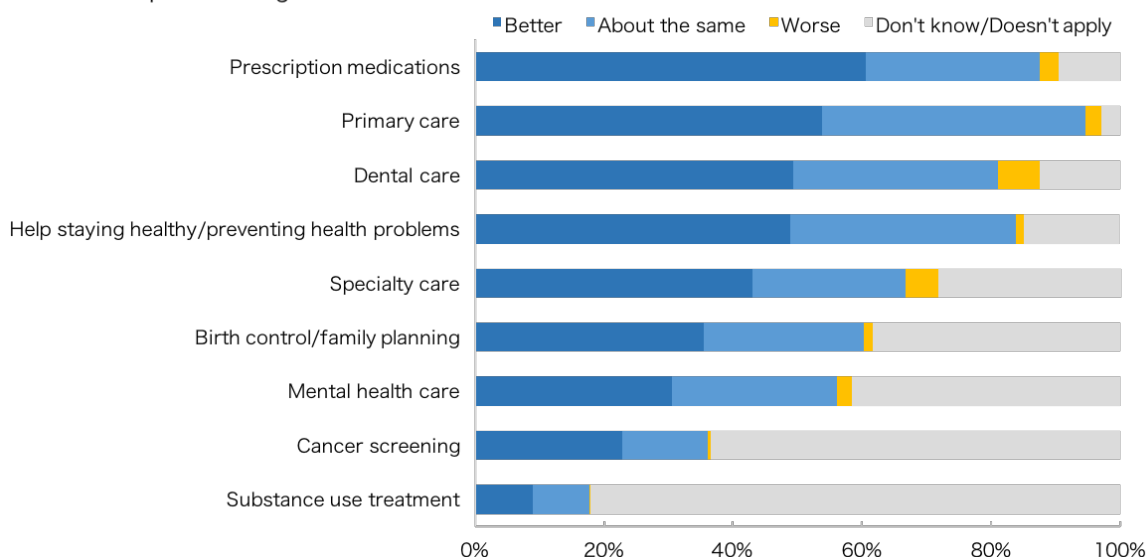
Women enrollees age 19-44 broadly reflected the racial-ethnic demographics of Michigan. Most (74.7%) were lower-income (<100% FPL) and nearly one in five (17.7%) lived in rural settings (see Appendix A Table 11.1).

Sixty-four percent reported at least one chronic medical condition and 23.5% reported fair or poor health (see Appendix A Table 11.1).

### *Perceived change in access to health care services after HMP enrollment*

Overall, 35.5% of respondents reported better ability to get birth control/family planning services through HMP compared to before they had HMP, while 24.8% reported about the same ability, and 1.4% reported worse ability. An additional 38.3% reported that they did not know or birth control/family planning access didn't apply to them (see Appendix A Table 11.3). The proportion reporting improved access to family planning services among female enrollees age 19-44 was lower than the proportion reporting improved access to primary care, specialist care, dental care, prescription medications, and help preventing health problems, but higher than the proportion reporting improved access to mental health, cancer screening, and substance use treatment (see Appendix A Table 11.2).

Figure 1. Self-reported change in access to health care services after HMP enrollment, among female respondents ages 19-44



### *Enrollee characteristics, by perceived change in access to birth control/family planning services*

Improved access to birth control/family planning services was more commonly reported by

- Younger women (age 19-24, 39.8%; age 25-34 years, 41.4%) compared to older women (age 35-44 years, 24.1%)
- Women who were uninsured in the 12 months prior to HMP enrollment (42.6%), compared to those who had health insurance for all 12 months prior to HMP (27.5%)
- Women who had seen a PCP in the past 12 months of HMP enrollment compared to those who had not (36.8% vs. 27.6%) (see Appendix A Table 11.3).

In adjusted multivariable logistic regression analysis, better access to birth control/family planning services was significantly associated with age, no health insurance in the 12 months



prior to HMP enrollment, and a visit with a PCP in the past 12 months of HMP enrollment (see Appendix A Table 11.4).

- Compared to enrollees age 35-44 years, women age 19-24 years were 2.8 times more likely to report better access to birth control/family planning services and women age 25-34 years were 2.4 times more likely to report better access to birth control/family planning services (see Appendix A Table 11.4).
- Compared to those with health insurance for all 12 months prior to HMP enrollment, women without health insurance in the 12 months prior to HMP were more than twice as likely to report that HMP improved their access to birth control/family planning services (see Appendix A Table 11.4).
- Enrollees who had seen a PCP in the past 12 months of HMP enrollment were 1.7 times more likely to report better access to birth control/family planning since HMP enrollment compared to those who had not (see Appendix A Table 11.4).

We did not observe differences in self-reported access across racial-ethnic groups, income categories, partnership status, urban/rural setting, self-reported health status, or presence of medical comorbidity (see Appendix A Table 11.4).

## **Section 12: Impact of HMP on employment, education and ability to work**

### ***Demographic and health characteristics for HMP enrollees who are out of work or unable to work***

Compared to employed enrollees, enrollees who were out of work or unable to work were more likely to be older, male, have an income of 0-35% FPL, veterans, in fair/poor health, and with chronic physical or mental health conditions or limitations (see Appendix A Table 12.1).

Black or African American enrollees were more likely to be out of work and White enrollees were more likely to be unable to work (see Appendix A Table 12.1).

### ***Association between HMP enrollee demographic and health characteristics and being out of work or unable to work***

Enrollees were 1.5 times more likely to report being out of work if they reported fair/poor health, 1.5 times as likely if they reported mental health conditions, and more likely if they reported functional limitations (1.4 times as likely if they reported a physical functional limitation; 2.0 times as likely if they reported a mental functional limitation) (see Appendix A Table 12.2)

Enrollees were 1.7 times more likely to report being out of work if older (aged 51-64), 1.8 times more likely if male, and 1.9 times more likely if Black or African American (see Appendix A Table 12.2).

Enrollees were 3.5 times more likely to report being unable to work if in fair/poor health, 1.7 times as likely if with chronic physical health condition(s), 2.6 times as likely if with chronic mental health condition(s), and more likely if they reported functional limitations (5.1 times as likely if they reported a physical limitation; 2.3 times as likely if they reported a mental limitation) (see Appendix A Table 12.2).

Enrollees were more likely to report being unable to work if older (2.3 times more likely for 35-50-year-olds; 4.2 times more likely for 51-64-year-olds) and 1.9 times as likely if male (see Appendix A Table 12.2).

### ***Employment status among HMP enrollees, by health status and presence of chronic health condition***

HMP enrollees were more likely to be employed if their health status was excellent, very good, or good vs. fair or poor (56.1% vs. 32.3%), or if they had no chronic conditions (59.8% vs. 44.1%) (see Appendix A Table 12.3).

However, a substantial number of enrollees with fair or poor health status (32.3%) or with chronic conditions (44.1%) were working (see Appendix A Table 12.3).

### ***Association of health changes with employment and ability to work among employed enrollees, and job seeking ability among enrollees who were out of work or had a recent job change***

There was no statistically significant association between improved physical or mental health since HMP enrollment and current employment status (see Appendix A Table 12.4).

Enrollees with improved physical or mental health since HMP enrollment were 4.1 times more likely to report that HMP helped them to do a better job at work (see Appendix A Table 12.4).

Among enrollees who were out of work, those with improved physical or mental health since HMP enrollment were 2.8 times more likely to report that HMP made them better able to look for a job (see Appendix A Table 12.4).

Among enrollees who had a recent job change, those with improved physical or mental health since HMP enrollment were 3.2 times more likely to report that HMP helped them get a better job (see Appendix A Table 12.4).

# 2016 Healthy Michigan Voices Enrollee Survey: Supplemental Analyses

## **Appendix A: Supplementary Tables**

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**Section 1: Impact of pre-HMP insurance status on improvements in forgone care, access, and health**

**Table 1.1. Bivariate relationship between pre-HMP insurance status and forgone care, health status**

|   | <b>No insurance during the 12 months before enrollment in HMP</b> | <b>Any insurance during the 12 months before enrollment in HMP</b> |                              |
|---|---|--|------------------------------|
|   | Column %  | Column %   | <i>p</i> -value <sup>1</sup> |
| Any forgone care 12 months prior to HMP | 42.0  | 21.6   | < .001                       |
| Health status                           |   |  | NS                           |
| Excellent                               | 9.4   | 9.6  |                              |
| Very good                               | 26.7  | 27.2   |                              |
| Good                                    | 33.6  | 34.0   |                              |
| Fair                                    | 22.5  | 22.0   |                              |
| Poor                                    | 7.8   | 7.3  |                              |
| <b>Column Total</b>                     | 100%  | 100%   |                              |

<sup>1</sup>Pearson's chi-squared test



**Table 1.2a. Multivariate relationship between pre-HMP insurance status and forgone care, access to services, change in health, worry and stress**

|   | Uninsured all 12 months<br>[REFERENCE] |              | Insured some of 12 months |              | Insured all of 12 months |              |
|---|--|--------------|---------------------------|--------------|--------------------------|--------------|
|   | %                                      | 95% CI       | %                         | 95% CI       | %                        | 95% CI       |
| <b>Forgone care</b>   |  |              |                           |              |                          |              |
| Any forgone care 12 months prior to HMP   | 42.8                                   | [40.2, 45.3] | 32.8 ***                  | [27.2, 38.4] | 17.4 ***                 | [14.9, 19.9] |
| Forgone care due to cost/no insurance/insurance not accepted/plan wouldn't pay in 12months prior to HMP | 40.6                                   | [38.1, 43.1] | 30.7 *                    | [25.2, 36.2] | 14.4 ***                 | [12.1, 16.7] |
| <b>Access to services</b>   |  |              |                           |              |                          |              |
| Improved access to prescriptions  | 67.8                                   | [65.3, 70.3] | 62.7                      | [56.6, 68.9] | 43.0 ***                 | [39.6, 46.5] |
| Improved access to primary care   | 69.7                                   | [66.2, 71.2] | 57.3 ***                  | [50.9, 63.7] | 37.7 ***                 | [50.9, 63.7] |
| Improved access to help with staying healthy  | 60.3                                   | [57.8, 62.9] | 55.7                      | [49.4, 62.0] | 36.1 ***                 | [32.7, 39.5] |
| Improved access to dental care  | 54.1                                   | [51.5, 56.7] | 48.5                      | [42.1, 54.9] | 32.1 ***                 | [28.8, 35.5] |
| Improved access to specialist care  | 51.8                                   | [49.2, 54.4] | 44.6 *                    | [38.4, 50.8] | 31.5 ***                 | [28.2, 34.8] |
| Improved access to mental health care   | 32.0                                   | [29.6, 34.5] | 27.2                      | [21.3, 33.0] | 18.5 ***                 | [15.7, 21.3] |
| Improved access to cancer screening   | 31.6                                   | [29.2, 34.0] | 23.1 **                   | [18.0, 28.3] | 16.9***                  | [14.5, 19.3] |
| <b>Change in health</b>   |  |              |                           |              |                          |              |
| Improved physical health  | 54.5                                   | [51.9, 57.1] | 51.8                      | [45.2, 58.4] | 34.7 ***                 | [31.2, 38.1] |
| Improved mental health  | 42.4                                   | [39.8, 45.0] | 37.0                      | [30.6, 43.3] | 30.7 ***                 | [27.2, 34.1] |
| Improved oral health  | 46.4                                   | [43.7, 49.1] | 42.1                      | [35.9, 48.4] | 32.8 ***                 | [29.4, 36.3] |
| <b>Worry and stress<sup>1</sup></b>   |  |              |                           |              |                          |              |
| I don't worry so much   | 72.6                                   | [70.2, 74.9] | 70.4                      | [64.3, 76.5] | 63.8                     | [60.4, 67.2] |
| Having HMP has taken a lot of stress off me   | 90.6                                   | [89.0, 92.1] | 89.4                      | [85.2, 93.5] | 84.6                     | [82.1, 87.0] |

Logistic regression with predicted margins; each row is a separate model/outcome, adjusted for age, gender, federal poverty level, race and ethnicity, urbanicity, self-reported health status, and self-reported chronic conditions.

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>1</sup>Respondents were asked to rate their worry and stress on a 5-point scale. Responses were dichotomized to reflect strongly agree/agree vs. neutral/disagree/strongly disagree.

**Table 1.2b. Multivariate relationship between pre-HMP insurance status and forgone care, access to services, change in health, worry and stress**

| Independent variables   | Uninsured all 12 months<br>[REFERENCE]<br>(n=2,374) | Insured some of 12 months<br>(n=374) |            |         | Insured all of 12 months<br>(n=1,235) |            |         |
|---|---|--------------------------------------|------------|---------|---------------------------------------|------------|---------|
|   |   | aOR                                  | 95% CI     | p-value | aOR                                   | 95% CI     | p-value |
| <b>Forgone care</b>   |   |                                      |            |         |                                       |            |         |
| Any forgone care 12 months prior to HMP   |   | 0.6                                  | [0.5, 0.8] | .002    | 0.3                                   | [0.2, 0.3] | < .001  |
| Forgone care due to cost/no insurance/insurance not accepted/plan wouldn't pay in 12months prior to HMP |   | 0.8                                  | [0.4, 1.5] | .516    | 0.3                                   | [0.2, 0.5] | < .001  |
| <b>Access to services</b>   |   |                                      |            |         |                                       |            |         |
| Improved access to prescriptions  |   | 0.8                                  | [0.6, 1.1] | .126    | 0.3                                   | [0.3, 0.4] | < .001  |
| Improved access to primary care   |   | 0.6                                  | [0.5, 0.8] | .001    | 0.3                                   | [0.2, 0.3] | < .001  |
| Improved access to help with staying healthy  |   | 0.8                                  | [0.6, 1.1] | .180    | 0.4                                   | [0.3, 0.4] | < .001  |
| Improved access to dental care  |   | 0.8                                  | [0.6, 1.1] | .110    | 0.4                                   | [0.3, 0.5] | < .001  |
| Improved access to specialist care  |   | 0.7                                  | [0.6, 1.0] | .037    | 0.4                                   | [0.3, 0.5] | < .001  |
| Improved access to mental health care   |   | 0.8                                  | [0.6, 1.1] | .144    | 0.5                                   | [0.4, 0.6] | < .001  |
| Improved access to cancer screening   |   | 0.6                                  | [0.5, 0.9] | .006    | 0.4                                   | [0.3, 0.5] | < .001  |
| <b>Change in health</b>   |   |                                      |            |         |                                       |            |         |
| Improved physical health  |   | 0.9                                  | [0.7, 1.2] | .456    | 0.4                                   | [0.4, 0.5] | < .001  |
| Improved mental health  |   | 0.8                                  | [0.6, 1.1] | .126    | 0.6                                   | [0.5, 0.7] | < .001  |
| Improved oral health  |   | 0.8                                  | [0.6, 1.1] | .218    | 0.6                                   | [0.5, 0.7] | < .001  |
| <b>Worry and stress<sup>1</sup></b>   |   |                                      |            |         |                                       |            |         |
| I don't worry so much   |   | 0.9                                  | [0.7, 1.2] | .520    | 0.7                                   | [0.5, 0.8] | < .001  |
| Having HMP has taken a lot of stress off me   |   | 0.9                                  | [0.5, 1.4] | .588    | 0.6                                   | [0.4, 0.7] | < .001  |

Logistic regression with adjusted odds ratios; each row is a separate model/outcome, adjusted for age, gender, federal poverty level, race and ethnicity, urbanicity, self-reported health status, and self-reported chronic conditions.

<sup>1</sup>Respondents were asked to rate their worry and stress on a 5-point scale. Responses were dichotomized to reflect strongly agree/agree vs. neutral/disagree/strongly disagree.

## Section 2: Primary care and use of preventive services

Table 2.1. Descriptive statistics: receipt of preventive care

|  | %    |
|--|------|
| Primary care visit                                   | 89.5 |
| Cancer screening                                     | 43.5 |
| Breast cancer screening <sup>1</sup>                 | 71.7 |
| Cervical cancer screening <sup>2</sup>               | 53.9 |
| Colorectal cancer screening <sup>3</sup>             | 41.6 |
| Diabetes Prevention Program                          | 1.4  |
| Dental visit   | 59.5 |
| Any nutrition service                                | 2.1  |
| HPV testing  | 14.4 |
| Test for STI   | 13.9 |
| Statin prescription                                  | 18.0 |
| Varenicline and/or nicotine replacement prescription | 11.3 |
| Vaccine (any)  | 43.9 |
| Influenza vaccine                                    | 32.5 |
| Pneumonia vaccine                                    | 6.3  |
| Other vaccine (not influenza or pneumonia)           | 20.0 |
| Any preventive service <sup>4</sup>                  | 86.8 |

Weighted proportions of services based on claims analysis.

See Appendix B for full definitions.

STI is an acronym for sexually transmitted infection.

<sup>1</sup> Analysis restricted to women 50 and older.

<sup>2</sup> Analysis restricted to women. Excludes HPV

<sup>3</sup> Analysis restricted to women and men 50 and older.

<sup>4</sup> Any of the above preventive services with the exception of primary care visit.

**Table 2.2. Bivariate relationship between enrollee knowledge about copays and incentives and use of preventive services**

|  | Some services have no copay |         |                              | May get reduction in fees if complete HRA |         |                              |
|--|-----------------------------|---------|------------------------------|---|---------|------------------------------|
|  | % Yes                       | % No/DK | <i>p</i> -value <sup>1</sup> | % Yes                                     | % No/DK | <i>p</i> -value <sup>1</sup> |
| Primary care visit                                   | 92.3                        | 80.8    | < .001                       | 90.0                                      | 89.3    | .670                         |
| Diabetes Prevention Program                          | 1.5                         | 0.95    | .217                         | 1.7                                       | 1.3     | .396                         |
| Any nutrition service                                | 2.3                         | 1.4     | .192                         | 2.6                                       | 1.9     | .306                         |
| Dental visit   | 60.7                        | 56.0    | .046                         | 58.8                                      | 59.8    | .650                         |
| Test for STI   | 15.0                        | 10.4    | .005                         | 13.4                                      | 14.0    | .724                         |
| Statin prescription                                  | 19.2                        | 14.1    | .003                         | 19.2                                      | 17.4    | .272                         |
| Varenicline and/or nicotine replacement prescription | 12.5                        | 7.5     | < .001                       | 9.9                                       | 11.8    | .128                         |
| Breast cancer screening <sup>2</sup>                 | 74.6                        | 60.3    | .002                         | 74.1                                      | 70.9    | .456                         |
| HPV testing  | 15.7                        | 10.1    | < .001                       | 12.9                                      | 14.9    | .172                         |
| Cervical cancer screening <sup>3</sup>               | 55.7                        | 47.2    | .009                         | 54.4                                      | 53.8    | .826                         |
| Colorectal cancer screening <sup>4</sup>             | 43.5                        | 34.6    | .021                         | 43.7                                      | 40.7    | .369                         |
| Any cancer screening                                 | 47.0                        | 32.6    | < .001                       | 41.7                                      | 44.4    | .262                         |
| Vaccine (any)  | 45.8                        | 38.1    | .001                         | 47.0                                      | 42.7    | .066                         |
| Influenza vaccine                                    | 34.5                        | 26.7    | < .001                       | 34.4                                      | 31.8    | .203                         |
| Pneumonia vaccine                                    | 6.9                         | 4.7     | .048                         | 7.3                                       | 6.0     | .267                         |
| Other vaccine (not influenza or pneumonia)           | 20.4                        | 19.0    | .473                         | 20.8                                      | 19.8    | .609                         |
| Any preventive service <sup>5</sup>                  | 88.6                        | 81.3    | < .001                       | 86.7                                      | 86.9    | .934                         |

Weighted proportions of enrollees who received preventive services (based on claims data) by knowledge of HMP cost structure. See Appendix B for full definitions.

STI is an acronym for sexually transmitted infection.

<sup>1</sup> Pearson's chi-squared test

<sup>2</sup> Analysis restricted to women 50 and older.

<sup>3</sup> Analysis restricted to women. Excludes HPV

<sup>4</sup> Analysis restricted to women and men 50 and older.

<sup>5</sup> Includes any of the above preventive services with the exception of primary care visit.

**Table 2.3. Bivariate relationship between perceived impact of healthy behavior rewards and use of preventive services**

| <b>Information about the healthy behavior rewards that I can earn has led me to do something I might not have done otherwise. (n=4,084)</b> |                |       |         |          |                   |                              |
|---|----------------|-------|---------|----------|-------------------|------------------------------|
|   | Strongly agree | Agree | Neutral | Disagree | Strongly disagree | <i>p</i> -value <sup>1</sup> |
| Primary care visit  | 88.2           | 89.5  | 87.8    | 89.3     | 84.9              | .654                         |
| Diabetes Prevention Program   | 0.2            | 2.1   | 1.0     | 1.3      | -                 | .094                         |
| Any nutrition service   | 2.7            | 2.7   | 1.6     | 1.9      | -                 | .474                         |
| Dental visit  | 57.3           | 57.0  | 57.7    | 61.0     | 69.9              | .161                         |
| Test for STI  | 11.3           | 14.0  | 12.0    | 15.2     | 15.8              | .724                         |
| Statin prescription   | 22.6           | 20.1  | 10.9    | 17.4     | 20.4              | .008                         |
| Varenicline and/or nicotine replacement prescription  | 10.5           | 11.1  | 6.8     | 11.5     | 13.8              | .032                         |
| Breast cancer screening <sup>2</sup>  | 83.9           | 71.9  | 61.5    | 67.7     | 95.8              | .046                         |
| HPV testing   | 11.4           | 14.3  | 14.2    | 13.3     | 14.4              | .529                         |
| Cervical cancer screening <sup>3</sup>  | 48.9           | 53.4  | 56.1    | 54.7     | 51.3              | .935                         |
| Colorectal cancer screening <sup>4</sup>  | 58.2           | 41.9  | 39.4    | 41.0     | 47.2              | .191                         |
| Any cancer screening  | 44.5           | 42.9  | 40.3    | 41.2     | 38.8              | .071                         |
| Vaccine (any)   | 46.2           | 45.0  | 46.5    | 40.2     | 34.9              | .228                         |
| Influenza vaccine   | 35.6           | 32.5  | 35.5    | 30.2     | 31.1              | .646                         |
| Pneumonia vaccine   | 6.9            | 6.0   | 5.4     | 7.8      | 5.7               | .673                         |
| Other vaccine (not influenza or pneumonia)  | 16.4           | 20.6  | 20.3    | 17.3     | 4.9               | .007                         |
| Any preventive service <sup>5</sup>   | 89.4           | 86.9  | 87.6    | 84.7     | 77.3              | .139                         |

Weighted proportions of enrollees who received preventive services (based on claims data) by perceived impact of healthy behavior rewards. See Appendix B for full definitions.

STI is an acronym for sexually transmitted infection.

<sup>1</sup> Pearson's chi-square test

<sup>2</sup> Analysis restricted to women 50 and older.

<sup>3</sup> Analysis restricted to women. Excludes HPV

<sup>4</sup> Analysis restricted to women and men 50 and older.

<sup>5</sup> Includes any of the above preventive services with the exception of primary care visit.

**Table 2.4a. Multivariate relationship between primary care visit and use of preventive services**

| Independent variables                                | Self-reported primary care visit |               |      |         | Primary care visit in claims data |                |       |         |
|--|----------------------------------|---------------|------|---------|-----------------------------------|----------------|-------|---------|
|  | aOR                              | 95% CI        | SE   | p-value | aOR                               | 95% CI         | SE    | p-value |
| Cancer screening                                     | 2.71                             | [2.04, 3.59]  | .39  | < .001  | 23.23                             | [12.59, 42.84] | 7.25  | < .001  |
| Breast cancer screening <sup>1</sup>                 | 6.57                             | [3.70, 11.68] | 1.93 | < .001  | -                                 | -              | -     | -       |
| Cervical cancer screening <sup>2</sup>               | 2.15                             | [1.59, 2.91]  | .33  | < .001  | 11.86                             | [6.42, 21.90]  | 3.71  | < .001  |
| Colorectal cancer screening <sup>3</sup>             | 4.33                             | [2.60, 7.22]  | 1.13 | < .001  | -                                 | -              | -     | -       |
| Diabetes Prevention Program                          | 1.31                             | [0.53, 3.20]  | .60  | .558    | 2.45                              | [0.35, 17.32]  | 2.45  | .369    |
| Dental visit   | 1.42                             | [1.14, 1.77]  | .16  | .002    | 2.13                              | [1.53, 2.96]   | .36   | < .001  |
| Any nutrition service                                | 1.88                             | [0.80, 4.39]  | .81  | .145    | 3.36                              | [0.48, 23.46]  | 3.33  | .222    |
| HPV testing  | 1.67                             | [1.17, 2.37]  | .30  | .005    | 5.26                              | [2.45, 11.32]  | 2.06  | < .001  |
| Test for STI   | 1.44                             | [1.02, 2.05]  | .26  | .038    | 5.10                              | [2.80, 9.29]   | 1.56  | < .001  |
| Statin prescription                                  | 3.88                             | [2.47, 6.10]  | .90  | < .001  | 13.75                             | [2.97, 63.56]  | 10.74 | < .001  |
| Varenicline and/or nicotine replacement prescription | 1.97                             | [1.33, 2.92]  | .40  | .001    | 15.00                             | [4.64, 48.44]  | 8.97  | < .001  |
| Vaccine (any)  | 2.05                             | [1.62, 2.61]  | .25  | < .001  | 4.21                              | [2.73, 6.48]   | .93   | < .001  |
| Influenza vaccine                                    | 2.20                             | [1.69, 2.87]  | .30  | < .001  | 6.96                              | [4.13, 11.73]  | 1.85  | < .001  |
| Pneumonia vaccine                                    | 1.49                             | [0.87, 2.54]  | .41  | .147    | 2.69                              | [0.85, 8.54]   | 1.59  | .094    |
| Other vaccine (not influenza or pneumonia)           | 1.28                             | [0.96, 1.72]  | .19  | .092    | 2.52                              | [1.50, 4.21]   | .66   | < .001  |

Logistic regression with adjusted odds ratios; each row is a separate model/outcome, adjusted for age, gender, race and ethnicity, urbanicity, self-reported health status, and self-reported chronic conditions. Dependent variables are receipt of preventive services based on claims data. See Appendix B for full definitions.

STI is an acronym for sexually transmitted infection.

<sup>1</sup> Analysis restricted to women 50 and older.

<sup>2</sup> Analysis restricted to women. Excludes HPV

<sup>3</sup> Analysis restricted to women and men 50 and older.

**Table 2.4b. Bivariate relationship between primary care visit and use of preventive services**

|  | Self-reported primary care visit <sup>1</sup> |                              | Primary care visit in claims data <sup>2</sup> |                              |
|--|---|------------------------------|--|------------------------------|
|  | %   | <i>p</i> -value <sup>3</sup> | %  | <i>p</i> -value <sup>3</sup> |
| Cancer screening                                     | 49.3  | < .001                       | 48.2   | < .001                       |
| Breast cancer screening <sup>4</sup>                 | 75.2  | < .001                       | 73.8   | < .001                       |
| Cervical cancer screening <sup>5</sup>               | 56.4  | < .001                       | 56.4   | < .001                       |
| Colorectal cancer screening <sup>6</sup>             | 45.0  | < .001                       | 43.5   | < .001                       |
| Diabetes Prevention Program                          | 1.5   | .178                         | 1.5  | .156                         |
| Dental visit   | 61.6  | < .001                       | 61.6   | < .001                       |
| Any nutrition service                                | 2.4   | .013                         | 2.3  | .044                         |
| HPV testing  | 16.1  | < .001                       | 15.8   | < .001                       |
| Test for STI   | 14.7  | .029                         | 15.1   | < .001                       |
| Statin prescription                                  | 21.6  | < .001                       | 20.0   | < .001                       |
| Varenicline and/or nicotine replacement prescription | 12.9  | < .001                       | 12.5   | < .001                       |
| Vaccine (any)  | 48.2  | < .001                       | 47.3   | < .001                       |
| Influenza vaccine                                    | 36.7  | < .001                       | 35.6   | < .001                       |
| Pneumonia vaccine                                    | 7.1   | .003                         | 6.9  | .003                         |
| Other vaccine (not influenza or pneumonia)           | 20.7  | .143                         | 21.1   | .002                         |
| Any of the above                                     | 90.8  | < .001                       | 90.5   | < .001                       |

Weighted proportions of enrollees who received preventive services (based on claims data) by receipt of PCP visits. See Appendix B for full definitions.

STI is an acronym for sexually transmitted infection.

<sup>1</sup> Of those who reported a PCP visit in the past year, the proportion who had a claim for the preventive service.

<sup>2</sup> Of those with a claim for a primary care visit in the past year, the proportion who had a claim for the preventive service.

<sup>3</sup> Pearson's chi-squared test comparing proportions between those with and without a PCP visit.

<sup>4</sup> Analysis restricted to women 50 and older.

<sup>5</sup> Analysis restricted to women. Excludes HPV

<sup>6</sup> Analysis restricted to women and men 50 and older.

<sup>7</sup> Includes any of the above preventive services with the exception of primary care visit.

**Table 2.5a. Multivariate relationship between primary care visit and cancer screening<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |                |         | Primary care visit in claims data (Model n=4,026) |                |         |
|--|--|----------------|---------|---|----------------|---------|
|  | aOR  | 95% CI         | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 2.71   | [2.05, 3.59]   | < .001  |   |                |         |
| <b>Primary care visit in claims data</b> |  |                |         | 23.22   | [12.59, 42.84] | < .001  |
| <b>Age</b>                               |  |                |         |   |                |         |
| 19-34                                    | Reference  |                |         | Reference   |                |         |
| 35-50                                    | 2.04   | [1.61, 2.58]   | < .001  | 2.10  | [1.65, 2.66]   | < .001  |
| 51-64                                    | 5.38   | [4.08, 7.08]   | < .001  | 5.57  | [4.20, 7.38]   | < .001  |
| <b>Gender</b>                            |  |                |         |   |                |         |
| Male                                     | Reference  |                |         | Reference   |                |         |
| Female                                   | 17.43  | [14.13, 21.51] | < .001  | 17.78   | [14.36, 22.01] | < .001  |
| <b>Race</b>                              |  |                |         |   |                |         |
| White                                    | Reference  |                |         | Reference   |                |         |
| Black or African American                | 1.18   | [0.91, 1.54]   | .214    | 1.19  | [0.91, 1.56]   | .202    |
| Other                                    | .88  | [0.57, 1.36]   | .551    | .74   | [0.47, 1.17]   | .197    |
| More than one                            | .82  | [0.48, 1.40]   | .467    | .90   | [0.52, 1.56]   | .715    |
| <b>Hispanic/Latino</b>                   |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 1.26   | [0.79, 2.02]   | .330    | 1.29  | [0.79, 2.10]   | .312    |
| Don't know                               | .09  | [0.02, 0.52]   | .007    | .07   | [0.01, 0.52]   | .009    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |                |         |   |                |         |
| No                                       | Reference  |                |         |   |                |         |
| Yes                                      | 1.21   | [0.71, 2.06]   | .477    | 1.27  | [0.73, 2.22]   | .389    |
| Don't know                               | 16.85  | [2.33, 121.75] | .005    | 33.35   | [6.12, 181.84] | < .001  |
| <b>Health status</b>                     |  |                |         |   |                |         |
| Excellent                                | Reference  |                |         |   |                |         |
| Very good                                | .73  | [0.49, 1.09]   | .119    | .77   | [0.52, 1.15]   | .196    |
| Good                                     | .87  | [0.59, 1.29]   | .489    | .87   | [0.59, 1.29]   | .493    |
| Fair                                     | 1.04   | [0.68, 1.59]   | .846    | 1.06  | [0.69, 1.61]   | .798    |
| Poor                                     | .99  | [0.59, 1.66]   | .960    | 1.01  | [0.60, 1.69]   | .978    |
| <b>Any chronic disease</b>               |  |                |         |   |                |         |
| No                                       | Reference  |                |         |   |                |         |
| Yes                                      | 1.24   | [0.98, 1.57]   | .069    | 1.19  | [0.93, 1.52]   | .157    |
| <b>Urbanicity</b>                        |  |                |         |   |                |         |
| Rural                                    | Reference  |                |         |   |                |         |
| Urban                                    | .87  | [0.69, 1.10]   | .255    | .90   | [0.71, 1.14]   | .380    |
| <b>Constant</b>                          | .03  | [0.02, 0.06]   | < .001  | .004  | [0.001, 0.008] | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is cancer screening based on claims data. See Appendix B for full definitions.



**Table 2.5b. Multivariate relationship between primary care visit and breast cancer screening<sup>1</sup>**

| Independent variables                                | Self-reported primary care visit <sup>2</sup><br>(Model n=942) |               |         | Primary care visit in claims data <sup>2</sup><br>(Model n=914) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | aOR  | 95% CI        | p-value | aOR   | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>                     | 6.57   | [3.70, 11.68] | < .001  |   |               |         |
| <b>Primary care visit in claims data<sup>3</sup></b> |  |               |         | -   | -             | -       |
| <b>Age</b>   |  |               |         |   |               |         |
| 19-34  | Reference  |               |         | Reference   |               |         |
| 35-50  | -  | -             | -       | -   | -             | -       |
| 51-64  | .78  | [0.37, 1.62]  | .505    | .68   | [0.32, 1.45]  | .314    |
| <b>Gender</b>  |  |               |         |   |               |         |
| Male   | Reference  |               |         | Reference   |               |         |
| Female   | -  | -             | -       | -   | -             | -       |
| <b>Race</b>  |  |               |         |   |               |         |
| White  | Reference  |               |         | Reference   |               |         |
| Black or African American                            | 1.42   | [0.86, 2.36]  | .174    | 1.28  | [0.72, 2.28]  | .393    |
| Other  | .74  | [0.27, 2.02]  | .559    | .75   | [0.27, 2.03]  | .567    |
| More than one  | 1.34   | [0.46, 3.92]  | .598    | .98   | [0.33, 2.89]  | .964    |
| <b>Hispanic/Latino</b>                               |  |               |         |   |               |         |
| No   | Reference  |               |         | Reference   |               |         |
| Yes  | 1.34   | [0.51, 3.55]  | .550    | 1.06  | [0.39, 2.87]  | .913    |
| Don't know   | 1.0  | -             | -       | 1.0   | -             | -       |
| <b>Arab/Chaldean/Middle Eastern</b>                  |  |               |         |   |               |         |
| No   | Reference  |               |         | Reference   |               |         |
| Yes  | .62  | [0.16, 2.41]  | .492    | .55   | [0.14, 2.16]  | .393    |
| Don't know   | -  | -             | -       | -   | -             | -       |
| <b>Health status</b>                                 |  |               |         |   |               |         |
| Excellent  | Reference  |               |         | Reference   |               |         |
| Very good  | 1.06   | [0.49, 2.29]  | .883    | .90   | [0.33, 2.45]  | .837    |
| Good   | 1.60   | [0.75, 3.44]  | .227    | 1.40  | [0.52, 3.79]  | .503    |
| Fair   | 1.37   | [0.62, 3.01]  | .433    | 1.48  | [0.54, 4.07]  | .444    |
| Poor   | .92  | [0.36, 2.34]  | .867    | .90   | [0.30, 2.72]  | .846    |
| <b>Any chronic disease</b>                           |  |               |         |   |               |         |
| No   | Reference  |               |         | Reference   |               |         |
| Yes  | 1.14   | [0.68, 1.91]  | .618    | 1.36  | [0.80, 2.30]  | .256    |
| <b>Urbanicity</b>                                    |  |               |         |   |               |         |
| Rural  | Reference  |               |         | Reference   |               |         |
| Urban  | .84  | [0.57, 1.24]  | .380    | .94   | [0.59, 1.49]  | .793    |
| <b>Constant</b>                                      | .44  | [0.14, 1.33]  | .146    | 2.72  | [0.72, 10.20] | .139    |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is breast cancer screening based on claims data. See Appendix B for full definitions.

<sup>2</sup> Model restricted to women 50 and older.

<sup>3</sup> Primary care visit predicts breast cancer perfectly (no individuals without a primary care visit had breast cancer screening).

**Table 2.5c. Multivariate relationship between primary care visit and cervical cancer screening<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit <sup>2</sup> (Model n=2,375) |              |         | Primary care visit in claims data <sup>2</sup> (Model n=2,375) |               |         |
|--|---|--------------|---------|--|---------------|---------|
|  | aOR   | 95% CI       | p-value | aOR  | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 2.15  | [1.59, 2.91] | < .001  |  |               |         |
| <b>Primary care visit in claims data</b> |   |              |         | 11.86  | [6.42, 21.90] | < .001  |
| <b>Age</b>                               |   |              |         |  |               |         |
| 19-34                                    | Reference   |              |         | Reference  |               |         |
| 35-50                                    | 1.09  | [0.83, 1.42] | .528    | 1.09   | [0.83, 1.42]  | .549    |
| 51-64                                    | .68   | [0.52, 0.88] | .003    | .68  | [0.52, 88]    | .003    |
| <b>Gender</b>                            |   |              |         |  |               |         |
| Male                                     | Reference   |              |         | Reference  |               |         |
| Female                                   | -   | -            | -       | -  | -             | -       |
| <b>Race</b>                              |   |              |         |  |               |         |
| White                                    | Reference   |              |         | Reference  |               |         |
| Black or African American                | 1.29  | [0.98, 1.70] | .074    | 1.27   | [0.96, 1.68]  | .094    |
| Other                                    | .87   | [0.53, 1.42] | .572    | .75  | [0.45, 1.24]  | .261    |
| More than one                            | .57   | [0.32, 1.04] | .068    | .60  | [0.33, 1.08]  | .090    |
| <b>Hispanic/Latino</b>                   |   |              |         |  |               |         |
| No                                       | Reference   |              |         | Reference  |               |         |
| Yes                                      | 1.38  | [0.83, 2.31] | .213    | 1.33   | 1.04          | .298    |
| Don't know                               | 1.0   | -            | -       | 1.0  | -             | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |   |              |         |  |               |         |
| No                                       | Reference   |              |         | Reference  |               |         |
| Yes                                      | 1.31  | [0.75, 2.28] | .348    | 1.31   | [0.74, 2.32]  | .360    |
| Don't know                               | 1.0   | -            | -       | -  | -             | -       |
| <b>Health status</b>                     |   |              |         |  |               |         |
| Excellent                                | Reference   |              |         | Reference  |               |         |
| Very good                                | .83   | [0.54, 1.28] | .408    | .86  | [0.56, 1.34]  | .512    |
| Good                                     | .81   | [0.53, 1.23] | .322    | .82  | [0.53, 1.25]  | .355    |
| Fair                                     | .80   | [0.51, 1.27] | .350    | .82  | [0.52, 1.30]  | .404    |
| Poor                                     | .56   | [0.31, .99]  | .048    | .57  | [0.32, 1.03]  | .062    |
| <b>Any chronic disease</b>               |   |              |         |  |               |         |
| No                                       | Reference   |              |         | Reference  |               |         |
| Yes                                      | .95   | [0.73, 1.24] | .710    | .90  | [0.69, 1.18]  | .443    |
| <b>Urbanicity</b>                        |   |              |         |  |               |         |
| Rural                                    | Reference   |              |         | Reference  |               |         |
| Urban                                    | .84   | [0.66, 1.06] | .135    | .87  | [0.68, 1.10]  | .243    |
| <b>Constant</b>                          | .92   | [0.57, 1.49] | .733    | .17  | [0.08, 0.34]  | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is cervical cancer screening (excludes HPV testing) based on claims data. See Appendix B for full definitions.

<sup>2</sup> Model restricted to women.

**Table 2.5d. Multivariate relationship between primary care visit and colorectal cancer screening<sup>1</sup>**

| Independent variables                                | Self-reported primary care visit <sup>2</sup><br>(Model n=1,550) |              |         | Primary care visit in claims data <sup>2</sup><br>(Model n=1,487) |              |         |
|--|--|--------------|---------|---|--------------|---------|
|  | aOR  | 95% CI       | p-value | aOR   | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>                     | 4.33   | [2.60, 7.22] | < .001  |   |              |         |
| <b>Primary care visit in claims data<sup>3</sup></b> |  |              |         | -   | -            | -       |
| <b>Age</b>   |  |              |         |   |              |         |
| 19-34  | Reference  |              |         | Reference   |              |         |
| 35-50  | -  | -            | -       | -   | -            | -       |
| 51-64  | 1.31   | [0.77, 2.22] | 0.314   | 1.24  | [0.72, 2.13] | .44     |
| <b>Gender</b>  |  |              |         |   |              |         |
| Male   | Reference  |              |         | Reference   |              |         |
| Female   | 1.19   | [0.92, 1.54] | .190    | 1.24  | [0.96, 1.61] | .102    |
| <b>Race</b>  |  |              |         |   |              |         |
| White  | Reference  |              |         | Reference   |              |         |
| Black or African American                            | 1.28   | [0.91, 1.80] | .164    | 1.18  | [0.83, 1.66] | .356    |
| Other  | 1.06   | [0.59, 1.90] | .851    | .99   | [0.55, 1.79] | .975    |
| More than one  | .68  | [0.30, 1.52] | .342    | .75   | [0.34, 1.66] | .477    |
| <b>Hispanic/Latino</b>                               |  |              |         |   |              |         |
| No   | Reference  |              |         | Reference   |              |         |
| Yes  | .86  | [0.44, 1.65] | .641    | .83   | [0.42, 1.63] | .582    |
| Don't know   | 1.0  | -            | -       | 1.0   | -            | -       |
| <b>Arab/Chaldean/Middle Eastern</b>                  |  |              |         |   |              |         |
| No   | Reference  |              |         | Reference   |              |         |
| Yes  | 1.14   | [0.49, 2.66] | .762    | 1.17  | [0.49, 2.83] | .719    |
| Don't know   | 1.0  | -            | -       | 1.0   | -            | -       |
| <b>Health status</b>                                 |  |              |         |   |              |         |
| Excellent  | Reference  |              |         | Reference   |              |         |
| Very good  | 2.59   | [1.34, 5.00] | .004    | 2.48  | [1.27, 4.85] | .008    |
| Good   | 3.30   | [1.74, 6.28] | < .001  | 3.01  | [1.56, 5.80] | .001    |
| Fair   | 2.75   | [1.42, 5.35] | .003    | 2.61  | [1.33, 5.12] | .005    |
| Poor   | 3.57   | [1.72, 7.37] | .001    | 3.47  | [1.67, 7.23] | .001    |
| <b>Any chronic disease</b>                           |  |              |         |   |              |         |
| No   | Reference  |              |         | Reference   |              |         |
| Yes  | .71  | [0.49, 1.04] | .082    | .84   | [0.58, 1.23] | .380    |
| <b>Urbanicity</b>                                    |  |              |         |   |              |         |
| Rural  | Reference  |              |         | Reference   |              |         |
| Urban  | .85  | [0.65, 1.11] | .236    | .90   | [0.69, 1.18] | .446    |
| <b>Constant</b>                                      | .07  | [0.03, 0.16] | < .001  | .25   | [0.11, 0.56] | .001    |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is colorectal cancer screening based on claims data. See Appendix B for full definitions.

<sup>2</sup> Model restricted to men and women ages 50 and over.

<sup>3</sup> Primary care visit predicts colorectal cancer perfectly (no individuals without a primary care visit had a colorectal cancer screening).

**Table 2.5e. Multivariate relationship between primary care visit and Diabetes Prevention Program<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,012) |                |         | Primary care visit in claims data (Model n=4,012) |                |         |
|--|--|----------------|---------|---|----------------|---------|
|  | aOR  | 95% CI         | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.31   | [0.53, 3.20]   | .558    |   |                |         |
| <b>Primary care visit in claims data</b> |  |                |         | 2.45  | [0.35, 17.32]  | .369    |
| <b>Age</b>                               |  |                |         |   |                |         |
| 19-34                                    | Reference  |                |         | Reference   |                |         |
| 35-50                                    | 2.03   | [0.94, 4.36]   | .071    | 2.01  | [0.91, 4.46]   | .085    |
| 51-64                                    | 1.98   | [0.93, 4.21]   | .075    | 1.95  | [0.89, 4.28]   | .096    |
| <b>Gender</b>                            |  |                |         |   |                |         |
| Male                                     | Reference  |                |         | Reference   |                |         |
| Female                                   | .72  | [0.40, 1.29]   | .268    | .70   | [0.39, 1.27]   | .244    |
| <b>Race</b>                              |  |                |         |   |                |         |
| White                                    | Reference  |                |         | Reference   |                |         |
| Black or African American                | 1.74   | [0.85, 3.60]   | .129    | 1.76  | [0.86, 3.62]   | .124    |
| Other                                    | .85  | [0.23, 3.20]   | .811    | .85   | [0.23, 3.19]   | .813    |
| More than one                            | .28  | [0.03, 2.22]   | .227    | .29   | [0.04, 2.34]   | .246    |
| <b>Hispanic/Latino</b>                   |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 2.90   | [1.01, 8.31]   | .048    | 2.90  | [1.01, 8.33]   | .048    |
| Don't know                               | 1.0  | -              | -       | 1.0   | -              | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | .54  | [0.06, 4.83]   | .579    | .53   | [0.06, 4.71]   | .568    |
| Don't know                               | 1.0  | -              | -       | 1.0   | -              | -       |
| <b>Health status</b>                     |  |                |         |   |                |         |
| Excellent                                | Reference  |                |         | Reference   |                |         |
| Very good                                | 1.74   | [0.21, 14.44]  | .607    | 1.83  | [0.23, 14.74]  | .572    |
| Good                                     | 1.29   | [0.16, 10.50]  | .813    | 1.30  | [0.16, 10.50]  | .807    |
| Fair                                     | 1.45   | [0.17, 12.12]  | .730    | 1.46  | [0.18, 11.97]  | .726    |
| Poor                                     | 1.57   | [0.17, 14.39]  | .690    | 1.58  | [0.18, 14.18]  | .683    |
| <b>Any chronic disease</b>               |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 8.50   | [1.85, 39.01]  | .006    | 8.21  | [1.90, 35.60]  | .005    |
| <b>Urbanicity</b>                        |  |                |         |   |                |         |
| Rural                                    | Reference  |                |         | Reference   |                |         |
| Urban                                    | .58  | [0.31, 1.09]   | .089    | 0.58  | [0.31, 1.09]   | .089    |
| <b>Constant</b>                          | .001   | [0.000, 0.012] | < .001  | .001  | [0.000, 0.019] | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is a claim for a diabetes prevention program. See Appendix B for full definitions.

Table 2.5f. Multivariate relationship between primary care visit and dental care<sup>1</sup>

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | aOR  | 95% CI        | p-value | aOR   | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.42   | [1.14, 1.77]  | .002    |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 2.13  | [1.53, 2.96]  | < .001  |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | Reference  |               |         | Reference   |               |         |
| 35-50                                    | 1.15   | [0.93, 1.42]  | .185    | 1.14  | [0.92, 1.40]  | .227    |
| 51-64                                    | 1.05   | [0.86, 1.28]  | .638    | 1.03  | [0.85, 1.26]  | .762    |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | Reference  |               |         | Reference   |               |         |
| Female                                   | 1.30   | [1.10, 1.53]  | .002    | 1.26  | [1.06, 1.48]  | .007    |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | Reference  |               |         | Reference   |               |         |
| Black or African American                | 0.93   | [0.75, 1.15]  | .493    | .95   | [0.77, 1.18]  | .659    |
| Other                                    | 0.76   | [0.52, 1.09]  | .134    | .75   | [0.51, 1.09]  | .130    |
| More than one                            | .80  | [0.52, 1.23]  | .313    | .86   | [0.56, 1.32]  | .495    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | .94  | [0.63, 1.41]  | .769    | .93   | [0.62, 1.40]  | .734    |
| Don't know                               | .58  | [0.15, 2.29]  | .435    | .60   | [0.15, 2.35]  | .465    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | 2.71   | [1.74, 4.20]  | < .001  | 2.73  | [1.75, 4.24]  | < .001  |
| Don't know                               | 1.98   | [0.28, 13.88] | .491    | 2.15  | [0.36, 12.79] | .401    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | Reference  |               |         | Reference   |               |         |
| Very good                                | .62  | [0.45, 0.86]  | .005    | .65   | [0.46, 0.90]  | .011    |
| Good                                     | .76  | [0.55, 1.06]  | .108    | .77   | [0.55, 1.07]  | .121    |
| Fair                                     | .66  | [0.47, 0.94]  | .023    | .66   | [0.47, 0.95]  | .024    |
| Poor                                     | .59  | [0.38, 0.90]  | .015    | .59   | [0.38, 0.90]  | .015    |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | 1.03   | [0.83, 1.27]  | .798    | 1.00  | [0.81, 1.24]  | .964    |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | Reference  |               |         | Reference   |               |         |
| Urban                                    | .87  | [0.73, 1.05]  | .142    | .88   | [0.73, 1.05]  | .158    |
| <b>Constant</b>                          | 1.43   | [0.99, 2.05]  | .054    | .98   | [0.63, 1.52]  | .914    |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is a claim for dental services. See Appendix B for full definitions.

Table 2.5g. Multivariate relationship between primary care visit and any nutrition services<sup>1</sup>

| Independent variables                    | Self-reported primary care visit (Model n=4,012) |                |         | Primary care visit in claims data (Model n=4,012) |                |         |
|--|--|----------------|---------|---|----------------|---------|
|  | aOR  | 95% CI         | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.88   | [0.80, 4.39]   | .145    |   |                |         |
| <b>Primary care visit in claims data</b> |  |                |         | 3.36  | [0.48, 23.46]  | .222    |
| <b>Age</b>                               |  |                |         |   |                |         |
| 19-34                                    | Reference  |                |         | Reference   |                |         |
| 35-50                                    | 1.97   | [1.01, 3.84]   | .047    | 1.98  | [1.01, 3.90]   | .048    |
| 51-64                                    | 1.42   | [0.73, 2.76]   | .305    | 1.44  | [0.73, 2.84]   | .291    |
| <b>Gender</b>                            |  |                |         |   |                |         |
| Male                                     | Reference  |                |         | Reference   |                |         |
| Female                                   | 1.03   | [0.61, 1.76]   | .899    | 1.03  | [0.60, 1.75]   | .923    |
| <b>Race</b>                              |  |                |         |   |                |         |
| White                                    | Reference  |                |         | Reference   |                |         |
| Black or African American                | 1.35   | [0.70, 2.57]   | .367    | 1.35  | [0.70, 2.57]   | .369    |
| Other                                    | 1.17   | [0.38, 3.66]   | .783    | 1.15  | [0.37, 3.54]   | .808    |
| More than one                            | .83  | [0.23, 3.02]   | .779    | .88   | [0.24, 3.23]   | .853    |
| <b>Hispanic/Latino</b>                   |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 1.45   | [0.52, 4.03]   | .480    | 1.44  | [0.52, 4.01]   | .487    |
| Don't know                               | 1.0  | -              | -       | 1.0   | -              | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | .25  | [0.03, 2.29]   | .221    | .26   | [0.03, 2.28]   | .222    |
| Don't know                               | 1.0  | -              | -       | 1.0   | -              | -       |
| <b>Health status</b>                     |  |                |         |   |                |         |
| Excellent                                | Reference  |                |         | Reference   |                |         |
| Very good                                | 2.14   | [0.27, 17.00]  | .472    | 2.26  | [0.29, 17.68]  | .437    |
| Good                                     | 1.96   | [0.25, 15.26]  | .519    | 2.00  | [0.26, 15.46]  | .506    |
| Fair                                     | 2.83   | [0.35, 22.95]  | .329    | 2.90  | [0.36, 23.26]  | .316    |
| Poor                                     | 3.12   | [0.35, 28.11]  | .310    | 3.21  | [0.36, 28.60]  | .296    |
| <b>Any chronic disease</b>               |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 6.94   | [2.02, 23.90]  | .002    | 6.90  | [2.08, 22.94]  | .002    |
| <b>Urbanicity</b>                        |  |                |         |   |                |         |
| Rural                                    | Reference  |                |         | Reference   |                |         |
| Urban                                    | .91  | [0.51, 1.60]   | .734    | .91   | [0.52, 1.61]   | .759    |
| <b>Constant</b>                          | .001   | [0.000, 0.007] | < .001  | .000  | [0.000, 0.009] | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is a claim for any nutrition services. See Appendix B for full definitions.

**Table 2.5h. Multivariate relationship between primary care visit and HPV testing<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |                 |         | Primary care visit in claims data (Model n=4,026) |                 |         |
|--|--|-----------------|---------|---|-----------------|---------|
|  | aOR  | 95% CI          | p-value | aOR   | 95% CI          | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.67   | [1.17, 2.37]    | .005    |   |                 |         |
| <b>Primary care visit in claims data</b> |  |                 |         | 5.26  | [2.45, 11.32]   | < .001  |
| <b>Age</b>                               |  |                 |         |   |                 |         |
| 19-34                                    | Reference  |                 |         | Reference   |                 |         |
| 35-50                                    | 1.69   | [1.28, 2.23]    | < .001  | 1.70  | [1.28, 2.24]    | < .001  |
| 51-64                                    | 1.17   | [0.88, 1.56]    | .274    | 1.18  | [0.89, 1.58]    | .252    |
| <b>Gender</b>                            |  |                 |         |   |                 |         |
| Male                                     | Reference  |                 |         | Reference   |                 |         |
| Female                                   | 218.93   | [64.19, 46.70]  | < .001  | 210.87  | [62.00, 717.22] | < .001  |
| <b>Race</b>                              |  |                 |         |   |                 |         |
| White                                    | Reference  |                 |         | Reference   |                 |         |
| Black or African American                | 1.28   | [0.96, 1.72]    | .092    | 1.28  | [0.95, 1.70]    | .100    |
| Other                                    | .98  | [0.57, 1.68]    | .940    | .90   | [0.52, 1.55]    | .701    |
| More than one                            | .87  | [0.45, 1.68]    | .677    | .89   | [0.46, 1.71]    | .727    |
| <b>Hispanic/Latino</b>                   |  |                 |         |   |                 |         |
| No                                       | Reference  |                 |         | Reference   |                 |         |
| Yes                                      | .94  | [0.55, 1.61]    | .826    | .92   | [0.54, 1.59]    | .774    |
| Don't know                               | .13  | [0.03, 0.53]    | .004    | .12   | [0.03, 0.51]    | .004    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |                 |         |   |                 |         |
| No                                       | Reference  |                 |         | Reference   |                 |         |
| Yes                                      | 1.32   | [0.71, 2.48]    | .379    | 1.32  | [0.71, 2.45]    | .337    |
| Don't know                               | 57.50  | [13.65, 242.26] | < .001  | 69.64   | [14.57, 332.89] | < .001  |
| <b>Health status</b>                     |  |                 |         |   |                 |         |
| Excellent                                | Reference  |                 |         | Reference   |                 |         |
| Very good                                | .69  | [0.42, 1.12]    | .131    | .70   | [0.43, 1.14]    | .152    |
| Good                                     | .93  | [0.58, 1.48]    | .760    | .95   | [0.60, 1.50]    | .818    |
| Fair                                     | 1.03   | [0.63, 1.68]    | .918    | 1.05  | [0.65, 1.72]    | .831    |
| Poor                                     | .58  | [0.30, 1.12]    | .105    | .60   | [0.31, 1.15]    | .125    |
| <b>Any chronic disease</b>               |  |                 |         |   |                 |         |
| No                                       | Reference  |                 |         | Reference   |                 |         |
| Yes                                      | .86  | [0.65, 1.14]    | .304    | .83   | [0.63, 1.10]    | .202    |
| <b>Urbanicity</b>                        |  |                 |         |   |                 |         |
| Rural                                    | Reference  |                 |         | Reference   |                 |         |
| Urban                                    | 1.20   | [0.93, 1.56]    | .165    | 1.23  | [0.94, 1.60]    | .131    |
| <b>Constant</b>                          | .001   | [0.000, 0.003]  | < .001  | .000  | [0.000, 0.001]  | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is HPV testing based on claims data. See Appendix B for full definitions.

**Table 2.5i. Multivariate relationship between primary care visit and STI testing<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | aOR  | 95% CI        | p-value | aOR   | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.44   | [1.02, 2.05]  | .038    |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 5.10  | [2.80, 9.29]  | < .001  |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | Reference  |               |         | Reference   |               |         |
| 35-50                                    | .49  | [0.36, 0.65]  | < .001  | .47   | [0.35, 0.63]  | < .001  |
| 51-64                                    | .29  | [0.21, 0.40]  | < .001  | .28   | [0.21, 0.39]  | < .001  |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | Reference  |               |         | Reference   |               |         |
| Female                                   | 3.73   | [2.80, 4.98]  | < .001  | 3.47  | [2.60, 4.62]  | < .001  |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | Reference  |               |         | Reference   |               |         |
| Black or African American                | 2.39   | [1.79, 3.18]  | < .001  | 2.47  | [1.86, 3.29]  | < .001  |
| Other                                    | 1.08   | [0.58, 2.02]  | .798    | 1.05  | [0.57, 1.96]  | .869    |
| More than one                            | 1.34   | [0.75, 2.40]  | .323    | 1.48  | [0.82, 2.66]  | .195    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | 1.02   | [0.58, 1.78]  | .953    | 1.00  | [0.57, 1.77]  | 1.00    |
| Don't know                               | .24  | [0.04, 1.42]  | .115    | .24   | [0.04, 1.47]  | .122    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | .81  | [0.41, 1.62]  | .559    | .80   | [0.40, 1.60]  | .530    |
| Don't know                               | 8.99   | [1.33, 60.86] | .024    | 10.25   | [1.41, 74.47] | .021    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | Reference  |               |         | Reference   |               |         |
| Very good                                | .85  | [0.54, 1.33]  | .480    | .91   | [0.58, 1.43]  | .690    |
| Good                                     | .77  | [0.50, 1.20]  | .257    | .79   | [0.51, 1.23]  | .305    |
| Fair                                     | .97  | [0.61, 1.56]  | .914    | .98   | [0.62, 1.57]  | .948    |
| Poor                                     | .91  | [0.48, 1.74]  | .776    | .92   | [0.48, 1.76]  | .806    |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | 1.46   | [1.08, 1.98]  | .013    | 1.39  | [1.03, 1.87]  | .030    |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | Reference  |               |         | Reference   |               |         |
| Urban                                    | 1.87   | [1.35, 2.58]  | < .001  | 1.90  | [1.38, 2.62]  | < .001  |
| <b>Constant</b>                          | .03  | [0.02, 0.06]  | < .001  | .01   | [0.00, 0.02]  | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is STI testing based on claims data. See Appendix B for full definitions.



**Table 2.5j. Multivariate relationship between primary care visit and prescribed HMG CoA Reductase inhibitor<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |                |         | Primary care visit in claims data (Model n=4,026) |                |         |
|--|--|----------------|---------|---|----------------|---------|
|  | aOR  | 95% CI         | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 3.88   | [2.47, 6.10]   | < .001  |   |                |         |
| <b>Primary care visit in claims data</b> |  |                |         | 13.75   | [2.97, 63.56]  | .001    |
| <b>Age</b>                               |  |                |         |   |                |         |
| 19-34                                    | Reference  |                |         | Reference   |                |         |
| 35-50                                    | 10.21  | [6.80, 15.31]  | < .001  | 10.37   | [6.92, 15.53]  | < .001  |
| 51-64                                    | 20.09  | [13.57, 29.76] | < .001  | 20.57   | [13.88, 30.49] | < .001  |
| <b>Gender</b>                            |  |                |         |   |                |         |
| Male                                     | Reference  |                |         | Reference   |                |         |
| Female                                   | .57  | [0.46, 0.71]   | < .001  | .57   | [0.46, 0.71]   | < .001  |
| <b>Race</b>                              |  |                |         |   |                |         |
| White                                    | Reference  |                |         | Reference   |                |         |
| Black or African American                | 1.12   | [0.83, 1.51]   | .455    | 1.10  | [0.82, 1.47]   | .543    |
| Other                                    | .93  | [0.59, 1.47]   | .749    | .90   | [0.57, 1.42]   | .642    |
| More than one                            | .85  | [0.47, 1.52]   | .585    | .96   | [0.50, 1.84]   | .894    |
| <b>Hispanic/Latino</b>                   |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 1.05   | [0.61, 1.81]   | .865    | 1.01  | [0.60, 1.71]   | .973    |
| Don't know                               | .47  | [0.03, 6.74]   | .581    | 14.17   | [1.79, 112.31] | .012    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 1.88   | [1.07, 3.28]   | .027    | 1.93  | [1.13, 3.32]   | .017    |
| Don't know                               | .47  | [0.03, 6.74]   | .581    | .45   | [0.03, 7.05]   | .566    |
| <b>Health status</b>                     |  |                |         |   |                |         |
| Excellent                                | Reference  |                |         | Reference   |                |         |
| Very good                                | .99  | [0.49, 1.99]   | .974    | 1.07  | [0.53, 2.14]   | .852    |
| Good                                     | 1.19   | [0.61, 2.33]   | .604    | 1.21  | [0.62, 2.34]   | .579    |
| Fair                                     | 2.31   | [1.17, 4.53]   | .015    | 2.38  | [1.22, 4.63]   | .011    |
| Poor                                     | 1.92   | [0.93, 3.94]   | .077    | 2.00  | [0.98, 4.06]   | .056    |
| <b>Any chronic disease</b>               |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 4.61   | [3.07, 6.92]   | < .001  | 4.84  | [3.23, 7.27]   | < .001  |
| <b>Urbanicity</b>                        |  |                |         |   |                |         |
| Rural                                    | Reference  |                |         | Reference   |                |         |
| Urban                                    | 1.06   | [0.84, 1.33]   | .647    | 1.08  | [0.86, 1.36]   | .497    |
| <b>Constant</b>                          | .001   | [0.001, 0.004] | < .001  | .000  | [0.000, 0.002] | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is Prescribed HMG CoA Reductase inhibitor based on claims data. See Appendix B for full definitions.

**Table 2.5k. Multivariate relationship between primary care visit and nicotine replacement and/or Varenicline prescription<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,012) |              |         | Primary care visit in claims data (Model n=4,012) |                |         |
|--|--|--------------|---------|---|----------------|---------|
|  | aOR  | 95% CI       | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.97   | [1.33, 2.92] | .001    |   |                |         |
| <b>Primary care visit in claims data</b> |  |              |         | 15.00   | [4.64, 48.44]  | < .001  |
| <b>Age</b>                               |  |              |         |   |                |         |
| 19-34                                    | Reference  |              |         | Reference   |                |         |
| 35-50                                    | 1.69   | [1.21, 2.37] | .002    | 1.68  | [1.20, 2.35]   | .003    |
| 51-64                                    | 1.94   | [1.41, 2.67] | < .001  | 1.93  | [1.40, 2.64]   | < .001  |
| <b>Gender</b>                            |  |              |         |   |                |         |
| Male                                     | Reference  |              |         | Reference   |                |         |
| Female                                   | 1.02   | [0.80, 1.29] | .900    | 1.00  | [0.79, 1.26]   | .979    |
| <b>Race</b>                              |  |              |         |   |                |         |
| White                                    | Reference  |              |         | Reference   |                |         |
| Black or African American                | .69  | [0.49, 0.96] | .027    | .70   | [0.50, 0.98]   | .036    |
| Other                                    | .79  | [0.40, 1.58] | .511    | .78   | [0.39, 1.54]   | .474    |
| More than one                            | .59  | [0.28, 1.25] | .167    | .64   | [0.30, 1.37]   | .252    |
| <b>Hispanic/Latino</b>                   |  |              |         |   |                |         |
| No                                       | Reference  |              |         | Reference   |                |         |
| Yes                                      | .79  | [0.39, 1.57] | .497    | .78   | [0.39, 1.55]   | .477    |
| Don't know                               | 1.0  | -            | -       | 1.0   | -              | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |              |         |   |                |         |
| No                                       | Reference  |              |         | Reference   |                |         |
| Yes                                      | .45  | [0.16, 1.26] | .130    | .46   | [0.17, 1.26]   | .129    |
| Don't know                               | 1.0  | -            | -       | 1.0   | -              | -       |
| <b>Health status</b>                     |  |              |         |   |                |         |
| Excellent                                | Reference  |              |         | Reference   |                |         |
| Very good                                | 1.30   | [0.69, 2.46] | .420    | 1.39  | [0.73, 2.63]   | .319    |
| Good                                     | 1.66   | [0.89, 3.09] | .111    | 1.69  | [0.90, 3.16]   | .100    |
| Fair                                     | 2.09   | [1.09, 4.00] | .027    | 2.13  | [1.11, 4.10]   | .024    |
| Poor                                     | 3.40   | [1.69, 6.83] | .001    | 3.46  | [1.73, 6.94]   | < .001  |
| <b>Any chronic disease</b>               |  |              |         |   |                |         |
| No                                       | Reference  |              |         | Reference   |                |         |
| Yes                                      | 1.50   | [0.99, 2.27] | .058    | 1.46  | [0.96, 2.21]   | .077    |
| <b>Urbanicity</b>                        |  |              |         |   |                |         |
| Rural                                    | Reference  |              |         | Reference   |                |         |
| Urban                                    | .91  | [0.71, 1.18] | .481    | .92   | [0.72, 1.19]   | .541    |
| <b>Constant</b>                          | .03  | [0.01, 0.05] | < .001  | .003  | [0.001, 0.012] | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup>Dependent variable is Nicotine replacement and/or Varenicline prescription based on claims data. See Appendix B for full definitions.

**Table 2.5I. Multivariate relationship between primary care visit and vaccines (any)<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |                |         | Primary care visit in claims data (Model n=4,026) |                |         |
|--|--|----------------|---------|---|----------------|---------|
|  | aOR  | 95% CI         | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 2.05   | [1.62, 2.61]   | < .001  |   |                |         |
| <b>Primary care visit in claims data</b> |  |                |         | 4.21  | [2.73, 6.48]   | < .001  |
| <b>Age</b>                               |  |                |         |   |                |         |
| 19-34                                    | Reference  |                |         | Reference   |                |         |
| 35-50                                    | 1.25   | [1.02, 1.54]   | .031    | 1.24  | [1.01, 1.52]   | .038    |
| 51-64                                    | 1.48   | [1.21, 1.82]   | < .001  | 1.47  | [1.21, 1.80]   | < .001  |
| <b>Gender</b>                            |  |                |         |   |                |         |
| Male                                     | Reference  |                |         | Reference   |                |         |
| Female                                   | 1.05   | [0.89, 1.24]   | .576    | 1.01  | [0.86, 1.19]   | .899    |
| <b>Race</b>                              |  |                |         |   |                |         |
| White                                    | Reference  |                |         | Reference   |                |         |
| Black or African American                | .79  | [0.63, 0.98]   | .034    | .81   | [0.65, 1.01]   | .059    |
| Other                                    | 1.23   | [0.87, 1.74]   | .250    | 1.20  | [0.85, 1.70]   | .303    |
| More than one                            | .95  | [0.61, 1.46]   | .802    | 1.07  | [0.69, 1.65]   | .764    |
| <b>Hispanic/Latino</b>                   |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | .95  | [0.64, 1.42]   | .810    | .94   | [0.63, 1.39]   | .744    |
| Don't know                               | 1.22   | [0.29, 5.24]   | .787    | 1.39  | [0.33, 5.94]   | .656    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | .95  | [0.64, 1.40]   | .782    | .96   | [0.65, 1.43]   | .847    |
| Don't know                               | 12.86  | [1.04, 159.74] | .047    | 18.68   | [0.98, 355.82] | .052    |
| <b>Health status</b>                     |  |                |         |   |                |         |
| Excellent                                | Reference  |                |         | Reference   |                |         |
| Very good                                | 1.20   | [0.86, 1.68]   | .276    | 1.29  | [0.92, 1.80]   | .141    |
| Good                                     | 1.25   | [0.91, 1.73]   | .173    | 1.27  | [0.92, 1.76]   | .151    |
| Fair                                     | 1.70   | [1.20, 2.40]   | .003    | 1.72  | [1.21, 2.43]   | .002    |
| Poor                                     | 1.73   | [1.14, 2.64]   | .010    | 1.76  | [1.15, 2.68]   | .009    |
| <b>Any chronic disease</b>               |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 1.36   | [1.10, 1.68]   | .005    | 1.34  | [1.09, 1.66]   | .005    |
| <b>Urbanicity</b>                        |  |                |         |   |                |         |
| Rural                                    | Reference  |                |         | Reference   |                |         |
| Urban                                    | 1.03   | [0.86, 1.23]   | .762    | 1.04  | [0.87, 1.25]   | .670    |
| <b>Constant</b>                          | .22  | [0.15, 0.33]   | < .001  | .10   | [0.06, 0.18]   | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is a claim for any vaccination. See Appendix B for full definitions.

**Table 2.5m. Multivariate relationship between primary care visit and Influenza vaccine<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |                |         | Primary care visit in claims data (Model n=4,026) |                |         |
|--|--|----------------|---------|---|----------------|---------|
|  | aOR  | 95% CI         | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 2.20   | [1.69, 2.87]   | < .001  |   |                |         |
| <b>Primary care visit in claims data</b> |  |                |         | 6.96  | [4.13, 11.73]  | < .001  |
| <b>Age</b>                               |  |                |         |   |                |         |
| 19-34                                    | Reference  |                |         | Reference   |                |         |
| 35-50                                    | 1.29   | [1.04, 1.61]   | .023    | 1.28  | [1.03, 1.60]   | .028    |
| 51-64                                    | 1.70   | [1.37, 2.10]   | < .001  | 1.68  | [1.36, 2.08]   | < .001  |
| <b>Gender</b>                            |  |                |         |   |                |         |
| Male                                     | Reference  |                |         | Reference   |                |         |
| Female                                   | 1.14   | [0.96, 1.36]   | .143    | 1.10  | [0.93, 1.31]   | .268    |
| <b>Race</b>                              |  |                |         |   |                |         |
| White                                    | Reference  |                |         | Reference   |                |         |
| Black or African American                | .77  | [0.62, 0.97]   | .029    | .79   | [0.63, 1.00]   | .044    |
| Other                                    | 1.43   | [1.00, 2.05]   | .048    | 1.40  | [0.98, 2.00]   | .063    |
| More than one                            | .80  | [0.50, 1.27]   | .337    | .89   | [0.56, 1.42]   | .619    |
| <b>Hispanic/Latino</b>                   |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | .93  | [0.62, 1.40]   | .724    | .91   | [0.60, 1.38]   | .670    |
| Don't know                               | .82  | [0.13, 5.19]   | .830    | .88   | [.12, 6.41]    | .903    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | .97  | [0.65, 1.46]   | .896    | .99   | [0.65, 1.48]   | .946    |
| Don't know                               | 12.70  | [1.47, 109.99] | .021    | 21.38   | [1.02, 448.78] | .049    |
| <b>Health status</b>                     |  |                |         |   |                |         |
| Excellent                                | Reference  |                |         | Reference   |                |         |
| Very good                                | 1.27   | [0.87, 1.84]   | .213    | 1.34  | [0.92, 1.96]   | .123    |
| Good                                     | 1.68   | [1.17, 2.41]   | .005    | 1.70  | [1.18, 2.45]   | .004    |
| Fair                                     | 2.21   | [1.51, 3.24]   | < .001  | 2.23  | [1.52, 3.28]   | < .001  |
| Poor                                     | 2.24   | [1.42, 3.53]   | .001    | 2.27  | [1.44, 3.57]   | < .001  |
| <b>Any chronic disease</b>               |  |                |         |   |                |         |
| No                                       | Reference  |                |         | Reference   |                |         |
| Yes                                      | 1.57   | [1.25, 1.98]   | < .001  | 1.56  | [1.24, 1.96]   | < .001  |
| <b>Urbanicity</b>                        |  |                |         |   |                |         |
| Rural                                    | Reference  |                |         | Reference   |                |         |
| Urban                                    | .94  | [0.78, 1.14]   | .536    | .95   | [0.79, 1.15]   | .620    |
| <b>Constant</b>                          | .09  | [0.06, 0.14]   | < .001  | .03   | [0.01, 0.05]   | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is receipt of influenza vaccination based on claims data. See Appendix B for full definitions.

**Table 2.5n. Multivariate relationship between primary care visit and Pneumonia vaccine<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,019) |               |         | Primary care visit in claims data (Model n=4,019) |                |         |
|--|--|---------------|---------|---|----------------|---------|
|  | aOR  | 95% CI        | p-value | aOR   | 95% CI         | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.49   | [0.87, 2.54]  | .147    |   |                |         |
| <b>Primary care visit in claims data</b> |  |               |         | 2.69  | [0.85, 8.54]   | .094    |
| <b>Age</b>                               |  |               |         |   |                |         |
| 19-34                                    | Reference  |               |         | Reference   |                |         |
| 35-50                                    | 3.27   | [1.79, 5.98]  | < .001  | 3.26  | [1.79, 5.94]   | < .001  |
| 51-64                                    | 4.54   | [2.55, 8.09]  | < .001  | 4.51  | [2.55, 7.99]   | < .001  |
| <b>Gender</b>                            |  |               |         |   |                |         |
| Male                                     | Reference  |               |         | Reference   |                |         |
| Female                                   | .69  | [0.50, 0.95]  | .024    | .68   | [0.50, 0.94]   | .021    |
| <b>Race</b>                              |  |               |         |   |                |         |
| White                                    | Reference  |               |         | Reference   |                |         |
| Black or African American                | 1.09   | [0.70, 1.71]  | .696    | 1.10  | [0.70, 1.73]   | .672    |
| Other                                    | .84  | [0.45, 1.57]  | .574    | .83   | [0.44, 1.55]   | .553    |
| More than one                            | .41  | [0.17, 1.00]  | .051    | .44   | [0.18, 1.07]   | .069    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |                |         |
| No                                       | Reference  |               |         | Reference   |                |         |
| Yes                                      | .99  | [0.52, 1.90]  | .987    | .99   | [0.52, 1.90]   | .980    |
| Don't know                               | 3.27   | [0.54, 19.82] | .197    | 3.44  | [0.56, 21.09]  | .182    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |                |         |
| No                                       | Reference  |               |         | Reference   |                |         |
| Yes                                      | .29  | [0.10, 0.79]  | .016    | .28   | [0.10, 0.79]   | .016    |
| Don't know                               | 1.0  | -             | -       | 1.0   | -              | -       |
| <b>Health status</b>                     |  |               |         |   |                |         |
| Excellent                                | Reference  |               |         | Reference   |                |         |
| Very good                                | 1.73   | [0.76, 3.92]  | .190    | 1.82  | [0.80, 4.13]   | .155    |
| Good                                     | 1.70   | [0.74, 3.91]  | .211    | 1.73  | [0.75, 3.97]   | .198    |
| Fair                                     | 3.01   | [1.34, 6.76]  | .008    | 3.06  | [1.36, 6.87]   | .007    |
| Poor                                     | 2.61   | [1.04, 6.59]  | .042    | 2.66  | [1.06, 6.67]   | .036    |
| <b>Any chronic disease</b>               |  |               |         |   |                |         |
| No                                       | Reference  |               |         | Reference   |                |         |
| Yes                                      | 2.26   | [1.18, 4.35]  | .014    | 2.23  | [1.16, 4.27]   | .016    |
| <b>Urbanicity</b>                        |  |               |         |   |                |         |
| Rural                                    | Reference  |               |         | Reference   |                |         |
| Urban                                    | .82  | [0.59, 1.15]  | .253    | .83   | [0.60, 1.16]   | .275    |
| <b>Constant</b>                          | .01  | [0.00, 0.02]  | < .001  | .004  | [0.001, 0.016] | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is receipt of pneumonia vaccine based on claims data. See Appendix B for full definitions.

**Table 2.5o. Multivariate relationship between primary care visit and other vaccines<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | aOR  | 95% CI        | p-value | aOR   | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.28   | [0.96, 1.72]  | .092    |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 2.52  | [1.50, 4.21]  | < .001  |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | Reference  |               |         | Reference   |               |         |
| 35-50                                    | .92  | [0.72, 1.18]  | .511    | .90   | [0.70, 1.16]  | .418    |
| 51-64                                    | .92  | [0.72, 1.18]  | .510    | .90   | [0.70, 1.14]  | .379    |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | Reference  |               |         | Reference   |               |         |
| Female                                   | .99  | [0.81, 1.21]  | .940    | .95   | [0.77, 1.16]  | .612    |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | Reference  |               |         | Reference   |               |         |
| Black or African American                | .85  | [0.65, 1.11]  | .224    | .87   | [0.67, 1.14]  | .328    |
| Other                                    | 1.11   | [0.73, 1.69]  | .630    | 1.11  | [0.73, 1.69]  | .634    |
| More than one                            | .98  | [0.58, 1.64]  | .924    | 1.06  | [0.63, 1.79]  | .816    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | 1.08   | [0.66, 1.78]  | .759    | 1.08  | [0.65, 1.77]  | .776    |
| Don't know                               | .74  | [0.15, 3.59]  | .712    | .78   | [0.16, 3.86]  | .760    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | .76  | [0.47, 1.28]  | .318    | .77   | [0.46, 1.26]  | .297    |
| Don't know                               | 1.90   | [0.25, 14.19] | .533    | 2.07  | [0.20, 20.99] | .538    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | Reference  |               |         | Reference   |               |         |
| Very good                                | 1.01   | [0.69, 1.49]  | .948    | 1.06  | [0.72, 1.56]  | .780    |
| Good                                     | .90  | [0.62, 1.31]  | .586    | .90   | [0.62, 1.31]  | .587    |
| Fair                                     | .94  | [0.63, 1.41]  | .769    | .93   | [0.62, 1.40]  | .737    |
| Poor                                     | .98  | [0.59, 1.63]  | .943    | .97   | [0.59, 1.62]  | .919    |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | Reference  |               |         | Reference   |               |         |
| Yes                                      | 1.02   | [0.78, 1.33]  | .883    | .99   | [0.76, 1.28]  | .916    |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | Reference  |               |         | Reference   |               |         |
| Urban                                    | 1.01   | [0.81, 1.25]  | .960    | 1.01  | [0.81, 1.26]  | .929    |
| <b>Constant</b>                          | .23  | [0.15, 0.36]  | < .001  | .13   | [0.07, 0.23]  | < .001  |

Logistic regression with adjusted odds ratios; independent variables are rows.

<sup>1</sup> Dependent variable is receipt of other vaccines based on claims data. See Appendix B for full definitions.

Table 2.6. Bivariate relationship between enrollee characteristics and primary care visit

|  | Self-reported primary care visit |              |      | Primary care visit in claims data |              |      |
|--|----------------------------------|--------------|------|-----------------------------------|--------------|------|
|  | %                                | 95% CI       | Chi2 | %                                 | 95% CI       | Chi2 |
| <b>Total (n=4,090)</b>   | 79.3                             | [77.5, 80.9] |      | 89.5                              | [88.0, 90.9] |      |
| <b>Age</b>   |                                  |              |      |                                   |              |      |
| 19-34 (n=1,303)  | 72.1                             | [68.8, 75.1] | ***  | 84.3                              | [81.3, 86.9] | ***  |
| 35-50 (n=1,301)  | 81.0                             | [78.0, 83.7] |      | 90.9                              | [88.3, 93.0] |      |
| 51-64 (n=1,486)  | 88.1                             | [85.8, 90.0] |      | 95.8                              | [94.3, 96.9] |      |
| <b>Gender</b>  |                                  |              |      |                                   |              |      |
| Male (n=1,681)   | 73.6                             | [70.6, 76.4] | ***  | 84.3                              | [81.6, 86.7] | ***  |
| Female (n=2,409)   | 84.6                             | [82.7, 86.4] |      | 94.4                              | [93.0, 95.6] |      |
| <b>Income, % of federal poverty level</b>                        |                                  |              |      |                                   |              |      |
| 0-35% (n=1,600)  | 78.7                             | [75.9, 81.3] |      | 88.1                              | [85.6, 90.3] |      |
| 36-99% (n=1,450)   | 81.0                             | [78.3, 83.5] |      | 91.3                              | [89.0, 93.1] |      |
| ≥ 100% (n=1,040)   | 78.2                             | [74.9, 81.2] |      | 90.7                              | [88.0, 92.8] |      |
| <b>Race</b>  |                                  |              |      |                                   |              |      |
| White (n=2,784)  | 82.5                             | [80.5, 84.4] | ***  | 92.5                              | [91.0, 93.8] | ***  |
| Black or African American (n=807)                                | 74.4                             | [70.2, 78.3] |      | 84.7                              | [80.5, 88.2] |      |
| Other (n=306)  | 73.9                             | [67.4, 79.5] |      | 88.2                              | [82.3, 92.3] |      |
| More than one (n=142)  | 73.4                             | [62.5, 82.0] |      | 77.0                              | [65.9, 85.2] |      |
| <b>Hispanic/Latino</b>   |                                  |              |      |                                   |              |      |
| Yes (n=188)  | 74.4                             | [66.4, 81.0] |      | 88.2                              | [81.7, 92.7] |      |
| No (n=3,856)   | 79.5                             | [77.7, 81.3] |      | 89.6                              | [88.0, 91.0] |      |
| <b>Arab/Chaldean/Middle Eastern</b>                              |                                  |              |      |                                   |              |      |
| Yes (n=204)  | 82.4                             | [74.6, 88.2] |      | 90.5                              | [84.3, 94.4] |      |
| No (n=3,842)   | 79.0                             | [77.2, 80.8] |      | 89.5                              | [87.9, 90.9] |      |
| <b>Health status</b>   |                                  |              |      |                                   |              |      |
| Excellent (n=337)  | 67.9                             | [61.3, 73.8] | ***  | 84.7                              | [78.3, 89.5] | ***  |
| Very good (n=1,041)  | 71.9                             | [67.9, 75.7] |      | 81.4                              | [77.5, 84.8] |      |
| Good (n=1,448)   | 81.3                             | [78.3, 84.0] |      | 91.7                              | [89.2, 93.7] |      |
| Fair (n=931)   | 86.3                             | [83.3, 88.9] |      | 95.2                              | [93.0, 96.7] |      |
| Poor (n=324)   | 90.7                             | [86.4, 93.8] |      | 98.0                              | [95.4, 99.1] |      |
| <b>Any chronic disease</b>                                       |                                  |              |      |                                   |              |      |
| Yes (n=2,986)  | 85.1                             | [83.2, 86.8] | ***  | 93.7                              | [92.2, 94.9] | ***  |
| No (n=1,104)   | 66.2                             | [62.5, 69.8] |      | 80.3                              | [76.6, 83.5] |      |
| <b>Urbanicity</b>  |                                  |              |      |                                   |              |      |
| Rural (n=1,198)  | 82.0                             | [79.0, 84.7] |      | 92.8                              | [90.4, 94.6] | ***  |
| Urban (n=2,892)  | 78.6                             | [76.5, 80.6] |      | 88.8                              | [87.0, 90.4] |      |
| <b>Employment status<sup>1</sup></b>                             |                                  |              |      |                                   |              |      |
| Yes (n=2,079)  | 77.8                             | [75.2, 80.2] |      | 89.5                              | [87.3, 91.3] |      |
| No (n=2,011)   | 80.7                             | [78.2, 82.9] |      | 89.6                              | [87.4, 91.5] |      |
| <b>Married or partnered</b>                                      |                                  |              |      |                                   |              |      |
| Yes (n=1,193)  | 81.6                             | [78.4, 84.5] |      | 91.2                              | [88.5, 93.4] |      |
| No (n=2,880)   | 78.5                             | [76.4, 80.5] |      | 89.0                              | [87.1, 90.6] |      |
| <b>How often do you need help with reading health materials?</b> |                                  |              |      |                                   |              |      |
| Never/Rarely (n=3,444)   | 78.9                             | [76.9, 80.7] |      | 89.2                              | [87.5, 90.7] |      |
| Sometimes/Often/Always (n=641)                                   | 81.3                             | [76.8, 85.1] |      | 91.3                              | [87.2, 94.2] |      |

<sup>1</sup>No=Out of work, Unable to work, Retired, Student, Homemaker

\*\*\*p<.001 Pearson's chi-squared test

**Table 2.7. Multivariate relationship between primary care visit and improved access to health care services**

|  | Self-reported primary care visit |      |                 | Primary care visit in claims data |      |                 |
|--|----------------------------------|------|-----------------|-----------------------------------|------|-----------------|
|  | aOR                              | SE   | <i>p</i> -value | aOR                               | SE   | <i>p</i> -value |
| Improved access to help with staying healthy (n=4,027) | 1.82                             | 0.21 | <0.001          | 1.52                              | 0.25 | 0.012           |
| Improved access to dental care (n=4,027)               | 1.31                             | 0.15 | 0.016           | 0.99                              | 0.16 | 0.964           |
| Improved access to specialty care (n=4,028)            | 1.64                             | 0.20 | <0.001          | 1.35                              | 0.24 | 0.089           |
| Improved access to mental health care (n=4,027)        | 1.17                             | 0.16 | 0.250           | 0.81                              | 0.15 | 0.257           |
| Improved access to cancer screening (n=4,027)          | 1.82                             | 0.26 | <0.001          | 1.21                              | 0.25 | 0.363           |

Logistic regression models with adjusted odds ratios and linearized standard errors. Each row is a separate model. All models adjusted for age, gender, race, overall health status, presence of chronic disease, and urbanicity.



**Table 2.8. Multivariate relationship between primary care visit and HRA completion, health behavior counseling**

|  | Self-reported primary care visit |      |                 | Primary care visit in claims data |      |                 |
|--|----------------------------------|------|-----------------|-----------------------------------|------|-----------------|
|  | aOR                              | SE   | <i>p</i> -value | aOR                               | SE   | <i>p</i> -value |
| Remembered completing an HRA (n=4,030)                     | 1.91                             | 0.22 | < .001          | 1.85                              | 0.32 | < .001          |
| Reported being counseled about exercise (n=4,031)          | 4.52                             | 0.58 | < .001          | 3.50                              | 0.73 | < .001          |
| Reported being counseled about nutrition (n=4,030)         | 4.01                             | 0.50 | < .001          | 3.39                              | 0.67 | < .001          |
| Reported being counseled about tobacco cessation (n=1,514) | 4.64                             | 0.92 | < .001          | 3.58                              | 1.14 | < .001          |
| Reported being counseled about alcohol (n=737)             | 3.27                             | 1.04 | < .001          | 3.24                              | 1.42 | .008            |
| Reported being counseled about drug use (n=176)            | 1.77                             | 0.88 | .252            | 2.05                              | 1.59 | .356            |
| New diagnosis of chronic condition (n=4,031)               | 1.77                             | 0.28 | < .001          | 2.97                              | 0.82 | < .001          |

Logistic regression models with adjusted odds ratios and linearized standard errors. Each row is a separate model. All models adjusted for age, gender, race, overall health status, presence of chronic disease, and urbanicity.

**Table 2.9a. Multivariate relationship between primary care visit and cancer screening<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |              |         |
|--|--|---------------|---------|---|--------------|---------|
|  | Marginal Estimate (%)                            | 95% CI        | p-value | Marginal Estimate (%)                             | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>         | 46.2   | [44.1, 48.2]  | < .001  |   |              |         |
| Did not see PCP in past 12 months        | 31.0   | [27.2, 34.9]  |         |   |              |         |
| <b>Primary care visit in claims data</b> |  |               |         |   |              | < .001  |
| No primary care visit in claims data     |  |               |         |   |              |         |
| <b>Age</b>                               |  |               |         |   |              |         |
| 19-34                                    | 33.1   | [30.3, 35.8]  |         | 33.0  | [30.3, 35.7] |         |
| 35-50                                    | 43.9   | [41.1, 46.8]  | < .001  | 43.8  | [41.0, 46.6] | < .001  |
| 51-64                                    | 58.6   | [55.4, 61.8]  | < .001  | 57.7  | [54.7, 60.8] | < .001  |
| <b>Gender</b>                            |  |               |         |   |              |         |
| Male                                     | 15.8   | [13.9, 17.7]  |         | 15.9  | [14.0, 17.8] |         |
| Female                                   | 68.4   | [65.9, 70.9]  | < .001  | 66.9  | [64.5, 69.3] | < .001  |
| <b>Race</b>                              |  |               |         |   |              |         |
| White                                    | 43.1   | [40.8, 45.3]  |         | 43.2  | [40.9, 45.4] |         |
| Black or African American                | 45.6   | [42.0, 49.2]  | .214    | 45.7  | [42.2, 49.3] | .202    |
| Other                                    | 41.1   | [35.0, 47.2]  | .551    | 38.9  | [32.8, 45.1] | .197    |
| More than one                            | 40.1   | [32.3, 47.9]  | .467    | 41.7  | [34.0, 49.5] | .715    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |              |         |
| No                                       | 43.3   | [41.4, 45.3]  |         | 43.3  | [41.4, 45.3] |         |
| Yes                                      | 46.8   | [39.9, 53.7]  | .330    | 46.9  | [40.0, 53.8] | .312    |
| Don't know                               | 12.8   |               | .007    | 11.2  |              | .009    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |              |         |
| No                                       | 43.2   | [41.2, 45.1]  |         | 43.1  | [41.2, 45.1] |         |
| Yes                                      | 46.1   | [38.4, 53.8]  | .477    | 46.6  | [38.9, 54.3] | .389    |
| Don't know                               | 81.8   | [60.7, 102.8] | .005    | 85.2  | [72.7, 97.6] | < .001  |
| <b>Health status</b>                     |  |               |         |   |              |         |
| Excellent                                | 45.2   | [39.8, 50.7]  |         | 44.8  | [39.6, 50.1] |         |
| Very good                                | 40.5   | [37.3, 43.7]  | .119    | 41.1  | [37.9, 44.3] | .196    |
| Good                                     | 43.2   | [40.5, 45.9]  | .489    | 42.9  | [40.2, 45.5] | .493    |
| Fair                                     | 45.9   | [42.4, 49.3]  | .846    | 45.6  | [42.3, 48.9] | .798    |
| Poor                                     | 45.0   | [39.4, 50.6]  | .960    | 44.9  | [39.5, 50.3] | .978    |
| <b>Any chronic disease</b>               |  |               |         |   |              |         |
| No                                       | 41.1   | [38.0, 44.2]  |         | 41.6  | [38.5, 44.7] |         |
| Yes                                      | 44.4   | [42.2, 46.6]  | .069    | 44.1  | [42.0, 46.3] | .157    |
| <b>Urbanicity</b>                        |  |               |         |   |              |         |
| Rural                                    | 45.1   | [41.9, 48.3]  |         | 44.7  | [41.5, 47.8] |         |
| Urban                                    | 43.0   | [40.9, 45.2]  | .255    | 43.1  | [41.0, 45.2] | .380    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is cancer screening based on claims data. See Appendix B for full definitions.

**Table 2.9b. Multivariate relationship between primary care visit and breast cancer screening<sup>1</sup>**

| Independent variables                                | Self-reported primary care visit <sup>2</sup><br>(Model n=942) |              |         | Primary care visit in claims data <sup>2</sup><br>(Model n=914) |              |         |
|--|--|--------------|---------|---|--------------|---------|
|  | Marginal Estimate (%)  | 95% CI       | p-value | Marginal Estimate (%)   | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>                     | 75.4   | [71.8, 79.1] | < .001  |   |              |         |
| Did not see PCP in past 12 months                    | 32.8   | [21.2, 44.4] |         |   |              |         |
| <b>Primary care visit in claims data<sup>3</sup></b> |  |              |         |   |              | -       |
| No primary care visit in claims data                 |  |              |         |   |              |         |
| <b>Age</b>   |  |              |         |   |              |         |
| 19-34  |  |              |         |   |              |         |
| 35-50  | 75.9   | [64.0, 87.8] | -       | 80.3  | [68.8, 91.7] | -       |
| 51-64  | 71.5   | [67.7, 75.3] | .505    | 73.5  | [69.7, 77.4] | .314    |
| <b>Gender</b>  |  |              |         |   |              |         |
| Male   |  |              |         |   |              |         |
| Female   |  |              | -       |   |              | -       |
| <b>Race</b>  |  |              |         |   |              |         |
| White  | 70.4   | [66.0, 74.8] |         | 73.2  | [68.7, 77.6] |         |
| Black or African American                            | 76.6   | [69.2, 84.1] | .174    | 77.7  | [68.9, 86.4] | .393    |
| Other  | 64.4   | [44.1, 84.6] | .559    | 67.2  | [46.6, 87.7] | .567    |
| More than one  | 75.6   | [57.8, 93.3] | .598    | 72.7  | [52.0, 93.3] | .964    |
| <b>Hispanic/Latino</b>                               |  |              |         |   |              |         |
| No   | 71.6   | [67.8, 75.4] |         | 74.0  | [70.2, 77.7] |         |
| Yes  | 76.7   | [61.3, 92.2] | .550    | 75.0  | [57.1, 92.9] | .913    |
| Don't know   |  |              | -       |   |              | -       |
| <b>Arab/Chaldean/Middle Eastern</b>                  |  |              |         |   |              |         |
| No   | 72.2   | [68.5, 75.8] |         | 74.4  | [70.8, 78.1] |         |
| Yes  | 62.7   | [33.8, 91.5] | .492    | 61.9  | [30.8, 93.0] | .393    |
| Don't know   |  |              | -       |   |              | -       |
| <b>Health status</b>                                 |  |              |         |   |              |         |
| Excellent  | 67.1   | [52.5, 81.6] |         | 70.6  | [51.3, 89.9] |         |
| Very good  | 68.2   | [59.7, 76.8] | .883    | 68.4  | [59.6, 77.1] | .837    |
| Good   | 75.9   | [70.6, 81.2] | .227    | 77.0  | [71.7, 82.4] | .503    |
| Fair   | 73.1   | [66.9, 79.4] | .433    | 78.0  | [71.9, 84.0] | .444    |
| Poor   | 65.4   | [52.9, 77.9] | .867    | 68.3  | [55.4, 81.2] | .846    |
| <b>Any chronic disease</b>                           |  |              |         |   |              |         |
| No   | 69.8   | [60.7, 78.9] |         | 69.0  | [58.9, 79.0] |         |
| Yes  | 72.3   | [68.2, 76.3] | .618    | 75.0  | [71.0, 78.9] | .256    |
| <b>Urbanicity</b>                                    |  |              |         |   |              |         |
| Rural  | 74.3   | [68.4, 80.1] |         | 74.9  | [67.7, 82.0] |         |
| Urban  | 71.1   | [66.7, 75.4] | .380    | 73.7  | [69.4, 78.1] | .793    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup> Dependent variable is breast cancer screening based on claims data. See Appendix B for full definitions.

<sup>2</sup> Model restricted to women 50 and older.

<sup>3</sup> Primary care visit predicts breast cancer perfectly (no individuals without a primary care visit had breast cancer screening).

**Table 2.9c. Multivariate relationship between primary care visit and cervical cancer screening<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit <sup>2</sup> (Model n=2,375) |              |         | Primary care visit in claims data <sup>2</sup> (Model n=2,375) |              |         |
|--|---|--------------|---------|--|--------------|---------|
|  | Marginal Estimate (%)   | 95% CI       | p-value | Marginal Estimate (%)  | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>         | 56.8  | [54.0, 59.6] | < .001  |  |              |         |
| Did not see PCP in past 12 months        | 38.3  | [31.9, 44.7] |         |  |              |         |
| <b>Primary care visit in claims data</b> |   |              |         | 56.6   | [54.0, 59.2] | < .001  |
| No primary care visit in claims data     |   |              |         | 10.3   | [4.8, 15.7]  |         |
| <b>Age</b>                               |   |              |         |  |              |         |
| 19-34                                    | 55.8  | [51.3, 60.4] |         | 55.9   | [51.4, 60.4] |         |
| 35-50                                    | 57.9  | [53.5, 62.3] | .528    | 57.8   | [53.5, 62.1] | .549    |
| 51-64                                    | 46.4  | [42.3, 50.6] | .003    | 46.6   | [42.5, 50.8] | .003    |
| <b>Gender</b>                            |   |              |         |  |              |         |
| Male                                     |   |              |         |  |              |         |
| Female                                   |   |              | -       |  |              | -       |
| <b>Race</b>                              |   |              |         |  |              |         |
| White                                    | 53.1  | [49.9, 56.4] |         | 53.4   | [50.2, 56.6] |         |
| Black or African American                | 59.1  | [53.6, 64.7] | .074    | 58.9   | [53.5, 64.4] | .094    |
| Other                                    | 49.7  | [38.4, 61.0] | .572    | 46.5   | [35.1, 57.9] | .261    |
| More than one                            | 39.8  | [26.3, 53.3] | .068    | 41.4   | [28.1, 54.7] | .090    |
| <b>Hispanic/Latino</b>                   |   |              |         |  |              |         |
| No                                       | 53.5  | [50.8, 56.1] |         | 53.5   | [50.9, 56.2] |         |
| Yes                                      | 61.1  | [49.7, 72.6] | .213    | 60.0   | [48.5, 71.5] | .298    |
| Don't know                               |   |              | -       |  |              | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |   |              |         |  |              |         |
| No                                       | 53.6  | [50.9, 56.2] |         | 53.6   | [50.9, 56.2] |         |
| Yes                                      | 59.9  | [47.4, 72.4] | .348    | 59.7   | [47.3, 72.1] | .360    |
| Don't know                               |   |              | -       |  |              | -       |
| <b>Health status</b>                     |   |              |         |  |              |         |
| Excellent                                | 59.1  | [50.0, 68.1] |         | 58.5   | [49.5, 67.4] |         |
| Very good                                | 54.7  | [49.6, 59.9] | .408    | 55.1   | [50.1, 60.1] | .512    |
| Good                                     | 53.9  | [49.8, 58.1] | .322    | 53.8   | [49.8, 57.8] | .355    |
| Fair                                     | 53.9  | [48.5, 59.2] | .350    | 53.9   | [48.7, 59.2] | .404    |
| Poor                                     | 45.0  | [35.1, 54.9] | .048    | 45.4   | [35.6, 55.3] | .062    |
| <b>Any chronic disease</b>               |   |              |         |  |              |         |
| No                                       | 54.8  | [49.6, 59.9] |         | 55.7   | [50.6, 60.8] |         |
| Yes                                      | 53.6  | [50.4, 56.7] | .710.84 | 53.2   | [50.1, 56.4] | .443    |
| <b>Urbanicity</b>                        |   |              |         |  |              |         |
| Rural                                    | 57.3  | [52.7, 61.8] |         | 56.5   | [51.9, 61.1] |         |
| Urban                                    | 53.0  | [50.0, 56.0] | .135    | 53.2   | [50.2, 56.2] | .243    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup> Dependent variable is cervical cancer screening (excludes HPV testing) based on claims data. See Appendix B for full definitions.

<sup>2</sup> Model restricted to women.

**Table 2.9d. Multivariate relationship between primary care visit and colorectal cancer screening<sup>1</sup>**

| Independent variables                                | Self-reported primary care visit <sup>2</sup><br>(Model n=1,550) |              |         | Primary care visit in claims data <sup>2</sup><br>(Model n=1,487) |              |         |
|--|--|--------------|---------|---|--------------|---------|
|  | Marginal Estimate (%)  | 95% CI       | p-value | Marginal Estimate (%)   | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>                     | 44.8   | [41.5, 48.1] | < .001  |   |              |         |
| Did not see PCP in past 12 months                    | 16.1   | [9.6, 22.6]  |         |   |              |         |
| <b>Primary care visit in claims data<sup>3</sup></b> |  |              |         |   |              | -       |
| No primary care visit in claims data                 |  |              |         |   |              |         |
| <b>Age</b>   |  |              |         |   |              |         |
| 19-34  |  |              |         |   |              |         |
| 35-50  | 35.7   | [24.4, 46.9] | -       | 38.5  | [26.2, 50.8] | -       |
| 51-64  | 41.7   | [38.6, 44.8] | 0.314   | 43.6  | [40.4, 46.8] | .44     |
| <b>Gender</b>  |  |              |         |   |              |         |
| Male   | 39.1   | [34.4, 43.7] |         | 40.3  | [35.4, 45.1] |         |
| Female   | 43.0   | [39.2, 46.8] | .190    | 45.5  | [41.5, 49.5] | .102    |
| <b>Race</b>  |  |              |         |   |              |         |
| White  | 40.1   | [36.5, 43.6] |         | 42.4  | [38.7, 46.1] |         |
| Black or African American                            | 45.7   | [38.6, 52.8] | .164    | 46.4  | [38.9, 53.8] | .356    |
| Other  | 41.3   | [28.6, 54.1] | .851    | 42.2  | [28.9, 55.5] | .975    |
| More than one  | 31.5   | [15.1, 47.9] | .342    | 35.7  | [18.0, 53.3] | .477    |
| <b>Hispanic/Latino</b>                               |  |              |         |   |              |         |
| No   | 41.4   | [38.4, 44.5] |         | 43.4  | [40.2, 46.6] |         |
| Yes  | 37.9   | [23.5, 52.3] | .641    | 38.9  | [23.3, 54.4] | .582    |
| Don't know   |  |              | -       |   |              | -       |
| <b>Arab/Chaldean/Middle Eastern</b>                  |  |              |         |   |              |         |
| No   | 41.2   | [38.2, 44.2] |         | 43.1  | [40.0, 46.2] |         |
| Yes  | 44.2   | [24.8, 63.6] | .762    | 47.0  | [25.9, 68.1] | .719    |
| Don't know   |  |              | -       |   |              | -       |
| <b>Health status</b>                                 |  |              |         |   |              |         |
| Excellent  | 20.4   | [10.8, 29.9] |         | 22.2  | [11.6, 32.8] |         |
| Very good  | 39.1   | [32.7, 45.6] | .004    | 41.3  | [34.4, 48.3] | .008    |
| Good   | 44.8   | [39.9, 49.7] | < .001  | 46.0  | [40.9, 51.1] | .001    |
| Fair   | 40.5   | [34.8, 46.3] | .003    | 42.5  | [36.5, 48.6] | .005    |
| Poor   | 46.6   | [37.6, 55.6] | .001    | 49.6  | [40.2, 58.9] | .001    |
| <b>Any chronic disease</b>                           |  |              |         |   |              |         |
| No   | 47.9   | [39.8, 55.9] |         | 46.7  | [38.2, 55.1] |         |
| Yes  | 40.1   | [36.9, 43.4] | .082    | 42.6  | [39.2, 45.9] | .380    |
| <b>Urbanicity</b>                                    |  |              |         |   |              |         |
| Rural  | 44.2   | [38.9, 49.5] |         | 45.2  | [39.7, 50.7] |         |
| Urban  | 40.4   | [36.9, 43.9] | .236    | 42.6  | [39.0, 46.3] | .446    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup> Dependent variable is colorectal cancer screening based on claims data. See Appendix B for full definitions.

<sup>2</sup> Model restricted to men and women ages 50 and over.

<sup>3</sup> Primary care visit predicts colorectal cancer perfectly (no individuals without a primary care visit had a colorectal cancer screening).

**Table 2.9e. Multivariate relationship between primary care visit and Diabetes Prevention Program<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,012) |             |         | Primary care visit in claims data (Model n=4,012) |             |         |
|--|--|-------------|---------|---|-------------|---------|
|  | Marginal Estimate (%)                            | 95% CI      | p-value | Marginal Estimate (%)                             | 95% CI      | p-value |
| <b>Saw PCP in past 12 months</b>         | 1.4  | [1.0, 1.9]  | .558    |   |             |         |
| Did not see PCP in past 12 months        | 1.1  | [0.2, 2.0]  |         |   |             |         |
| <b>Primary care visit in claims data</b> |  |             |         | 1.5   | [1.0, 1.9]  | .369    |
| No primary care visit in claims data     |  |             |         | 0.6   | [-0.5, 1.7] |         |
| <b>Age</b>                               |  |             |         |   |             |         |
| 19-34                                    | 0.8  | [0.3, 1.4]  |         | 0.8   | [0.3, 1.4]  |         |
| 35-50                                    | 1.7  | [0.9, 2.4]  | .071    | 1.7   | [0.9, 2.4]  | .085    |
| 51-64                                    | 1.6  | [0.9, 2.3]  | .075    | 1.6   | [0.9, 2.3]  | .096    |
| <b>Gender</b>                            |  |             |         |   |             |         |
| Male                                     | 1.6  | [1.0, 2.3]  |         | 1.7   | [1.0, 2.3]  |         |
| Female                                   | 1.2  | [0.7, 1.6]  | .268    | 1.2   | [0.7, 1.6]  | .244    |
| <b>Race</b>                              |  |             |         |   |             |         |
| White                                    | 1.3  | [0.8, 1.7]  |         | 1.3   | [0.8, 1.7]  |         |
| Black or African American                | 2.2  | [0.9, 3.4]  | .129    | 2.2   | [0.9, 3.4]  | .124    |
| Other                                    | 1.1  | [-0.2, 2.4] | .811    | 1.1   | [-0.2, 2.4] | .813    |
| More than one                            | 0.4  | [-0.4, 1.1] | .227    | 0.4   | [-0.4, 1.1] | .246    |
| <b>Hispanic/Latino</b>                   |  |             |         |   |             |         |
| No                                       | 1.3  | [0.9, 1.7]  |         | 1.3   | [0.9, 1.7]  |         |
| Yes                                      | 3.7  | [0.2, 7.1]  | .048    | 3.7   | [0.2, 7.1]  | .048    |
| Don't know                               |  |             | -       |   |             | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |             |         |   |             |         |
| No                                       | 1.4  | [1.0, 1.8]  |         | 1.4   | [1.0, 1.8]  |         |
| Yes                                      | 0.8  | [-0.9, 2.4] | .579    | 0.8   | [-0.9, 2.4] | .568    |
| Don't know                               |  |             | -       |   |             | -       |
| <b>Health status</b>                     |  |             |         |   |             |         |
| Excellent                                | 1.0  | [-1.0, 2.9] |         | 1.0   | [-1.0, 2.9] |         |
| Very good                                | 1.7  | [0.7, 2.7]  | .607    | 1.7   | [0.7, 2.8]  | .572    |
| Good                                     | 1.2  | [0.6, 1.9]  | .813    | 1.2   | [0.6, 1.9]  | .807    |
| Fair                                     | 1.4  | [0.7, 2.1]  | .730    | 1.4   | [0.7, 2.1]  | .726    |
| Poor                                     | 1.5  | [0.4, 2.6]  | .690    | 1.5   | [0.4, 2.6]  | .683    |
| <b>Any chronic disease</b>               |  |             |         |   |             |         |
| No                                       | 0.2  | [-0.1, 0.5] |         | 0.2   | [-0.1, 0.5] |         |
| Yes                                      | 1.8  | [1.3, 2.4]  | .006    | 1.8   | [1.3, 2.3]  | .005    |
| <b>Urbanicity</b>                        |  |             |         |   |             |         |
| Rural                                    | 2.1  | [1.0, 3.2]  |         | 2.1   | [1.0, 3.2]  |         |
| Urban                                    | 1.2  | [0.8, 1.7]  | .089    | 1.2   | [0.8, 1.7]  | .089    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is a claim for a diabetes prevention program. See Appendix B for full definitions.

**Table 2.9f. Multivariate relationship between primary care visit and dental care<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | Marginal Estimate (%)                            | 95% CI        | p-value | Marginal Estimate (%)                             | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 61.2   | [59.0, 63.4]  | .002    |   |               |         |
| Did not see PCP in past 12 months        | 52.7   | [48.0, 57.5]  |         |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 61.3  | [59.3, 63.4]  | < .001  |
| No primary care visit in claims data     |  |               |         | 43.1  | [35.5, 50.7]  |         |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | 58.0   | [54.6, 61.5]  |         | 58.2  | [54.8, 61.6]  |         |
| 35-50                                    | 61.3   | [57.9, 64.7]  | .185    | 61.2  | [57.8, 64.6]  | .227    |
| 51-64                                    | 59.1   | [56.0, 62.3]  | .638    | 58.9  | [55.8, 62.1]  | .762    |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | 56.2   | [53.2, 59.3]  |         | 56.7  | [53.7, 59.7]  |         |
| Female                                   | 62.4   | [59.9, 64.9]  | .002    | 62.0  | [59.5, 64.5]  | .007    |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | 60.6   | [58.1, 63.2]  |         | 60.4  | [57.9, 62.9]  |         |
| Black or African American                | 58.9   | [54.5, 63.2]  | .493    | 59.3  | [54.9, 63.6]  | .659    |
| Other                                    | 54.0   | [45.8, 62.2]  | .134    | 53.5  | [45.1, 62.0]  | .130    |
| More than one                            | 55.4   | [45.4, 65.4]  | .313    | 57.0  | [47.3, 66.7]  | .495    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | 59.6   | [57.5, 61.6]  |         | 59.6  | [57.5, 61.6]  |         |
| Yes                                      | 58.1   | [48.9, 67.4]  | .769    | 57.9  | [48.6, 67.2]  | .734    |
| Don't know                               | 46.4   | [13.3, 79.5]  | .435    | 47.4  | [14.6, 80.2]  | .465    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | 58.1   | [56.0, 60.1]  |         | 58.1  | [56.0, 60.1]  |         |
| Yes                                      | 78.6   | [71.6, 85.6]  | < .001  | 78.6  | [71.6, 85.6]  | < .001  |
| Don't know                               | 73.0   | [35.4, 110.6] | .491    | 74.4  | [41.4, 107.5] | .401    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | 67.4   | [61.2, 73.6]  |         | 67.0  | [60.7, 73.4]  |         |
| Very good                                | 56.5   | [52.3, 60.6]  | .005    | 57.1  | [53.0, 61.3]  | .011    |
| Good                                     | 61.4   | [58.1, 64.6]  | .108    | 61.2  | [57.9, 64.5]  | .121    |
| Fair                                     | 58.1   | [53.9, 62.3]  | .023    | 57.8  | [53.6, 62.0]  | .024    |
| Poor                                     | 55.1   | [47.9, 62.3]  | .015    | 54.9  | [47.8, 62.0]  | .015    |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | 59.0   | [55.0, 63.0]  |         | 59.3  | [55.4, 63.3]  |         |
| Yes                                      | 59.6   | [57.2, 62.1]  | .798    | 59.5  | [57.0, 61.9]  | .964    |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | 62.0   | [58.4, 65.6]  |         | 61.9  | [58.3, 65.4]  |         |
| Urban                                    | 58.8   | [56.5, 61.1]  | .142    | 58.8  | [56.6, 61.1]  | .158    |

Logistic regression with predicted marginal estimates; independent variables are rows.  
<sup>1</sup>Dependent variable is a claim for dental services. See Appendix B for full definitions.

Table 2.9g. Multivariate relationship between primary care visit and any nutrition services<sup>1</sup>

| Independent variables                    | Self-reported primary care visit (Model n=4,012) |             |         | Primary care visit in claims data (Model n=4,012) |             |         |
|--|--|-------------|---------|---|-------------|---------|
|  | Marginal Estimate (%)                            | 95% CI      | p-value | Marginal Estimate (%)                             | 95% CI      | p-value |
| <b>Saw PCP in past 12 months</b>         | 2.3  | [1.7, 2.9]  | .145    |   |             |         |
| Did not see PCP in past 12 months        | 1.2  | [0.3, 2.2]  |         |   |             |         |
| <b>Primary care visit in claims data</b> |  |             |         | 2.2   | [1.7, 2.8]  | .222    |
| No primary care visit in claims data     |  |             |         | 0.7   | [-0.6, 2.0] |         |
| <b>Age</b>                               |  |             |         |   |             |         |
| 19-34                                    | 1.5  | [0.7, 2.2]  |         | 1.4   | [0.7, 2.2]  |         |
| 35-50                                    | 2.8  | [1.7, 3.9]  | .047    | 2.8   | [1.7, 3.9]  | .048    |
| 51-64                                    | 2.0  | [1.3, 2.8]  | .305    | 2.1   | [1.3, 2.8]  | .291    |
| <b>Gender</b>                            |  |             |         |   |             |         |
| Male                                     | 2.1  | [1.3, 2.9]  |         | 2.1   | [1.3, 2.9]  |         |
| Female                                   | 2.2  | [1.5, 2.9]  | .899    | 2.2   | [1.4, 2.9]  | .923    |
| <b>Race</b>                              |  |             |         |   |             |         |
| White                                    | 2.0  | [1.3, 2.6]  |         | 2.0   | [1.3, 2.6]  |         |
| Black or African American                | 2.6  | [1.3, 4.0]  | .367    | 2.6   | [1.3, 3.9]  | .369    |
| Other                                    | 2.3  | [-0.1, 4.7] | .783    | 2.3   | [-0.1, 4.6] | .808    |
| More than one                            | 1.7  | [-0.3, 3.7] | .779    | 1.8   | [-0.4, 3.9] | .853    |
| <b>Hispanic/Latino</b>                   |  |             |         |   |             |         |
| No                                       | 2.1  | [1.6, 2.6]  |         | 2.1   | [1.6, 2.6]  |         |
| Yes                                      | 3.0  | [0.2, 5.8]  | .480    | 3.0   | [0.2, 5.8]  | .487    |
| Don't know                               |  |             | -       |   |             | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |             |         |   |             |         |
| No                                       | 2.2  | [1.7, 2.8]  |         | 2.2   | [1.7, 2.8]  |         |
| Yes                                      | 0.6  | [-0.7, 1.8] | .221    | 0.6   | [-0.7, 1.8] | .222    |
| Don't know                               |  |             | -       |   |             | -       |
| <b>Health status</b>                     |  |             |         |   |             |         |
| Excellent                                | 0.9  | [-0.9, 2.8] |         | 0.9   | [-0.9, 2.7] |         |
| Very good                                | 2.0  | [0.9, 3.1]  | .472    | 2.0   | [0.9, 3.1]  | .437    |
| Good                                     | 1.8  | [1.1, 2.6]  | .519    | 1.8   | [1.1, 2.5]  | .506    |
| Fair                                     | 2.6  | [1.5, 3.7]  | .329    | 2.6   | [1.5, 3.7]  | .316    |
| Poor                                     | 2.9  | [0.6, 5.1]  | .310    | 2.9   | [0.6, 5.1]  | .296    |
| <b>Any chronic disease</b>               |  |             |         |   |             |         |
| No                                       | 0.4  | [-0.1, 0.9] |         | 0.4   | [-0.1, 0.9] |         |
| Yes                                      | 2.7  | [2.0, 3.3]  | .002    | 2.7   | [2.0, 3.3]  | .002    |
| <b>Urbanicity</b>                        |  |             |         |   |             |         |
| Rural                                    | 2.3  | [1.3, 3.4]  |         | 2.3   | [1.3, 3.3]  |         |
| Urban                                    | 2.1  | [1.5, 2.7]  | .734    | 2.1   | [1.5, 2.7]  | .759    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is a claim for any nutrition services. See Appendix B for full definitions.



**Table 2.9h. Multivariate relationship between primary care visit and HPV testing<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |              |         | Primary care visit in claims data (Model n=4,026) |              |         |
|--|--|--------------|---------|---|--------------|---------|
|  | Marginal Estimate (%)                            | 95% CI       | p-value | Marginal Estimate (%)                             | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>         | 15.0   | [13.6, 16.5] | .005    |   |              |         |
| Did not see PCP in past 12 months        | 10.3   | [7.6, 12.9]  |         |   |              |         |
| <b>Primary care visit in claims data</b> |  |              |         | 14.9  | [13.6, 16.3] | < .001  |
| No primary care visit in claims data     |  |              |         | 3.8   | [1.2, 6.4]   |         |
| <b>Age</b>                               |  |              |         |   |              |         |
| 19-34                                    | 12.1   | [10.1, 14.1] |         | 12.1  | [10.1, 14.0] |         |
| 35-50                                    | 17.5   | [15.3, 19.7] | < .001  | 17.5  | [15.3, 19.7] | < .001  |
| 51-64                                    | 13.6   | [11.7, 15.6] | .274    | 13.7  | [11.7, 15.6] | .252    |
| <b>Gender</b>                            |  |              |         |   |              |         |
| Male                                     | 0.2  | [0.0, 0.4]   |         | 0.2   | [0.0, 0.4]   |         |
| Female                                   | 27.3   | [25.0, 29.5] | < .001  | 26.7  | [24.5, 28.9] | < .001  |
| <b>Race</b>                              |  |              |         |   |              |         |
| White                                    | 13.7   | [12.2, 15.2] |         | 13.8  | [12.3, 15.3] |         |
| Black or African American                | 16.3   | [13.5, 19.1] | .092    | 16.3  | [13.5, 19.0] | .100    |
| Other                                    | 13.5   | [8.5, 18.4]  | .940    | 12.7  | [8.0, 17.5]  | .701    |
| More than one                            | 12.3   | [6.4, 18.3]  | .677    | 12.6  | [6.7, 18.6]  | .727    |
| <b>Hispanic/Latino</b>                   |  |              |         |   |              |         |
| No                                       | 14.4   | [13.0, 15.7] |         | 14.4  | [13.1, 15.7] |         |
| Yes                                      | 13.8   | [8.6, 18.9]  | .826    | 13.6  | [8.4, 18.7]  | .774    |
| Don't know                               | 2.6  | [-0.8, 6.0]  | .004    | 2.5   | [-0.8, 5.8]  | .004    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |              |         |   |              |         |
| No                                       | 14.1   | [12.8, 15.4] |         | 14.1  | [12.8, 15.4] |         |
| Yes                                      | 17.1   | [10.3, 23.9] | .379    | 17.0  | [10.4, 23.6] | .337    |
| Don't know                               | 53.4   | [45.6, 61.2] | < .001  | 54.4  | [45.2, 63.5] | < .001  |
| <b>Health status</b>                     |  |              |         |   |              |         |
| Excellent                                | 15.9   | [11.2, 20.5] |         | 15.6  | [11.1, 20.2] |         |
| Very good                                | 12.1   | [9.9, 14.3]  | .131    | 12.1  | [10.0, 14.3] | .152    |
| Good                                     | 15.1   | [13.1, 17.1] | .760    | 15.1  | [13.1, 17.0] | .818    |
| Fair                                     | 16.1   | [13.6, 18.7] | .918    | 16.2  | [13.7, 18.7] | .831    |
| Poor                                     | 10.7   | [6.6, 14.8]  | .105    | 10.8  | [6.6, 14.9]  | .125    |
| <b>Any chronic disease</b>               |  |              |         |   |              |         |
| No                                       | 15.4   | [12.9, 17.9] |         | 15.7  | [13.1, 18.2] |         |
| Yes                                      | 13.9   | [12.4, 15.3] | .304    | 13.8  | [12.3, 15.2] | .202    |
| <b>Urbanicity</b>                        |  |              |         |   |              |         |
| Rural                                    | 12.8   | [10.7, 15.0] |         | 12.7  | [10.5, 14.9] |         |
| Urban                                    | 14.7   | [13.2, 16.1] | .165    | 14.7  | [13.2, 16.1] | .131    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is HPV testing based on claims data. See Appendix B for full definitions.

**Table 2.9i. Multivariate relationship between primary care visit and STI testing<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |              |         | Primary care visit in claims data (Model n=4,026) |              |         |
|--|--|--------------|---------|---|--------------|---------|
|  | Marginal Estimate (%)                            | 95% CI       | p-value | Marginal Estimate (%)                             | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>         | 14.6   | [13.0, 16.2] | .038    |   |              |         |
| Did not see PCP in past 12 months        | 10.9   | [8.1, 13.7]  |         |   |              |         |
| <b>Primary care visit in claims data</b> |  |              |         | 15.0  | [13.5, 16.5] | < .001  |
| No primary care visit in claims data     |  |              |         | 3.7   | [1.7, 5.7]   |         |
| <b>Age</b>                               |  |              |         |   |              |         |
| 19-34                                    | 20.3   | [17.5, 23.0] |         | 20.5  | [17.7, 23.3] |         |
| 35-50                                    | 11.6   | [9.6, 13.7]  | < .001  | 11.5  | [9.5, 13.6]  | < .001  |
| 51-64                                    | 7.6  | [5.9, 9.2]   | < .001  | 7.5   | [5.9, 9.2]   | < .001  |
| <b>Gender</b>                            |  |              |         |   |              |         |
| Male                                     | 6.9  | [5.3, 8.4]   |         | 7.1   | [5.6, 8.7]   |         |
| Female                                   | 20.4   | [18.2, 22.6] | < .001  | 19.7  | [17.6, 21.8] | < .001  |
| <b>Race</b>                              |  |              |         |   |              |         |
| White                                    | 10.9   | [9.2, 12.5]  |         | 10.8  | [9.2, 12.4]  |         |
| Black or African American                | 21.2   | [17.9, 24.5] | < .001  | 21.5  | [18.2, 24.8] | < .001  |
| Other                                    | 11.6   | [6.1, 17.2]  | .798    | 11.3  | [5.9, 16.7]  | .869    |
| More than one                            | 13.8   | [7.7, 19.8]  | .323    | 14.7  | [8.3, 21.2]  | .195    |
| <b>Hispanic/Latino</b>                   |  |              |         |   |              |         |
| No                                       | 13.9   | [12.4, 15.3] |         | 13.9  | [12.4, 15.3] |         |
| Yes                                      | 14.1   | [8.2, 19.9]  | .953    | 13.9  | [8.0, 19.7]  | 1.00    |
| Don't know                               | 4.0  | [-2.6, 10.7] | .115    | 4.1   | [-2.7, 10.9] | .122    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |              |         |   |              |         |
| No                                       | 13.9   | [12.4, 15.4] |         | 13.9  | [12.4, 15.4] |         |
| Yes                                      | 11.8   | [5.5, 18.1]  | .559    | 11.7  | [5.5, 17.9]  | .530    |
| Don't know                               | 51.3   | [11.8, 90.8] | .024    | 53.1  | [13.4, 92.7] | .021    |
| <b>Health status</b>                     |  |              |         |   |              |         |
| Excellent                                | 15.4   | [10.9, 19.9] |         | 15.0  | [10.7, 19.4] |         |
| Very good                                | 13.6   | [10.8, 16.4] | .480    | 14.0  | [11.2, 16.9] | .690    |
| Good                                     | 12.7   | [10.6, 14.7] | .257    | 12.6  | [10.5, 14.7] | .305    |
| Fair                                     | 15.1   | [12.2, 18.1] | .914    | 14.9  | [12.0, 17.8] | .948    |
| Poor                                     | 14.3   | [8.8, 19.9]  | .776    | 14.1  | [8.7, 19.6]  | .806    |
| <b>Any chronic disease</b>               |  |              |         |   |              |         |
| No                                       | 11.2   | [9.1, 13.4]  |         | 11.6  | [9.4, 13.8]  |         |
| Yes                                      | 15.1   | [13.2, 17.0] | .013    | 14.9  | [13.1, 16.7] | .030    |
| <b>Urbanicity</b>                        |  |              |         |   |              |         |
| Rural                                    | 8.9  | [6.7, 11.1]  |         | 8.9   | [6.7, 11.0]  |         |
| Urban                                    | 14.8   | [13.2, 16.4] | < .001  | 14.8  | [13.2, 16.5] | < .001  |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is STI testing based on claims data. See Appendix B for full definitions.

**Table 2.9j. Multivariate relationship between primary care visit and prescribed HMG CoA Reductase inhibitor<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | Marginal Estimate (%)                            | 95% CI        | p-value | Marginal Estimate (%)                             | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 19.6   | [18.0, 21.1]  | < .001  |   |               |         |
| Did not see PCP in past 12 months        | 7.2  | [4.6, 9.8]    |         |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 18.8  | [17.3, 20.3]  | .001    |
| No primary care visit in claims data     |  |               |         | 2.2   | [-1.0, 5.4]   |         |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | 2.8  | [1.8, 3.8]    |         | 2.8   | [1.8, 3.7]    |         |
| 35-50                                    | 20.3   | [17.7, 22.8]  | < .001  | 20.3  | [17.7, 22.8]  | < .001  |
| 51-64                                    | 31.2   | [28.4, 34.0]  | < .001  | 31.4  | [28.6, 34.2]  | < .001  |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | 21.4   | [19.2, 23.6]  |         | 21.4  | [19.2, 23.5]  |         |
| Female                                   | 15.0   | [13.4, 16.5]  | < .001  | 15.0  | [13.4, 16.6]  | < .001  |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | 17.7   | [16.1, 19.4]  |         | 17.8  | [16.1, 19.4]  |         |
| Black or African American                | 19.0   | [15.9, 22.1]  | .455    | 18.8  | [15.7, 21.9]  | .543    |
| Other                                    | 16.9   | [12.1, 21.7]  | .749    | 16.6  | [11.9, 21.3]  | .642    |
| More than one                            | 16.0   | [10.0, 21.9]  | .585    | 17.3  | [10.2, 24.4]  | .894    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | 17.8   | [16.4, 19.2]  |         | 17.8  | [16.4, 19.3]  |         |
| Yes                                      | 18.4   | [12.3, 24.4]  | .865    | 17.9  | [12.1, 23.8]  | .973    |
| Don't know                               | 51.0   | [23.7, 78.2]  | .581    | 53.6  | [26.0, 81.2]  | .012    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | 17.6   | [16.2, 19.1]  |         | 17.6  | [16.2, 19.0]  |         |
| Yes                                      | 25.3   | [18.1, 32.5]  | .027    | 25.7  | [18.7, 32.8]  | .017    |
| Don't know                               | 10.5   | [-10.6, 31.5] | .581    | 10.0  | [-11.2, 31.1] | .566    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | 13.7   | [7.3, 20.1]   |         | 13.4  | [7.1, 19.6]   |         |
| Very good                                | 13.6   | [10.6, 16.5]  | .974    | 14.0  | [10.9, 17.1]  | .852    |
| Good                                     | 15.5   | [13.5, 17.5]  | .604    | 15.3  | [13.3, 17.2]  | .579    |
| Fair                                     | 23.5   | [20.9, 26.1]  | .015    | 23.5  | [20.9, 26.1]  | .011    |
| Poor                                     | 21.0   | [17.1, 25.0]  | .077    | 21.2  | [17.2, 25.1]  | .056    |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | 6.5  | [4.4, 8.7]    |         | 6.3   | [4.2, 8.3]    |         |
| Yes                                      | 20.6   | [18.9, 22.3]  | < .001  | 20.7  | [19.0, 22.4]  | < .001  |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | 17.5   | [15.2, 19.7]  |         | 17.2  | [15.0, 19.5]  |         |
| Urban                                    | 18.1   | [16.5, 19.6]  | .647    | 18.1  | [16.5, 19.7]  | .497    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is Prescribed HMG CoA Reductase inhibitor based on claims data. See Appendix B for full definitions.

**Table 2.9k. Multivariate relationship between primary care visit and nicotine replacement and/or Varenicline prescription<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,012) |              |         | Primary care visit in claims data (Model n=4,012) |              |         |
|--|--|--------------|---------|---|--------------|---------|
|  | Marginal Estimate (%)                            | 95% CI       | p-value | Marginal Estimate (%)                             | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>         | 12.2   | [10.9, 13.6] | .001    |   |              |         |
| Did not see PCP in past 12 months        | 6.7  | [4.5, 9.0]   |         |   |              |         |
| <b>Primary care visit in claims data</b> |  |              |         | 12.1  | [10.9, 13.4] | < .001  |
| No primary care visit in claims data     |  |              |         | 1.0   | [-0.1, 2.0]  |         |
| <b>Age</b>                               |  |              |         |   |              |         |
| 19-34                                    | 7.9  | [6.0, 9.8]   |         | 7.9   | [6.0, 9.8]   |         |
| 35-50                                    | 12.5   | [10.3, 14.6] | .002    | 12.4  | [10.3, 14.5] | .003    |
| 51-64                                    | 14.0   | [12.0, 16.0] | < .001  | 13.9  | [11.9, 15.9] | < .001  |
| <b>Gender</b>                            |  |              |         |   |              |         |
| Male                                     | 11.3   | [9.5, 13.0]  |         | 11.4  | [9.6, 13.1]  |         |
| Female                                   | 11.4   | [9.9, 12.9]  | .900    | 11.3  | [9.8, 12.8]  | .979    |
| <b>Race</b>                              |  |              |         |   |              |         |
| White                                    | 12.5   | [11.0, 14.1] |         | 12.5  | [10.9, 14.0] |         |
| Black or African American                | 9.1  | [6.8, 11.4]  | .027    | 9.2   | [6.8, 11.5]  | .036    |
| Other                                    | 10.3   | [4.4, 16.2]  | .511    | 10.1  | [4.4, 15.8]  | .474    |
| More than one                            | 7.9  | [2.7, 13.1]  | .167    | 8.5   | [3.0, 14.1]  | .252    |
| <b>Hispanic/Latino</b>                   |  |              |         |   |              |         |
| No                                       | 11.4   | [10.2, 12.7] |         | 11.5  | [10.2, 12.7] |         |
| Yes                                      | 9.3  | [3.9, 14.8]  | .497    | 9.3   | [3.9, 14.6]  | .477    |
| Don't know                               |  |              | -       |   |              | -       |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |              |         |   |              |         |
| No                                       | 11.6   | [10.4, 12.9] |         | 11.6  | [10.4, 12.9] |         |
| Yes                                      | 5.8  | [0.4, 11.1]  | .130    | 5.8   | [0.5, 11.1]  | .129    |
| Don't know                               |  |              | -       |   |              | -       |
| <b>Health status</b>                     |  |              |         |   |              |         |
| Excellent                                | 6.8  | [3.2, 10.5]  |         | 6.7   | [3.1, 10.2]  |         |
| Very good                                | 8.6  | [6.2, 11.1]  | .420    | 8.9   | [6.4, 11.5]  | .319    |
| Good                                     | 10.7   | [9.0, 12.5]  | .111    | 10.6  | [8.9, 12.4]  | .100    |
| Fair                                     | 13.0   | [10.4, 15.6] | .027    | 12.9  | [10.4, 15.5] | .024    |
| Poor                                     | 19.3   | [14.2, 24.5] | .001    | 19.1  | [14.1, 24.1] | < .001  |
| <b>Any chronic disease</b>               |  |              |         |   |              |         |
| No                                       | 8.5  | [5.7, 11.4]  |         | 8.7   | [5.9, 11.6]  |         |
| Yes                                      | 12.1   | [10.7, 13.6] | .058    | 12.0  | [10.6, 13.5] | .077    |
| <b>Urbanicity</b>                        |  |              |         |   |              |         |
| Rural                                    | 12.0   | [9.9, 14.2]  |         | 12.0  | [9.9, 14.0]  |         |
| Urban                                    | 11.2   | [9.8, 12.5]  | .481    | 11.2  | [9.8, 12.6]  | .541    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is Nicotine replacement and/or Varenicline prescription based on claims data. See Appendix B for full definitions.

**Table 2.91. Multivariate relationship between primary care visit and vaccines (any)<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | Marginal Estimate (%)                            | 95% CI        | p-value | Marginal Estimate (%)                             | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 47.2   | [45.0, 49.4]  | < .001  |   |               |         |
| Did not see PCP in past 12 months        | 30.8   | [26.3, 35.3]  |         |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 46.7  | [44.6, 48.8]  | < .001  |
| No primary care visit in claims data     |  |               |         | 17.8  | [11.8, 23.8]  |         |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | 39.7   | [36.3, 43.1]  |         | 39.8  | [36.4, 43.2]  |         |
| 35-50                                    | 44.9   | [41.6, 48.3]  | .031    | 44.8  | [41.5, 48.1]  | .038    |
| 51-64                                    | 49.0   | [45.7, 52.2]  | < .001  | 48.8  | [45.6, 52.0]  | < .001  |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | 43.4   | [40.4, 46.4]  |         | 43.8  | [40.8, 46.8]  |         |
| Female                                   | 44.5   | [42.0, 47.0]  | .576    | 44.1  | [41.6, 46.5]  | .899    |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | 45.0   | [42.5, 47.5]  |         | 44.8  | [42.3, 47.2]  |         |
| Black or African American                | 39.6   | [35.3, 43.8]  | .034    | 40.0  | [35.7, 44.2]  | .059    |
| Other                                    | 49.8   | [42.1, 57.5]  | .250    | 49.0  | [41.5, 56.5]  | .303    |
| More than one                            | 43.7   | [33.9, 53.5]  | .802    | 46.3  | [36.5, 56.1]  | .764    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | 44.0   | [42.0, 46.0]  |         | 44.0  | [42.0, 46.0]  |         |
| Yes                                      | 42.9   | [34.0, 51.7]  | .810    | 42.5  | [33.7, 51.3]  | .744    |
| Don't know                               | 48.7   | [14.6, 82.8]  | .787    | 51.6  | [18.2, 85.1]  | .656    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | 43.9   | [41.9, 46.0]  |         | 43.9  | [41.9, 46.0]  |         |
| Yes                                      | 42.7   | [34.0, 51.3]  | .782    | 43.0  | [34.3, 51.8]  | .847    |
| Don't know                               | 89.8   | [67.6, 112.1] | .047    | 92.1  | [71.9, 112.3] | .052    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | 37.3   | [30.7, 43.8]  |         | 36.7  | [30.2, 43.2]  |         |
| Very good                                | 41.5   | [37.4, 45.6]  | .276    | 42.4  | [38.3, 46.5]  | .141    |
| Good                                     | 42.4   | [39.2, 45.6]  | .173    | 42.1  | [39.0, 45.3]  | .151    |
| Fair                                     | 49.6   | [45.5, 53.8]  | .003    | 49.2  | [45.2, 53.3]  | .002    |
| Poor                                     | 50.1   | [43.1, 57.1]  | .010    | 49.7  | [42.9, 56.6]  | .009    |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | 38.9   | [35.0, 42.9]  |         | 39.1  | [35.1, 43.0]  |         |
| Yes                                      | 46.0   | [43.6, 48.5]  | .005    | 45.9  | [43.5, 48.4]  | .005    |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | 43.4   | [39.8, 47.0]  |         | 43.2  | [39.6, 46.8]  |         |
| Urban                                    | 44.1   | [41.8, 46.3]  | .762    | 44.1  | [41.9, 46.4]  | .670    |

Logistic regression with predicted marginal estimates; independent variables are rows.  
<sup>1</sup>Dependent variable is a claim for any vaccination. See Appendix B for full definitions.

**Table 2.9m. Multivariate relationship between primary care visit and Influenza vaccine<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | Marginal Estimate (%)                            | 95% CI        | p-value | Marginal Estimate (%)                             | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 35.2   | [33.1, 37.3]  | < .001  |   |               |         |
| Did not see PCP in past 12 months        | 20.4   | [16.6, 24.3]  |         |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 34.8  | [32.8, 36.7]  | < .001  |
| No primary care visit in claims data     |  |               |         | 7.6   | [4.1, 11.1]   |         |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | 27.7   | [24.6, 30.9]  |         | 27.8  | [24.7, 31.0]  |         |
| 35-50                                    | 32.8   | [29.7, 35.9]  | .023    | 32.7  | [29.7, 35.7]  | .028    |
| 51-64                                    | 38.6   | [35.7, 41.6]  | < .001  | 38.5  | [35.5, 41.4]  | < .001  |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | 31.1   | [28.4, 33.8]  |         | 31.4  | [28.7, 34.2]  |         |
| Female                                   | 33.7   | [31.4, 36.1]  | .143    | 33.4  | [31.1, 35.7]  | .268    |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | 33.3   | [31.1, 35.6]  |         | 33.2  | [30.9, 35.4]  |         |
| Black or African American                | 28.3   | [24.5, 32.1]  | .029    | 28.5  | [24.8, 32.3]  | .044    |
| Other                                    | 41.0   | [33.6, 48.5]  | .048    | 40.3  | [33.0, 47.5]  | .063    |
| More than one                            | 28.8   | [20.2, 37.5]  | .337    | 30.8  | [21.9, 39.7]  | .619    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | 32.6   | [30.7, 34.5]  |         | 32.6  | [30.7, 34.5]  |         |
| Yes                                      | 31.1   | [23.3, 39.0]  | .724    | 30.8  | [23.0, 38.6]  | .670    |
| Don't know                               | 28.6   | [-6.3, 63.5]  | .830    | 30.2  | [-8.1, 68.4]  | .903    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | 32.4   | [30.6, 34.3]  |         | 32.4  | [30.5, 34.3]  |         |
| Yes                                      | 31.9   | [24.1, 39.7]  | .896    | 32.1  | [24.3, 40.0]  | .946    |
| Don't know                               | 82.8   | [54.5, 111.2] | .021    | 87.0  | [58.0, 115.9] | .049    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | 23.0   | [17.4, 28.6]  |         | 22.6  | [17.1, 28.2]  |         |
| Very good                                | 27.2   | [23.6, 30.8]  | .213    | 27.9  | [24.2, 31.6]  | .123    |
| Good                                     | 32.8   | [29.9, 35.8]  | .005    | 32.5  | [29.6, 35.5]  | .004    |
| Fair                                     | 38.7   | [34.9, 42.6]  | < .001  | 38.3  | [34.5, 42.1]  | < .001  |
| Poor                                     | 39.0   | [32.4, 45.7]  | .001    | 38.7  | [32.2, 45.2]  | < .001  |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | 25.9   | [22.4, 29.5]  |         | 26.0  | [22.5, 29.6]  |         |
| Yes                                      | 34.9   | [32.6, 37.2]  | < .001  | 34.8  | [32.6, 37.1]  | < .001  |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | 33.5   | [30.2, 36.8]  |         | 33.3  | [30.0, 36.5]  |         |
| Urban                                    | 32.3   | [30.2, 34.4]  | .536    | 32.3  | [30.2, 34.4]  | .620    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is receipt of influenza vaccination based on claims data. See Appendix B for full definitions.

**Table 2.9n. Multivariate relationship between primary care visit and Pneumonia vaccine<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,019) |              |         | Primary care visit in claims data (Model n=4,019) |              |         |
|--|--|--------------|---------|---|--------------|---------|
|  | Marginal Estimate (%)                            | 95% CI       | p-value | Marginal Estimate (%)                             | 95% CI       | p-value |
| <b>Saw PCP in past 12 months</b>         | 6.6  | [5.5, 7.7]   | .147    |   |              |         |
| Did not see PCP in past 12 months        | 4.6  | [2.5, 6.7]   |         |   |              |         |
| <b>Primary care visit in claims data</b> |  |              |         | 6.5   | [5.5, 7.5]   | .094    |
| No primary care visit in claims data     |  |              |         | 2.6   | [-0.2, 5.4]  |         |
| <b>Age</b>                               |  |              |         |   |              |         |
| 19-34                                    | 2.3  | [1.1, 3.5]   |         | 2.3   | [1.2, 3.5]   |         |
| 35-50                                    | 7.1  | [5.3, 9.0]   | < .001  | 7.1   | [5.3, 9.0]   | < .001  |
| 51-64                                    | 9.6  | [7.8, 11.3]  | < .001  | 9.5   | [7.8, 11.3]  | < .001  |
| <b>Gender</b>                            |  |              |         |   |              |         |
| Male                                     | 7.4  | [5.7, 9.1]   |         | 7.4   | [5.7, 9.1]   |         |
| Female                                   | 5.3  | [4.3, 6.3]   | .024    | 5.3   | [4.3, 6.3]   | .021    |
| <b>Race</b>                              |  |              |         |   |              |         |
| White                                    | 6.3  | [5.1, 7.5]   |         | 6.3   | [5.1, 7.5]   |         |
| Black or African American                | 6.8  | [4.5, 9.2]   | .696    | 6.9   | [4.5, 9.2]   | .672    |
| Other                                    | 5.4  | [2.4, 8.3]   | .574    | 5.3   | [2.4, 8.2]   | .553    |
| More than one                            | 2.8  | [0.5, 5.1]   | .051    | 2.9   | [0.5, 5.3]   | .069    |
| <b>Hispanic/Latino</b>                   |  |              |         |   |              |         |
| No                                       | 6.3  | [5.3, 7.2]   |         | 6.3   | [5.3, 7.2]   |         |
| Yes                                      | 6.2  | [2.7, 9.7]   | .987    | 6.2   | [2.7, 9.7]   | .980    |
| Don't know                               | 16.6   | [-5.3, 38.5] | .197    | 17.2  | [-5.4, 39.8] | .182    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |              |         |   |              |         |
| No                                       | 6.4  | [5.4, 7.4]   |         | 6.4   | [5.4, 7.4]   |         |
| Yes                                      | 2.0  | [0.0, 3.9]   | .016    | 2.0   | [0.0, 3.9]   | .016    |
| Don't know                               |  |              | -       |   |              | -       |
| <b>Health status</b>                     |  |              |         |   |              |         |
| Excellent                                | 3.1  | [0.9, 5.4]   |         | 3.1   | [0.9, 5.2]   |         |
| Very good                                | 5.2  | [3.0, 7.5]   | .190    | 5.4   | [3.0, 7.7]   | .155    |
| Good                                     | 5.2  | [3.7, 6.6]   | .211    | 5.1   | [3.7, 6.6]   | .198    |
| Fair                                     | 8.6  | [6.5, 10.7]  | .008    | 8.6   | [6.5, 10.6]  | .007    |
| Poor                                     | 7.6  | [4.4, 10.8]  | .042    | 7.6   | [4.4, 10.8]  | .036    |
| <b>Any chronic disease</b>               |  |              |         |   |              |         |
| No                                       | 3.3  | [1.4, 5.2]   |         | 3.3   | [1.4, 5.2]   |         |
| Yes                                      | 7.0  | [5.8, 8.2]   | .014    | 7.0   | [5.8, 8.2]   | .016    |
| <b>Urbanicity</b>                        |  |              |         |   |              |         |
| Rural                                    | 7.2  | [5.5, 8.8]   |         | 7.1   | [5.5, 8.8]   |         |
| Urban                                    | 6.0  | [4.9, 7.2]   | .253    | 6.0   | [4.9, 7.2]   | .275    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup>Dependent variable is receipt of pneumonia vaccine based on claims data. See Appendix B for full definitions.

**Table 2.9o. Multivariate relationship between primary care visit and other vaccines<sup>1</sup>**

| Independent variables                    | Self-reported primary care visit (Model n=4,026) |               |         | Primary care visit in claims data (Model n=4,026) |               |         |
|--|--|---------------|---------|---|---------------|---------|
|  | Marginal Estimate (%)                            | 95% CI        | p-value | Marginal Estimate (%)                             | 95% CI        | p-value |
| <b>Saw PCP in past 12 months</b>         | 20.8   | [19.0, 22.6]  | .092    |   |               |         |
| Did not see PCP in past 12 months        | 17.0   | [13.3, 20.7]  |         |   |               |         |
| <b>Primary care visit in claims data</b> |  |               |         | 21.3  | [19.5, 23.0]  | < .001  |
| No primary care visit in claims data     |  |               |         | 9.7   | [5.3, 14.1]   |         |
| <b>Age</b>                               |  |               |         |   |               |         |
| 19-34                                    | 20.8   | [17.9, 23.7]  |         | 21.0  | [18.1, 23.9]  |         |
| 35-50                                    | 19.5   | [16.7, 22.2]  | .511    | 19.4  | [16.7, 22.1]  | .418    |
| 51-64                                    | 19.5   | [16.9, 22.0]  | .510    | 19.3  | [16.8, 21.8]  | .379    |
| <b>Gender</b>                            |  |               |         |   |               |         |
| Male                                     | 20.1   | [17.5, 22.6]  |         | 20.4  | [17.9, 23.0]  |         |
| Female                                   | 19.9   | [17.9, 21.9]  | .940    | 19.6  | [17.6, 21.6]  | .612    |
| <b>Race</b>                              |  |               |         |   |               |         |
| White                                    | 20.5   | [18.4, 22.6]  |         | 20.3  | [18.3, 22.4]  |         |
| Black or African American                | 18.0   | [14.6, 21.4]  | .224    | 18.3  | [14.8, 21.7]  | .328    |
| Other                                    | 22.3   | [15.6, 29.0]  | .630    | 22.0  | [15.4, 28.6]  | .634    |
| More than one                            | 20.1   | [12.1, 28.2]  | .924    | 21.4  | [12.9, 29.8]  | .816    |
| <b>Hispanic/Latino</b>                   |  |               |         |   |               |         |
| No                                       | 19.9   | [18.3, 21.6]  |         | 19.9  | [18.3, 21.6]  |         |
| Yes                                      | 21.2   | [13.2, 29.2]  | .759    | 21.1  | [13.1, 29.1]  | .776    |
| Don't know                               | 15.6   | [-5.0, 36.3]  | .712    | 16.3  | [-5.3, 37.9]  | .760    |
| <b>Arab/Chaldean/Middle Eastern</b>      |  |               |         |   |               |         |
| No                                       | 20.2   | [18.5, 21.9]  |         | 20.2  | [18.5, 21.9]  |         |
| Yes                                      | 16.4   | [9.8, 23.1]   | .318    | 16.3  | [9.7, 22.9]   | .297    |
| Don't know                               | 32.4   | [-11.4, 76.2] | .533    | 34.2  | [-17.1, 85.5] | .538    |
| <b>Health status</b>                     |  |               |         |   |               |         |
| Excellent                                | 20.7   | [15.3, 26.1]  |         | 20.6  | [15.2, 26.0]  |         |
| Very good                                | 20.9   | [17.4, 24.5]  | .948    | 21.5  | [17.9, 25.1]  | .780    |
| Good                                     | 19.1   | [16.6, 21.6]  | .586    | 19.0  | [16.5, 21.5]  | .587    |
| Fair                                     | 19.8   | [16.4, 23.1]  | .769    | 19.5  | [16.2, 22.8]  | .737    |
| Poor                                     | 20.4   | [14.5, 26.4]  | .943    | 20.2  | [14.3, 26.0]  | .919    |
| <b>Any chronic disease</b>               |  |               |         |   |               |         |
| No                                       | 19.8   | [16.5, 23.1]  |         | 20.1  | [16.9, 23.4]  |         |
| Yes                                      | 20.1   | [18.0, 22.2]  | .883    | 19.9  | [17.9, 22.0]  | .916    |
| <b>Urbanicity</b>                        |  |               |         |   |               |         |
| Rural                                    | 19.9   | [17.0, 22.8]  |         | 19.9  | [17.0, 22.8]  |         |
| Urban                                    | 20.0   | [18.1, 21.9]  | .960    | 20.0  | [18.2, 21.9]  | .929    |

Logistic regression with predicted marginal estimates; independent variables are rows.

<sup>1</sup> Dependent variable is receipt of other vaccines based on claims data. See Appendix B for full definitions.



### Section 3: Health risk assessment completion

**Table 3.1. Bivariate association between self-reported HRA completion and Data Warehouse records for HMV respondents**

| <b>Of those who self-reported....</b> | <b>Any HRA record<sup>1</sup></b> | <b>Completed HRA<sup>2</sup></b> |
|---------------------------------------|-----------------------------------|----------------------------------|
| That they did not complete the HRA    | 46.7                              | 18.8                             |
| That they did complete the HRA        | 68.3                              | 44.1                             |
| All                                   | 57.3                              | 31.3                             |

Weighted proportions

<sup>1</sup> Data warehouse record of HRA being started. See Appendix B for full definition.

<sup>2</sup> Data warehouse record for a completed HRA.

**Table 3.2. Bivariate and multivariate demographic predictors of Data Warehouse record of completed HRA**

| Independent variables                     | HRA Completion--Attestation Date in DW |              |                              |             |                              |
|---|--|--------------|------------------------------|-------------|------------------------------|
|   | Weighted proportion (%)                | 95% CI       | <i>p</i> -value <sup>1</sup> | Adjusted OR | <i>p</i> -value <sup>2</sup> |
| <b>Age</b>                                |  |              | < .001                       |             |                              |
| 19-34 (n=1,303)                           | 25.6                                   | [22.8, 28.5] |                              | [ref]       |                              |
| 35-50 (n=1,301)                           | 31.0                                   | [28.0, 34.2] |                              | 1.20        | .105                         |
| 51-64 (n=1,486)                           | 40.5                                   | [37.5, 43.6] |                              | 1.68        | < .001                       |
| <b>Gender</b>                             |  |              | .203                         |             |                              |
| Male (n=1,681)                            | 30.1                                   | [27.6, 32.8] |                              | [ref]       |                              |
| Female (n=2,409)                          | 32.4                                   | [30.1, 34.8] |                              | 0.98        | 0.796                        |
| <b>Race</b>                               |  |              | <.001                        |             |                              |
| White (n=2,784)                           | 34.5                                   | [32.3, 36.8] |                              | [ref]       |                              |
| Black or African American (n=807)         | 27.5                                   | [24.0, 31.3] |                              | 0.75        | .015                         |
| Other (n=306)                             | 21.0                                   | [16.3, 26.7] |                              | 0.60        | .022                         |
| More than one (n=142)                     | 28.2                                   | [20.4, 37.6] |                              | 0.86        | .492                         |
| <b>Ethnicity<sup>3</sup></b>              |  |              |                              |             |                              |
| Hispanic/Latino (n=188)                   | 24.4                                   | [18.2, 31.9] | .066                         | 0.84        | .455                         |
| Arab/Chaldean/Middle Eastern (n=204)      | 24.9                                   | [18.6, 32.6] | .09                          | 0.90        | .679                         |
| <b>Income, % of federal poverty level</b> |  |              | .264                         |             |                              |
| 0-35% (n=1,600)                           | 32.3                                   | [29.6, 35.2] |                              | [ref]       |                              |
| 36-99% (n=1,450)                          | 29.3                                   | [26.6, 32.0] |                              | 0.84        | .068                         |
| ≥ 100% (n=1,040)                          | 31.7                                   | [28.6, 35.0] |                              | 0.94        | .595                         |
| <b>Urbanicity</b>                         |  |              | .26                          |             |                              |
| Rural (n=1,198)                           | 33.0                                   | [30.0, 36.2] |                              | [ref]       |                              |
| Urban (n=2,892)                           | 30.9                                   | [28.9, 33.0] |                              | 1.07        | .492                         |
| <b>Preferred language</b>                 |  |              | .097                         |             |                              |
| English (n=4,008)                         | 31.5                                   | [29.8, 33.3] |                              | [ref]       |                              |
| Arabic (n=59)                             | 20.5                                   | [12.0, 32.9] |                              | 0.91        | .827                         |
| Spanish (n=21)                            | 19.6                                   | [7.8, 41.2]  |                              | 1.36        | .631                         |
| <b>PCP visit</b>                          |  |              | < .001                       |             |                              |
| Did not see PCP in past 12 months (n=704) | 12.6                                   | [10.0, 15.8] |                              | [ref]       |                              |
| Saw PCP in past 12 months (n=3,386)       | 36.2                                   | [34.2, 38.3] |                              | 3.61        | < .001                       |

Weighted bivariate proportions and logistic regression model with adjusted odds ratio of associations between demographic characteristics and HRA completion.

<sup>1</sup> Pearson's chi-squared test

<sup>2</sup> Logistic regression with adjusted odds ratios

<sup>3</sup> Odds ratios for ethnic groups are calculated using dummy variables, with everyone not included in the ethnic group as reference.

**Table 3.3 Bivariate and multivariate demographic predictors of self-reported HRA completion**

| Independent variables                     | Self-reported HRA completion |              |                              |             |                              |
|---|------------------------------|--------------|------------------------------|-------------|------------------------------|
|   | % Yes                        | 95% CI       | <i>p</i> -value <sup>1</sup> | Adjusted OR | <i>p</i> -value <sup>2</sup> |
| <b>Age</b>                                |                              |              | .188                         |             |                              |
| 19-34 (n=1,303)                           | 47.3                         | [43.9, 50.7] |                              | [ref]       |                              |
| 35-50 (n=1,301)                           | 49.7                         | [46.3, 53.1] |                              | 1.01        | .924                         |
| 51-64 (n=1,486)                           | 51.7                         | [48.6, 54.8] |                              | 1.02        | .849                         |
| <b>Gender</b>                             |                              |              | .034                         |             |                              |
| Male (n=1,681)                            | 47.1                         | [44.0, 50.1] |                              | [ref]       |                              |
| Female (n=2,409)                          | 51.4                         | [48.8, 53.9] |                              | 1.06        | .517                         |
| <b>Race</b>                               |                              |              | < .001                       |             |                              |
| White (n=2,784)                           | 53.0                         | [50.6, 55.4] |                              | [ref]       |                              |
| Black or African American (n=807)         | 47.5                         | [43.2, 51.9] |                              | 0.84        | .110                         |
| Other (n=306)                             | 28.0                         | [22.5, 34.2] |                              | 0.57        | .004                         |
| More than one (n=142)                     | 50.8                         | [40.7, 60.8] |                              | 1.10        | .657                         |
| <b>Ethnicity<sup>3</sup></b>              |                              |              |                              |             |                              |
| Hispanic/Latino (n=188)                   | 39.6                         | [31.5, 48.4] | .026                         | 0.82        | .355                         |
| Arab/Chaldean/Middle Eastern (n=204)      | 27.5                         | [20.8, 35.4] | < .001                       | 0.61        | .027                         |
| <b>Income, % of federal poverty level</b> |                              |              | .185                         |             |                              |
| 0-35% (n=1,600)                           | 49.7                         | [46.6, 52.8] |                              | [ref]       |                              |
| 36-99% (n=1,450)                          | 46.9                         | [43.8, 50.0] |                              | 0.92        | .405                         |
| ≥ 100% (n=1,040)                          | 51.6                         | [48.1, 55.1] |                              | 1.08        | .447                         |
| <b>Urbanicity</b>                         |                              |              | .007                         |             |                              |
| Rural (n=1,198)                           | 53.9                         | [50.5, 57.3] |                              | [ref]       |                              |
| Urban (n=2,892)                           | 48.2                         | [45.9, 50.5] |                              | 0.93        | .427                         |
| <b>Preferred language</b>                 |                              |              | < .001                       |             |                              |
| English (n=4,008)                         | 50.1                         | [48.1, 52.1] |                              | [ref]       |                              |
| Arabic (n=59)                             | 2.2                          | [0.5, 8.4]   |                              | 0.05        | < .001                       |
| Spanish (n=21)                            | 17.9                         | [5.3, 46.1]  |                              | 0.51        | .372                         |
| <b>PCP visit</b>                          |                              |              | < .001                       |             |                              |
| Did not see PCP in past 12 months (n=704) | 36.2                         | [31.7, 41.1] |                              | [ref]       |                              |
| Saw PCP in past 12 months (n=3,386)       | 52.7                         | [50.5, 54.8] |                              | 1.89        | < .001                       |

Weighted bivariate proportions and logistic regression model with adjusted odds ratio of associations between demographic characteristics and self-reported HRA completion.

<sup>1</sup> Pearson's chi-squared test

<sup>2</sup> Logistic regression with adjusted odds ratios

<sup>3</sup> Odds ratios for ethnic groups are calculated using dummy variables, with everyone not included in the ethnic group as reference.

## Section 4: Health behaviors

**Table 4.1. Bivariate relationship between frequency of social connections and health behaviors**

|  | How often do you get together socially with friends or relatives who live outside your home? |                              |                          |                           |                                   | <i>p</i> -value <sup>1</sup> |
|--|--|------------------------------|--------------------------|---------------------------|-----------------------------------|------------------------------|
|  | Every day<br>(Column %)  | Every few days<br>(Column %) | Every week<br>(Column %) | Every month<br>(Column %) | Once a year or less<br>(Column %) |                              |
| <b>In the last 7 days, how many days did you exercise for at least 20 minutes?</b>   |  |                              |                          |                           |                                   | < .001                       |
| Every day  | 43.2   | 34.5                         | 28.3                     | 26.4                      | 33.4                              |                              |
| 3-6 days   | 30.4   | 36.6                         | 36.4                     | 30.0                      | 31.3                              |                              |
| 1-2 days   | 12.6   | 14.7                         | 16.8                     | 20.3                      | 12.6                              |                              |
| 0 days   | 13.8   | 14.2                         | 18.5                     | 23.4                      | 22.7                              |                              |
| <b>In the last 7 days, on how many days did you have 5 or more alcoholic drinks (males) or 4 or more alcoholic drinks (females)?</b> |  |                              |                          |                           |                                   | .006                         |
| Every day  | 2.7  | 0.9                          | 0.9                      | 0.8                       | 0.7                               |                              |
| 3-6 days   | 5.6  | 4.1                          | 3.5                      | 3.1                       | 4.9                               |                              |
| 1-2 days   | 12.5   | 16.6                         | 17.4                     | 11.0                      | 11.6                              |                              |
| 0 days   | 79.2   | 78.5                         | 78.3                     | 85.2                      | 82.8                              |                              |

Weighted proportions of the association between social connectedness and health behaviors.

<sup>1</sup> Pearson's chi-squared test

**Table 4.2. Bivariate relationship between change in frequency of social connections and health behaviors**

|  | <b>Since enrolling in the Healthy Michigan Plan are you involved with your family, friends or community more, less, or about the same?</b> |                    |                              |                              |
|--|--|--------------------|------------------------------|------------------------------|
|  | More<br>(Column %)   | Less<br>(Column %) | About the same<br>(Column %) | <i>p</i> -value <sup>1</sup> |
| <b>In the last 7 days, how many days did you exercise for at least 20 minutes?</b>   |  |                    |                              | .002                         |
| Every day  | 32.1   | 25.5               | 32.5                         |                              |
| 3-6 days   | 36.4   | 22.3               | 33.9                         |                              |
| 1-2 days   | 15.5   | 19.0               | 15.9                         |                              |
| 0 days   | 16.0   | 33.1               | 17.8                         |                              |
| <b>In the last 7 days, on how many days did you have 5 or more alcoholic drinks (males) or 4 or more alcoholic drinks (females)?</b> |  |                    |                              | NS                           |
| Every day  | 1.3  | -                  | 1.1                          |                              |
| 3-6 days   | 2.6  | 4.8                | 4.3                          |                              |
| 1-2 days   | 13.6   | 14.8               | 14.7                         |                              |
| 0 days   | 82.8   | 80.4               | 79.9                         |                              |

Weighted proportions of the association between social connectedness and health behaviors.

<sup>1</sup> Pearson's chi-squared test

## Section 5: Emergency department utilization

**Table 5.1a. Multivariate analysis of individual and community factors' relationship to any emergency department utilization**

| Independent variables  | Self-reported ER visit past 12 months (Yes/no) |              |         | Any ER visit past 12 months <sup>1</sup> |              |         |
|--|--|--------------|---------|--|--------------|---------|
|  | aOR  | 95% CI       | p-value | aOR                                      | 95% CI       | p-value |
| <b>Age (continuous)</b>  | .97  | [0.96, 0.98] | < .001  | .97                                      | [0.96, 0.97] | < .001  |
| <b>Female</b>  | 1.24   | [1.03, 1.49] | .026    | 1.34                                     | [1.11, 1.61] | .002    |
| <b>Race</b>  |  |              |         |  |              |         |
| White  | Reference                                      |              |         | Reference                                |              |         |
| Black or African American  | 1.19   | [0.93, 1.52] | .166    | 1.27                                     | [1.00, 1.62] | .057    |
| Other  | .93  | [0.65, 1.34] | .712    | 1.09                                     | [0.77, 1.54] | .638    |
| More than one  | 1.23   | [0.77, 1.97] | .382    | 1.32                                     | [0.83, 2.09] | .243    |
| <b>Ethnicity</b>   |  |              |         |  |              |         |
| Hispanic/Latino  | 1.20   | [0.77, 1.86] | .431    | 1.29                                     | [0.84, 1.98] | .243    |
| <b>Income, % of federal poverty level</b>                                  |  |              |         |  |              |         |
| 0-35%  | Reference                                      |              |         | Reference                                |              |         |
| 36-99%   | .92  | [0.74, 1.15] | .472    | .74                                      | [0.60, .91]  | .005    |
| ≥ 100%   | .98  | [0.77, 1.24] | .855    | .86                                      | [0.69, 1.08] | .201    |
| <b>Employed</b>  | .84  | [0.68, 1.04] | .107    | .98                                      | [0.80, 1.20] | .879    |
| <b>Health and Healthcare</b>   |  |              |         |  |              |         |
| ≥2 Chronic disease <sup>2</sup>  | 1.71   | [1.38, 2.14] | <.001   | 1.79                                     | [1.44, 2.23] | < .001  |
| Any MHSA diagnosis <sup>2</sup>  | 1.71   | [1.38, 2.14] | < .001  | 1.93                                     | [1.58, 2.37] | < .001  |
| Fair/poor health status  | 1.46   | [1.19, 1.80] | < .001  | 1.16                                     | [0.94, 1.44] | .154    |
| Experienced discrimination race/ethnicity                                  | 1.62   | [0.93, 2.83] | .089    | 1.14                                     | [0.60, 2.17] | .684    |
| Experienced discrimination insurance/payment                               | 1.55   | [1.18, 2.05] | .002    | 1.39                                     | [1.06, 1.83] | .019    |
| RSOC=doctor office or clinic   | .84  | [0.63, 1.12] | .236    | .73                                      | [0.55, 0.96] | .024    |
| MHSA visits (continuous) <sup>2</sup>                                      | 1.00   | [1.00, 1.00] | .076    | 1.00                                     | [1.00, 1.00] | .184    |
| Total outpatient visits (including primary care) (continuous) <sup>2</sup> | 1.05   | [1.03, 1.08] | < .001  | 1.07                                     | [1.05, 1.10] | < .001  |
| <b>Improved access to...</b>   |  |              |         |  |              |         |
| Primary care   | 1.08   | [0.85, 1.36] | .545    | 1.02                                     | [0.82, 1.27] | .865    |
| Prescription   | 1.00   | [0.80, 1.23] | .920    | 1.01                                     | [0.81, 1.25] | .942    |
| MH   | .95  | [0.74, 1.21] | .681    | 1.04                                     | [0.83, 1.32] | .719    |
| SUD treatment  | 1.32   | [0.94, 1.86] | .113    | 1.03                                     | [0.72, 1.45] | .887    |
| Specialty care   | 1.08   | [0.86, 1.34] | .515    | 1.11                                     | [0.90, 1.38] | .33     |
| <b>Community factors</b>   |  |              |         |  |              |         |
| % uninsured <sup>3</sup>   | 1.03   | [1.00, 1.06] | .034    | 1.00                                     | [0.97, 1.03] | .930    |
| % college educated <sup>3</sup>  | 1.00   | [0.98, 1.00] | .047    | .98                                      | [0.97, .99]  | .001    |
| Ratio of PCP <sup>4</sup>  | 1.00   | [1.00, 1.00] | .888    | 1.00                                     | [1.00, 1.00] | .359    |
| <b>Constant</b>  | .61  | [0.31, 1.21] | .161    | 1.35                                     | [0.67, 2.72] | .400    |

Abbreviations: MHSA mental health/substance abuse diagnosis; RSOC regular source of care; SUD substance use disorder  
 Logistic regression with adjusted odds ratios and 95% confidence intervals. If no reference group is listed, and the independent variable is not marked "continuous," variable is dichotomous.

<sup>1</sup> Any ER visit based on claims for emergency department services. See Appendix B.

<sup>2</sup> Variable is based on Data Warehouse/claims data. See Appendix B.

<sup>3</sup> Community factor is obtained from US Census data/ACS, and is grouped at the ZIP code level. See Appendix B.

<sup>4</sup> Community factor is from Robert Wood Johnson, and grouped at the county level. See Appendix B.

**Table 5.1b. Multivariate analysis of individual and community factors' relationship to number and complexity of emergency department visits**

| Independent variables  | # ER visits past 12 months <sup>1</sup> |                |         | # High complexity ER visits past 12 months <sup>1</sup> |                |         | # Low-medium complexity ER visits past 12 months <sup>1</sup> |                |         |
|--|---|----------------|---------|---|----------------|---------|---|----------------|---------|
|  | Coef                                    | 95% CI         | p-value | Coef  | 95% CI         | p-value | Coef  | 95% CI         | p-value |
| Age  | -.04                                    | [-0.04, -0.03] | < .001  | -.04  | [-0.04, -0.03] | < .001  | -.04  | [-0.05, -0.02] | < .001  |
| Female   | .33                                     | [0.18, .49]    | < .001  | .33   | [0.16, 0.50]   | < .001  | .36   | [0.13, 0.58]   | .002    |
| <b>Race</b>  |   |                |         |   |                |         |   |                |         |
| White  | Reference                               |                |         | Reference   |                |         | Reference   |                |         |
| Black or African American                                      | .16                                     | [-0.03, 0.34]  | .097    | .15   | [-0.06, 0.37]  | .157    | .18   | [-0.09, 0.44]  | .197    |
| Other  | -.18                                    | [-0.44, 0.08]  | .170    | -.21  | [-0.06, 0.37]  | .190    | -.13  | [-0.53, 0.28]  | .541    |
| More than one  | -.03                                    | [-0.41, 0.36]  | .896    | .02   | [-0.30, 0.34]  | .917    | -.10  | [-0.75, 0.55]  | .763    |
| <b>Ethnicity</b>   |   |                |         |   |                |         |   |                |         |
| Hispanic/Latino  | -.03                                    | [-0.32, 0.27]  | .860    | .04   | [-0.27, 0.36]  | .771    | -.14  | [-0.61, 0.33]  | .564    |
| <b>Income, % of federal poverty level</b>                      |   |                |         |   |                |         |   |                |         |
| 0-35%  | Reference                               |                |         | Reference   |                |         | Reference   |                |         |
| 36-99%   | -.17                                    | [-0.34, 0.00]  | .054    | -.25  | [-0.45, -0.06] | .012    | .001  | [-0.25, 0.25]  | .991    |
| ≥ 100%   | -.22                                    | [-0.38, -0.05] | .013    | -.20  | [-0.40, -0.00] | .045    | -.25  | [-0.51, 0.01]  | .061    |
| Employed   | -.01                                    | [-0.17, 0.16]  | .939    | -.04  | [-0.24, 0.17]  | .045    | .05   | [-0.19, 0.28]  | .687    |
| <b>Health and Healthcare</b>                                   |   |                |         |   |                |         |   |                |         |
| ≥2 Chronic disease <sup>2</sup>                                | .61                                     | [0.43, 0.80]   | < .001  | .70   | [0.50, 0.89]   | < .001  | .50   | {0.23, 0.77}   | < .001  |
| Any MH/SA diagnosis <sup>2</sup>                               | 0.53                                    | [0.38, 0.69]   | < .001  | .54   | [0.37, 0.71]   | < .001  | .54   | [0.30, 0.77]   | < .001  |
| Fair/poor health status  | .17                                     | [0.00, 0.33]   | .044    | .24   | [0.05, 0.42]   | .013    | .009  | [-0.22, 0.24]  | .942    |
| Experienced discrimination race/ethnicity                      | -.02                                    | [-0.43, 0.40]  | .933    | .03   | [-0.35, 0.40]  | .897    | -.11  | [-0.78, 0.57]  | .757    |
| Experienced discrimination insurance/payment                   | .29                                     | [0.07, 0.51]   | .009    | .23   | [0.00, 0.46]   | .047    | 0.42  | [0.09, 0.75]   | .014    |
| RSOC=doctor office or clinic                                   | -.30                                    | [-0.54, -0.07] | .011    | -.24  | [-0.50, 0.02]  | .070    | -.37  | [-0.71, -0.03] | .033    |
| #MHSA visits <sup>2</sup>                                      | .002                                    | [-0.00, 0.00]  | .083    | .001  | [-0.00, 0.00]  | .142    | .001  | [-0.00, 0.00]  | .269    |
| #TOTAL outpatient visits (including Primary care) <sup>2</sup> | .03                                     | [0.02, 0.05]   | < .001  | .04   | [0.03, 0.06]   | < .001  | .01   | [-0.01, 0.03]  | .236    |
| <b>Improved access to...</b>                                   |   |                |         |   |                |         |   |                |         |
| Primary care   | -.07                                    | [-0.25, 0.10]  | .412    | -.09  | [-0.30, 0.13]  | .426    | -.04  | [-0.30, 0.23]  | .781    |
| Prescription   | .12                                     | [-0.06, 0.30]  | .176    | .22   | [0.02, 0.42]   | .032    | -.06  | [-0.33, 0.21]  | .667    |
| MH   | .03                                     | [-0.14, 0.20]  | .725    | .11   | [-0.08, 0.30]  | .268    | -.15  | [-0.42, 0.12]  | .282    |
| SUD treatment  | .18                                     | [-0.08, 0.44]  | .185    | .14   | [-0.15, 0.42]  | .355    | .26   | [-0.11, 0.64]  | .165    |
| Specialty care   | .10                                     | [-0.09, 0.29]  | .305    | .06   | [-0.13, 0.25]  | .521    | .17   | [-0.16, 0.50]  | .312    |

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|                                 |       |               |      |       |               |      |       |                |      |
|---------------------------------|-------|---------------|------|-------|---------------|------|-------|----------------|------|
| <b>Community factors</b>        |       |               |      |       |               |      |       |                |      |
| % uninsured <sup>3</sup>        | .003  | [-0.02, 0.03] | .742 | .004  | [-0.03, 0.03] | .814 | .003  | [-0.24, 0.030] | .827 |
| % college educated <sup>3</sup> | -.009 | [-0.02, 0.00] | .056 | -.008 | [-0.02, 0.00] | .132 | -.009 | [-0.02, 0.00]  | .124 |
| Ratio of PCP <sup>4</sup>       | .00   | [-0.00, 0.00] | .339 | .00   | [-0.00, 0.00] | .987 | .00   | [-0.00, 0.00]  | .069 |
| <b>Constant</b>                 | .45   | [-0.08, 0.99] | .098 | -.11  | [-0.75, 0.53] | .739 | -.39  | [-1.18, 0.40]  | .331 |

Abbreviations: MHSA mental health/substance abuse diagnosis; RSOC regular source of care; SUD substance use disorder

Multiple linear regression coefficients and 95% confidence intervals

<sup>1</sup> Count of ER visits (total and by complexity) based on claims for emergency department services. See Appendix B for full definition.

<sup>2</sup> Variable is based on Data Warehouse/claims data. See Appendix B.

<sup>3</sup> Community factor is obtained from US Census data/ACS, and is grouped at the ZIP code level. See Appendix B.

<sup>4</sup> Community factor is from Robert Woods Johnson, and grouped at the county level. See Appendix B.



**Table 5.1c. Multivariate analysis of individual and community factors' relationship to any emergency department utilization**

| Independent variables  | Self-reported ER visit past 12 months (Yes/no) |              |                      | Any ER visit past 12 months <sup>1</sup> |              |                      |
|--|--|--------------|----------------------|--|--------------|----------------------|
|  | Marginal Estimate (%)                          | 95% CI       | p-value <sup>5</sup> | Marginal Estimate (%)                    | 95% CI       | p-value <sup>5</sup> |
| <b>Female</b>  | 39.7   | [37.1, 42.2] | .026                 | 44.1                                     | [41.5, 46.7] | .002                 |
| <b>Race</b>  |  |              |                      |  |              |                      |
| White  | 36.6   | [34.0, 39.1] |                      | 39.5                                     | [36.9, 42.0] |                      |
| Black or African American  | 40.1   | [35.9, 44.3] | .166                 | 44.4                                     | [40.1, 48.7] | .057                 |
| Other  | 35.2   | [28.6, 41.8] | .712                 | 41.2                                     | [34.5, 47.8] | .638                 |
| More than one  | 40.9   | [31.3, 50.4] | .382                 | 45.2                                     | [35.8, 54.6] | .243                 |
| <b>Ethnicity</b>   |  |              |                      |  |              |                      |
| Hispanic/Latino  | 41.1   | [32.0, 50.1] | .431                 | 46.2                                     | [37.4, 55.0] | .243                 |
| <b>Income, % of federal poverty level</b>  |  |              |                      |  |              |                      |
| 0-35%  | 38.1   | [35.0, 41.2] |                      | 43.6                                     | [40.4, 46.7] |                      |
| 36-99%   | 36.5   | [33.3, 39.6] | .472                 | 37.3                                     | [34.2, 40.4] | .005                 |
| ≥ 100%   | 37.7   | [34.1, 41.3] | .855                 | 40.5                                     | [36.9, 44.0] | .201                 |
| <b>Employed</b>  | 35.8   | [32.8, 38.7] | .107                 | 41.0                                     | [38.1, 44.0] | .879                 |
| <b>Health and Healthcare</b>   |  |              |                      |  |              |                      |
| ≥2 Chronic disease <sup>2</sup>  | 43.5   | [40.3, 46.7] | <.001                | 47.7                                     | [44.6, 50.9] | <.001                |
| Any MHSA diagnosis <sup>2</sup>  | 44.4   | [41.1, 47.8] | <.001                | 49.9                                     | [46.5, 53.2] | <.001                |
| Fair/poor health status  | 43.1   | [39.5, 46.8] | <.001                | 43.4                                     | [39.8, 47.0] | .154                 |
| Experienced discrimination race/ethnicity  | 47.5   | [35.6, 59.5] | .089                 | 43.9                                     | [30.6, 57.1] | .684                 |
| Experienced discrimination insurance/payment                                       | 45.8   | [40.1, 51.5] | .002                 | 47.3                                     | [41.8, 52.8] | .019                 |
| RSOC=doctor office or clinic   | 37.1   | [35.0, 39.2] | .236                 | 40.2                                     | [38.1, 42.3] | .024                 |
| <b>Improved access to...</b>   |  |              |                      |  |              |                      |
| Primary care   | 38.2   | [35.5, 40.9] | .545                 | 41.3                                     | [38.6, 44.1] | .865                 |
| Prescription   | 37.5   | [34.9, 40.1] | .920                 | 41.2                                     | [38.6, 43.9] | .942                 |
| MH   | 36.8   | [32.7, 40.9] | .681                 | 41.8                                     | [37.8, 45.9] | .719                 |
| SUD treatment  | 42.7   | [35.9, 49.6] | .113                 | 41.6                                     | [34.9, 48.4] | .887                 |
| Specialty care   | 38.4   | [35.3, 41.5] | .515                 | 42.4                                     | [39.2, 45.5] | .33                  |
| <b>Age (continuous)<sup>6</sup></b>  |  |              | <.001                |  |              | <.001                |
| 43.42 years  | 35.7   | [33.8, 37.6] |                      | 38.9                                     | [36.9, 40.8] |                      |
| 31.75 years  | 42.8   | [40.2, 45.4] |                      | 47.3                                     | [44.7, 49.9] |                      |
| 45.25 years  | 34.7   | [32.7, 36.6] |                      | 37.6                                     | [35.6, 39.6] |                      |
| 54.75 years  | 29.4   | [26.9, 31.9] |                      | 31.3                                     | [28.8, 33.8] |                      |
| <b>Total outpatient visits (including primary care; continuous)<sup>2, 6</sup></b> |  |              | <.001                |  |              | <.001                |
| 5.95   | 37.7   | [35.6, 39.7] |                      | 41.5                                     | [39.5, 43.6] |                      |
| 2  | 33.4   | [30.9, 35.8] |                      | 35.6                                     | [33.2, 38.0] |                      |
| 5  | 36.6   | [34.6, 38.6] |                      | 40.1                                     | [38.0, 42.1] |                      |
| 8  | 40.0   | [37.6, 42.3] |                      | 44.7                                     | [42.3, 47.1] |                      |
| <b>MHSA visits (continuous)<sup>2, 7</sup></b>                                     |  |              | .076                 |  |              | .184                 |
| 0  | 37.3   | [35.4, 39.3] |                      | 41.0                                     | [39.0, 43.0] |                      |
| 2  | 37.5   | [35.5, 39.4] |                      | 41.1                                     | [39.1, 43.1] |                      |
| 4  | 37.6   | [35.6, 39.5] |                      | 41.2                                     | [39.2, 43.2] |                      |
| 6  | 37.9   | [35.7, 39.7] |                      | 41.3                                     | [39.3, 43.3] |                      |

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| <b>Community factors</b>          |      |              |  |      |              |      |
|-----------------------------------|------|--------------|--|------|--------------|------|
| % uninsured <sup>3,6</sup>        |      |              |  | .034 |              | .930 |
| 13.1                              | 37.3 | [35.3, 39.2] |  | 41.2 | [39.2, 43.2] |      |
| 10.3                              | 35.6 | [33.1, 38.1] |  | 41.1 | [38.5, 43.7] |      |
| 12.8                              | 37.1 | [35.1, 39.1] |  | 41.2 | [39.2, 43.2] |      |
| 15.3                              | 38.6 | [36.3, 40.9] |  | 41.2 | [38.9, 43.5] |      |
| % college educated <sup>3,6</sup> |      |              |  | .047 |              | .001 |
| 21.4                              | 37.5 | [35.5, 39.4] |  | 41.0 | [39.0, 43.0] |      |
| 12.5                              | 39.1 | [36.6, 41.7] |  | 44.1 | [41.4, 46.7] |      |
| 18.4                              | 38.0 | [36.0, 40.0] |  | 42.0 | [40.0, 44.1] |      |
| 26.1                              | 36.6 | [34.4, 38.7] |  | 39.4 | [37.2, 41.7] |      |
| Ratio of PCP <sup>4,6</sup>       |      |              |  | .888 |              | .359 |
| 1,643.02                          | 37.6 | [35.6, 39.5] |  | 41.2 | [39.2, 43.2] |      |
| 1,123                             | 37.7 | [35.4, 40.0] |  | 40.6 | [38.3, 43.0] |      |
| 1,528                             | 37.6 | [35.6, 39.6] |  | 41.1 | [39.1, 43.1] |      |
| 1,874                             | 37.5 | [35.5, 39.6] |  | 41.5 | [39.4, 43.5] |      |

Abbreviations: MHSA mental health/substance abuse diagnosis; RSOC regular source of care; SUD substance use disorder  
 Logistic regression with adjusted odds ratios and 95% confidence intervals. If no reference group is listed, and the independent variable is not marked "continuous," variable is dichotomous.

<sup>1</sup> Any ER visit based on claims for emergency department services. See Appendix B.

<sup>2</sup> Variable is based on Data Warehouse/claims data. See Appendix B.

<sup>3</sup> Community factor is obtained from US Census data/ACS, and is grouped at the ZIP code level. See Appendix B.

<sup>4</sup> Community factor is from Robert Wood Johnson, and grouped at the county level. See Appendix B.

<sup>5</sup> p-values reported are from logistic regression

<sup>6</sup> Variable is originally continuous, margins are estimated at specific cut shown; in order, mean, the 25<sup>th</sup> percentile, the 50<sup>th</sup> percentile, and the 75<sup>th</sup> percentile

<sup>7</sup> Variable is originally continuous, margins are estimated at specific cut shown

**Table 5.1d. Multivariate analysis of individual and community factors' relationship to number and complexity of emergency department visits**

|  | # ER visits past 12 months <sup>1</sup> |                |                              | # High complexity ER visits past 12 months <sup>1</sup> |                |                              | # Low-medium complexity ER visits past 12 months <sup>1</sup> |                |                              |
|--|---|----------------|------------------------------|---|----------------|------------------------------|---|----------------|------------------------------|
|  | Percent                                 | Standard Error | Number of observations       | Percent   | Standard Error | Number of observations       | Percent   | Standard Error | Number of observations       |
| <b>Number of ER visits<sup>2, 8</sup></b>    |   |                |                              |   |                |                              |   |                |                              |
| 1 or more ER visits                          | 41.4                                    | .0099          | 1,576                        | 32.6  | .0096          | 1,208                        | 19.8  | .0081          | 767                          |
| 1 ER visit                                   | 20.5                                    | .0082          | 798                          | 18.6  | .008           | 698                          | 13.5  | .0068          | 531                          |
| 2-4 ER                                       | 16.6                                    | .0076          | 622                          | 11.8  | .0067          | 431                          | 5.8   | .0051          | 212                          |
| 5 or more                                    | 4.4                                     | .0044          | 156                          | 2.2   | .0031          | 79                           | 0.6   | .0013          | 24                           |
| <b>Independent variables</b>                 | Predicted number of events              | 95% CI         | <i>p</i> -value <sup>5</sup> | Predicted number of events                              | 95% CI         | <i>p</i> -value <sup>5</sup> | Predicted number of events                                    | 95% CI         | <i>p</i> -value <sup>5</sup> |
| <b>Female</b>                                | 1.1                                     | [1.00, 1.25]   | < .001                       | 0.7   | [.66, .84]     | < .001                       | 0.4   | [.31, .43]     | .002                         |
| <b>Race</b>                                  |   |                |                              |   |                |                              |   |                |                              |
| White  | 0.9                                     | [.84, 1.05]    |                              | 0.6   | [.55, .72]     |                              | 0.3   | [.26, .35]     |                              |
| Black or African American                    | 1.1                                     | [.94, 1.27]    | .097                         | 0.7   | [.61, .87]     | .157                         | 0.4   | [.29, .44]     | .197                         |
| Other  | 0.8                                     | [.60, .97]     | .170                         | 0.5   | [.37, .66]     | .190                         | 0.3   | [.17, .37]     | .541                         |
| More than one                                | 0.9                                     | [.58, 1.26]    | .896                         | 0.6   | [.44, .85]     | .917                         | 0.3   | [.10, .45]     | .763                         |
| <b>Ethnicity</b>                             |   |                |                              |   |                |                              |   |                |                              |
| Hispanic/Latino                              | 0.9                                     | [.68, 1.22]    | .860                         | 0.7   | [.48, .89]     | .771                         | 0.3   | [.15, .40]     | .564                         |
| <b>Income, % of federal poverty level</b>    |   |                |                              |   |                |                              |   |                |                              |
| 0-35%  | 1.1                                     | [.93, 1.17]    |                              | 0.7   | [.61, .81]     |                              | 0.3   | [.27, .38]     |                              |
| 36-99%                                       | 0.9                                     | [.77, 1.01]    | .054                         | 0.6   | [.47, .64]     | .012                         | 0.3   | [.27, .39]     | .991                         |
| ≥ 100%                                       | 0.8                                     | [.74, .95]     | .013                         | 0.6   | [.49, .67]     | .045                         | 0.3   | [.21, .30]     | .061                         |
| Employed                                     | 1.0                                     | [.83, 1.11]    | .939                         | 0.6   | [.52, .75]     | .045                         | 0.3   | [.27, .38]     | .687                         |
| <b>Health and Healthcare</b>                 |   |                |                              |   |                |                              |   |                |                              |
| ≥2 Chronic disease <sup>2</sup>              | 1.3                                     | [1.12, 1.43]   | < .001                       | 0.9   | [.75, .99]     | < .001                       | 0.4   | [.33, .48]     | < .001                       |
| Any MH/SA diagnosis <sup>2</sup>             | 1.2                                     | [1.11, 1.37]   | < .001                       | 0.8   | [.72, .91]     | < .001                       | 0.4   | [.35, .48]     | < .001                       |
| Fair/poor health status                      | 1.1                                     | [.94, 1.21]    | .044                         | 0.7   | [.64, .85]     | .013                         | 0.3   | [.26, .38]     | .942                         |
| Experienced discrimination race/ethnicity    | 1.0                                     | [.57, 1.35]    | .933                         | 0.7   | [.42, .92]     | .897                         | 0.3   | [.10, .47]     | .757                         |
| Experienced discrimination insurance/payment | 1.2                                     | [.99, 1.50]    | .009                         | 0.8   | [.63, .95]     | .047                         | 0.5   | [.31, .59]     | .014                         |
| RSOC=doctor office or clinic                 | 0.9                                     | [.85, 1.02]    | .011                         | 0.6   | [.56, .70]     | .070                         | 0.3   | [.26, .33]     | .033                         |

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|   |     |              |        |     |            |        |     |            |        |
|---|-----|--------------|--------|-----|------------|--------|-----|------------|--------|
| <b>Improved access to...</b>  |     |              |        |     |            |        |     |            |        |
| Primary care  | 1.0 | [.86, 1.03]  | .412   | 0.6 | [.57, .70] | .426   | 0.3 | [.27, .35] | .781   |
| Prescription  | 1.0 | [.90, 1.13]  | .176   | 0.7 | [.61, .80] | .032   | 0.3 | [.26, .35] | .667   |
| MH  | 1.0 | [.85, 1.14]  | .725   | 0.7 | [.58, .82] | .268   | 0.3 | [.22, .34] | .282   |
| SUD treatment   | 1.1 | [.86, 1.41]  | .185   | 0.7 | [.54, .92] | .355   | 0.4 | [.26, .53] | .165   |
| Specialty care  | 1.0 | [.88, 1.16]  | .305   | 0.7 | [.57, .77] | .521   | 0.3 | [.27, .42] | .312   |
| <b>Age<sup>6</sup></b>  |     |              | < .001 |     |            | < .001 |     |            | < .001 |
| 43.42 years   | 0.9 | [.79, .93]   |        | 0.6 | [.53, .64] |        | 0.3 | [.24, .30] |        |
| 31.75 years   | 1.3 | [1.16, 1.43] |        | 0.9 | [.77, .99] |        | 0.4 | [.35, .46] |        |
| 45.25 years   | 0.8 | [.74, .87]   |        | 0.5 | [.50, .60] |        | 0.3 | [.23, .28] |        |
| 54.75 years   | 0.6 | [.51, .64]   |        | 0.4 | [.34, .44] |        | 0.2 | [.15, .21] |        |
| <b>Total outpatient visits<br/>(including primary care)<sup>2,6</sup></b> |     |              | < .001 |     |            | < .001 |     |            | .236   |
| 5.95  | 0.9 | [.84, 1.00]  |        | 0.6 | [.54, .65] |        | 0.3 | [.28, .35] |        |
| 2   | 0.8 | [.72, .89]   |        | 0.5 | [.45, .56] |        | 0.3 | [.25, .35] |        |
| 5   | 0.9 | [.81, .97]   |        | 0.6 | [.52, .63] |        | 0.3 | [.27, .35] |        |
| 8   | 1.0 | [.91, 1.07]  |        | 0.6 | [.59, .71] |        | 0.3 | [.28, .35] |        |
| <b>MHSA visits<sup>2,7</sup></b>  |     |              | .083   |     |            | .142   |     |            | .269   |
| 0   | 1.0 | [.88, 1.05]  |        | 0.6 | [.58, .71] |        | 0.3 | [.28, .35] |        |
| 2   | 1.0 | [.88, 1.05]  |        | 0.6 | [.58, .72] |        | 0.3 | [.28, .35] |        |
| 4   | 1.0 | [.89, 1.06]  |        | 0.6 | [.58, .72] |        | 0.3 | [.28, .35] |        |
| 6   | 1.0 | [.89, 1.06]  |        | 0.7 | [.58, .72] |        | 0.3 | [.28, .35] |        |
| <b>Community factors</b>  |     |              |        |     |            |        |     |            |        |
| <b>% uninsured<sup>3,6</sup></b>  |     |              | .742   |     |            | .814   |     |            | .827   |
| 13.1  | 1.0 | [.89, 1.06]  |        | 0.7 | [.58, .72] |        | 0.3 | [.28, .35] |        |
| 10.3  | 1.0 | [.85, 1.07]  |        | 0.6 | [.56, .73] |        | 0.3 | [.27, .36] |        |
| 12.8  | 1.0 | [.88, 1.05]  |        | 0.6 | [.58, .72] |        | 0.3 | [.28, .35] |        |
| 15.3  | 1.0 | [.88, 1.07]  |        | 0.7 | [.58, .74] |        | 0.3 | [.28, .35] |        |
| <b>% college educated<sup>3,6</sup></b>                                   |     |              | .056   |     |            | .132   |     |            | .124   |
| 21.4  | 1.0 | [.88, 1.04]  |        | 0.6 | [.58, .71] |        | 0.3 | [.28, .34] |        |
| 12.5  | 1.0 | [.93, 1.14]  |        | 0.7 | [.60, .78] |        | 0.3 | [.29, .38] |        |
| 18.4  | 1.0 | [1.00, 1.07] |        | 0.7 | [.59, .73] |        | 0.3 | [.28, .35] |        |
| 26.1  | 0.9 | [.83, 1.02]  |        | 0.6 | [.54, .70] |        | 0.3 | [.26, .34] |        |

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|                              |     |             |      |     |            |      |     |            |      |
|------------------------------|-----|-------------|------|-----|------------|------|-----|------------|------|
| Ratio of PCP <sup>4, 6</sup> |     |             | .339 |     |            | .987 |     |            | .069 |
| 1,643.02                     | 1.0 | [.89, 1.06] |      | 0.7 | [.58, .72] |      | 0.3 | [.28, .35] |      |
| 1,123                        | 1.0 | [.86, 1.05] |      | 0.7 | [.57, .73] |      | 0.3 | [.26, .33] |      |
| 1,528                        | 1.0 | [.88, 1.06] |      | 0.7 | [.58, .72] |      | 0.3 | [.28, .35] |      |
| 1,874                        | 1.0 | [.90, 1.07] |      | 0.7 | [.58, .72] |      | 0.3 | [.29, .36] |      |

Abbreviations: MHSA mental health/substance abuse diagnosis; RSOC regular source of care; SUD substance use disorder

Multiple linear regression coefficients and 95% confidence intervals

<sup>1</sup> Count of ER visits (total and by complexity) based on claims for emergency department services. See Appendix B for full definition.

<sup>2</sup> Variable is based on Data Warehouse/claims data. See Appendix B.

<sup>3</sup> Community factor is obtained from US Census data/ACS, and is grouped at the ZIP code level. See Appendix B.

<sup>4</sup> Community factor is from Robert Woods Johnson, and grouped at the county level. See Appendix B.

<sup>5</sup> p-values reported are from poisson regression

<sup>6</sup> Variable is originally continuous, margins are estimated at specific cut shown; in order, mean, the 25<sup>th</sup> percentile, the 50<sup>th</sup> percentile, and the 75<sup>th</sup> percentile

<sup>7</sup> Variable is originally continuous, margins are estimated at specific cut shown

<sup>8</sup> The total percent may not add up to 100% do to rounding

## Section 6: Impact of HMP premium contributions on cost-conscious behaviors

Table 6.1. Enrollee characteristics, by Federal Poverty Level

| Respondent Characteristic <sup>1</sup>                         | Federal poverty level<br>0-35% |              | Federal poverty<br>level<br>36-99% |              | Federal poverty level<br>≥ 100% |              | Total |              | p-value <sup>2</sup> |
|--|--------------------------------|--------------|------------------------------------|--------------|---------------------------------|--------------|-------|--------------|----------------------|
|  | Col%                           | 95% CI       | Col%                               | 95% CI       | Col%                            | 95% CI       | Col%  | 95% CI       |                      |
| <b>Age</b>   |                                |              |                                    |              |                                 |              |       |              | .035                 |
| 19-34 (n=1,303)  | 38.1                           | [35.0, 41.3] | 40.5                               | [37.4, 43.7] | 44.0                            | [40.4, 47.6] | 40.0  | [38.0, 42.0] |                      |
| 35-50 (n=1,301)  | 36.1                           | [33.1, 39.1] | 33.6                               | [30.7, 36.6] | 29.2                            | [26.1, 32.5] | 34.0  | [32.1, 35.9] |                      |
| 51-64 (n=1,486)  | 25.9                           | [23.5, 28.3] | 25.9                               | [23.5, 28.5] | 26.8                            | [24.1, 29.7] | 26.0  | [24.5, 27.6] |                      |
| <b>Gender</b>  |                                |              |                                    |              |                                 |              |       |              | < .001               |
| Male (n=1,681)   | 57.2                           | [54.1, 60.2] | 39.1                               | [36.0, 42.3] | 39.0                            | [35.5, 42.6] | 48.4  | [46.5, 50.4] |                      |
| Female (n=2,409)   | 42.8                           | [39.8, 45.9] | 60.9                               | [57.7, 64.0] | 61.0                            | [57.4, 64.5] | 51.6  | [49.6, 53.5] |                      |
| <b>Race/ethnicity</b>  |                                |              |                                    |              |                                 |              |       |              | < .001               |
| White, non-Hispanic (n=2,714)                                  | 54.4                           | [51.4, 57.4] | 62.9                               | [59.9, 65.9] | 66.7                            | [63.4, 69.9] | 59.3  | [57.3, 61.1] |                      |
| Black, non-Hispanic (n=800)                                    | 32.6                           | [29.7, 35.6] | 18.2                               | [15.8, 21.0] | 19.3                            | [16.7, 22.1] | 25.9  | [24.1, 27.7] |                      |
| Hispanic/Latino (n=78)   | 1.9                            | [1.2, 2.9]   | 2.4                                | [1.6, 3.5]   | 2.4                             | [1.4, 4.0]   | 2.1   | [1.6, 2.8]   |                      |
| Other (n=448)  | 11.2                           | [9.3, 13.3]  | 16.4                               | [14.1, 19.1] | 11.7                            | [9.5, 14.3]  | 12.8  | [11.5, 14.2] |                      |
| <b>Region</b>  |                                |              |                                    |              |                                 |              |       |              | < .001               |
| UP/NW/NE (n=746)   | 6.7                            | [6.2, 7.2]   | 10.9                               | [10.1, 11.7] | 12.3                            | [11.5, 13.2] | 9.0   | [8.6, 9.4]   |                      |
| W/E Central/E (n=1,265)  | 26.2                           | [25.1, 27.5] | 30.5                               | [29.1, 31.9] | 32.1                            | [30.4, 33.8] | 28.6  | [27.8, 29.4] |                      |
| S Central/SW/SE (n=837)  | 17.4                           | [16.2, 18.7] | 19.2                               | [18.2, 20.3] | 20.6                            | [19.2, 22.1] | 18.6  | [17.8, 19.3] |                      |
| Detroit Metro (n=1,242)  | 49.6                           | [48.1, 51.2] | 39.4                               | [37.6, 41.2] | 35.0                            | [33.3, 36.7] | 43.8  | [42.8, 44.9] |                      |
| <b>Married or partnered</b>                                    |                                |              |                                    |              |                                 |              |       |              | < .001               |
| Yes (n=1,193)  | 13.8                           | [11.9, 16.0] | 34.6                               | [31.7, 37.5] | 38.7                            | [35.4, 42.2] | 24.6  | [23.2, 26.2] |                      |
| No (n=2,880)   | 86.2                           | [84.0, 88.1] | 65.4                               | [62.5, 68.3] | 61.3                            | [57.8, 64.6] | 75.4  | [73.8, 76.8] |                      |
| <b>Health status</b>   |                                |              |                                    |              |                                 |              |       |              | < .001               |
| Excellent, very good, or good (n=2,826)                        | 64.1                           | [61.1, 66.9] | 75.7                               | [73.1, 78.2] | 78.6                            | [75.6, 81.3] | 70.2  | [68.5, 72.0] |                      |
| Fair or poor (n=1,255)   | 35.9                           | [33.1, 38.9] | 24.3                               | [21.8, 26.9] | 21.4                            | [18.7, 24.4] | 29.8  | [28.0, 31.5] |                      |
| <b>Any chronic disease</b>                                     |                                |              |                                    |              |                                 |              |       |              | < .001               |
| Yes (n=2,986)  | 72.9                           | [69.8, 75.7] | 66.2                               | [63.1, 69.1] | 63.9                            | [60.4, 67.2] | 69.2  | [67.3, 71.0] |                      |
| No (n=1,104)   | 27.1                           | [24.3, 30.2] | 33.8                               | [30.9, 36.9] | 36.1                            | [32.8, 39.6] | 30.8  | [29.0, 32.7] |                      |
| <b>Any health insurance in 12 months before HMP enrollment</b> |                                |              |                                    |              |                                 |              |       |              | < .001               |
| Yes (n=1,667)  | 35.4                           | [32.5, 38.4] | 44.8                               | [41.7, 48.0] | 48.6                            | [45.0, 52.1] | 40.7  | [38.8, 42.6] |                      |
| No (n=2,374)   | 62.6                           | [59.6, 65.6] | 54.1                               | [50.9, 57.2] | 50.9                            | [47.3, 54.4] | 57.9  | [55.9, 59.8] |                      |

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|  |      |              |      |              |      |              |      |              |  |        |
|--|------|--------------|------|--------------|------|--------------|------|--------------|--|--------|
| <b>Cost-related access barriers in 12 months before HMP enrollment<sup>3</sup></b>     |      |              |      |              |      |              |      |              |  | .666   |
| Yes (n=1,341)  | 32.4 | [29.6, 35.4] | 31.2 | [28.4, 34.2] | 30.6 | [27.5, 33.9] | 31.7 | [29.9, 33.6] |  |        |
| No (n=2,706)   | 67.6 | [64.6, 70.4] | 68.8 | [65.8, 71.6] | 69.4 | [66.1, 72.5] | 68.3 | [66.4, 70.1] |  |        |
| <b>Carefully review MIHA statements<sup>4</sup></b>                                    |      |              |      |              |      |              |      |              |  | .387   |
| Yes (n=2,675)  | 88.7 | [86.2, 90.8] | 89.1 | [86.4, 91.3] | 86.5 | [83.4, 89.1] | 88.3 | [86.8, 89.7] |  |        |
| No (n=330)   | 11.3 | [9.2, 13.8]  | 10.9 | [8.7, 13.6]  | 13.5 | [10.9, 16.6] | 11.7 | [10.3, 13.2] |  |        |
| <b>Find out about service costs<sup>5</sup></b>  |      |              |      |              |      |              |      |              |  | .232   |
| Yes (n=2,912)  | 70.3 | [67.4, 73.0] | 73.5 | [70.7, 76.1] | 72.1 | [68.8, 75.1] | 71.5 | [69.7, 73.3] |  |        |
| No (n=1,164)   | 29.7 | [27.0, 32.6] | 26.5 | [23.9, 29.3] | 27.9 | [24.9, 31.2] | 28.5 | [26.7, 30.3] |  |        |
| <b>Talk with doctor about costs<sup>6</sup></b>  |      |              |      |              |      |              |      |              |  | .736   |
| Yes (n=2,746)  | 67.3 | [64.3, 70.1] | 68.7 | [65.7, 71.6] | 68.4 | [65.0, 71.6] | 67.9 | [66.0, 69.7] |  |        |
| No (n=1,330)   | 32.7 | [29.9, 35.7] | 31.3 | [28.4, 34.3] | 31.6 | [28.4, 35.0] | 32.1 | [30.3, 34.0] |  |        |
| <b>Ask doctor about less costly drug<sup>7</sup></b>                                   |      |              |      |              |      |              |      |              |  | < .001 |
| Yes (n=3,143)  | 71.6 | [68.7, 74.4] | 79.0 | [76.4, 81.4] | 79.3 | [76.2, 82.0] | 75.2 | [73.4, 76.9] |  |        |
| No (n=931)   | 28.4 | [25.6, 31.3] | 21.0 | [18.6, 23.6] | 20.7 | [18.0, 23.8] | 24.8 | [23.1, 26.6] |  |        |
| <b>Check reviews or ratings of quality<sup>8</sup></b>                                 |      |              |      |              |      |              |      |              |  | .058   |
| Yes (n=3,142)  | 76.4 | [73.7, 79.0] | 79.6 | [77.0, 82.0] | 80.4 | [77.6, 82.9] | 78.1 | [76.4, 79.7] |  |        |
| No (n=932)   | 23.6 | [21.0, 26.3] | 20.4 | [18.0, 23.0] | 19.6 | [17.1, 22.4] | 21.9 | [20.3, 23.6] |  |        |
| <b>Fewer medical bill problems in previous 12 months of HMP enrollment<sup>9</sup></b> |      |              |      |              |      |              |      |              |  | .191   |
| Yes (n=1,629)  | 84.4 | [80.9, 87.4] | 88.3 | [84.6, 91.2] | 86.9 | [82.9, 90.1] | 85.9 | [83.7, 87.9] |  |        |
| No (n=240)   | 15.6 | [12.6, 19.1] | 11.7 | [8.8, 15.4]  | 13.1 | [9.9, 17.1]  | 14.1 | [12.1, 16.3] |  |        |
| <b>Payments affordable for HMP<sup>10</sup></b>  |      |              |      |              |      |              |      |              |  | .015   |
| Yes (n=3,679)  | 88.6 | [86.4, 90.5] | 91.1 | [88.9, 92.9] | 85.9 | [83.2, 88.2] | 88.8 | [87.4, 90.0] |  |        |
| No (n=405)   | 11.4 | [9.5, 13.6]  | 8.9  | [7.1, 11.1]  | 14.1 | [11.8, 16.8] | 11.2 | [10.0, 12.6] |  |        |
| <b>Forgone care due to cost in previous 12 months of HMP enrollment<sup>3</sup></b>    |      |              |      |              |      |              |      |              |  | .589   |
| Yes (n=439)  | 11.2 | [9.3, 13.3]  | 11.8 | [9.9, 14.1]  | 10.1 | [8.2, 12.4]  | 11.1 | [10.0, 12.5] |  |        |
| No (n=3,623)   | 88.8 | [86.7, 90.7] | 88.2 | [85.9, 90.1] | 89.9 | [87.6, 91.8] | 88.9 | [87.5, 90.0] |  |        |

Weighted proportions of demographic, health, and HMP-specific variables, by Federal Poverty Level (FPL)

<sup>1</sup>n does not sum to 4,090 for every characteristic due to skip patterns, "don't know" responses, or non-responses for individual items.

<sup>2</sup>Pearson's chi-squared test

<sup>3</sup>Going without health care because 'you were worried about the cost,' 'you did not have health insurance,' 'the doctor or hospital wouldn't accept your health insurance,' or 'your health plan wouldn't pay for the treatment.'

<sup>4</sup>Strongly agree or agree that carefully review MIHA statements.

<sup>5</sup>Very or somewhat likely to find out about the costs of services before receiving them.

<sup>6</sup>Very or somewhat likely to talk with doctors about how much services will cost.

<sup>7</sup>Very or somewhat likely to ask doctors about a less costly prescription drug.

<sup>8</sup>Very or somewhat likely to check quality reviews or ratings before getting care.

<sup>9</sup>Among individuals with problems paying medical bills in the 12 months before enrolling in HMP.

<sup>10</sup>Strongly agree or agree that payments for HMP are affordable.

**Table 6.2. Multivariate associations: Engagement in cost-conscious behaviors among subgroups of HMP enrollees**

|   | Dependent variables <sup>1</sup>                        |              |   |              |   |              |  |              |  |              |
|---|---|--------------|---|--------------|---|--------------|--|--------------|--|--------------|
|   | Carefully review MIHA statements <sup>3</sup> (n=2,924) |              | Find out about service costs <sup>4</sup> (n=3,979) |              | Talk with doctor about costs <sup>5</sup> (n=3,978) |              | Ask doctor about less costly drug <sup>6</sup> (n=3,978) |              | Check reviews or ratings of quality <sup>7</sup> (n=3,977) |              |
| Subgroup <sup>2</sup>                     | %   | 95% CI       | %   | 95% CI       | %   | 95% CI       | %  | 95% CI       | %  | 95% CI       |
| <b>Income, % of federal poverty level</b> |   |              |   |              |   |              |  |              |  |              |
| 0-35%                                     | 89.3  | [87.0, 91.5] | 71.6  | [68.8, 74.4] | 68.1  | [65.2, 71.0] | 73.8*  | [71.0, 76.6] | 77.8   | [75.2, 80.4] |
| 36-99% [ref]                              | 88.7  | [86.0, 91.3] | 72.9  | [70.0, 75.8] | 68.6  | [65.5, 71.6] | 78.2   | [75.4, 80.9] | 79.0   | [76.3, 81.6] |
| ≥ 100%                                    | 86.0  | [83.0, 89.0] | 70.4  | [67.0, 73.8] | 67.8  | [64.3, 71.3] | 77.0   | [73.7, 80.2] | 78.4   | [75.4, 81.4] |
| <b>Gender</b>                             |   |              |   |              |   |              |  |              |  |              |
| Male [ref]                                | 87.4  | [85.1, 89.8] | 69.7  | [67.0, 72.4] | 67.2  | [64.3, 70.1] | 71.5   | [68.7, 74.2] | 75.0   | [72.4, 77.6] |
| Female                                    | 89.2  | [87.3, 91.1] | 73.6*   | [71.3, 76.0] | 69.1  | [66.7, 71.5] | 79.6***  | [77.3, 81.8] | 81.3***  | [79.1, 83.4] |
| <b>Age</b>                                |   |              |   |              |   |              |  |              |  |              |
| 19-34 [ref]                               | 86.2  | [83.5, 88.9] | 76.9  | [74.0, 79.8] | 72.0  | [68.9, 75.1] | 77.6   | [74.6, 80.6] | 82.3   | [79.5, 85.0] |
| 35-50                                     | 88.2  | [85.5, 90.9] | 67.0***   | [63.5, 70.2] | 64.8**  | [61.5, 68.2] | 72.7*  | [69.5, 75.8] | 75.7**   | [72.7, 78.8] |
| 51-64                                     | 91.4**  | [89.3, 93.5] | 70.0**  | [67.0, 73.0] | 66.6*   | [63.5, 69.7] | 76.2   | [73.4, 79.0] | 75.3**   | [72.6, 78.1] |
| <b>Race/ethnicity</b>                     |   |              |   |              |   |              |  |              |  |              |
| White, non-Hispanic [ref]                 | 89.1  | [87.3, 90.9] | 72.7  | [70.2, 75.2] | 68.8  | [66.2, 71.3] | 78.9   | [76.5, 81.2] | 78.4   | [76.1, 80.7] |
| Black, non-Hispanic                       | 88.4  | [85.0, 91.8] | 71.8  | [67.9, 75.7] | 69.3  | [65.2, 73.4] | 73.3*  | [69.4, 77.2] | 81.3   | [77.9, 84.7] |
| Hispanic/Latino                           | 83.9  | [73.3, 94.5] | 51.3**  | [37.0, 65.6] | 51.9*   | [37.8, 66.0] | 59.9**   | [46.0, 73.8] | 64.1*  | [50.1, 78.1] |
| Other                                     | 85.5  | [80.3, 90.6] | 70.2  | [65.0, 75.4] | 65.6  | [59.9, 71.2] | 68.0***  | [62.7, 73.3] | 72.8*  | [67.3, 78.2] |
| <b>Marital status</b>                     |   |              |   |              |   |              |  |              |  |              |
| Not married or partnered [ref]            | 88.1  | [86.3, 89.9] | 71.6  | [69.5, 73.6] | 67.9  | [65.8, 70.1] | 74.7   | [72.7, 76.7] | 77.1   | [75.1, 79.0] |
| Married or partnered                      | 89.4  | [86.8, 92.1] | 72.2  | [68.7, 75.7] | 68.9  | [65.3, 72.6] | 78.3   | [75.0, 81.7] | 81.6   | [78.8, 84.4] |
| <b>Region</b>                             |   |              |   |              |   |              |  |              |  |              |
| UP/NW/NE [ref]                            | 86.7  | [82.9, 90.6] | 68.0  | [63.8, 72.2] | 66.8  | [62.6, 71.0] | 76.2   | [72.2, 80.2] | 70.3   | [66.2, 74.5] |
| W/E Central/E                             | 90.2  | [87.8, 92.5] | 72.2  | [69.2, 75.2] | 69.6  | [66.5, 72.6] | 76.7   | [73.8, 79.6] | 79.8***  | [77.2, 82.4] |
| S Central/SW/SE                           | 87.5  | [84.4, 90.7] | 71.5  | [67.7, 75.3] | 67.8  | [64.1, 71.5] | 78.0   | [74.7, 81.4] | 79.0**   | [75.9, 82.1] |
| Detroit Metro                             | 88.0  | [85.3, 90.7] | 72.3  | [69.1, 75.5] | 67.7  | [64.3, 71.2] | 73.8   | [70.6, 77.0] | 78.5**   | [75.4, 81.6] |

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|  |      |              |       |              |      |              |      |              |       |              |
|--|------|--------------|-------|--------------|------|--------------|------|--------------|-------|--------------|
| <b>Health status</b>   |      |              |       |              |      |              |      |              |       |              |
| Excellent, very good, or good [ref]  | 89.3 | [87.5, 91.0] | 72.5  | [70.3, 74.7] | 68.4 | [66.1, 70.7] | 76.6 | [74.4, 78.8] | 79.1  | [77.0, 81.2] |
| Fair or poor   | 86.1 | [82.9, 89.4] | 69.9  | [66.6, 73.2] | 67.7 | [64.3, 71.0] | 73.1 | [69.9, 76.3] | 76.3  | [73.3, 79.4] |
| <b>Any chronic disease</b>   |      |              |       |              |      |              |      |              |       |              |
| No [ref]   | 86.9 | [83.4, 90.4] | 74.2  | [70.8, 77.6] | 70.7 | [67.2, 74.3] | 75.1 | [71.6, 78.6] | 81.6  | [78.5, 84.7] |
| Yes  | 89.0 | [87.3, 90.7] | 70.7  | [68.4, 72.9] | 67.1 | [64.8, 69.4] | 75.8 | [73.6, 77.9] | 76.8* | [74.7, 78.9] |
| <b>Any health insurance in 12 months before HMP enrollment</b>                 |      |              |       |              |      |              |      |              |       |              |
| No [ref]   | 88.9 | [87.0, 90.8] | 70.8  | [68.5, 73.2] | 69.1 | [66.8, 71.5] | 75.5 | [73.2, 77.8] | 76.7  | [74.5, 78.9] |
| Yes  | 87.7 | [85.3, 90.1] | 73.0  | [70.2, 75.8] | 66.7 | [63.7, 69.8] | 75.7 | [72.9, 78.5] | 80.5* | [78.0, 83.1] |
| <b>Forgone care due to cost in 12 months before HMP enrollment<sup>8</sup></b> |      |              |       |              |      |              |      |              |       |              |
| No [ref]   | 89.2 | [87.5, 90.9] | 70.1  | [67.9, 72.4] | 67.9 | [65.6, 70.2] | 74.5 | [72.4, 76.7] | 77.5  | [75.4, 79.5] |
| Yes  | 87.0 | [83.8, 89.8] | 75.0* | [72.0, 78.0] | 68.8 | [65.4, 72.1] | 77.8 | [74.7, 80.9] | 79.7  | [76.9, 82.6] |

\* denotes  $P < 0.05$ , \*\* denotes  $P < 0.01$ , and \*\*\* denotes  $P < 0.001$ .

<sup>1</sup>The columns for each outcome depict marginal estimates from a logistic regression model in which the dependent variable is the respective outcome and the independent variables are all of the characteristics in the table rows.

<sup>2</sup>Subgroups denoted by [ref] are the reference for statistical tests.

<sup>3</sup>Strongly agree or agree that carefully review MIHA statements.

<sup>4</sup>Very or somewhat likely to find out about the costs of services before receiving them.

<sup>5</sup>Very or somewhat likely to talk with doctors about how much services will cost.

<sup>6</sup>Very or somewhat likely to ask doctors about a less costly prescription drug.

<sup>7</sup>Very or somewhat likely to check quality reviews or ratings before getting care.

<sup>8</sup>Going without health care because 'you were worried about the cost,' 'you did not have health insurance,' 'the doctor or hospital wouldn't accept your health insurance,' or 'your health plan wouldn't pay for the treatment.'

**Table 6.3. Multivariate associations: Health care affordability among subgroups of HMP enrollees**

| Subgroup <sup>2</sup>                     | Dependent variables <sup>1</sup>                      |               |   |              |  |              |
|---|---|---------------|---|--------------|--|--------------|
|   | Fewer medical bill problems <sup>3</sup><br>(n=1,816) |               | Payments affordable <sup>4</sup><br>(n=3,982) |              | Forgone care due to cost <sup>5</sup><br>(n=3,967) |              |
|   | %   | 95% CI        | %   | 95% CI       | %  | 95% CI       |
| <b>Income, % of federal poverty level</b> |   |               |   |              |  |              |
| 0-35%                                     | 84.8  | [81.7, 88.0]  | 89.2  | [87.1, 91.2] | 10.9   | [9.0, 12.9]  |
| 36-99% [ref]                              | 88.3  | [84.7, 91.9]  | 90.8  | [88.7, 92.3] | 12.0   | [9.7, 14.2]  |
| ≥ 100%                                    | 85.3  | [81.1, 89.5]  | 84.9**  | [82.1, 87.7] | 10.4   | [8.2, 12.7]  |
| <b>Gender</b>                             |   |               |   |              |  |              |
| Male [ref]                                | 84.4  | [81.0, 87.8]  | 89.1  | [87.0, 91.1] | 10.2   | [8.3, 12.2]  |
| Female                                    | 87.0  | [84.5, 89.6]  | 88.5  | [86.8, 90.3] | 11.9   | [10.2, 13.6] |
| <b>Age</b>                                |   |               |   |              |  |              |
| 19-34 [ref]                               | 83.4  | [79.2, 87.6]  | 88.3  | [86.0, 90.6] | 13.7   | [11.2, 16.2] |
| 35-50                                     | 85.3  | [82.0, 88.6]  | 87.9  | [85.5, 90.3] | 9.9*   | [8.1, 11.8]  |
| 51-64                                     | 89.4*   | [86.6, 92.3]  | 90.8  | [88.8, 92.8] | 9.2**  | [7.3, 11.1]  |
| <b>Race/ethnicity</b>                     |   |               |   |              |  |              |
| White, non-Hispanic [ref]                 | 87.4  | [84.7, 90.1]  | 91.7  | [90.3, 93.2] | 10.3   | [8.8, 11.8]  |
| Black, non-Hispanic                       | 84.8  | [80.6, 89.1]  | 84.0***                                       | [80.7, 87.3] | 10.5   | [7.7, 13.3]  |
| Hispanic/Latino                           | 91.5  | [79.1, 100.0] | 86.8  | [87.3, 95.3] | 18.4   | [7.1, 29.7]  |
| Other                                     | 79.7  | [71.0, 88.4]  | 85.3**  | [80.8, 89.7] | 14.9*  | [10.5, 19.3] |
| <b>Marital status</b>                     |   |               |   |              |  |              |
| Not married or partnered [ref]            | 85.7  | [83.3, 88.1]  | 88.9  | [87.4, 90.4] | 11.1   | [9.7, 12.6]  |
| Married or partnered                      | 86.2  | [81.7, 90.6]  | 88.6  | [86.0, 91.3] | 11.1   | [8.6, 13.6]  |
| <b>Region</b>                             |   |               |   |              |  |              |
| UP/NW/NE [ref]                            | 82.1  | [76.8, 87.3]  | 90.9  | [87.9, 94.0] | 8.3  | [6.0, 10.6]  |
| W/E Central/E                             | 87.8*   | [84.3, 91.2]  | 88.6  | [86.3, 90.9] | 10.8   | [8.7, 12.9]  |
| S Central/SW/SE                           | 86.4  | [82.2, 90.7]  | 88.9  | [86.3, 91.4] | 11.3   | [8.9, 13.8]  |
| Detroit Metro                             | 85.1  | [81.4, 88.8]  | 88.6  | [86.4, 90.8] | 11.9*  | [9.5, 14.2]  |
| <b>Health status</b>                      |   |               |   |              |  |              |
| Excellent, very good, or good [ref]       | 87.4  | [84.8, 90.0]  | 90.0  | [88.4, 91.6] | 10.2   | [8.7, 11.7]  |
| Fair or poor                              | 83.2  | [79.5, 86.8]  | 85.8**  | [83.0, 88.6] | 13.1*  | [10.6, 15.6] |

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|  |        |              |      |              |         |              |  |
|--|--------|--------------|------|--------------|---------|--------------|--|
| <b>Any chronic disease</b>   |        |              |      |              |         |              |  |
| No [ref]   | 85.7   | [80.7, 90.7] | 88.4 | [85.7, 91.0] | 7.7     | [5.6, 9.8]   |  |
| Yes  | 85.8   | [83.4, 88.3] | 89.0 | [87.4, 90.6] | 12.5**  | [10.9, 14.2] |  |
| <b>Any health insurance in 12 months before HMP enrollment</b>                 |        |              |      |              |         |              |  |
| No [ref]   | 86.9   | [84.5, 89.4] | 89.8 | [88.3, 91.4] | 9.7     | [8.2, 11.2]  |  |
| Yes  | 83.3   | [79.4, 87.3] | 87.3 | [84.9, 89.6] | 13.4**  | [11.2, 15.6] |  |
| <b>Forgone care due to cost in 12 months before HMP enrollment<sup>6</sup></b> |        |              |      |              |         |              |  |
| No [ref]   | 83.2   | [80.2, 86.2] | 89.6 | [88.1, 91.0] | 8.1     | [6.8, 9.5]   |  |
| Yes  | 88.8** | [85.9, 91.7] | 87.0 | [84.2, 89.8] | 17.6*** | [14.8, 20.5] |  |

\* denotes  $P < 0.05$ , \*\* denotes  $P < 0.01$ , and \*\*\* denotes  $P < 0.001$ .

<sup>1</sup>The columns for each outcome depict marginal estimates from a logistic regression model in which the dependent variable is the respective outcome and the independent variables are all of the characteristics in the table rows.

<sup>2</sup>Subgroups denoted by [ref] are the reference for statistical tests.

<sup>3</sup>Among individuals with problems paying medical bills in the 12 months before enrolling in HMP.

<sup>4</sup>Strongly agree or agree that payments for HMP are affordable.

<sup>5</sup>Going without health care in the previous 12 months of HMP enrollment because 'you were worried about the cost,' 'you did not have health insurance,' 'the doctor or hospital wouldn't accept your health insurance,' or 'your health plan wouldn't pay for the treatment'.

<sup>6</sup>Going without health care in the 12 months before HMP enrollment because 'you were worried about the cost,' 'you did not have health insurance,' 'the doctor or hospital wouldn't accept your health insurance,' or 'your health plan wouldn't pay for the treatment'.

## Section 7: Diagnosis and care of self-reported chronic health conditions among HMP enrollees

Table 7.1. Enrollee characteristics, by self-reported chronic health condition status

|  | Enrollees without a chronic condition (n=1,151) |              | Enrollees with any chronic condition <sup>1</sup> (n=2,939) |              | p-value <sup>2</sup> |
|--|---|--------------|---|--------------|----------------------|
|  | Col %   | 95% CI       | Col %   | 95% CI       |                      |
| <b>Age</b>   |   |              |   |              | < .001               |
| 19-34  | 55.9  | [52.3, 59.6] | 32.5  | [30.3, 34.8] |                      |
| 35-50  | 28.2  | [25.0, 31.5] | 36.7  | [34.5, 39.0] |                      |
| 51-64  | 15.9  | [13.8, 18.3] | 30.8  | [28.9, 32.8] |                      |
| <b>Gender</b>                                      |   |              |   |              | .015                 |
| Male   | 52.1  | [48.5, 55.8] | 46.7  | [44.4, 49.0] |                      |
| Female   | 47.9  | [44.2, 51.5] | 53.3  | [51.0, 55.6] |                      |
| <b>Race</b>  |   |              |   |              | < .001               |
| White  | 54.2  | [50.4, 57.9] | 64.4  | [62.2, 66.6] |                      |
| Black or African American                          | 28.8  | [25.3, 32.5] | 24.8  | [22.8, 26.9] |                      |
| Other  | 13.1  | [10.8, 15.8] | 6.8   | [5.7, 8.0]   |                      |
| More than one                                      | 4.0   | [2.8, 5.6]   | 4.0   | [3.1, 5.1]   |                      |
| <b>Income, % of federal poverty level</b>          |   |              |   |              | < .001               |
| 0-35%  | 45.9  | [42.6, 49.4] | 54.6  | [53.1, 56.1] |                      |
| 36-99%   | 31.0  | [28.3, 33.8] | 27.2  | [25.9, 28.5] |                      |
| ≥ 100%   | 23.1  | [20.8, 25.4] | 18.2  | [17.2, 19.3] |                      |
| <b>Number of self-reported chronic conditions</b>  |   |              |   |              | < .001               |
| 1  |   |              | 41.6  | [39.3, 43.9] |                      |
| 2  |   |              | 30.2  | [28.1, 32.4] |                      |
| 3  |   |              | 16.7  | [15.1, 18.5] |                      |
| ≥4   |   |              | 11.5  | [10.2, 12.9] |                      |
|  |   | N/A          |   |              |                      |
| <b>Major functional limitation</b>                 |   |              |   |              | < .001               |
| None   | 94.2  | [91.7, 95.9] | 75.6  | [73.6, 77.5] |                      |
| Functional impairment (≥14 of past 30 days)        | 5.8   | [4.1, 8.3]   | 24.4  | [22.5, 26.4] |                      |
| <b>Health status</b>                               |   |              |   |              |                      |
| Excellent  | 20.2  | [17.3, 23.3] | 4.5   | [3.7, 5.6]   |                      |
| Very good  | 42.5  | [38.8, 46.2] | 19.5  | [17.6, 21.5] |                      |
| Good   | 27.0  | [23.9, 30.3] | 37.1  | [34.9, 39.4] |                      |
| Fair   | 9.2   | [7.3, 11.7]  | 28.3  | [26.3, 30.4] |                      |
| Poor   | 1.1   | [0.6, 2.1]   | 10.5  | [9.2, 12.0]  |                      |
| <b>Physical health better since HMP enrollment</b> |   |              |   |              | < .001               |
| Gotten better                                      | 39.5  | [35.9, 43.2] | 52.1  | [49.7, 54.4] |                      |
| Stayed the same                                    | 59.2  | [55.4, 62.8] | 40.4  | [38.2, 42.7] |                      |
| Gotten worse                                       | 1.4   | [0.8, 2.4]   | 7.5   | [6.5, 8.7]   |                      |
| <b>Mental health better since HMP enrollment</b>   |   |              |   |              | < .001               |
| Gotten better                                      | 29.2  | [25.8, 32.8] | 42.6  | [40.3, 44.9] |                      |
| Stayed the same                                    | 69.6  | [66.0, 72.9] | 51.2  | [48.9, 53.5] |                      |
| Gotten worse                                       | 1.3   | [0.7, 2.2]   | 6.2   | [5.1, 7.4]   |                      |

Continued on next page

Continued from previous page

|   | Mean | 95% CI     | SE  | Mean | 95% CI     | SE  |  |
|---|------|------------|-----|------|------------|-----|--|
| <b># of last 30 days physical health not good</b> | 3.0  | [2.4, 3.5] | 0.3 | 8.6  | [8.1, 9.1] | 0.3 |  |
| <b># of last 30 days mental health not good</b>   | 2.1  | [1.6, 2.6] | 0.3 | 7.8  | [7.3, 8.3] | 0.3 |  |

Weighted proportions of demographic characteristics by self-reported chronic conditions

<sup>1</sup> Chronic conditions are self-reported, and include hypertension, mood disorder, asthma, heart disease, chronic obstructive pulmonary disease (COPD), diabetes, and chronic health conditions among those listed by respondents as “other” diagnoses; 68.1% of the total population reported a chronic condition.

<sup>2</sup> Pearson's chi-squared test

**Table 7.2. Bivariate associations between self-reported chronic health condition status and pre-HMP insurance status and access to care before and after HMP enrollment**

|   | Respondents without a chronic condition |              | Respondents with any chronic condition <sup>1</sup> |              | <i>p</i> -value <sup>2</sup> |
|---|---|--------------|---|--------------|------------------------------|
|   | Column %                                | 95% CI       | Column %  | 95% CI       |                              |
| <b>Insurance duration prior to HMP</b>  |   |              |   |              | .24                          |
| Entire year   | 30.0                                    | [26.8, 33.5] | 31.3  | [29.2, 33.6] |                              |
| Part of year  | 11.0                                    | [8.8, 13.7]  | 8.8   | [7.6, 10.2]  |                              |
| None of year  | 59.0                                    | [55.2, 62.6] | 59.6  | [57.5, 62.1] |                              |
| <b>Years since last PCP visit prior to HMP</b>  |   |              |   |              | .02                          |
| Less than 1 year  | 36.7                                    | [33.1, 40.4] | 42.6  | [40.4, 45.0] |                              |
| 1-5 years   | 42.1                                    | [38.4, 45.8] | 36.6  | [34.5, 38.9] |                              |
| More than 5 years   | 21.3                                    | [18.5, 24.3] | 20.7  | [18.8, 22.8] |                              |
| <b>Saw PCP in past 12 months</b>  | 75.5                                    | [71.8, 78.8] | 89.8  | [88.0, 91.3] | < .001                       |
| <b>Problems paying medical bills in 12 months prior to HMP enrollment</b>                                   | 29.7                                    | [26.5, 33.2] | 51.9  | [49.6, 54.2] | < .001                       |
| <b>Ability to pay medical bills improved after HMP</b>  | 85.4                                    | [79.8, 89.6] | 87.0  | [84.6, 89.1] | .048                         |
| <b>Access to mental health care since HMP enrollment</b>  |   |              |   |              | < .001                       |
| Improved  | 17.4                                    | [14.8, 20.4] | 32.2  | [30.0, 34.4] |                              |
| Same  | 25.8                                    | [22.5, 29.5] | 22.1  | [20.2, 24.1] |                              |
| Worse   | 0.4                                     | [0.2, 1.0]   | 3.4   | [2.7, 4.4]   |                              |
| Don't know  | 56.3                                    | [52.5, 60.0] | 42.3  | [40.1, 44.6] |                              |
| <b>Access to prescriptions since HMP enrollment</b>   |   |              |   |              | < .001                       |
| Improved  | 48.0                                    | [44.3, 51.7] | 64.6  | [62.3, 66.8] |                              |
| Same  | 28.8                                    | [25.4, 32.5] | 24.6  | [22.6, 26.6] |                              |
| Worse   | 1.5                                     | [0.9, 2.6]   | 3.9   | [3.0, 4.9]   |                              |
| Don't know  | 21.7                                    | [18.9, 24.8] | 7.0   | [5.9, 8.3]   |                              |
| <b>Access to specialty care since HMP enrollment</b>  |   |              |   |              | < .001                       |
| Improved  | 33.0                                    | [29.8, 36.5] | 49.7  | [47.4, 52.0] |                              |
| Same  | 24.9                                    | [21.8, 28.3] | 21.5  | [19.7, 23.4] |                              |
| Worse   | 3.1                                     | [2.1, 4.5]   | 4.8   | [3.9, 5.8]   |                              |
| Don't know  | 39.0                                    | [35.3, 42.7] | 24.0  | [22.0, 26.1] |                              |
| <b>Had regular source of medical care in 12 months prior to HMP</b>   | 66.6                                    | [63.0, 70.0] | 77.3  | [75.3, 79.2] | < .001                       |
| <b>Had regular source of medical care in 12 months since HMP enrollment</b>                                 | 85.8                                    | [82.6, 88.4] | 95.2  | [93.8, 96.3] | < .001                       |
| <b>Regular source of care in 12 months prior to HMP enrollment is doctor's office or clinic<sup>3</sup></b> | 66.3                                    | -            | 64.7  | -            | .30                          |
| <b>Regular source of care in 12 months after HMP enrollment is doctor's office or clinic<sup>3</sup></b>    | 88.7                                    | -            | 93.1  | -            | .005                         |

Weighted proportions of pre-HMP insurance status and access to care by self-reported chronic conditions

<sup>1</sup> Chronic conditions are self-reported, and include hypertension, mood disorder, asthma, heart disease, chronic obstructive pulmonary disease (COPD), diabetes, and chronic health conditions among those listed by respondents as "other" diagnoses.

<sup>2</sup> Pearson's chi-squared test

<sup>3</sup> Only asked of those reporting a regular source of medical care during that time period

**Table 7.3a. Bivariate relationship between new chronic condition diagnosis since HMP enrollment, by pre-HMP insurance status, among enrollees with self-reported chronic conditions<sup>1</sup>**

|                                     | Insurance duration in the year prior to HMP |              |                  |             |                  |              |         |
|-------------------------------------|---|--------------|------------------|-------------|------------------|--------------|---------|
|                                     | All year                                    |              | Some of the year |             | None of the year |              | Total % |
|                                     | Row %                                       | 95% CI       | Row %            | 95% CI      | Row %            | 95% CI       |         |
| <b>Any new diagnoses since HMP</b>  |   |              |                  |             |                  |              |         |
| No new diagnoses (n=1,653)          | 34.9  | [32.0, 37.9] | 9.4              | [7.8, 11.4] | 55.7             | [52.5, 58.7] | 100.0   |
| One or more new diagnoses (n=1,211) | 26.5  | [23.4, 29.8] | 8.0              | [6.3, 10.0] | 65.5             | [62.0, 68.8] | 100.0   |

Weighted proportions with Pearson chi-squared analysis. P < 0.001

<sup>1</sup>Chronic conditions are self-reported, and include hypertension, mood disorder, asthma, heart disease, chronic obstructive pulmonary disease (COPD), diabetes, and chronic health conditions among those listed by respondents as “other” diagnoses

**Table 7.3b. Bivariate relationship between new chronic condition diagnosis since HMP enrollment, by time since last PCP visit prior to HMP enrollment, among enrollees with chronic conditions<sup>1</sup>**

|                                     | Number of years since last PCP visit |              |           |              |                   |              |         |
|-------------------------------------|--------------------------------------|--------------|-----------|--------------|-------------------|--------------|---------|
|                                     | Less than 1 year                     |              | 1-5 years |              | More than 5 years |              | Total % |
|                                     | Row %                                | 95% CI       | Row %     | 95% CI       | Row %             | 95% CI       |         |
| <b>Any new diagnoses since HMP</b>  |                                      |              |           |              |                   |              |         |
| No new diagnoses (n=1,674)          | 47.9                                 | [44.8, 51.1] | 35.4      | [32.5, 38.3] | 16.7              | [14.4, 19.3] | 100.0   |
| One or more new diagnoses (n=1,232) | 35.5                                 | [32.2, 38.9] | 38.4      | [35.1, 41.8] | 26.1              | [23.1, 29.4] | 100.0   |

Weighted proportions with Pearson's chi-squared test  $p < 0.001$

<sup>1</sup> Chronic conditions are self-reported, and include hypertension, mood disorder, asthma, heart disease, chronic obstructive pulmonary disease (COPD), diabetes, and chronic health conditions among those listed by respondents as "other" diagnoses.



**Table 7.4. Multivariate association between self-reported chronic health conditions and improved physical and mental health after HMP enrollment, among all respondents**

| Independent variables  | Physical health improved since HMP enrollment |               | Mental health improved since HMP enrollment |               |
|--|---|---------------|---|---------------|
|  | aOR   | 95% CI        | aOR   | 95% CI        |
| <b>Any chronic physical or mental health condition<sup>1</sup></b> | 1.70  | [1.40, 2.07]* | 1.75  | [1.43, 2.15]* |
| <b>Insurance duration prior to HMP</b>                             |   |               |   |               |
| Entire year  | Ref   |               | Ref   |               |
| Part of year   | 2.06  | [1.51, 2.81]* | 1.32  | [0.96, 1.83]  |
| None of year   | 2.34  | [1.94, 2.82]* | 1.66  | [1.36, 2.02]* |
| <b>Current smoker</b>  | 0.76  | [0.64, 0.91]* | 0.97  | [0.81, 1.16]  |
| <b>Age</b>   |   |               |   |               |
| 19-34  | Ref   |               | Ref   |               |
| 35-50  | 1.24  | [1.01, 1.52]* | 1.05  | [0.85, 1.30]  |
| 51-64  | 1.19  | [0.97, 1.45]  | 1.05  | [0.85, 1.29]  |
| <b>Female</b>  | 0.93  | [0.78, 1.1]   | 1.00  | [0.84, 1.20]  |
| <b>Income, % of federal poverty level</b>                          |   |               |   |               |
| 0-35%  | Ref   |               | Ref   |               |
| 36-99%   | 1.07  | [0.88, 1.30]  | 0.99  | [0.81, 1.20]  |
| ≥ 100%   | 0.93  | [0.76, 1.14]  | 0.88  | [0.71, 1.08]  |
| <b>Race</b>  |   |               |   |               |
| White  | Ref   |               | Ref   |               |
| Black or African American  | 1.22  | [0.99, 1.50]  | 1.00  | [0.81, 1.23]  |
| Other  | 1.02  | [0.74, 1.40]  | 0.92  | [0.67, 1.28]  |
| More than one  | 1.27  | [0.81, 1.20]  | 0.95  | [0.60, 1.52]  |

Logistic regression with adjusted odds ratios. Models adjusted for all variables listed in the table.

<sup>1</sup>Chronic conditions are self-reported, and include hypertension, mood disorder, asthma, heart disease, chronic obstructive pulmonary disease (COPD), diabetes, and chronic health conditions among those listed by respondents as “other” diagnoses.

\* denotes  $P < 0.05$

**Table 7.5. Multivariate associations between access to specific types of care and improved physical and mental health after HMP enrollment, among enrollees with self-reported chronic conditions<sup>1</sup>**

| Independent variables  | Physical health improved since HMP enrollment |              | Mental health improved since HMP enrollment |              |
|--|---|--------------|---|--------------|
|  | aOR   | 95% CI       | aOR   | 95% CI       |
| <b>Saw PCP in past 12 months</b>                               | 1.86*   | [1.20, 2.89] | 1.02  | [0.66, 1.59] |
| <b>Insurance duration prior to HMP</b>                         |   |              |   |              |
| Entire year  | Ref   |              | Ref   |              |
| Part of year   | 1.52*   | [1.05, 2.20] | 0.86  | [0.59, 1.27] |
| None of year   | 2.15*   | [1.70, 2.70] | 1.30*                                       | [1.02, 1.65] |
| <b>Improved access to mental health care<sup>2</sup></b>       | 1.53*   | [1.19, 1.96] | 3.40*                                       | [2.67, 4.34] |
| <b>Improved access to prescription medications<sup>2</sup></b> | 2.10*   | [1.65, 2.68] | 1.56*                                       | [1.21, 2.02] |
| <b>Improved access to specialty care<sup>2</sup></b>           | 1.63*   | [1.39, 2.05] | 1.48*                                       | [1.17, 1.88] |
| <b>Current smoker</b>  | 0.77*   | [0.62, 0.96] | 0.94  | [0.76, 1.18] |
| <b>Age</b>   |   |              |   |              |
| 19-34  | Ref   |              | Ref   |              |
| 35-50  | 1.11  | [0.84, 1.46] | 0.92  | [0.69, 1.22] |
| 51-64  | 1.05  | [0.81, 1.37] | 1.13  | [0.86, 1.47] |
| <b>Female</b>  | 0.78*   | [0.63, 0.97] | 0.92  | [0.74, 1.15] |
| <b>Income, % of federal poverty level</b>                      |   |              |   |              |
| 0-35%  | Ref   |              | Ref   |              |
| 36-99%   | 1.19  | [0.93, 1.51] | 1.02  | [0.80, 1.30] |
| ≥ 100%   | 1.13  | [0.88, 1.46] | 1.03  | [0.79, 1.34] |
| <b>Race</b>  |   |              |   |              |
| White  | Ref   |              | Ref   |              |
| Black or African American                                      | 1.34*   | [1.02, 1.76] | 0.92  | [0.70, 1.20] |
| Other  | 0.91  | [0.58, 1.43] | 0.82  | [0.52, 1.28] |
| More than one  | 1.39  | [0.81, 2.37] | 0.83  | [0.43, 1.62] |

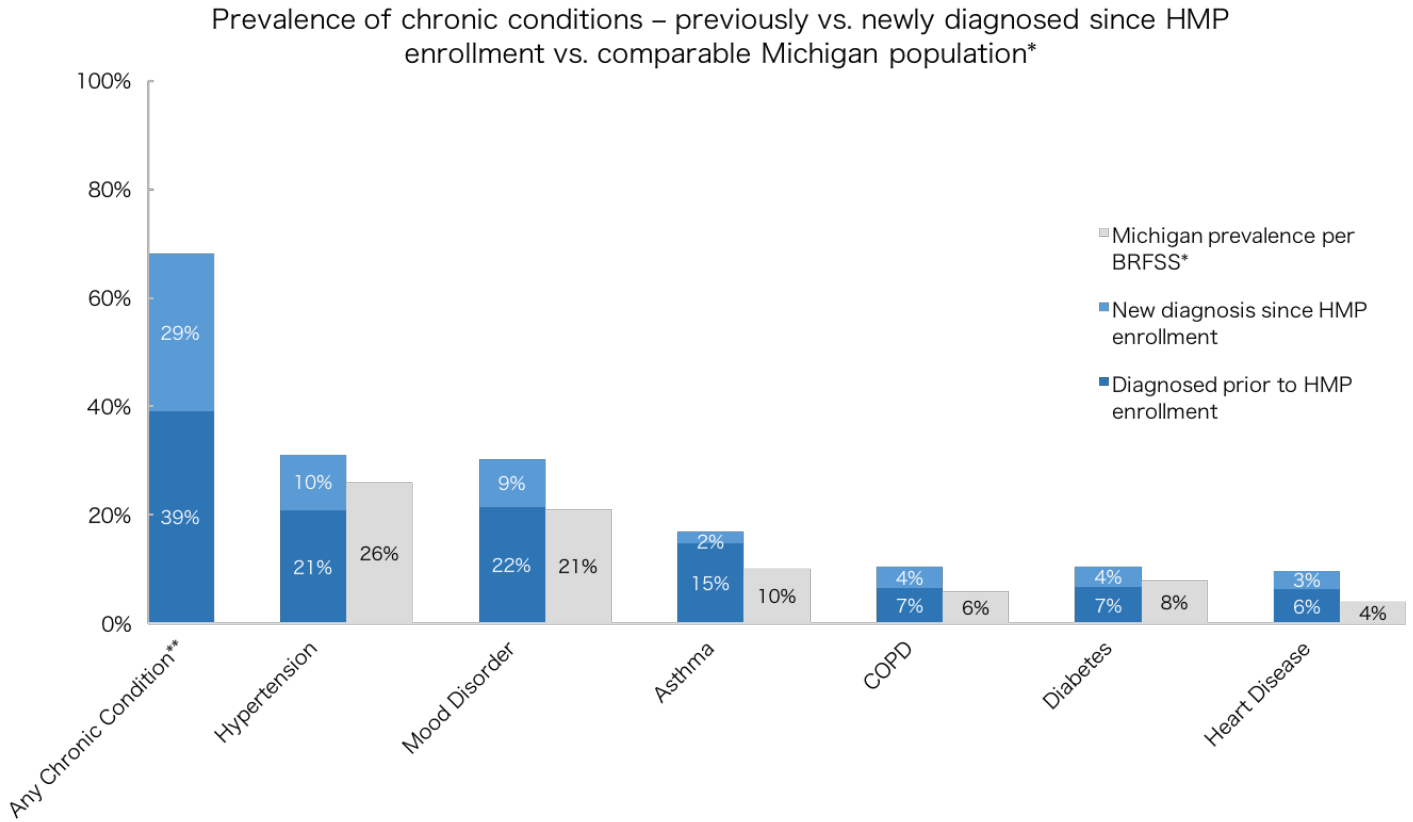
Logistic regression with adjusted odds ratios. Models adjusted for all variables listed in the table.

<sup>1</sup>Chronic conditions are self-reported, and include hypertension, mood disorder, asthma, heart disease, chronic obstructive pulmonary disease (COPD), diabetes, and chronic health conditions among those listed by respondents as “other” diagnoses.

<sup>2</sup>Participants reported that since enrolling in HMP, access to this service has improved (reference group is those who said it got worse, stayed the same, or don’t know).

\* denotes  $P < 0.05$

**Figure 7.1. Prevalence of chronic conditions – previously vs. newly diagnosed since HMP enrollment vs. comparable Michigan population**



\*Comparable Michigan Prevalence estimated using 2015 Michigan BRFSS results among respondents age 19-64 years old who did not report being pregnant or enrolled in Medicare, adjusted for BRFSS survey weights to more closely reflect the general Michigan population.  
 \*\*Any Chronic Condition includes respondents who reported any of the following conditions: hypertension, heart disease, diabetes, mood disorders, stroke, asthma, COPD, or other. Write-in responses for "other" were verified and coded by two clinicians. Of all respondents with any chronic disease, 39.4% reported some "other" chronic disease, but only 8.9% of those with a chronic disease only selected "other." Among all enrollees, a total of 6,657 chronic disease were indicated, including 1,538 classified as "other" (23% of reported chronic conditions).

**Section 8: Diagnosis and care of chronic health conditions among HMP enrollees as measured by HEDIS criteria and claims-based diagnostic codes**

**Table 8.1. Demographic and health characteristics for HMP enrollees with and without chronic disease (HEDIS 2016<sup>1</sup>)**

| Respondent Characteristics                         | 1+ Chronic disease<br>(N= 1,161)<br>25.1% [23.5, 26.8] |              | No chronic disease<br>(N= 2,929)<br>74.9% [73.2, 76.5] |              | p-value <sup>2</sup> |
|--|--|--------------|--|--------------|----------------------|
|  | Column %   | 95% CI       | Column %   | 95% CI       |                      |
| <b>Age</b>   |  |              |  |              | < .001               |
| 19-34  | 17.8   | [15.0, 21.1] | 47.4   | [45.0, 49.7] |                      |
| 35-50  | 39.1   | [35.6, 42.7] | 32.3   | [30.1, 34.5] |                      |
| 51-64  | 43.1   | [39.7, 46.5] | 20.3   | [18.8, 22.0] |                      |
| <b>Male</b>  | 48.7   | [45.1, 52.3] | 48.4   | [46.0, 50.7] | .893                 |
| <b>Race</b>  |  |              |  |              | .032                 |
| White  | 63.0   | [59.4, 66.5] | 60.5   | [58.2, 62.8] |                      |
| Black or African American                          | 27.2   | [23.9, 30.6] | 25.7   | [23.6, 27.9] |                      |
| Other  | 7.4  | [5.7, 9.5]   | 9.2  | [7.9, 10.7]  |                      |
| More than one                                      | 2.4  | [1.7, 3.6]   | 4.5  | [3.6, 5.6]   |                      |
| <b>Income, % of federal poverty level</b>          |  |              |  |              | .013                 |
| 0-35%  | 56.2   | [53.2, 59.2] | 50.4   | [48.7, 52.0] |                      |
| 36-99%   | 25.9   | [23.4, 28.4] | 29.3   | [27.9, 30.6] |                      |
| ≥ 100%   | 17.9   | [15.8, 20.2] | 20.4   | [19.3, 21.5] |                      |
| <b>Health status</b>                               |  |              |  |              | < .001               |
| Excellent  | 2.8  | [1.8, 4.2]   | 11.8   | [10.3, 13.4] |                      |
| Very good  | 13.8   | [11.3, 16.7] | 31.2   | [29.0, 33.5] |                      |
| Good   | 34.3   | [31.0, 37.8] | 33.7   | [31.6, 35.9] |                      |
| Fair   | 34.4   | [31.1, 37.8] | 18.2   | [16.4, 20.0] |                      |
| Poor   | 14.7   | [12.4, 17.3] | 5.1  | [4.2, 6.3]   |                      |
| <b>Functional impairment (≥14 of past 30 days)</b> | 29.2   | [26.1, 32.6] | 14.9   | [13.3, 16.6] | < .001               |
| <b>Physical health better since HMP</b>            | 56.7   | [53.2, 60.2] | 45.2   | [42.8, 47.5] | < .001               |
| <b>Mental health better since HMP</b>              | 41.5   | [38.0, 45.1] | 37.3   | [35.0, 39.6] | < .052               |

Weighted demographic characteristics of HMP enrollees, by presence of chronic disease defined by HEDIS 2016.

<sup>1</sup> HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

<sup>2</sup> Pearson's chi-squared test comparing proportions between those with and without chronic disease.

**Table 8.2. Bivariate association between chronic disease (HEDIS 2016<sup>1</sup>) and access to care among HMP enrollees before and after HMP**

|   | Before HMP                      |              |                                 |              |                       | After HMP                       |             |                                 |             |                       |
|---|---------------------------------|--------------|---------------------------------|--------------|-----------------------|---------------------------------|-------------|---------------------------------|-------------|-----------------------|
|   | 1+ Chronic disease<br>(N=1,161) |              | No chronic disease<br>(N=2,929) |              | p- value <sup>2</sup> | 1+ Chronic disease<br>(N=1,161) |             | No chronic disease<br>(N=2,929) |             | p- value <sup>2</sup> |
|   | Col %                           | [95% CI]     | Col %                           | [95% CI]     |                       | Col %                           | [95% CI]    | Col %                           | [95% CI]    |                       |
| <b>Insurance duration prior to HMP</b>                                    |                                 |              |                                 |              | .662                  |                                 |             |                                 |             |                       |
| All year  | 31.8                            | [28.5, 35.2] | 30.6                            | [28.5, 32.9] |                       |                                 |             |                                 |             |                       |
| Some of the year  | 8.7                             | [7.0, 10.9]  | 9.8                             | [8.5, 11.3]  |                       |                                 |             |                                 |             |                       |
| None of the year  | 59.5                            | [55.9, 63.0] | 59.6                            | [57.2, 61.9] |                       |                                 |             |                                 |             |                       |
| <b>Years since last PCP visit prior to HMP</b>                            |                                 |              |                                 |              | .001                  |                                 |             |                                 |             |                       |
| Less than 1 year  | 46.6                            | [43.0, 50.2] | 38.8                            | [36.5, 41.1] |                       |                                 |             |                                 |             |                       |
| 1-5 years   | 32.7                            | [29.5, 36.1] | 40.3                            | [38.0, 42.6] |                       |                                 |             |                                 |             |                       |
| More than 5 years   | 20.7                            | [17.7, 24.1] | 20.9                            | [19.1, 22.9] |                       |                                 |             |                                 |             |                       |
| <b>Problems paying medical bills in 12 months prior to HMP enrollment</b> | 56.8                            | [53.2, 60.4] | 40.9                            | [38.6, 43.2] | < .001                |                                 |             |                                 |             |                       |
| <b>Usual source of care</b>   | 80.2                            | [77.0, 83.0] | 71.8                            | [69.6, 73.8] | < .001                | 98.1                            | [96.9,98.8] | 90.2                            | [88.5,91.8] | < .001                |
| <b>Type of usual source of care</b>                                       |                                 |              |                                 |              | .048                  |                                 |             |                                 |             | .037                  |
| Clinic  | 20.4                            | [17.4, 23.7] | 16.0                            | [14.0, 18.1] |                       | 17.0                            | [14.3,20.1] | 16.3                            | [14.6,18.2] |                       |
| Doctor's office   | 48.9                            | [44.9, 52.8] | 47.6                            | [44.9, 50.4] |                       | 77.5                            | [74.2,80.6] | 74.4                            | [72.2,76.5] |                       |
| Urgent care/walk-in   | 13.8                            | [11.3, 16.7] | 18.0                            | [16.0, 20.2] |                       | 3.5                             | [2.3,5.3]   | 6.6                             | [5.4,8.1]   |                       |
| Emergency room  | 15.1                            | [12.5, 18.2] | 16.7                            | [14.6, 19.0] |                       | 1.3                             | [0.7,2.5]   | 1.8                             | [1.3,2.5]   |                       |
| Other place   | 1.9                             | [1.0, 3.6]   | 1.7                             | [1.2, 2.5]   |                       | 0.6                             | [0.3,1.4]   | 0.8                             | [0.5,1.4]   |                       |
| <b>Saw PCP in past 12 months</b>  |                                 |              |                                 |              |                       | 94.8                            | [92.6,96.4] | 82.1                            | [80.0,84.0] | < .001                |
| <b>Ability to pay medical bills<sup>3</sup></b>                           |                                 |              |                                 |              |                       |                                 |             |                                 |             | .690                  |
| Gotten worse  |                                 |              |                                 |              |                       | 3.1                             | [1.8,5.2]   | 2.5                             | [1.6,3.7]   |                       |
| Stayed the same   |                                 |              |                                 |              |                       | 9.8                             | [7.1,13.5]  | 11.1                            | [8.9,13.6]  |                       |
| Gotten better   |                                 |              |                                 |              |                       | 87.1                            | [83.2,90.1] | 86.5                            | [83.8,88.8] |                       |

Weighted proportion of HMP enrollees' access to care, by presence of chronic disease defined by HEDIS 2016. See Appendix B for full definitions.

<sup>1</sup>HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

<sup>2</sup>Pearson's chi-squared test comparing proportions between those with and without chronic disease.

<sup>3</sup>Analysis is limited to enrollees who reported problems paying medicals bills before enrollment in HMP

**Table 8.3. Multivariate association between chronic disease (HEDIS 2016<sup>1</sup>) and improvements in physical and mental health outcomes among HMP enrollees**

| Independent variables                     | Dependent variables             |              |                 |                               |              |                 |
|---|---------------------------------|--------------|-----------------|-------------------------------|--------------|-----------------|
|   | Improvements in physical health |              |                 | Improvements in mental health |              |                 |
|   | aOR                             | [95% CI]     | <i>p</i> -value | aOR                           | [95% CI]     | <i>p</i> -value |
| <b>1+ Chronic disease<sup>1</sup></b>     | 1.58                            | [1.31, 1.90] | < .001          | 1.15                          | [.95, 1.39]  | .139            |
| <b>Insurance duration prior to HMP</b>    |                                 |              |                 |                               |              |                 |
| All year                                  | Reference                       |              |                 | Reference                     |              |                 |
| Some of the year                          | 2.01                            | [1.48, 2.74] | < .001          | 1.28                          | [.93, 1.76]  | .120            |
| None of the year                          | 2.32                            | [1.93, 2.80] | < .001          | 1.62                          | [1.33, 1.97] | < .001          |
| <b>Current smoker</b>                     | .78                             | [.66, .93]   | .007            | 1.00                          | [.84, 1.20]  | .925            |
| <b>Age</b>                                |                                 |              |                 |                               |              |                 |
| 19-34                                     | Reference                       |              |                 | Reference                     |              |                 |
| 35-50                                     | 1.24                            | [1.00, 1.52] | .040            | 1.12                          | [.90, 1.38]  | .278            |
| 51-64                                     | 1.16                            | [.95, 1.42]  | .139            | 1.13                          | [.91, 1.39]  | .242            |
| <b>Female</b>                             | .95                             | [.80, 1.13]  | .626            |                               |              |                 |
| <b>Income, % of federal poverty level</b> |                                 |              |                 |                               |              |                 |
| 0-35%                                     | Reference                       |              |                 | Reference                     |              |                 |
| 36-99%                                    | 1.04                            | [.86, 1.27]  | .624            | .95                           | [.78, 1.16]  | .668            |
| ≥ 100%                                    | .90                             | [.73, 1.10]  | .320            | .84                           | [.68, 1.03]  | .106            |
| <b>Race</b>                               |                                 |              |                 |                               |              |                 |
| White                                     | Reference                       |              |                 | Reference                     |              |                 |
| Black or African American                 | 1.16                            | [.94, 1.43]  | .148            | .95                           | [.77, 1.18]  | .698            |
| Other                                     | .94                             | [.69, 1.29]  | .742            | .85                           | [.61, 1.18]  | .340            |
| More than one                             | 1.30                            | [.83, 2.03]  | .241            | .95                           | [.60, 1.51]  | .854            |

Logistic regression with adjusted odds ratios; each model is adjusted for coverage status prior to HMP, smoking status, age, gender, federal poverty level, and race.

<sup>1</sup>HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

**Table 8.4. Multivariate association between improvements in access to specific types of care and physical and mental health outcomes among HMP enrollees with chronic disease (HEDIS 2016<sup>1</sup>)**

| Independent variables                            | Dependent variables                                |              |         |  |              |         |
|--|--|--------------|---------|--|--------------|---------|
|  | Improvements in physical health<br>(Model n=1,090) |              |         | Improvements in mental health<br>(Model n=1,085) |              |         |
|  | aOR  | [95% CI]     | p-value | aOR  | [95% CI]     | p-value |
| <b>Saw PCP in past 12 months</b>                 | .99  | [.47, 2.10]  | .999    | 1.84   | [.77, 4.39]  | .164    |
| <b>Improved access to mental health services</b> | 1.66   | [1.13, 2.45] | .009    | 3.39   | [2.32, 4.95] | < .001  |
| <b>Improved access to prescriptions</b>          | 1.81   | [1.26, 2.61] | .001    | 1.36   | [.91, 2.04]  | .127    |
| <b>Improved access to specialty services</b>     | 1.83   | [1.30, 2.58] | .001    | 1.43   | [1.00, 2.04] | .048    |
| <b>Insurance duration prior to HMP</b>           |  |              |         |  |              |         |
| All year   | Reference  |              |         | Reference  |              |         |
| Some of the year                                 | .966   | [.54, 1.70]  | .907    | 1.23   | [.68, 2.22]  | .475    |
| None of the year                                 | 2.01   | [1.43, 2.81] | < .001  | 1.48   | [1.02, 2.16] | .038    |
| <b>Current smoker</b>                            | .73  | [.53, 1.00]  | .051    | 1.22   | [.87, 1.70]  | .230    |
| <b>Age</b>                                       |  |              |         |  |              |         |
| 19-34  | Reference  |              |         | Reference  |              |         |
| 35-50  | .94  | [.57, 1.56]  | .832    | .93  | [.54, 1.60]  | .805    |
| 51-64  | .97  | [.60, 1.58]  | .925    | 1.11   | [.65, 1.89]  | .684    |
| <b>Female</b>                                    | .73  | [.53, 1.02]  | .069    | .81  | [.58, 1.14]  | .232    |
| <b>Income, % of federal poverty level</b>        |  |              |         |  |              |         |
| 0-35%  | Reference  |              |         | Reference  |              |         |
| 36-99%   | 1.07   | [.75, 1.54]  | .673    | 1.30   | [.91, 1.85]  | .148    |
| ≥ 100%   | 1.33   | [.89, 2.00]  | .162    | 1.01   | [.64, 1.57]  | .965    |
| <b>Race</b>                                      |  |              |         |  |              |         |
| White  | Reference  |              |         | Reference  |              |         |
| Black or African American                        | 1.51   | [1.02, 2.23] | .037    | 1.46   | [.98, 2.16]  | .058    |
| Other  | 1.13   | [.61, 2.11]  | .684    | 1.20   | [.64, 2.2]   | .559    |
| More than one                                    | 1.26   | [.54, 2.95]  | .581    | .76  | [.24, 2.35]  | .638    |

Logistic regression with adjusted odds ratios; each model is adjusted for coverage status prior to HMP, smoking status, age, gender, federal poverty level, and race. Models are limited to HMP enrollees with chronic disease.

<sup>1</sup>HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

**Table 8.5. Bivariate relationship between chronic disease (HEDIS 2016<sup>1</sup>) and self-reported HRA behavior choices among HMP enrollees**

|                        | Among enrollees who reported completing the HRA <sup>2</sup> |                              |                              | Among all HMP respondents <sup>3</sup> |                              |                              |
|------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|
|                        | 1+ Chronic disease (N=543)                                   | No chronic disease (N=1,147) |                              | 1+ Chronic disease (N=1,161)           | No chronic disease (N=2,929) |                              |
|                        | %  | %                            | <i>p</i> -value <sup>4</sup> | %                                      | %                            | <i>p</i> -value <sup>4</sup> |
| <b>HRA behaviors</b>   |  |                              |                              |  |                              |                              |
| Reduce/quit smoking    | 21.4   | 17.2                         | .092                         | 9.6                                    | 6.6                          | .006                         |
| Get the influenza shot | 0.9  | 0.8                          | .773                         | 0.4                                    | 0.4                          | .980                         |
| Exercise               | 53.1   | 52.4                         | .846                         | 23.7                                   | 20.0                         | .034                         |
| Nutrition              | 58.1   | 56.9                         | .725                         | 25.9                                   | 21.7                         | .022                         |

Weighted proportion of HMP enrollees self-reporting choosing a health behavior goal as part of the Health Risk Assessment, by presence of chronic disease as defined by HEDIS 2016. See Appendix B for full definitions.

<sup>1</sup>HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

<sup>2</sup>Analysis limited to enrollees who self-reported completing the Health Risk Assessment (N=1,690).

<sup>3</sup>For this analysis, denominator was changed to all HMP respondents, regardless of HRA completion status. Individuals who did not complete the HRA were coded as 0, and only those who completed the HRA and chose the selected behavior were coded as 1.

<sup>4</sup>Pearson's chi-squared test comparing proportions between those with and without chronic disease.



**Table 8.6. Demographic and health characteristics for HMP enrollees with and without chronic disease (DX codes<sup>1</sup>)**

| Respondent Characteristics                         | 1+ Chronic disease <sup>1</sup><br>(N= 2,940)<br>66.8 [64.8,68.7] |              | No chronic disease<br>(N= 1,150)<br>33.2 [31.3,35.2] |              | p-value <sup>2</sup> |
|--|---|--------------|--|--------------|----------------------|
|  | Col %   | [95% CI]     | Col %  | [95% CI]     |                      |
| <b>Age</b>   |   |              |  |              | < .001               |
| 19-34  | 27.9  | [25.8, 30.2] | 64.1   | [60.6, 67.5] |                      |
| 35-50  | 38.0  | [35.8, 40.3] | 26.0   | [22.9, 29.3] |                      |
| 51-64  | 34.1  | [32.1, 36.1] | 9.9  | [8.3, 11.8]  |                      |
| <b>Male</b>  | 45.5  | [43.2, 47.8] | 54.4   | [50.7, 58.0] | < .001               |
| <b>Race</b>  |   |              |  |              | .109                 |
| White  | 61.3  | [59.0, 63.4] | 61.0   | [57.2, 64.7] |                      |
| Black or African American                          | 27.1  | [25.0, 29.2] | 24.1   | [20.7, 27.7] |                      |
| Other  | 8.2   | [7.0, 9.6]   | 9.9  | [7.9, 12.4]  |                      |
| More than one                                      | 3.5   | [2.8, 4.4]   | 5.1  | [3.6, 7.1]   |                      |
| <b>Income, % of federal poverty level</b>          |   |              |  |              | .056                 |
| 0-35%  | 53.4  | [51.9, 54.9] | 48.7   | [45.3, 52.1] |                      |
| 36-99%   | 27.2  | [25.9, 28.4] | 30.9   | [28.2, 33.8] |                      |
| ≥ 100%   | 19.4  | [18.4, 20.5] | 20.4   | [18.2, 22.7] |                      |
| <b>Health status</b>                               |   |              |  |              | < .001               |
| Excellent  | 5.7   | [4.7, 6.9]   | 17.2   | [14.6, 20.2] |                      |
| Very good  | 19.9  | [18.1, 21.9] | 40.7   | [37.0, 44.5] |                      |
| Good   | 35.8  | [33.7, 38.0] | 30.0   | [26.7, 33.5] |                      |
| Fair   | 28.4  | [26.4, 30.5] | 9.8  | [8.0, 12.0]  |                      |
| Poor   | 10.1  | [8.8, 11.6]  | 2.3  | [1.4, 3.7]   |                      |
| <b>Functional impairment (≥14 of past 30 days)</b> | 23.4  | [21.6, 25.4] | 8.5  | [6.5, 11.0]  | < .001               |
| <b>Physical health better since HMP</b>            | 53.3  | [51.0, 55.6] | 37.5   | [33.9, 41.3] | < .001               |
| <b>Mental health better since HMP</b>              | 40.5  | [38.2, 42.8] | 34.1   | [30.5, 37.8] | .004                 |

Weighted demographic characteristics of HMP enrollees, by presence of chronic disease.

<sup>1</sup> Definition of chronic disease from claims-based diagnosis codes. See Appendix B for full definitions.

<sup>2</sup> Pearson's chi-squared test comparing proportions between those with and without chronic disease.

**Table 8.7. Bivariate association between chronic disease (DX codes<sup>1</sup>) and access to care among HMP enrollees before and after HMP**

|   | Before HMP                                    |              |                                  |              |                              | After HMP                                     |              |                                  |              |                              |
|---|---|--------------|----------------------------------|--------------|------------------------------|---|--------------|----------------------------------|--------------|------------------------------|
|   | 1+ Chronic disease <sup>1</sup><br>(N= 2,940) |              | No chronic disease<br>(N= 1,150) |              | <i>p</i> -value <sup>2</sup> | 1+ chronic disease <sup>1</sup><br>(N= 2,940) |              | No chronic disease<br>(N= 1,150) |              | <i>p</i> -value <sup>2</sup> |
|   | Col %   | [95% CI]     | Col %                            | [95% CI]     |                              | Col %   | [95% CI]     | Col %                            | [95% CI]     |                              |
| <b>Insurance duration prior to HMP</b>          |   |              |                                  |              | .690                         |   |              |                                  |              |                              |
| All year  | 30.7  | [28.6, 32.9] | 31.3                             | [27.9, 35.0] |                              |   |              |                                  |              |                              |
| Some of the year                                | 9.2   | [8.0, 10.6]  | 10.2                             | [8.0, 12.8]  |                              |   |              |                                  |              |                              |
| None of the year                                | 60.1  | [57.8, 62.3] | 58.5                             | [54.7, 62.2] |                              |   |              |                                  |              |                              |
| <b>Years since last PCP visit prior to HMP</b>  |   |              |                                  |              | .001                         |   |              |                                  |              |                              |
| Less than 1 year                                | 43.4  | [41.2, 45.7] | 35.3                             | [31.8, 39.0] |                              |   |              |                                  |              |                              |
| 1-5 years                                       | 36.2  | [34.0, 38.4] | 42.7                             | [39.0, 46.5] |                              |   |              |                                  |              |                              |
| More than 5 years                               | 20.4  | [18.5, 22.3] | 22.0                             | [19.0, 25.2] |                              |   |              |                                  |              |                              |
| <b>Problems paying bills</b>                    | 50.8  | [48.5, 53.0] | 33.0                             | [29.6, 36.6] | < .001                       |   |              |                                  |              |                              |
| <b>Usual source of care</b>                     | 75.9  | [73.9, 77.9] | 69.7                             | [66.2, 73.0] | .005                         | 97.1  | [96.1, 97.8] | 82.4                             | [79.0, 85.3] | < .001                       |
| <b>Type of usual source of care</b>             |   |              |                                  |              | .036                         |   |              |                                  |              | < .001                       |
| Clinic  | 18.4  | [16.5, 20.5] | 14.4                             | [11.6, 17.8] |                              | 16.5  | [14.8, 18.3] | 16.5                             | [13.9, 19.6] |                              |
| Doctor's office                                 | 47.9  | [45.3, 50.5] | 48.1                             | [43.5, 52.6] |                              | 77.3  | [75.2, 79.3] | 70.4                             | [66.7, 73.8] |                              |
| Urgent care/walk-in                             | 15.1  | [13.4, 17.0] | 20.6                             | [17.2, 24.5] |                              | 4.2   | [3.2, 5.4]   | 9.6                              | [7.4, 12.3]  |                              |
| Emergency room                                  | 16.7  | [14.8, 18.8] | 15.3                             | [12.2, 19.0] |                              | 1.5   | [1.0, 2.1]   | 2.2                              | [1.4, 3.3]   |                              |
| Other place                                     | 1.8   | [1.3, 2.6]   | 1.7                              | [0.9, 3.1]   |                              | 0.5   | [0.3, 0.9]   | 1.4                              | [0.7, 2.6]   |                              |
| <b>Saw PCP in past 12 months</b>                |   |              |                                  |              |                              | 93.1  | [91.7, 94.2] | 68.3                             | [64.3, 72.1] | < .001                       |
| <b>Ability to pay medical bills<sup>3</sup></b> |   |              |                                  |              |                              |   |              |                                  |              | .877                         |
| Gotten worse                                    |   |              |                                  |              |                              | 2.7   | [1.9, 3.9]   | 2.4                              | [1.1, 5.1]   |                              |
| Stayed the same                                 |   |              |                                  |              |                              | 10.4  | [8.5, 12.7]  | 11.4                             | [7.8, 16.4]  |                              |
| Gotten better                                   |   |              |                                  |              |                              | 86.8  | [84.4, 88.9] | 86.2                             | [81.0, 90.1] |                              |

Weighted proportion of HMP enrollees' access to care, by presence of chronic disease.

<sup>1</sup> Definition of chronic disease from claims-based diagnosis codes. See Appendix B for full definitions.

<sup>2</sup> Pearson's chi-squared test comparing proportions between those with and without chronic disease.

<sup>3</sup> Analysis is limited to enrollees who reported problems paying medicals bills before enrollment in HMP

**Table 8.8. Multivariate association between chronic disease (DX codes<sup>1</sup>) and improvements in physical and mental health outcomes among HMP enrollees**

| Independent variables                     | Dependent variables      |              |                 |                        |              |                 |
|---|--------------------------|--------------|-----------------|------------------------|--------------|-----------------|
|   | Improved physical health |              |                 | Improved mental health |              |                 |
|   | aOR                      | [95% CI]     | <i>p</i> -value | aOR                    | [95% CI]     | <i>p</i> -value |
| <b>1+ Chronic disease<sup>1</sup></b>     | 1.95                     | [1.59, 2.39] | .000            | 1.29                   | [1.05, 1.58] | .014            |
| <b>Insurance duration prior to HMP</b>    |                          |              |                 |                        |              |                 |
| All year                                  | Reference                |              |                 | Reference              |              |                 |
| Some of the year                          | 2.02                     | [1.48, 2.77] | .000            | 1.28                   | [.93, 1.76]  | .119            |
| None of the year                          | 2.34                     | [1.94, 2.82] | .000            | 1.62                   | [1.33, 1.97] | .000            |
| <b>Current smoker</b>                     | .78                      | [.65, .93]   | .006            | 1.00                   | [.84, 1.20]  | .938            |
| <b>Age</b>                                |                          |              |                 |                        |              |                 |
| 19-34                                     | Reference                |              |                 | Reference              |              |                 |
| 35-50                                     | 1.12                     | [.90, 1.38]  | .291            | 1.07                   | [.86, 1.33]  | .503            |
| 51-64                                     | 1.02                     | [.83, 1.26]  | .810            | 1.06                   | [.86, 1.32]  | .533            |
| <b>Female</b>                             | .90                      | [.75, 1.0]   | .255            | 1.01                   | [.84, 1.20]  | .904            |
| <b>Income, % of federal poverty level</b> |                          |              |                 |                        |              |                 |
| 0-35%                                     | Reference                |              |                 | Reference              |              |                 |
| 36-99%                                    | 1.06                     | [.87, 1.30]  | .500            | .96                    | [.79, 1.17]  | .727            |
| ≥ 100%                                    | .90                      | [.73, 1.10]  | .327            | .84                    | [.68, 1.04]  | .111            |
| <b>Race</b>                               |                          |              |                 |                        |              |                 |
| White                                     | Reference                |              |                 | Reference              |              |                 |
| Black or African American                 | 1.15                     | [.93, 1.42]  | .195            | .95                    | [.77, 1.17]  | .651            |
| Other                                     | .94                      | [.68, 1.29]  | .703            | .85                    | [.61, 1.17]  | .333            |
| More than one                             | 1.31                     | [.85, 2.02]  | .212            | .96                    | [.60, 1.51]  | .871            |

Logistic regression with adjusted odds ratios; each model is adjusted for coverage status prior to HMP, smoking status, age, gender, federal poverty level, and race.

<sup>1</sup>Definition of chronic disease from claims-based diagnosis codes. See Appendix B for full definitions.

**Table 8.9. Multivariate association between improvements in access to specific types of care and physical and mental health outcomes among HMP enrollees with chronic disease (DX codes<sup>1</sup>)**

| Independent variables                            | Dependent variables                         |              |         |   |              |         |
|--|---|--------------|---------|---|--------------|---------|
|  | Improved physical health<br>(Model n=2,725) |              |         | Improved mental health<br>(Model n=2,718) |              |         |
|  | aOR   | [95% CI]     | p-value | aOR                                       | [95% CI]     | p-value |
| <b>Saw PCP in past 12 months</b>                 | 1.10  | [.72, 1.67]  | .635    | 1.15                                      | [.75, 1.77]  | .503    |
| <b>Improved access to mental health services</b> | 1.84  | [1.43, 2.35] | < .001  | 3.74                                      | [2.94, 4.77] | < .001  |
| <b>Improved access to prescriptions</b>          | 1.96  | [1.54, 2.49] | < .001  | 1.63                                      | [1.27, 2.09] | < .001  |
| <b>Improved access to specialty services</b>     | 1.60  | [1.28, 2.00] | < .001  | 1.54                                      | [1.23, 1.94] | < .001  |
| <b>Insurance duration prior to HMP</b>           |   |              |         |   |              |         |
| All year   | Reference                                   |              |         | Reference                                 |              |         |
| Some of the year                                 | 1.64  | [1.14, 2.35] | .007    | .99                                       | [.68, 1.44]  | .985    |
| None of the year                                 | 2.09  | [1.67, 2.62] | < .001  | 1.18                                      | [.93, 1.50]  | .151    |
| <b>Current smoker</b>                            | .74   | [.60, .91]   | .006    | 1.00                                      | [.81, 1.24]  | .949    |
| <b>Age</b>                                       |   |              |         |   |              |         |
| 19-34  | Reference                                   |              |         | Reference                                 |              |         |
| 35-50  | 1.15  | [.87, 1.52]  | .298    | 1.13                                      | [.85, 1.50]  | .373    |
| 51-64  | 1.14  | [.87, 1.49]  | .325    | 1.32                                      | [1.00, 1.73] | .046    |
| <b>Female</b>                                    | .79   | [.63, .98]   | .034    | .89                                       | [.71, 1.10]  | .296    |
| <b>Income, % of federal poverty level</b>        |   |              |         |   |              |         |
| 0-35%  | Reference                                   |              |         | Reference                                 |              |         |
| 36-99%   | 1.16  | [.92, 1.48]  | .200    | 1.07                                      | [.85, 1.35]  | .527    |
| ≥ 100%   | 1.17  | [.91, .51]   | .200    | .98                                       | [.75, 1.28]  | .907    |
| <b>Race</b>                                      |   |              |         |   |              |         |
| White  | Reference                                   |              |         | Reference                                 |              |         |
| Black or African American                        | 1.30  | [1.00, 1.68] | .044    | 1.13                                      | [.87, 1.45]  | .338    |
| Other  | .95   | [.64, 1.39]  | .799    | 1.02                                      | [.67, 1.54]  | .913    |
| More than one                                    | 2.01  | [1.18, 3.41] | .009    | 1.19                                      | [.68, 2.08]  | .532    |

Logistic regression with adjusted odds ratios; each model is adjusted for coverage status prior to HMP, smoking status, age, gender, federal poverty level, and race. Models are limited to HMP enrollees with chronic disease.

<sup>1</sup> Definition of chronic disease from claims-based diagnosis codes. See Appendix B for full definitions.

**Table 8.10. Bivariate relationship between chronic disease (DX codes<sup>1</sup>) and self-reported HRA behavior choices among HMP enrollees**

|                        | Enrollees who completed the HRA <sup>2</sup> |                            |                              | All respondents <sup>3</sup> |                              |                              |
|------------------------|--|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|                        | 1+ Chronic disease (N=1,297)                 | No chronic disease (N=393) |                              | 1+ Chronic disease (N=2,940) | No chronic disease (N=1,150) |                              |
| HRA behaviors          | %  | %                          | <i>p</i> -value <sup>4</sup> | %                            | %                            | <i>p</i> -value <sup>4</sup> |
| Reduce/quit smoking    | 18.5   | 18.3                       | .938                         | 7.9                          | 6.3                          | .187                         |
| Get the influenza shot | 1.1  | 0.4                        | .099                         | 0.5                          | 0.1                          | .042                         |
| Exercise               | 53.8   | 49.6                       | .262                         | 22.9                         | 17.0                         | .001                         |
| Nutrition              | 57.1   | 57.6                       | .883                         | 24.3                         | 19.7                         | .021                         |

Weighted proportion of HMP enrollees self-reporting choosing a health behavior goal as part of the Health Risk Assessment, by presence of chronic disease as defined DX codes.

<sup>1</sup> Definition of chronic disease from claims-based diagnosis codes. See Appendix B for full definitions.

<sup>2</sup> Analysis limited to enrollees who self-reported completing the Health Risk Assessment (N=1690).

<sup>3</sup> For this analysis, denominator was changed to all HMP respondents, regardless of HRA completion status. Individuals who did not complete the HRA were coded as 0, and only those who completed the HRA and chose the selected behavior were coded as 1.

<sup>4</sup> Pearson's chi-squared test comparing proportions between those with and without chronic disease.

## Section 9: Impact of HMP on enrollees with mental health or substance use disorder conditions

**Table 9.1 Multivariate association between mental health/substance use disorder, insurance pre-HMP and changes in access to care and health**

| Independent variables            | Dependent variables  |            |                 |                                   |            |                 |
|----------------------------------|--|------------|-----------------|-----------------------------------|------------|-----------------|
|                                  | Enrollees with mental health/<br>substance use disorder <sup>1</sup> |            |                 | No insurance pre-HMP <sup>2</sup> |            |                 |
|                                  | aOR  | [95% CI]   | <i>p</i> -value | aOR                               | [95% CI]   | <i>p</i> -value |
| <b>Improved access to</b>        |  |            |                 |                                   |            |                 |
| Primary care                     | 1.5  | [1.3, 1.8] | < .001          | 2.9                               | [2.5, 3.5] | < .001          |
| Specialty care                   | 1.6  | [1.4, 1.9] | < .001          | 2.0                               | [1.7, 2.4] | < .001          |
| Dental care                      | 1.2  | [1.0, 1.4] | .034            | 2.1                               | [1.8, 2.5] | < .001          |
| Mental health care               | 3.4  | [2.8, 4.1] | < .001          | 1.8                               | [1.4, 2.1] | < .001          |
| Substance use disorder treatment | 2.9  | [2.1, 4.0] | < .001          | 1.7                               | [1.2, 2.4] | < .001          |
| Prescription medication          | 1.6  | [1.4, 2.0] | < .001          | 2.3                               | [2.0, 2.7] | < .001          |
| Cancer screening                 | 1.2  | [1.0, 1.5] | .036            | 2.1                               | [1.7, 2.5] | < .001          |
| Preventive health care           | 1.3  | [1.1, 1.6] | .002            | 2.2                               | [1.9, 2.6] | < .001          |
| Family planning                  | 1.1  | [0.8, 1.4] | ns              | 2.1                               | [1.6, 2.7] | < .001          |
| <b>Mental health improved</b>    | 1.7  | [1.5, 2.1] | < .001          | 1.5                               | [1.2, 1.8] | < .001          |
| <b>Physical health improved</b>  | 1.3  | [1.1, 1.5] | .003            | 1.9                               | [1.6, 2.2] | < .001          |

Logistic regression with adjusted odds ratios; each row represents a separate model adjusted for mental health/substance use disorder, coverage status prior to HMP, race, ethnicity, gender, federal poverty level, and any chronic disease (HEDIS 2016). See Appendix B for full definitions. Two independent predictors are shown in the table – presence of mental health/substance use and no insurance prior to HMP.

<sup>1</sup> Reference group for all analyses were enrollees that did not have a mental health/substance use disorder based on HEDIS mental health definition. See Appendix B for full definition.

<sup>2</sup> Reference group enrollees that had insurance pre-HMP

**Table 9.2. Bivariate relationship between various combinations of mental and physical health conditions and forgone care before and after HMP**

|  | <b>Mental<sup>1</sup> and physical<sup>2</sup> health conditions</b> | <b>MH/ SUD conditions only<sup>1</sup></b> | <b>Physical health conditions only<sup>2</sup></b> | <b>No health conditions</b> |                              |
|--|--|--|--|-----------------------------|------------------------------|
|  | % Yes  | % Yes                                      | % Yes  | % Yes                       | <i>p</i> -value <sup>3</sup> |
| <b>Any forgone care prior to HMP</b>           | 41.1   | 36.8                                       | 32.9   | 27.1                        | < .001                       |
| <b>Reasons for forgone care prior to HMP</b>   |  |  |  |                             |                              |
| Cost   | 77.7   | 75.0                                       | 79.1   | 79.5                        | .552                         |
| No insurance                                   | 66.2   | 67.4                                       | 69.9   | 67.2                        | .948                         |
| Insurance not accepted                         | 7.0  | 2.4  | 3.0  | 4.4                         | .062                         |
| Plan wouldn't pay                              | 8.4  | 9.1  | 7.1  | 6.5                         | .598                         |
| No appointment                                 | 4.5  | 3.4  | 3.0  | 3.3                         | .843                         |
| No transportation                              | 4.8  | 2.3  | 0.8  | 2.6                         | .143                         |
| Other  | 6.4  | 8.4  | 5.3  | 7.3                         | .716                         |
|  |  |  |  |                             |                              |
| <b>Any forgone care past 12 months</b>         | 18.1   | 17.8                                       | 13.7   | 13.5                        | .039                         |
| <b>Reasons for forgone care past 12 months</b> |  |  |  |                             |                              |
| Cost   | 18.5   | 30.2                                       | 14.5   | 26.4                        | .098                         |
| No insurance                                   | 9.5  | 6.7  | 6.3  | 10.4                        | .672                         |
| Insurance not accepted                         | 26.1   | 24.2                                       | 32.2   | 20.6                        | .554                         |
| Plan wouldn't pay                              | 46.1   | 39.5                                       | 29.5   | 38.9                        | .416                         |
| No appointment                                 | 7.9  | 11.3                                       | 10.1   | 13.7                        | .589                         |
| No transportation                              | 8.1  | 5.1  | -  | 7.5                         | .409                         |
| Other  | 22.4   | 32.3                                       | 26.5   | 31.7                        | .380                         |

Weighted proportions of forgone care before and after enrollment in HMP by presence of mental and physical health conditions.

<sup>1</sup> Mental conditions include mental and substance use disorder conditions defined by HEDIS. See Appendix B for full definition.

<sup>2</sup> HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

<sup>3</sup> Pearson's chi-squared test

**Table 9.3a. Bivariate relationship between various combinations of mental and physical health conditions and use of preventive services**

|  | <b>Mental<sup>1</sup> and physical<sup>2</sup> health conditions</b> | <b>MH/ SUD conditions only<sup>1</sup></b> | <b>Physical health conditions only<sup>2</sup></b> | <b>No health conditions</b> |                              |
|--|--|--|--|-----------------------------|------------------------------|
|  | Unadjusted %   | Unadjusted %                               | Unadjusted %                                       | Unadjusted %                | <i>p</i> -value <sup>3</sup> |
| Primary care visit                                   | 99.1   | 93.6                                       | 99.3   | 80.7                        | < .001                       |
| Any cancer screening                                 | 54.0   | 46.5                                       | 49.8   | 35.9                        | < .001                       |
| Dental visit   | 63.9   | 63.9                                       | 53.9   | 55.8                        | < .001                       |
| Any nutrition service                                | 6.0  | 1.1  | 5.6  | 0.7                         | < .001                       |
| Test for STI   | 15.5   | 18.6                                       | 8.3  | 10.9                        | < .001                       |
| Statin prescription                                  | 44.3   | 10.4                                       | 43.6   | 8.4                         | < .001                       |
| Varenicline and/or nicotine replacement prescription | 25.3   | 12.9                                       | 12.8   | 4.5                         | < .001                       |
| Vaccine (any)  | 61.1   | 44.7                                       | 55.8   | 34.3                        | < .001                       |
| Any preventive service                               | 95.6   | 89.9                                       | 93.8   | 79.6                        | < .001                       |

Weighted percent of HMP enrollees with claims for preventive services. See Appendix B for full definitions.

STI is an acronym for sexually transmitted infection.

<sup>1</sup> Mental conditions include mental and substance use disorder conditions defined by HEDIS. See Appendix B for full definition.

<sup>2</sup> HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

<sup>3</sup> Pearson's chi-squared test



**Table 9.3b. Multivariate associations between various combinations of mental and physical health conditions and use of preventive services**

|  | Mental <sup>1</sup> and physical <sup>2</sup> health conditions |              |                 | MH/SUD conditions only <sup>1</sup> |              |                 | Physical health conditions only <sup>2</sup> |              |                 | No health conditions |              |                 |
|--|---|--------------|-----------------|-------------------------------------|--------------|-----------------|--|--------------|-----------------|----------------------|--------------|-----------------|
|  | %   | 95% CI       | <i>p</i> -value | %                                   | 95% CI       | <i>p</i> -value | %  | 95% CI       | <i>p</i> -value | %                    | 95% CI       | <i>p</i> -value |
| Primary care visit                                   | 98.9  | [97.8, 1.00] | REF             | 93.4                                | [91.1, 95.5] | 0.001           | 99.0   | [97.9, 1.00] | 0.881           | 82.5                 | [79.9, 85.1] | <0.001          |
| Any cancer screening                                 | 49.6  | [46.7, 53.4] | REF             | 46.5                                | [43.7, 49.3] | 0.185           | 40.9   | [36.1, 45.7] | 0.004           | 39.0                 | [36.3, 41.7] | <0.001          |
| Dental visit   | 64.0  | [59.5, 68.4] | REF             | 63.6                                | [60.2, 67.0] | 0.895           | 53.0   | [46.7, 59.2] | 0.004           | 56.0                 | [52.9, 59.2] | 0.006           |
| Any nutrition service                                | 5.9   | [3.6, 8.3]   | REF             | 1.1                                 | [0.4, 1.9]   | <0.001          | 5.5  | [2.7, 8.2]   | 0.782           | 0.7                  | [0.2, 1.1]   | <0.001          |
| Test for STI   | 18.2  | [14.5, 21.8] | REF             | 18.1                                | [15.5, 20.8] | 0.992           | 10.0   | [6.3, 13.7]  | 0.003           | 10.0                 | [8.1, 11.6]  | <0.001          |
| Statin prescription                                  | 34.8  | [31.2, 38.4] | REF             | 12.7                                | [10.6, 14.7] | <0.001          | 30.2   | [25.6, 35.0] | 0.127           | 9.4                  | [7.6, 11.2]  | <0.001          |
| Varenicline and/or nicotine replacement prescription | 21.6  | [18.1, 25.0] | REF             | 13.3                                | [11.0, 15.6] | <0.001          | 10.9   | [7.9, 13.9]  | <0.001          | 5.1                  | [3.8, 6.4]   | <0.001          |
| Vaccine (any)  | 59.0  | [54.4, 63.5] | REF             | 45.4                                | [41.9, 48.9] | <0.001          | 53.5   | [47.1, 60.0] | 0.164           | 35.1                 | [32.0, 38.1] | <0.001          |
| Any preventive service <sup>3</sup>                  | 94.9  | [92.5, 97.2] | REF             | 89.8                                | [87.7, 92.0] | 0.006           | 92.4   | [88.7, 96.1] | 0.240           | 81.1                 | [78.6, 83.5] | <0.001          |

Logistic regression analysis with marginal estimates. Each row is a separate model adjusted for age, gender, race, ethnicity, and income.

STI is an acronym for sexually transmitted infection.

<sup>1</sup> Mental conditions include mental and substance use disorder conditions defined by HEDIS. See Appendix B for full definition.

<sup>2</sup> HEDIS definition of chronic disease includes diagnoses of COPD, asthma, cardiovascular disease, and diabetes. See Appendix B for full definitions.

<sup>3</sup> Any of the above preventive services, except for PCP visit. This includes any cancer screening, dental visit, any nutrition service, STI screening, statin prescription, any smoking cessation aid, or any vaccine

**Table 9.4a. Bivariate relationship between mental health and substance use disorder and impact on work/employment among HMP enrollees**

|                               | Employed |                              | Better job at work <sup>1</sup> |                              | Better look for job <sup>2</sup> |                              | Get better job <sup>3</sup> |                              |
|-------------------------------|----------|------------------------------|---------------------------------|------------------------------|----------------------------------|------------------------------|-----------------------------|------------------------------|
|                               | %        | <i>p</i> -value <sup>4</sup> | %                               | <i>p</i> -value <sup>4</sup> | %                                | <i>p</i> -value <sup>4</sup> | %                           | <i>p</i> -value <sup>4</sup> |
| <b>Enrollees</b>              |          | < .001                       |                                 | < .001                       |                                  | .515                         |                             | .329                         |
| MH/SUD enrollees <sup>5</sup> | 43.1     |                              | 80.1                            |                              | 59.1                             |                              | 40.9                        |                              |
| Non-MH/SUD enrollees          | 53.7     |                              | 67.3                            |                              | 56.3                             |                              | 34.7                        |                              |

Weighted proportions

<sup>1</sup>Employed enrollees who responded “Yes” to the question, “Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work?”

<sup>2</sup>Out of work enrollees who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan has made me better able to look for a job.”

<sup>3</sup>Enrollees with a recent job change who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan helped me get a better job.”

<sup>4</sup>Pearson's chi-squared test

<sup>5</sup>Mental health/substance use disorder based on HEDIS mental health definition. See Appendix B for full definition.

**Table 9.4b Multivariate association between health improvements and impact of HMP on work/employment among HMP enrollees with mental health or substance use disorder conditions<sup>1</sup>**

| Independent Variables  | Dependent Variables                       |              |          |  |               |          |   |               |          |   |               |          |
|--|---|--------------|----------|--|---------------|----------|---|---------------|----------|---|---------------|----------|
|  | Employed/Self-Employed<br>(Model n=1,993) |              |          | Better job at work <sup>2</sup><br>(Model n=862) |               |          | Better able to look for job <sup>3</sup><br>(Model n=477) |               |          | Helped get a better job <sup>4</sup><br>(Model n=211) |               |          |
|  | aOR                                       | [95% CI]     | p- value | aOR  | [95% CI]      | p- value | aOR   | [95% CI]      | p- value | aOR   | [95% CI]      | p- value |
| <b>Physical or mental health better since HMP enrollment</b> | 1.11                                      | [0.83, 1.48] | .482     | 5.62   | [3.68, 8.59]  | < .001   | 2.71  | [1.61, 4.59]  | < .001   | 5.38  | [2.24, 12.94] | < .001   |
| <b>Age</b>   |   |              |          |  |               |          |   |               |          |   |               |          |
| 19-34  | Reference                                 |              |          | Reference  |               |          | Reference   |               |          | Reference   |               |          |
| 35-50  | .82                                       | [0.60, 1.14] | .235     | .90  | [0.55, 1.47]  | .684     | 1.13  | [0.64, 1.99]  | .680     | .55   | [0.23, 1.30]  | .172     |
| 51-64  | .56                                       | [0.41, 0.78] | < .001   | .99  | [0.58, 1.71]  | .976     | 1.40  | [0.79, 2.46]  | .248     | .68   | [0.23, 1.97]  | .476     |
| <b>Female</b>  | 1.21                                      | [0.92, 1.60] | .179     | 1.86   | [1.19, 2.91]  | .006     | .71   | [0.44, 1.16]  | .173     | 1.58  | [0.65, 3.86]  | .316     |
| <b>Race</b>  |   |              |          |  |               |          |   |               |          |   |               |          |
| White  | Reference                                 |              |          | Reference  |               |          | Reference   |               |          | Reference   |               |          |
| Black or African American                                    | .95                                       | [0.67, 1.35] | .778     | 1.04   | [0.57, 1.89]  | .894     | 1.17  | [0.66, 2.05]  | .591     | 1.65  | [0.58, 4.66]  | .346     |
| Other  | 1.31                                      | [0.71, 2.43] | .391     | 1.25   | [0.49, 3.20]  | .637     | 1.58  | [0.43, 5.75]  | .488     | 1.97  | [0.42, 9.26]  | .392     |
| More than one  | 1.05                                      | [0.52, 2.12] | .887     | 2.16   | [0.49, 9.44]  | .306     | .89   | [0.30, 2.63]  | .826     | .11   | [0.01, 1.49]  | .096     |
| <b>Income, % of federal poverty level</b>                    |   |              |          |  |               |          |   |               |          |   |               |          |
| 0-35%  | Reference                                 |              |          | Reference  |               |          | Reference   |               |          | Reference   |               |          |
| 36-99%   | 3.25                                      | [2.40, 4.40] | < .001   | .63  | [0.36, 1.10]  | .105     | .73   | [0.39, 1.38]  | .333     | .59   | [0.24, 1.48]  | .261     |
| ≥ 100%   | 3.75                                      | [2.69, 5.22] | < .001   | .56  | [0.32, 0.98]  | .044     | .82   | [0.37, 1.80]  | .617     | .30   | [0.11, 0.83]  | .020     |
| <b>Fair or poor health</b>                                   | .66                                       | [0.49, 0.89] | .006     | .64  | [0.38, 1.10]  | .104     | .82   | [0.50, 1.35]  | .429     | .85   | [0.31, 2.30]  | .747     |
| <b>Any chronic disease</b>                                   | .76                                       | [0.51, 1.14] | .184     | 1.34   | [0.80, 2.25]  | .260     | 1.05  | [0.43, 2.56]  | .923     | 1.40  | [0.41, 4.85]  | .592     |
| <b>Functional impairment</b>                                 |   |              |          |  |               |          |   |               |          |   |               |          |
| 0-13 days  | Reference                                 |              |          | Reference  |               |          | Reference   |               |          | Reference   |               |          |
| 14-30 days   | .20                                       | [0.13, 0.29] | < .001   | 1.03   | [0.48, 2.20]  | .945     | .62   | [0.37, 1.05]  | .075     | .55   | [0.09, 3.27]  | .510     |
| Don't know   | .17                                       | [0.06, 0.52] | .002     | 2.68   | [0.33, 21.61] | .355     | 2.49  | [0.45, 13.58] | .295     | -   | -             | -        |
| <b>Constant</b>  | .98                                       | [0.59, 1.61] | 0.926    | 1.35   | [0.62, 2.94]  | .444     | .98   | [0.38, 2.52]  | .960     | .23   | [0.04, 1.25]  | .089     |

Logistic regression with adjusted odds ratios predicting employment outcomes for HMP enrollees with mental health conditions or substance abuse disorder. Each column is a separate model, each adjusted for the variables shown.

<sup>1</sup> Mental health/substance use disorder based on HEDIS mental health definition. See Appendix B for full definition.

<sup>2</sup> Employed enrollees who responded "Yes" to the question, "Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work?"

<sup>3</sup> Out of work enrollees who strongly agreed or agreed that "Having health insurance through the Healthy Michigan Plan has made me better able to look for a job."

<sup>4</sup> Enrollees with a recent job change who strongly agreed or agreed that "Having health insurance through the Healthy Michigan Plan helped me get a better job."

**Table 9.4c. Multivariate association between health improvements and impact of HMP on work/employment among HMP enrollees WITHOUT mental health or substance use disorder conditions<sup>1</sup>**

| Independent Variables  | Dependent Variables                       |              |          |  |               |          |   |              |         |   |                |          |
|--|---|--------------|----------|--|---------------|----------|---|--------------|---------|---|----------------|----------|
|  | Employed/Self-Employed<br>(Model n=2,030) |              |          | Better job at work <sup>2</sup><br>(Model n=1,095) |               |          | Better able to look for job <sup>3</sup><br>(Model n=415) |              |         | Helped get a better job <sup>4</sup><br>(Model n=224) |                |          |
|  | aOR                                       | [95% CI]     | p- value | aOR  | [95% CI]      | p- value | aOR   | [95% CI]     | p value | aOR   | [95% CI]       | p- value |
| <b>Physical or mental health better since HMP enrollment</b> | 1.03                                      | [0.80, 1.34] | .796     | 3.27   | [2.33, 4.60]  | < .001   | 3.16  | [1.78, 5.61] | < .001  | 2.65  | [1.23, 5.69]   | .013     |
| <b>Age</b>   |   |              |          |  |               |          |   |              |         |   |                |          |
| 19-34  | Reference                                 |              |          | Reference  |               |          | Reference   |              |         | Reference   |                |          |
| 35-50  | 1.18                                      | [0.86, 1.63] | .308     | .96  | [0.64, 1.43]  | .843     | 1.71  | [0.87, 3.37] | .123    | 1.79  | [0.73, 4.41]   | .206     |
| 51-64  | .58                                       | [0.44, 0.78] | < .001   | 1.28   | [0.86, 1.92]  | .229     | 2.27  | [1.16, 4.43] | .017    | 2.99  | [1.04, 8.56]   | .042     |
| <b>Female</b>  | .84                                       | [0.65, 1.09] | .198     | 1.12   | [0.79, 1.57]  | .528     | .75   | [0.42, 1.35] | .340    | .31   | [0.15, 0.66]   | .002     |
| <b>Race</b>  |   |              |          |  |               |          |   |              |         |   |                |          |
| White  | Reference                                 |              |          | Reference  |               |          | Reference   |              |         | Reference   |                |          |
| Black or African American                                    | 1.00                                      | [0.74, 1.36] | .988     | 2.15   | [1.41, 3.27]  | < .001   | .64   | [0.34, 1.19] | .156    | 1.72  | [0.71, 4.18]   | .228     |
| Other  | .70                                       | [0.46, 1.06] | .095     | 1.27   | [0.64, 2.53]  | .486     | 1.37  | [0.53, 3.56] | .517    | 1.87  | [0.63, 5.54]   | .256     |
| More than one  | 1.26                                      | [0.61, 2.61] | .534     | 1.78   | [0.74, 4.27]  | .200     | .30   | [0.09, 1.08] | .065    | .97   | [0.22, 4.31]   | .965     |
| <b>Income, % of federal poverty level</b>                    |   |              |          |  |               |          |   |              |         |   |                |          |
| 0-35%  | Reference                                 |              |          | Reference  |               |          | Reference   |              |         | Reference   |                |          |
| 36-99%   | 4.37                                      | [3.27, 5.83] | < .001   | 1.02   | [0.61, 1.68]  | .952     | .92   | [0.49, 1.72] | .796    | 1.51  | [0.64, 3.56]   | .342     |
| ≥ 100%   | 5.19                                      | [3.80, 7.09] | < .001   | 0.75   | [0.46, 1.22]  | .244     | .58   | [0.23, 1.48] | .253    | 1.15  | [0.45, 2.94]   | .778     |
| <b>Fair or poor health</b>                                   | .70                                       | [0.51, 0.96] | .025     | 1.62   | [0.99, 2.65]  | .053     | 1.95  | [1.01, 3.75] | .045    | 1.20  | [0.41, 3.53]   | .746     |
| <b>Any chronic disease</b>                                   | .85                                       | [0.63, 1.13] | .257     | 1.34   | [0.94, 1.90]  | .105     | .63   | [0.34, 1.18] | .146    | 1.07  | [0.48, 2.36]   | .874     |
| <b>Functional impairment</b>                                 |   |              |          |  |               |          |   |              |         |   |                |          |
| 0-13 days  | Reference                                 |              |          | Reference  |               |          | Reference   |              |         | Reference   |                |          |
| 14-30 days   | .41                                       | [0.26, 0.66] | < .001   | 1.51   | [0.64, 3.55]  | .345     | 1.31  | [0.57, 2.98] | .525    | 2.75  | [0.46, 16.31]  | .266     |
| Don't know   | .54                                       | [0.18, 1.65] | .277     | 1.77   | [0.31, 10.06] | .521     | 1.0   | -            | -       | 9.82  | [0.51, 188.53] | .129     |
| <b>Constant</b>  | .80                                       | [0.56, 1.15] | .231     | .72  | [0.42, 1.25]  | .246     | .67   | [0.35, 1.29] | .234    | .22   | [0.09, 0.56]   | .001     |

Logistic regression with adjusted odds ratios predicting employment outcomes for HMP enrollees with mental health conditions or substance abuse disorder. Each column is a separate model, each adjusted for the variables shown.

<sup>1</sup> Mental health/substance use disorder based on HEDIS mental health definition. See Appendix B for full definition.

<sup>2</sup> Employed enrollees who responded "Yes" to the question, "Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work?"

<sup>3</sup> Out of work enrollees who strongly agreed or agreed that "Having health insurance through the Healthy Michigan Plan has made me better able to look for a job."

<sup>4</sup> Enrollees with a recent job change who strongly agreed or agreed that "Having health insurance through the Healthy Michigan Plan helped me get a better job."

## Section 10: Awareness of HMP dental coverage, perceived access to and use of dental services, oral health status and outcomes

**Table 10.1. Bivariate associations between respondent characteristics and awareness of HMP dental coverage, perceived access to dental care, dental care use and perceived oral health after HMP enrollment**

| Respondent Characteristic                 | Awareness HMP covers dental <sup>1</sup> |              |                              | Improved access to dental care <sup>2</sup> |              |                              | Any dental care visit <sup>3</sup> |              |                              | Improved oral health <sup>4</sup> |              |                              |
|---|--|--------------|------------------------------|---|--------------|------------------------------|------------------------------------|--------------|------------------------------|-----------------------------------|--------------|------------------------------|
|   | % Yes                                    | 95% CI       | <i>p</i> -value <sup>5</sup> | % Better                                    | 95% CI       | <i>p</i> -value <sup>5</sup> | % Yes                              | 95% CI       | <i>p</i> -value <sup>5</sup> | % Better                          | 95% CI       | <i>p</i> -value <sup>5</sup> |
| <b>Gender</b>                             |  |              | < .001                       |   |              | .117                         |                                    |              | < .001                       |                                   |              | .073                         |
| Female                                    | 80.8                                     | [78.8, 82.7] |                              | 47.6  | [45.1, 50.1] |                              | 62.9                               | [60.4, 65.4] |                              | 41.2                              | [38.8, 43.7] |                              |
| Male                                      | 73.2                                     | [70.4, 75.9] |                              | 44.4  | [41.4, 47.5] |                              | 55.9                               | [52.8, 58.9] |                              | 37.7                              | [34.8, 40.7] |                              |
| <b>Age</b>                                |  |              | .747                         |   |              | .336                         |                                    |              | .380                         |                                   |              | .824                         |
| 19-34                                     | 76.9                                     | [73.8, 79.8] |                              | 44.4  | [41.1, 47.8] |                              | 58.0                               | [54.5, 61.3] |                              | 38.8                              | [35.6, 42.1] |                              |
| 35-50                                     | 76.7                                     | [73.6, 79.5] |                              | 47.7  | [44.3, 51.1] |                              | 61.0                               | [57.6, 64.3] |                              | 39.9                              | [36.6, 43.3] |                              |
| 51-64                                     | 78.2                                     | [75.6, 80.6] |                              | 46.4  | [43.3, 49.6] |                              | 59.9                               | [56.8, 63.0] |                              | 40.1                              | [37.1, 43.3] |                              |
| <b>Race</b>                               |  |              | .162                         |   |              | .963                         |                                    |              | .263                         |                                   |              | .004                         |
| White                                     | 77.2                                     | [75.1, 79.2] |                              | 46.4  | [44.0, 48.8] |                              | 61.1                               | [58.7, 63.5] |                              | 37.6                              | [35.3, 39.9] |                              |
| Black or African American                 | 79.7                                     | [75.9, 83.1] |                              | 46.5  | [42.1, 50.8] |                              | 56.8                               | [52.4, 61.1] |                              | 45.4                              | [41.1, 49.8] |                              |
| Hispanic/Latino                           | 70.5                                     | [54.8, 82.5] |                              | 47.8  | [34.7, 61.1] |                              | 55.2                               | [41.3, 68.3] |                              | 30.6                              | [20.3, 43.3] |                              |
| Other                                     | 73.5                                     | [68.1, 78.2] |                              | 44.9  | [39.3, 50.6] |                              | 57.7                               | [52.0, 63.2] |                              | 37.4                              | [32.1, 43.0] |                              |
| <b>Employment status</b>                  |  |              | .392                         |   |              | .033                         |                                    |              | .822                         |                                   |              | .587                         |
| Employed/self-employed                    | 77.9                                     | [75.5, 80.2] |                              | 48.2  | [45.5, 51.0] |                              | 59.7                               | [57.0, 62.4] |                              | 40.1                              | [37.4, 42.8] |                              |
| Not employed                              | 76.5                                     | [73.9, 78.8] |                              | 44.0  | [41.2, 46.8] |                              | 59.3                               | [56.5, 62.1] |                              | 39.0                              | [36.3, 41.8] |                              |
| <b>Insurance duration prior to HMP</b>    |  |              | .207                         |   |              | < .001                       |                                    |              | .010                         |                                   |              | < .001                       |
| All year                                  | 77.7                                     | [74.7, 80.4] |                              | 32.6  | [29.4, 36.0] |                              | 59.0                               | [55.5, 62.5] |                              | 31.7                              | [28.5, 35.0] |                              |
| Some of the year                          | 82.0                                     | [76.7, 86.3] |                              | 48.0  | [41.6, 54.4] |                              | 68.7                               | [62.5, 74.3] |                              | 40.7                              | [34.5, 47.2] |                              |
| None of the year                          | 76.9                                     | [74.5, 79.1] |                              | 53.5  | [50.8, 56.1] |                              | 58.2                               | [55.6, 60.8] |                              | 44.1                              | [41.5, 46.7] |                              |
| <b>Help reading health materials</b>      |  |              | .066                         |   |              | .124                         |                                    |              | .638                         |                                   |              | .573                         |
| Sometimes/Often/Always                    | 73.5                                     | [68.8, 77.8] |                              | 42.6  | [37.9, 47.4] |                              | 60.5                               | [55.6, 65.2] |                              | 38.3                              | [33.7, 43.0] |                              |
| Never/Rarely                              | 77.9                                     | [76.0, 79.6] |                              | 46.7  | [44.6, 48.9] |                              | 59.3                               | [57.1, 61.4] |                              | 39.7                              | [37.7, 41.9] |                              |
| <b>Income, % of federal poverty level</b> |  |              | .369                         |   |              | .406                         |                                    |              | .917                         |                                   |              | .245                         |
| 0-35%                                     | 77.1                                     | [74.3, 79.7] |                              | 46.8  | [43.7, 49.9] |                              | 59.2                               | [56.0, 62.2] |                              | 40.0                              | [37.0, 43.1] |                              |
| 36-99%                                    | 78.5                                     | [75.9, 80.9] |                              | 46.3  | [43.2, 49.4] |                              | 59.9                               | [56.8, 63.0] |                              | 40.7                              | [37.7, 43.8] |                              |
| ≥ 100%                                    | 75.3                                     | [72.0, 78.3] |                              | 43.6  | [40.2, 47.2] |                              | 59.8                               | [56.2, 63.3] |                              | 36.6                              | [33.3, 40.0] |                              |

Weighted proportions of HMP enrollees' knowledge and use of dental coverage, by demographic and health characteristics.

<sup>1</sup> Awareness of HMP coverage of dental services, self-reported

<sup>2</sup> HMP enrollees reported improved access to dental care after enrollment (compared with Worse/Same)

<sup>3</sup> Dental care use based on claims data. See Appendix B for full definition.

<sup>4</sup> Improved health of teeth and gums reported by HMP enrollees

<sup>5</sup> Pearson's chi-squared test

**Table 10.2. Bivariate associations between awareness of HMP dental coverage and improved access to dental care, dental care use with HMP and improved oral health after HMP enrollment**

|  | Awareness HMP covers dental <sup>1</sup> |              |          |              | <i>p</i> -value <sup>2</sup> |
|--|--|--------------|----------|--------------|------------------------------|
|  | Yes                                      |              | No       |              |                              |
|  | Column %                                 | 95% CI       | Column % | 95% CI       |                              |
| <b>Access to dental care<sup>3</sup></b> |  |              |          |              | < .001                       |
| Better                                   | 55.3                                     | [53.0, 57.5] | 15.0     | [12.3, 18.3] |                              |
| Same/Worse/DK                            | 44.7                                     | [42.5, 47.0] | 85.0     | [81.7, 87.7] |                              |
| <b>Oral health<sup>4</sup></b>           |  |              |          |              | < .001                       |
| Better                                   | 47.3                                     | [45.1, 49.5] | 13.3     | [10.8, 16.2] |                              |
| Same/Worse/DK                            | 52.7                                     | [50.5, 54.9] | 86.7     | [83.8, 89.2] |                              |
| <b>Any dental visit<sup>5</sup></b>      |  |              |          |              | < .001                       |
| Yes                                      | 68.9                                     | [66.8, 70.9] | 27.8     | [24.2, 31.7] |                              |
| No                                       | 31.1                                     | [29.1, 33.2] | 72.2     | [68.3, 75.8] |                              |

Weighted proportions of dental care use and outcomes, by awareness of HMP dental coverage.

<sup>1</sup> Awareness of HMP coverage of dental services, self-reported

<sup>2</sup> Pearson's chi-squared test

<sup>3</sup> HMP enrollees reported improved access to dental care after enrollment (compared with Worse/Same)

<sup>4</sup> Dental care use based on claims data. See Appendix B for full definition.

<sup>5</sup> Improved health of teeth and gums reported by HMP enrollees

**Table 10.3. Bivariate associations between improved access to dental care with HMP, improved oral health and dental care use**

|  | Any dental visit <sup>1</sup> |              |       |              | <i>p</i> -value <sup>2</sup> |
|--|-------------------------------|--------------|-------|--------------|------------------------------|
|  | Yes                           |              | No    |              |                              |
|  | Row %                         | 95% CI       | Row % | 95% CI       |                              |
| <b>Access to dental care<sup>3</sup></b> |                               |              |       |              | < .001                       |
| Better                                   | 77.4                          | [74.7, 79.8] | 22.6  | [20.2, 25.3] |                              |
| Worse/Same/DK                            | 44.3                          | [41.6, 47.0] | 55.7  | [53.0, 58.4] |                              |
| <b>Oral health<sup>4</sup></b>           |                               |              |       |              | < .001                       |
| Better                                   | 85.2                          | [82.8, 87.3] | 14.8  | [12.7, 17.2] |                              |
| Worse/Same/DK                            | 42.8                          | [40.3, 45.4] | 57.2  | [54.6, 59.7] |                              |

Weighted proportions of dental care use by perceived access and improved oral health.

<sup>1</sup>Dental care use based on claims data. See Appendix B for full definition.

<sup>2</sup>Pearson's chi-squared test

<sup>3</sup>HMP enrollees reported improved access to dental care after enrollment (compared with Worse/Same)

<sup>4</sup>Improved health of teeth and gums reported by HMP enrollees

**Table 10.4. Bivariate associations between improved access to dental care with HMP, dental care use and improved oral health**

|  | Oral health <sup>1</sup> |              |       |              |                              |
|--|--------------------------|--------------|-------|--------------|------------------------------|
|  | Better                   |              | Worse |              | <i>p</i> -value <sup>2</sup> |
|  | Row %                    | 95% CI       | Row % | 95% CI       |                              |
| <b>Access to dental care<sup>3</sup></b> |                          |              |       |              | < .001                       |
| Better                                   | 67.9                     | [65.2, 70.6] | 32.1  | [29.4, 34.8] |                              |
| Worse/Same/DK                            | 15.4                     | [13.5, 17.6] | 84.6  | [82.4, 86.5] |                              |
| <b>Any dental visit<sup>4</sup></b>      |                          |              |       |              | < .001                       |
| Yes                                      | 56.5                     | [54.0, 59.0] | 43.5  | [41.0, 46.0] |                              |
| No                                       | 14.4                     | [12.4, 16.8] | 85.6  | [83.2, 87.5] |                              |

Weighted proportions of dental care use by perceived access and improved oral health.

1 Improved health of teeth and gums reported by HMP enrollees

2 Pearson's chi-squared test

3 HMP enrollees reported improved access to dental care after enrollment (compared with Worse/Same)

4 Dental care use based on claims data. See Appendix B for full definition.



**Table 10.5. Multivariate logistic regression analysis of the association between HMP enrollee characteristics and dental care use after HMP enrollment**

| Independent variables                             | Dependent variables <sup>1</sup>                     |              |         |  |              |         |
|---|--|--------------|---------|--|--------------|---------|
|   | Any dental visit <sup>2</sup><br>(Weighted N= 3,931) |              |         | Any dental visit <sup>2</sup><br>(Weighted N= 3,933) |              |         |
|   | aOR  | 95% CI       | p-value | aOR  | 95% CI       | p-value |
| <b>Awareness HMP covers dental<sup>3</sup></b>    |  |              |         |  |              |         |
| No  | Reference  |              |         | Reference  |              |         |
| Yes   | 5.89   | [4.72, 7.35] | < .001  |  |              |         |
| <b>Improved access to dental care<sup>3</sup></b> |  |              |         |  |              |         |
| No  | Reference  |              |         |  |              |         |
| Yes   | 4.71   | [3.87, 5.73] | < .001  |  |              |         |
| <b>Gender</b>                                     |  |              |         |  |              |         |
| Male  | Reference  |              |         | Reference  |              |         |
| Female  | 1.28   | [1.07, 1.55] | .008    | 1.21   | [1.01, 1.45] | .035    |
| <b>Age</b>  |  |              |         |  |              |         |
| 19-34   | Reference  |              |         | Reference  |              |         |
| 35-50   | 1.20   | [0.95, 1.50] | .118    | 1.25   | [1.00, 1.56] | .048    |
| 51-64   | 1.10   | [0.89, 1.36] | .398    | 1.09   | [0.88, 1.34] | .424    |
| <b>Race</b>                                       |  |              |         |  |              |         |
| White   | Reference  |              |         | Reference  |              |         |
| Black or African American                         | 0.88   | [0.70, 1.10] | .260    | 0.81   | [0.65, 1.02] | .078    |
| Hispanic/Latino                                   | 0.76   | [0.42, 1.40] | .380    | 0.86   | [0.50, 1.49] | .599    |
| Other   | 0.94   | [0.71, 1.26] | .697    | 0.99   | [0.76, 1.30] | .967    |
| <b>Income, % of federal poverty level</b>         |  |              |         |  |              |         |
| 0-35%   | Reference  |              |         | Reference  |              |         |
| 36-99%  | 0.96   | [0.77, 1.20] | .747    | 0.96   | [0.76, 1.20] | .735    |
| ≥ 100%  | 0.98   | [0.77, 1.24] | .842    | 1.00   | [0.79, 1.26] | .980    |
| <b>Employment status</b>                          |  |              |         |  |              |         |
| Employed/self-employed                            | Reference  |              |         | Reference  |              |         |
| Not employed                                      | 1.06   | [0.87, 1.30] | .560    | 1.02   | [0.84, 1.24] | .870    |
| <b>Insurance duration prior to HMP</b>            |  |              |         |  |              |         |
| All of the year                                   | Reference  |              |         | Reference  |              |         |
| Some of the year                                  | 1.23   | [0.88, 1.73] | .216    | 1.50   | [1.09, 2.07] | .013    |
| None of the year                                  | 0.70   | [0.56, 0.87] | .001    | 1.01   | [0.83, 1.23] | .941    |
| <b>Constant</b>                                   | 0.77   | [0.56, 1.06] | .104    | 0.31   | [0.22, 0.44] | < .001  |

aOR = adjusted odds ratio; CI = confidence interval; HMP = Healthy Michigan Plan

<sup>1</sup> Each column represents a different multivariable logistic regression model, adjusted for age, gender, race, income, employment status, insurance duration in the 12 months before HMP enrollment

<sup>2</sup> Dental care use based on claims data. See Appendix B for full definition.

<sup>3</sup> HMP enrollees reported improved access to dental care after enrollment (compared with Worse/Same)

**Table 10.6. Multivariate logistic regression analysis of the associations between HMP enrollee characteristics, dental care use, improved oral health and employment-related outcomes**

|   | Dependent variables <sup>1</sup>              |               |         |   |              |         |  |              |         |  |               |         |
|---|---|---------------|---------|---|--------------|---------|--|--------------|---------|--|---------------|---------|
|   | Model 1<br>Improved oral health<br>(N= 3,930) |               |         | Model 2a<br>Better job at work <sup>2</sup><br>(N= 2,006) |              |         | Model 2b<br>Better able to look for job <sup>3</sup><br>(N= 919) |              |         | Model 2c<br>Helped get a better job <sup>4</sup><br>(N= 433) |               |         |
| Independent variables                     | aOR   | 95% CI        | p-value | aOR   | 95% CI       | p-value | aOR  | 95% CI       | p-value | aOR  | 95% CI        | p-value |
| <b>Any dental visit</b>                   |   |               |         |   |              |         |  |              |         |  |               |         |
| No  | Reference                                     |               |         |   |              |         |  |              |         |  |               |         |
| Yes                                       | 8.25  | [6.65, 10.24] | < .001  |   |              |         |  |              |         |  |               |         |
| <b>Improved oral health</b>               |   |               |         |   |              |         |  |              |         |  |               |         |
| No  |   |               |         | Reference   |              |         | Reference  |              |         | Reference  |               |         |
| Yes                                       |   |               |         | 1.62  | [1.25, 2.12] | < .001  | 1.49   | [1.06, 2.10] | .022    | 1.60   | [0.93, 2.75]  | .092    |
| <b>Gender</b>                             |   |               |         |   |              |         |  |              |         |  |               |         |
| Male                                      | Reference                                     |               |         | Reference   |              |         | Reference  |              |         | Reference  |               |         |
| Female                                    | 1.12  | [0.92, 1.35]  | .249    | 1.42  | [1.11, 1.82] | .005    | 0.81   | [0.57, 1.14] | .223    | 0.78   | [0.45, 1.35]  | .380    |
| <b>Age</b>                                |   |               |         |   |              |         |  |              |         |  |               |         |
| 19-34                                     | Reference                                     |               |         | Reference   |              |         | Reference  |              |         | Reference  |               |         |
| 35-50                                     | 0.90  | [0.72, 1.13]  | .381    | 1.04  | [0.78, 1.38] | .799    | 1.25   | [0.83, 1.88] | .288    | 0.87   | [0.48, 1.60]  | .662    |
| 51-64                                     | 0.99  | [0.79, 1.23]  | .905    | 1.28  | [0.96, 1.71] | .097    | 1.69   | [1.12, 2.54] | .012    | 1.33   | [0.68, 2.62]  | .406    |
| <b>Race</b>                               |   |               |         |   |              |         |  |              |         |  |               |         |
| White                                     | Reference                                     |               |         | Reference   |              |         | Reference  |              |         | Reference  |               |         |
| Black or African American                 | 1.61  | [1.28, 2.03]  | < .001  | 1.51  | [1.09, 2.10] | .013    | 0.85   | [0.58, 1.25] | .409    | 1.41   | [0.74, 2.66]  | .295    |
| Hispanic/Latino                           | 0.65  | [0.35, 1.22]  | .179    | 1.56  | [0.68, 3.56] | .291    | 0.54   | [0.16, 1.82] | .323    | 2.75   | [0.68, 11.10] | .154    |
| Other                                     | 1.09  | [0.81, 1.46]  | .565    | 1.31  | [0.87, 1.97] | .203    | 1.02   | [0.59, 1.75] | .955    | 1.26   | [0.60, 2.61]  | .542    |
| <b>Income, % of federal poverty level</b> |   |               |         |   |              |         |  |              |         |  |               |         |
| 0-35%                                     | Reference                                     |               |         | Reference   |              |         | Reference  |              |         | Reference  |               |         |
| 36-99%                                    | 1.11  | [0.89, 1.38]  | .349    | 0.77  | [0.55, 1.07] | .124    | 0.86   | [0.57, 1.30] | .471    | 0.89   | [0.48, 1.63]  | .703    |
| ≥ 100%                                    | 0.90  | [0.711, 1.15] | .405    | 0.65  | [0.46, 0.91] | .011    | 0.75   | [0.42, 1.32] | .315    | 0.53   | [0.27, 1.03]  | .059    |
| <b>Employment status</b>                  |   |               |         |   |              |         |  |              |         |  |               |         |
| Employed/self-employed                    | Reference                                     |               |         |   |              |         |  |              |         |  |               |         |
| Not employed                              | 0.93  | [0.76, 1.13]  | .483    |   |              |         |  |              |         |  |               |         |
| <b>Insurance duration prior to HMP</b>    |   |               |         |   |              |         |  |              |         |  |               |         |
| All of the year                           | Reference                                     |               |         | Reference   |              |         | Reference  |              |         | Reference  |               |         |
| Some of the year                          | 1.28  | [0.92, 1.78]  | .137    | 1.58  | [1.00, 2.50] | .049    | 0.74   | [0.57, 1.30] | .471    | 1.64   | [0.65, 4.16]  | .297    |
| None of the year                          | 1.96  | [1.58, 2.43]  | < .001  | 1.18  | [0.89, 1.56] | .247    | 1.06   | [0.42, 1.32] | .315    | 2.39   | [1.29, 4.44]  | .006    |
| <b>Constant</b>                           | 0.09  | [0.06, 0.14]  | < .001  | 1.41  | [0.92, 2.18] | .113    | 0.99   | [0.60, 1.62] | .955    | 0.33   | [0.15, 0.73]  | .006    |

aOR = adjusted odds ratio; CI = confidence interval; HMP = Healthy Michigan Plan

<sup>1</sup>Each column represents a different multivariable logistic regression model, adjusted for age, gender, race, income, employment status, insurance duration in the 12 months before HMP enrollment

<sup>2</sup>Employed enrollees who responded “Yes” to the question, “Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work?”

<sup>3</sup>Out of work enrollees who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan has made me better able to look for a job.”

<sup>4</sup>Enrollees with a recent job change who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan helped me get a better job.”

**Table 10.7. Bivariate association between improved access to dental care, dental care use after HMP enrollment, improved oral health and job-related outcomes**

|  | Better job at work <sup>1</sup> |              |        |             |                              | HMP helped me look for a job <sup>2</sup> |              |                                    |             |                              | HMP helped me get a better job <sup>3</sup> |              |                                    |              |                              |
|--|---------------------------------|--------------|--------|-------------|------------------------------|---|--------------|------------------------------------|-------------|------------------------------|---|--------------|------------------------------------|--------------|------------------------------|
|  | Yes                             |              | No     |             | <i>p</i> -value <sup>4</sup> | Agree/Strongly agree                      |              | Neutral/Disagree/Strongly disagree |             | <i>p</i> -value <sup>4</sup> | Agree/Strongly agree                        |              | Neutral/Disagree/Strongly disagree |              | <i>p</i> -value <sup>4</sup> |
| Row %                                    | 95% CI                          | Row %        | 95% CI | Row %       |                              | 95% CI                                    | Row %        | 95% CI                             | Row %       |                              | 95% CI                                      | Row %        | 95% CI                             | Row %        |                              |
| <b>Access to dental care<sup>5</sup></b> |                                 |              |        |             | < .001                       |   |              |                                    |             | .002                         |   |              |                                    |              | < .001                       |
| Better                                   | 76.8                            | [73.2, 80.0] | 23.2   | [20.0,26.8] |                              | 61.5                                      | [55.7, 67.0] | 38.5                               | [33.0,44.3] |                              | 51.2  | [42.0, 60.4] | 48.8                               | [39.6, 58.0] |                              |
| Worse/Same/DK                            | 62.6                            | [58.8, 66.1] | 37.4   | [33.9,41.2] |                              | 48.8                                      | [43.1, 54.5] | 51.2                               | [45.5,56.9] |                              | 24.5  | [18.2, 32.2] | 75.5                               | [67.8, 81.8] |                              |
| <b>Any dental visit<sup>6</sup></b>      |                                 |              |        |             | .114                         |   |              |                                    |             | .988                         |   |              |                                    |              | < .001                       |
| Yes                                      | 71.0                            | [67.7, 74.2] | 29.0   | [25.8,32.3] |                              | 54.5                                      | [49.3, 59.6] | 45.5                               | [40.4,50.7] |                              | 39.0  | [31.4, 47.2] | 61.0                               | [52.8, 68.6] |                              |
| No                                       | 66.9                            | [62.8, 70.8] | 33.1   | [29.2,37.3] |                              | 54.6                                      | [48.0, 61.0] | 45.4                               | [39.0,52.0] |                              | 34.1  | [25.2, 44.3] | 65.9                               | [55.7, 74.8] |                              |
| <b>Oral health<sup>7</sup></b>           |                                 |              |        |             | < .001                       |   |              |                                    |             | .038                         |   |              |                                    |              | .111                         |
| Better                                   | 76.1                            | [72.1, 79.7] | 23.9   | [20.3,27.9] |                              | 59.9                                      | [53.5, 66.1] | 40.1                               | [33.9,46.5] |                              | 43.2  | [33.7, 53.2] | 56.8                               | [46.8, 66.3] |                              |
| Worse/Same/DK                            | 65.0                            | [61.6, 68.2] | 35.0   | [31.8,38.4] |                              | 51.1                                      | [45.8, 56.4] | 48.9                               | [43.6,54.2] |                              | 33.0  | [25.7, 41.2] | 67.0                               | [58.8, 74.3] |                              |

Weighted proportions of employment outcomes by dental care use, perceived access, and improved oral health.

<sup>1</sup>Employed enrollees who responded “Yes” to the question, “Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work?”

<sup>2</sup>Out of work enrollees who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan has made me better able to look for a job.”

<sup>3</sup>Enrollees with a recent job change who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan helped me get a better job.”

<sup>4</sup>Pearson's chi-squared test

<sup>5</sup>HMP enrollees reported improved access to dental care after enrollment (compared with Worse/Same).

<sup>6</sup>Dental care use based on claims data. See Appendix B for full definition.

<sup>7</sup>Improved health of teeth and gums reported by HMP enrollees.

## Section 11: Impact of HMP on reproductive health services

Table 11.1. Demographic and health characteristics of female respondents ages 19-44

|   | %    | [95% CI]     |
|---|------|--------------|
| <b>Age (n=1,166)</b>                                |      |              |
| 19-24   | 23.8 | [20.8, 27.1] |
| 25-34   | 44.4 | [40.9, 47.9] |
| 35-44   | 31.8 | [28.6, 35.2] |
| <b>Race/ethnicity (n=1,160)</b>                     |      |              |
| White, non-Hispanic                                 | 59.9 | [56.4, 63.4] |
| Black, non-Hispanic                                 | 24.6 | [21.5, 27.9] |
| Hispanic/Latino                                     | 2.2  | [1.4, 3.3]   |
| Other   | 13.4 | [11.1, 16.0] |
| <b>Income, % of federal poverty level (n=1,166)</b> |      |              |
| 0-35%   | 40.2 | [36.8, 43.6] |
| 36-99%  | 34.5 | [31.8, 37.3] |
| ≥ 100%  | 25.3 | [23.1, 27.8] |
| <b>Married or partnered (n=1,164)</b>               |      |              |
| Yes   | 23.7 | [21.2, 26.4] |
| No  | 76.3 | [73.6, 78.8] |
| <b>Urbanicity (n=1,166)</b>                         |      |              |
| Rural   | 17.7 | [15.7, 19.9] |
| Urban   | 82.3 | [80.1, 84.3] |
| <b>Health status (n=1,166)</b>                      |      |              |
| Excellent, very good, or good health                | 76.5 | [73.4, 79.4] |
| Fair or poor health                                 | 23.5 | [20.6, 26.6] |
| <b>Any chronic disease (n=1,666)</b>                |      |              |
| Yes   | 64   | [60.5, 67.3] |
| No  | 36   | [32.7, 39.5] |
| <b>Insurance duration prior to HMP (n=1,131)</b>    |      |              |
| Insured all 12 months                               | 37.7 | [34.2, 41.2] |
| Insured some of year                                | 12.4 | [10.1, 15.1] |
| Uninsured all 12 months                             | 50   | [46.4, 53.6] |
| <b>Saw PCP in past 12 months (n=1,091)</b>          |      |              |
| Yes   | 85.9 | [83.1, 88.2] |
| No  | 14.1 | [11.8, 16.9] |

Weighted proportions of demographic and health characteristics of female HMP enrollees between the ages of 19 and 44.

**Table 11.2. Perceived change in access to health care services after HMP enrollment among female respondents ages 19-44**

| <b>Would you say that your ability to get [listed service] through the Healthy Michigan Plan is better, worse, or about the same, compared to before? You can also say if you don't know, or if that type of care doesn't apply to you.</b> |               |               |                              |               |
|---|---------------|---------------|------------------------------|---------------|
|   | <b>Better</b> |               | <b>Same/Worse/Don't know</b> |               |
|   | <b>%</b>      | <b>95% CI</b> | <b>%</b>                     | <b>95% CI</b> |
| <b>Birth control/family planning (n=1,164)</b>  | 35.5          | [32.2, 39.0]  | 64.5                         | [61.0, 67.8]  |
| <b>Primary care (n=1,165)</b>   | 53.8          | [50.3, 57.4]  | 46.2                         | [42.6, 49.7]  |
| <b>Specialty care (n=1,165)</b>   | 43.0          | [39.5, 46.5]  | 57.0                         | [53.5, 60.5]  |
| <b>Dental care (n=1,165)</b>  | 49.4          | [45.9, 53.0]  | 50.6                         | [47.0, 54.1]  |
| <b>Mental health services (n=1,164)</b>   | 30.6          | [27.4, 34.0]  | 69.4                         | [66.0, 72.6]  |
| <b>Substance abuse treatment (n=1,164)</b>  | 9.0           | [7.0, 11.5]   | 91.0                         | [88.5, 93.0]  |
| <b>Prescription medications (n=1,165)</b>   | 60.6          | [57.1, 64.0]  | 39.4                         | [36.0, 42.9]  |
| <b>Cancer screenings (n=1,165)</b>  | 22.8          | [20.0, 26.0]  | 77.2                         | [74.0, 80.0]  |
| <b>Preventive care (n=1,165)</b>  | 48.8          | [45.3, 52.4]  | 51.2                         | [47.6, 54.7]  |

Weighted proportions of perceptions of access changes since HMP enrollment among female HMP enrollees between the ages of 19 and 44.

**Table 11.3. Bivariate relationship between enrollee characteristics and perceived access to birth control/family planning services, among female respondents ages 19-44**

| Respondent Characteristic                    | Better |              | Worse |            | About the same |              | Don't know |              | p-value <sup>1</sup> |
|--|--------|--------------|-------|------------|----------------|--------------|------------|--------------|----------------------|
|  | Row %  | 95% CI       | Row % | 95% CI     | Row %          | 95% CI       | Row %      | 95% CI       |                      |
| <b>Age</b>                                   |        |              |       |            |                |              |            |              |                      |
| 19-24 (n=244)                                | 39.8   | [32.7, 47.4] | 1.1   | [0.3, 3.7] | 26.7           | [20.3, 34.2] | 32.4       | [25.4, 40.3] | < .001               |
| 25-34 (n=509)                                | 41.4   | [36.3, 46.8] | 2.3   | [1.1, 4.6] | 27.1           | [22.9, 31.7] | 29.2       | [24.5, 34.4] |                      |
| 35-44 (n=411)                                | 24.1   | [19.4, 29.6] | 0.3   | [0.0, 2.4] | 20.2           | [15.4, 26.0] | 55.3       | [49.1, 61.3] |                      |
| Total (n=1,164)                              | 35.5   | [32.2, 39.0] | 1.4   | [0.8, 2.5] | 24.8           | [21.9, 28.0] | 38.3       | [34.9, 41.8] |                      |
| <b>Race/ethnicity</b>                        |        |              |       |            |                |              |            |              |                      |
| White, non-Hispanic (n=746)                  | 34.1   | [30.0, 38.4] | 1.9   | [1.0, 3.7] | 22.9           | [19.4, 26.8] | 41.1       | [36.7, 45.6] | .291                 |
| Black, non-Hispanic (n=249)                  | 35.3   | [28.2, 43.1] | 0.5   | [0.1, 3.1] | 29.7           | [23.2, 37.0] | 34.6       | [27.7, 42.2] |                      |
| Hispanic/Latino (n=24)                       | 46.3   | [26.5, 67.3] | -     |            | 25.2           | [11.1, 47.8] | 28.5       | [12.8, 51.9] |                      |
| Other (n=139)                                | 42.5   | [33.2, 52.4] | 0.9   | [0.1, 6.3] | 25.3           | [17.3, 35.4] | 31.3       | [22.8, 41.1] |                      |
| Total (n=1,158)                              | 35.8   | [32.4, 39.3] | 1.4   | [0.8, 2.5] | 24.9           | [22.0, 28.2] | 37.9       | [34.5, 41.5] |                      |
| <b>Income, % of federal poverty level</b>    |        |              |       |            |                |              |            |              |                      |
| 0-35% (n=311)                                | 34.8   | [28.7, 41.4] | 1.9   | [0.8, 4.7] | 21.4           | [16.1, 27.7] | 41.9       | [35.3, 48.8] | .272                 |
| 36-99% (n=488)                               | 37     | [32.1, 42.3] | 0.5   | [0.2, 1.8] | 26.3           | [22.1, 30.9] | 36.2       | [31.5, 41.2] |                      |
| ≥ 100% (n=365)                               | 34.7   | [29.4, 40.4] | 1.7   | [0.7, 4.1] | 28.2           | [23.3, 33.6] | 35.5       | [30.2, 41.1] |                      |
| Total (n=1,164)                              | 35.5   | [32.2, 39.0] | 1.4   | [0.8, 2.5] | 24.8           | [21.9, 28.0] | 38.3       | [34.9, 41.8] |                      |
| <b>Married or partnered</b>                  |        |              |       |            |                |              |            |              |                      |
| Yes (n=336)                                  | 34.2   | [28.6, 40.2] | 1.1   | [0.4, 2.9] | 25.3           | [20.4, 31.0] | 39.5       | [33.9, 45.4] | .893                 |
| No (n=826)                                   | 36.1   | [32.1, 40.3] | 1.5   | [0.7, 3.0] | 24.7           | [21.2, 28.6] | 37.7       | [33.6, 42.0] |                      |
| Total (n=1,162)                              | 35.6   | [32.3, 39.1] | 1.4   | [0.8, 2.5] | 24.8           | [21.9, 28.0] | 38.2       | [34.7, 41.7] |                      |
| <b>Urbanicity</b>                            |        |              |       |            |                |              |            |              |                      |
| Rural (n=299)                                | 35.6   | [29.7, 41.9] | 1.6   | [0.5, 4.5] | 28.6           | [23.1, 34.7] | 34.3       | [28.6, 40.6] | .494                 |
| Urban (n=865)                                | 35.5   | [31.7, 39.6] | 1.3   | [0.7, 2.7] | 24             | [20.6, 27.7] | 39.2       | [35.2, 43.3] |                      |
| Total (n=1,164)                              | 35.5   | [32.2, 39.0] | 1.4   | [0.8, 2.5] | 24.8           | [21.9, 28.0] | 38.3       | [34.9, 41.8] |                      |
| <b>Health status</b>                         |        |              |       |            |                |              |            |              |                      |
| Excellent, very good, or good health (n=902) | 35.3   | [31.6, 39.3] | 1.0   | [0.5, 1.9] | 26.4           | [23.0, 30.2] | 37.3       | [33.4, 41.4] | .115                 |
| Fair or poor health (n=262)                  | 36.2   | [29.2, 43.9] | 2.7   | [0.9, 7.3] | 19.5           | [14.4, 25.9] | 41.6       | [34.6, 48.9] |                      |
| Total (n=1,164)                              | 35.5   | [32.2, 39.0] | 1.4   | [0.8, 2.5] | 24.8           | [21.9, 28.0] | 38.3       | [34.9, 41.8] |                      |
| <b>Any chronic disease</b>                   |        |              |       |            |                |              |            |              |                      |
| Yes (n=754)                                  | 35.5   | [31.3, 40.0] | 1.7   | [0.8, 3.3] | 22.3           | [18.8, 26.2] | 40.5       | [36.2, 45.0] | .094                 |
| No (n=410)                                   | 35.6   | [30.3, 41.2] | 0.9   | [0.3, 2.7] | 29.3           | [24.2, 34.9] | 34.3       | [28.9, 40.1] |                      |
| Total (n=1,164)                              | 35.5   | [32.2, 39.0] | 1.4   | [0.8, 2.5] | 24.8           | [21.9, 28.0] | 38.3       | [34.9, 41.8] |                      |
| <b>Insurance status prior to HMP</b>         |        |              |       |            |                |              |            |              |                      |
| Insured all 12 months (n=434)                | 27.5   | [22.3, 33.2] | 2.5   | [1.1, 5.5] | 35.3           | [30.2, 40.9] | 34.7       | [29.4, 40.3] | < .001               |
| Insured some of year (n=127)                 | 33.8   | [24.4, 44.7] | 1.0   | [0.1, 6.5] | 21.9           | [14.5, 31.8] | 43.3       | [33.0, 54.2] |                      |
| Uninsured all 12 months (n=568)              | 42.6   | [37.7, 47.6] | 0.5   | [0.2, 1.3] | 18             | [14.1, 22.6] | 38.9       | [34.0, 44.1] |                      |
| Total (n=1,129)                              | 35.8   | [32.4, 39.3] | 1.3   | [0.7, 2.5] | 25             | [22.0, 28.3] | 37.8       | [34.4, 41.4] |                      |
| <b>Saw PCP in past 12 months</b>             |        |              |       |            |                |              |            |              |                      |
| Yes (n=943)                                  | 36.8   | [33.1, 40.8] | 1.2   | [0.6, 2.3] | 24.8           | [21.5, 28.4] | 37.1       | [33.3, 41.1] | .178                 |
| No (n=146)                                   | 27.6   | [19.9, 36.7] | 1.2   | [0.3, 5.2] | 24.3           | [17.4, 33.0] | 46.9       | [37.5, 56.6] |                      |
| Total (n=1,089)                              | 35.5   | [32.1, 39.1] | 1.2   | [0.7, 2.1] | 24.8           | [21.7, 28.1] | 38.5       | [35.0, 42.2] |                      |

<sup>1</sup> Pearson's chi-squared test

**Table 11.4. Bivariate and multivariate association between enrollee characteristics and perceived change in access to birth control/family planning services, among female respondents ages 19-44**

| Independent Variables                            | Reported Improved Access to Family Planning |              | Odds Ratio Adjusted Multivariable |              |
|--|---|--------------|-----------------------------------|--------------|
|  | %   | [95% CI]     | aOR                               | 95% CI       |
| <b>Age<sup>1</sup></b>                           |   |              |                                   |              |
| 19-24 (n=244)                                    | 39.8  | [32.7, 47.4] | 2.80                              | [1.75, 4.50] |
| 25-34 (n=509)                                    | 41.4  | [36.3, 46.8] | 2.35                              | [1.6, 3.45]  |
| 35-44 (n=411)                                    | 24.1  | [19.4, 29.6] | Reference                         |              |
| Total (n=1,164)                                  | 35.5  | [32.2, 39.0] |                                   |              |
| <b>Race/ethnicity</b>                            |   |              |                                   |              |
| White, non-Hispanic (n=746)                      | 34.1  | [30.0, 38.4] | Reference                         |              |
| Black, non-Hispanic (n=249)                      | 35.3  | [28.2, 43.1] | 1.11                              | [0.71, 1.73] |
| Hispanic/Latino (n=24)                           | 46.3  | [26.5, 67.3] | 1.39                              | [0.55, 3.49] |
| Other (n=139)                                    | 42.5  | [33.2, 52.4] | 1.38                              | [0.84, 2.28] |
| Total (n=1,158)                                  | 35.8  | [32.4, 39.3] |                                   |              |
| <b>Income, % of federal poverty level</b>        |   |              |                                   |              |
| 0-35% (n=311)                                    | 34.8  | [28.7, 41.4] | Reference                         |              |
| 36-99% (n=488)                                   | 37.0  | [32.1, 42.3] | 1.20                              | [0.80, 1.80] |
| ≥ 100% (n=365)                                   | 34.7  | [29.4, 40.4] | 1.13                              | [0.74, 1.72] |
| Total (n=1,164)                                  | 35.5  | [32.2, 39.0] |                                   |              |
| <b>Married or Partnered</b>                      |   |              |                                   |              |
| Yes (n=336)                                      | 34.2  | [28.6, 40.2] | Reference                         |              |
| No (n=826)                                       | 36.1  | [32.1, 40.3] | 1.00                              | [0.70, 1.42] |
| Total (n=1,162)                                  | 35.6  | [32.3, 39.1] |                                   |              |
| <b>Urbanicity</b>                                |   |              |                                   |              |
| Rural (n=299)                                    | 35.6  | [29.7, 41.9] | Reference                         |              |
| Urban (n=865)                                    | 35.5  | [31.7, 39.6] | 1.03                              | [0.71, 1.49] |
| Total (n=1,164)                                  | 35.5  | [32.2, 39.0] |                                   |              |
| <b>Health status</b>                             |   |              |                                   |              |
| Excellent, very good, or good health (n=902)     | 35.3  | [31.6, 39.3] | Reference                         |              |
| Fair or poor health (n=262)                      | 36.2  | [29.2, 43.9] | 1.09                              | [0.72, 1.65] |
| Total (n=1,164)                                  | 35.5  | [32.2, 39.0] |                                   |              |
| <b>Any chronic disease</b>                       |   |              |                                   |              |
| Yes (n=754)                                      | 35.5  | [31.3, 40.0] | Reference                         |              |
| No (n=410)                                       | 35.6  | [30.3, 41.2] | 1.19                              | [0.82, 1.72] |
| Total (n=1,164)                                  | 35.5  | [32.2, 39.0] |                                   |              |
| <b>Insurance status prior to HMP<sup>1</sup></b> |   |              |                                   |              |
| Insured all 12 months (n=434)                    | 27.5  | [22.3, 33.2] | Reference                         |              |
| Insured some of year (n=127)                     | 33.8  | [24.4, 44.7] | 1.29                              | [0.74, 2.25] |
| Uninsured all 12 months (n=568)                  | 42.6  | [37.7, 47.6] | 2.02                              | [1.41, 2.89] |
| Total (n=1,129)                                  | 35.8  | [32.4, 39.3] |                                   |              |

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| <b>Saw PCP in past 12 Months<sup>2</sup></b> |      |              |           |              |
|--|------|--------------|-----------|--------------|
| Yes (n=943)                                  | 36.8 | [33.1, 40.8] | Reference |              |
| No (n=146)                                   | 27.6 | [19.9, 36.7] | 1.69      | [1.03, 2.76] |
| Total (n=1,089)                              | 35.5 | [32.1, 39.1] |           |              |

Bivariate relationship between respondent characteristics and perceptions of improved family planning services, and multivariate logistic regression predicting improved family planning, among female respondents ages 19-44.

<sup>1</sup> Pearson's chi-squared test  $p \leq 0.001$

<sup>2</sup> Pearson's chi-squared test  $p = 0.06$



## Section 12: Impact of HMP on employment, education and ability to work

**Table 12.1. Demographic and health characteristics for HMP enrollees who are out of work or unable to work**

| Respondent Characteristics                | Out of work<br>(Weighted N=104,534) |              | Unable to work<br>(Weighted N=42,720) |              | Employed<br>(Weighted N=185,435) |              | p-value <sup>1</sup> | Total<br>(Weighted N=379,627) |              |
|---|-------------------------------------|--------------|---------------------------------------|--------------|----------------------------------|--------------|----------------------|-------------------------------|--------------|
|   | %                                   | [95% CI]     | %                                     | [95% CI]     | %                                | [95% CI]     |                      | %                             | [95% CI]     |
| <b>Age</b>                                |                                     |              |                                       |              |                                  |              |                      |                               |              |
| 19-34                                     | 34.8                                | [30.9, 38.9] | 14.8                                  | [10.6, 20.2] | 45.8                             | [43.0, 48.6] | < .001               | 39.9                          | [37.9, 41.9] |
| 35-50                                     | 37.7                                | [33.8, 41.8] | 43.1                                  | [37.6, 48.8] | 34.2                             | [31.6, 36.8] |                      | 34.0                          | [32.2, 36.0] |
| 51-64                                     | 27.5                                | [24.4, 30.8] | 42.1                                  | [36.8, 47.5] | 20.0                             | [18.3, 21.9] |                      | 26.1                          | [24.6, 27.6] |
| <b>Male</b>                               | 57.2                                | [53.3, 61.1] | 53.9                                  | [48.3, 59.4] | 45.5                             | [42.7, 48.3] | < .001               | 48.4                          | [46.5, 50.4] |
| <b>Race</b>                               |                                     |              |                                       |              |                                  |              |                      |                               |              |
| White                                     | 55.2                                | [51.1, 59.2] | 70.3                                  | [64.7, 75.4] | 62.2                             | [59.5, 64.9] | < .001               | 61.3                          | [59.4, 63.2] |
| Black or African American                 | 34.4                                | [30.6, 38.5] | 21.9                                  | [17.3, 27.3] | 24.2                             | [21.8, 26.8] |                      | 25.9                          | [24.2, 27.7] |
| Other                                     | 5.9                                 | [4.4, 7.9]   | 4.3                                   | [2.5, 7.3]   | 9.4                              | [7.9, 11.2]  |                      | 8.8                           | [7.7, 10.0]  |
| More than one                             | 4.4                                 | [3.0, 6.5]   | 3.6                                   | [2.1, 6.1]   | 4.1                              | [3.1, 5.5]   |                      | 4.0                           | [3.3, 4.9]   |
| <b>Ethnicity</b>                          |                                     |              |                                       |              |                                  |              |                      |                               |              |
| Hispanic/Latino                           | 4.6                                 | [3.1, 6.6]   | 3.3                                   | [1.8, 6.0]   | 6.1                              | [4.9, 7.6]   | .429                 | 5.2                           | [4.4, 6.2]   |
| Arab/Chaldean/Middle Eastern              | 2.7                                 | [1.7, 4.1]   | 1.2                                   | [0.3, 4.8]   | 7.3                              | [5.9, 9.0]   | < .001               | 6.2                           | [5.3, 7.2]   |
| <b>Income, % of federal poverty level</b> |                                     |              |                                       |              |                                  |              |                      |                               |              |
| 0-35%                                     | 79.1                                | [76.5, 81.5] | 73.8                                  | [69.4, 77.8] | 33.7                             | [31.3, 36.3] | < .001               | 51.7                          | [50.7, 52.7] |
| 36-99%                                    | 15.0                                | [12.9, 17.3] | 13.9                                  | [10.9, 17.6] | 38.1                             | [36.1, 40.1] |                      | 28.5                          | [27.6, 29.3] |
| ≥ 100%                                    | 5.9                                 | [4.7, 7.4]   | 12.2                                  | [9.6, 15.4]  | 28.1                             | [26.5, 29.8] |                      | 19.8                          | [19.2, 20.5] |
| <b>Veteran</b>                            | 3.9                                 | [2.6, 5.8]   | 5.9                                   | [3.7, 9.2]   | 2.3                              | [1.6, 3.3]   | .001                 | 3.4                           | [2.7, 4.2]   |
| <b>Health status</b>                      |                                     |              |                                       |              |                                  |              |                      |                               |              |
| Excellent, very good, or good             | 66.1                                | [62.3, 69.6] | 26.2                                  | [21.5, 31.5] | 80.3                             | [78.1, 82.4] | < .001               | 70.1                          | [68.4, 71.9] |
| Fair or poor                              | 33.7                                | [30.1, 37.4] | 73.4                                  | [68.1, 78.1] | 19.6                             | [17.5, 21.9] |                      | 29.7                          | [28.0, 31.5] |
| <b>Any chronic disease</b>                | 74.0                                | [69.9, 77.6] | 94.0                                  | [90.6, 96.2] | 62.3                             | [59.5, 65.0] | < .001               | 69.2                          | [67.3, 71.0] |
| <b>Physical health condition</b>          | 65.1                                | [60.9, 69.0] | 87.5                                  | [82.6, 91.2] | 53.8                             | [51.0, 56.6] | < .001               | 60.8                          | [58.8, 62.8] |
| Diabetes                                  | 11.4                                | [9.3, 13.9]  | 22.3                                  | [17.9, 27.4] | 8.8                              | [7.5, 10.4]  | < .001               | 10.8                          | [9.7, 12.1]  |
| Hypertension                              | 37.6                                | [33.8, 41.5] | 54.2                                  | [48.5, 59.8] | 24.9                             | [22.7, 27.3] | < .001               | 31.3                          | [29.6, 33.1] |
| Cardiovascular disease                    | 10.4                                | [8.2, 13.2]  | 22.9                                  | [18.3, 28.2] | 7.1                              | [5.9, 8.6]   | < .001               | 9.8                           | [8.7, 11.0]  |
| Asthma                                    | 16.1                                | [13.5, 19.1] | 26.6                                  | [21.9, 31.9] | 14.7                             | [12.9, 16.6] | < .001               | 17.1                          | [15.7, 18.6] |
| COPD                                      | 11.2                                | [9.2, 13.6]  | 23.7                                  | [19.3, 28.8] | 7.6                              | [6.2, 9.1]   | < .001               | 10.5                          | [9.5, 11.7]  |
| Cancer                                    | 2.7                                 | [1.8, 4.1]   | 10.2                                  | [7.4, 14.0]  | 2.8                              | [2.1, 3.6]   | < .001               | 3.7                           | [3.2, 4.4]   |
| <b>Mental health condition</b>            | 35.3                                | [31.7, 39.1] | 61.7                                  | [56.1, 66.9] | 25.2                             | [22.9, 27.7] | < .001               | 32.2                          | [30.4, 34.0] |
| Mood disorder                             | 33.7                                | [30.1, 37.4] | 59.6                                  | [54.1, 65.0] | 23.5                             | [21.2, 25.9] | < .001               | 30.5                          | [28.7, 32.3] |
| Other                                     | 0.2                                 | [0.0, 1.1]   | 1.2                                   | [0.5, 2.8]   | 0.8                              | [0.4, 1.8]   | .008                 | 0.8                           | [0.4, 1.3]   |

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| Days physical or mental health poor<br>(≥14 of past 30 days) |      |              |      |              |      |              |        |      |              |
|--|------|--------------|------|--------------|------|--------------|--------|------|--------------|
| Physical   | 24.4 | [21.2, 27.9] | 68.8 | [63.2, 73.8] | 13.3 | [11.6, 15.3] | < .001 | 22.9 | [21.3, 24.5] |
| Mental   | 25.0 | [21.7, 28.7] | 48.4 | [42.7, 54.1] | 11.6 | [10.1, 13.4] | < .001 | 19.9 | [18.3, 21.5] |

Weighted proportions of employment outcomes by demographic and health characteristics of HMP enrollees.

<sup>1</sup>*p*-value generated from  $\chi^2$  analyses that included all categories of employment, including employed/self-employed, out of work, unable to work, homemaker, student, and retired.

**Table 12.2. Multivariate association between HMP enrollee demographic and health characteristics and being out of work or unable to work**

| Independent variables   | Dependent variables |              |                 |                |              |                 |
|---|---------------------|--------------|-----------------|----------------|--------------|-----------------|
|   | Out of work         |              |                 | Unable to work |              |                 |
|   | aOR                 | [95% CI]     | <i>p</i> -value | aOR            | [95% CI]     | <i>p</i> -value |
| <b>Age</b>  |                     |              |                 |                |              |                 |
| 19-34   | Reference           |              |                 | Reference      |              |                 |
| 35-50   | 1.29                | [0.99, 1.67] | .056            | 2.34           | [1.45, 3.75] | < .001          |
| 51-64   | 1.67                | [1.29, 2.17] | < .001          | 4.20           | [2.64, 6.65] | < .001          |
| <b>Male [reference = Female]</b>  | 1.80                | [1.45, 2.23] | < .001          | 1.88           | [1.35, 2.63] | < .001          |
| <b>Race</b>   |                     |              |                 |                |              |                 |
| White   | Reference           |              |                 | Reference      |              |                 |
| Black or African American   | 1.93                | [1.50, 2.49] | < .001          | 1.16           | [0.76, 1.78] | .483            |
| Other   | 0.75                | [0.50, 1.11] | .148            | 0.51           | [0.25, 1.06] | .072            |
| More than one   | 1.25                | [0.72, 2.18] | .423            | 1.02           | [0.49, 2.15] | .954            |
| <b>Fair or poor health</b>  | 1.47                | [1.15, 1.89] | .003            | 3.52           | [2.42, 5.11] | < .001          |
| <b>Any chronic disease<sup>1</sup> [reference = none]</b>                           |                     |              |                 |                |              |                 |
| Physical  | 1.11                | [0.88, 1.42] | .378            | 1.73           | [1.08, 2.79] | .023            |
| Mental  | 1.47                | [1.16, 1.87] | .001            | 2.61           | [1.82, 3.73] | < .001          |
| <b>Days physical or mental health poor (≥14 of past 30 days) [reference = none]</b> |                     |              |                 |                |              |                 |
| Physical  | 1.43                | [1.07, 1.92] | .016            | 5.10           | [3.54, 7.33] | < .001          |
| Mental  | 1.95                | [1.46, 2.60] | < .001          | 2.29           | [1.56, 3.37] | < .001          |

Logistic regression with adjusted odds ratios predicting HMP enrollee work status as out of work or unable to work, and adjusted for the variables shown.

<sup>1</sup> Physical and mental chronic health conditions based on self-report.

**Table 12.3. Bivariate predictors of employment status among HMP enrollees, by health status and presence of chronic health condition**

|                          | TOTAL | Health status                   |                |                 | Chronic health condition present |       |                 |
|--------------------------|-------|---------------------------------|----------------|-----------------|----------------------------------|-------|-----------------|
|                          |       | % Excellent, very good, or good | % Fair or poor | <i>p</i> -value | % No                             | % Yes | <i>p</i> -value |
| <b>Employment status</b> |       |                                 |                | < .001          |                                  |       | < .001          |
| Employed/self-employed   | 48.9  | 56.1                            | 32.3           |                 | 59.8                             | 44.1  |                 |
| Out of work              | 27.6  | 26.0                            | 31.3           |                 | 23.3                             | 29.5  |                 |
| Unable to work           | 11.2  | 4.2                             | 27.8           |                 | 2.2                              | 15.3  |                 |
| Retired                  | 2.5   | 2.7                             | 2.0            |                 | 1.8                              | 2.8   |                 |
| Student                  | 5.2   | 6.0                             | 3.3            |                 | 8.0                              | 3.9   |                 |
| Homemaker                | 4.5   | 5.0                             | 3.4            |                 | 5.0                              | 4.3   |                 |

Weighted proportions of employment status by self-reported overall health and self-reported chronic disease, among HMP enrollees.

**Table 12.4. Multivariate association of health changes with employment and ability to work among employed enrollees, and job seeking ability among enrollees who were out of work or had a recent job change**

| Independent variables  | Dependent variables <sup>1</sup>                            |              |         |  |              |         |   |              |         |  |              |         |
|--|---|--------------|---------|--|--------------|---------|---|--------------|---------|--|--------------|---------|
|  | Employed/Self-employed <sup>2</sup><br>(Weighted N=106,619) |              |         | Better job at work <sup>3</sup><br>(Weighted N=75,282) |              |         | Better able to look for job <sup>4</sup><br>(Weighted N=35,711) |              |         | Helped get a better job <sup>5</sup><br>(Weighted N=9,275) |              |         |
|  | aOR   | [95% CI]     | p-value | aOR  | [95% CI]     | p-value | aOR   | [95% CI]     | p-value | aOR  | [95% CI]     | p-value |
| <b>Physical or mental health better since HMP enrollment</b>     | 1.08  | [0.89, 1.30] | .44     | 4.08   | [3.11, 5.35] | < .001  | 2.82  | [1.93, 4.10] | < .001  | 3.20   | [1.69, 6.09] | < .001  |
| <b>Age</b>   |   |              |         |  |              |         |   |              |         |  |              |         |
| 19-34  | Reference   |              |         | Reference  |              |         | Reference   |              |         | Reference  |              |         |
| 35-50  | 0.98  | [0.78, 1.24] | .89     | 0.96   | [0.70, 1.31] | .78     | 1.36  | [0.87, 2.11] | .17     | 1.01   | [0.55, 1.87] | .97     |
| 51-64  | 0.56  | [0.45, 0.70] | < .001  | 1.10   | [0.80, 1.51] | .57     | 1.76  | [1.14, 2.72] | .01     | 1.30   | [0.65, 2.59] | .46     |
| <b>Female</b>  | 1.00  | [0.83, 1.21] | .98     | 1.42   | [1.08, 1.85] | .01     | 0.73  | [0.50, 1.07] | .10     | 0.72   | [0.41, 1.25] | .24     |
| <b>Race</b>  |   |              |         |  |              |         |   |              |         |  |              |         |
| White  | Reference   |              |         | Reference  |              |         | Reference   |              |         | Reference  |              |         |
| Black or African American  | 0.96  | [0.77, 1.21] | .74     | 1.55   | [1.10, 2.19] | .01     | 0.80  | [0.53, 1.22] | .30     | 1.31   | [0.68, 2.55] | .42     |
| Other  | 0.87  | [0.61, 1.23] | .44     | 1.24   | [0.69, 2.21] | .47     | 1.52  | [0.73, 3.19] | .27     | 1.69   | [0.65, 4.41] | .28     |
| More than one  | 1.10  | [0.67, 1.82] | .71     | 1.70   | [0.79, 3.67] | .18     | 0.51  | [0.22, 1.23] | .13     | 0.46   | [0.13, 1.67] | .24     |
| <b>Income, % of federal poverty level</b>                        |   |              |         |  |              |         |   |              |         |  |              |         |
| 0-35%  | Reference   |              |         | Reference  |              |         | Reference   |              |         | Reference  |              |         |
| 36-99%   | 3.72  | [3.02, 4.58] | < .001  | 0.79   | [0.54, 1.15] | .22     | 0.83  | [0.53, 1.29] | .40     | 0.90   | [0.47, 1.73] | .76     |
| ≥ 100%   | 4.40  | [3.51, 5.52] | < .001  | 0.62   | [0.42, 0.90] | .01     | 0.74  | [0.41, 1.36] | .33     | 0.60   | [0.31, 1.17] | .13     |
| <b>Fair or poor health</b>                                       | 0.67  | [0.53, 0.83] | < .001  | 1.09   | [0.76, 1.57] | .64     | 1.17  | [0.79, 1.74] | .42     | 1.17   | [0.56, 2.45] | .67     |
| <b>Any chronic disease</b>                                       | 0.84  | [0.67, 1.06] | .14     | 1.57   | [1.18, 2.09] | .002    | 0.87  | [0.54, 1.40] | .57     | 1.31   | [0.72, 2.36] | .37     |
| <b>Days physical or mental health poor (≥14 of past 30 days)</b> | 0.26  | [0.19, 0.34] | < .001  | 1.20   | [0.69, 2.09] | .53     | 0.85  | [0.56, 1.30] | .46     | 1.51   | [0.47, 4.89] | .49     |

aOR = adjusted odds ratio; CI = confidence interval; HMP = Healthy Michigan Plan. Associations with  $p < 0.05$  are bolded.

<sup>1</sup> Each column represents a different multivariable logistic regression model, adjusted for age, gender, race, income, health status, presence of chronic health condition, and functional limitation.

<sup>2</sup> Employment status was dichotomized as employed/self-employed vs. all other responses.

<sup>3</sup> Employed enrollees who responded “Yes” to the question, “Has getting health insurance through the Healthy Michigan Plan helped you do a better job at work?”

<sup>4</sup> Out of work enrollees who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan has made me better able to look for a job.”

<sup>5</sup> Enrollees with a recent job change who strongly agreed or agreed that “Having health insurance through the Healthy Michigan Plan helped me get a better job.”

## Appendix B: Utilization and Community Factors Variable Definitions

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### Receipt of Preventive Care

Utilization measures were based on administrative claims data drawn directly from the MDHHS Data Warehouse.

#### Primary care visits

Identification of primary care visits was based on any visit with a procedure or revenue code included in the Healthcare Effectiveness Data and Information Set (HEDIS) Outpatient value set, with two additional elements:

1. A procedure code on the MDHHS Physician Primary Care Rate Increase Initiative list; and
2. A billing or rendering provider who was a Primary Care Provider of record for  $\geq 1$  Medicaid enrollee in the MDHHS data warehouse PCP table; or who had participated in Michigan's Primary Care Transformation (MiPCT) project and thus had been verified as a primary care provider; or who had a primary care specialty classification in both the Michigan Medicaid provider specialty table and the NPPES taxonomy table. NPIs known to be inaccurate from prior analyses were excluded.

#### Cancer screening

Identification of cancer screening was based on the following procedure codes.

1. **Breast cancer screening:** Mammography procedure codes (77055, 77056, 77057, G0202, G0204, G0206)
2. **Cervical cancer screening:** Cervical cytology procedure codes (88141, 88142, 88143, 88150, 88164, 88175, G0123, G0124, G0143, G0145, P3000, Q0091)
3. **Colorectal cancer screening:** Flexible sigmoidoscopy procedure codes (45340, 45349, G0104), FOBT procedure codes (82270, 82274, G0328), and colonoscopy procedure codes (44388, 44389, 44394, 45378, 45380, 45381, 45382, 45383, 45384, 45385, 45388, 45391, 45398, G0105, G0121)

#### Diabetes prevention program

Identification of diabetes care management/prevention programs was based on the following procedure codes.

1. G0108- Diab manage trn per indiv
2. G0109- Diab manage trn ind/group
3. 0403T- Diabetes prev standard curr- Health and behavior intervention for prevention of diabetes, minimum 60 minutes, per day

#### Any dental visit

Identification of dental visits was based on any procedure code beginning with D in procedure code field.

### **Any nutrition service**

Identification of nutrition service was based on the claim having 1 of the following 3 characteristics:

1. Billing or rendering provider with Weight Watchers NPI= 1891941415
2. Billing or rendering provider NPI that matched taxonomy codes for "Diet" or "Nutrition"
3. Procedure Code **S9470**-Nutritional counseling, diet

### **HPV testing**

Identification of HPV testing was based on the following procedure codes. **87621**-Hpv dna amp probe

1. **87623**-Hpv low-risk types
2. **87624**-Hpv high-risk types
3. **87625**-Hpv types 16 & 18 only

### **STI testing**

Identification of STI testing was based on the following procedure codes.

1. **86631**-Chlamydia antibody
2. **87110**-Chlamydia culture
3. **3511F**-Chlmyd/gonrh tst docd done
4. **86694**-HERPES SIMPLEX NES ANTBDY
5. **86695**-HERPES SIMPLEX TYPE 1 TEST
6. **86696**-HERPES SIMPLEX TYPE 2 TEST
7. **86703**-HIV-1/HIV-2 1 RESULT ANTBDY
8. **86701**-HIV-1ANTIBODY
9. **86702**-HIV-2 ANTIBODY
10. **87806**-Hiv antigen w/hiv antibodies
11. **86689**-Htlv/hiv confirmj antibody
12. **87850**-N. gonorrhoeae assay w/optic
13. **80081**-Obstetric panel
14. **87808**-Trichomonas assay w/optic
15. **87661**-Trichomonas vaginalis amplify

### **Prescribed HMG CoA Reductase inhibitor (statin)**

Identification of statin therapy was based on pharmacy records for drug class: **M4D**-ANTIHYPERLIPIDEMIC - HMG COA REDUCTASE INHIBITORS.

### **Nicotine replacement therapy (NRT) or varenicline prescription**

Identification of NRT was based on pharmacy records for drug classes: **H7N**- SMOKING DETERRENTS, OTHER, **J3A**- SMOKING DETERRENT AGENTS (GANGLIONIC STIM, OTHERS), and **J3C**-SMOKING DETERRENT-NICOTINIC RECEPT.PARTIAL AGONIST.

### **Vaccines**

#### **Influenza vaccine**

Identification of flu vaccine receipt was based on flu vaccine administration dates in the Michigan Care Improvement Registry (MCIR), flu vaccine CPT codes in Medicaid claims

data, and flu vaccine NDC codes in the Medicaid pharmacy data; receipt of any flu vaccine during 2015 or 2016 calendar years is included in this analysis.

#### **Pneumonia vaccine**

Identification of pneumonia vaccine receipt was based on having at least one CPT code in Medicaid claims data, NDC code in the Medicaid pharmacy data, or MCIR record for a PCV13 or PPSV23 vaccine during CY2015 or 2016.

#### **Other vaccines**

Identification of any other vaccine receipt was based on having at least one CPT code in Medicaid claims data, NDC code in the Medicaid pharmacy data, or MCIR record for any listed vaccine during CY2015 or 2016. This includes Td/Tdap, Zoster, Hepatitis A and B, HIB, HPV, Meningitis or Meningitis B, Varicella, and MMR.

#### **Any preventive service**

Any of the above services with the exception of primary care visits are included in this definition.

### **Health Risk Assessment (HRA) Completion**

Data were extracted from the Health Risk Assessment (HRA) table in the data warehouse for the first 24 months from initial enrollment (i.e., the combined Year 1 and Year 2 period), along with any information obtained during the pre-HMP enrollment period of February-March 2014. This information was used to categorize each enrollee's HRA status:

- HRA attestation – record includes physician attestation date, signaling completion of the HRA process
- HRA questions only – record includes enrollee responses to some/all questions on the patient portion of the HRA, but no physician attestation date
- No HRA record – lack of data for any HRA-related activity

For enrollees with a physician attestation date, the record identified a healthy behavior status:

- Selected a healthy behavior
- No healthy behaviors to address
- Not ready for change
- Serious condition / healthy behavior not required

### **Emergency Department Utilization Claims**

Identification of ED visits was based on specifications in the HEDIS Emergency Department Utilization (EDU) measure. Consistent with HEDIS, ED visits that resulted in an inpatient admission were not counted, and non-institutional/non-surgical ED visits that occurred a day prior to or after an institutional ED/Observation/Inpatient visit were removed. Two modifications of the HEDIS criteria were made, to allow results to represent the full range of ED utilization for the HMP population: (1) mental health/substance abuse ED visits were included, where HEDIS excludes them; and (2) three observation visit codes (G0378, G0379, revenue code 0762) were added to the HEDIS observation value set, along with codes G0380-G0384 for Hospital Type B emergency visits.



## Chronic Conditions

**HEDIS definition:** Identification of chronic disease (asthma, cardiovascular disease, COPD, and diabetes) was based on identification criteria outlined in the HEDIS 2016 Relative Resource Use (RRU) specifications, applied to each beneficiary's first 24 months of HMP enrollment.

### Chronic Disease defined by claims-based diagnostic codes

A second method of identifying chronic disease uses diagnosis codes including Alzheimer's disease and related dementia, anemia, asthma, atrial fibrillation, cancer, chronic kidney disease, COPD, cystic fibrosis, deep venous thrombosis, diabetes mellitus, glaucoma, heart failure, hemophilia, HIV, hyperlipidemia, hypertension, ischemic heart disease, liver disease and other liver disorders, osteoporosis, arthritis, and stroke/transient ischemic attack.

**Mental and behavioral health conditions or substance use disorders:** Defined by Mental and Behavioral Disorders value set from HEDIS 2016. Tobacco use disorder was excluded from the list of mental and behavioral health conditions for this analysis.

## Individual and Community Factors Analysis

**Census/American Community Survey (ACS):** American FactFinder, United States Census Bureau <https://factfinder.census.gov> All data is downloadable at the ZIP code level. Data is from the 2011-2015 ACS 5-year estimates unless otherwise noted. The following fields were included in the individual and community factor analysis.

### Educational attainment

- College Grads (% of population ages 25 and over)

### Insurance coverage (2009-2013 ACS data as pre-HMP comparator)

- Percent uninsured of the civilian non-institutionalized population
- Percent uninsured ages 18-64

**County Health Rankings & Roadmaps:** Robert Wood Johnson Foundation, <http://www.countyhealthrankings.org/> Data is available on the county level, both as rankings within the state and some summary measures used to calculate those rankings. The following variables are used in the analysis.

### Ratio of PCPs to population

Source: Area Health Resource File/National Provider Identification File 2014

Definition: Ratio of population to primary care providers

# **Primary Care Practitioners' Views of the Impact of the Healthy Michigan Plan**

**January 16, 2018**

**University of Michigan  
Institute for Healthcare Policy & Innovation**

**Evaluation team:** Susan Dorr Goold, Renuka Tipirneni, Adrienne Haggins, Eric Campbell, Cengiz Salman, Edith Kieffer, Erica Solway, Lisa Szymecko, Sarah Clark, Sunghee Lee



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**Acknowledgement:** The authors would like to acknowledge the valuable insights provided by Zachary Rowe from Friends of Parkside and the members of the Steering Committee: Karen Calhoun, Michigan Institute for Clinical and Health Research and City Connect Detroit; Adnan Hammad, Global Health Research, Management and Solutions; Lynnette LaHahn, AuSable Valley Community Mental Health Authority; Charo Ledón, Acción Buenos Vecinos; Raymond Neff, Spectrum Health; Jennifer Raymond, Mid-Michigan Community Action; George Sedlacek, Marquette County YMCA; and Ashley Tuomi, American Indian Health and Family Services.

## EXECUTIVE SUMMARY

The University of Michigan Institute for Healthcare Policy and Innovation (IHPI) is conducting the evaluation required by the Centers for Medicare and Medicaid Services (CMS) of the Healthy Michigan Plan (HMP) under contract with the Michigan Department of Health and Human Services (MDHHS). The fourth aim of Domain IV of the evaluation is to describe primary care practitioners' experiences with Healthy Michigan Plan beneficiaries, practice approaches and innovation adopted or planned in response to the Healthy Michigan Plan, and future plans regarding care of Healthy Michigan Plan patients.

### Methods

We conducted 19 semi-structured telephone interviews with primary care practitioners caring for Healthy Michigan Plan patients in five Michigan regions selected to include racial/ethnic diversity and a mix of urban and rural communities. Interviews informed survey items and measures and enhanced the interpretation of survey findings.

We then surveyed all primary care practitioners in Michigan with at least 12 assigned Healthy Michigan Plan patients about practice changes and innovations since April 2014 and their experiences caring for patients with the Healthy Michigan Plan.

### Results

The final response rate was 56% resulting in 2,104 respondents.

#### ***Knowledge of Patient Insurance***

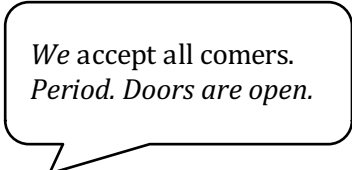
- 53% report knowing a patient's insurance at the beginning of an appointment
- 91% report that it is easy to find out a patient's insurance status
- 35% report intentionally ignoring a patient's insurance status

#### ***Familiarity with HMP***

- 71% very or somewhat familiar with how to complete a Health Risk Assessment
- 25% very/somewhat familiar with beneficiary cost-sharing
- 36% very/somewhat familiar with healthy behavior incentives for patients
- PCPs working in small, non-academic, non-hospital-based and FQHC practices and those with predominantly Medicaid or uninsured patients reported more familiarity with HMP

#### ***Acceptance of Medicaid and HMP***

- 78% report accepting new Medicaid/HMP patients – more likely if:
  - Female, racial minorities or non-physician PCPs
  - Internal medicine specialty
  - Salary payment
  - Medicaid predominant payer mix
  - Previously provided care to underserved
  - Stronger commitment to caring for underserved
- 73% felt a responsibility to care for patients regardless of their ability to pay
- 72% agreed all providers should care for Medicaid/HMP patients



*We accept all comers.  
Period. Doors are open.*

#### ***Changes in Practice***

- 52% report an increase in new patients to a great or to some extent
- 56% report an increase in the number of new patients who hadn't seen a PCP in many years
- 51% report established patients who had been uninsured gained insurance
- Most practices hired clinicians (53%) and/or staff (58%) in the past year
- 56% report consulting with care coordinators, case managers and/or community health workers

- 41% said that almost all established patients who request a same or next day appointment can get one; 34% said the proportion getting those appointments had increased over the past year
- FQHCs, those with predominantly uninsured, Medicaid and mixed payer mixes and suburban practices were more likely to report an increase in new patients. FQHCs, and those with predominantly Medicaid payer mix, were more likely to report existing patients who had been uninsured gained insurance, and an increase in the number of patients who hadn't seen a PCP in many years.
- Large and FQHC practices were more likely to have hired new clinicians in the past year. Small, non-FQHC, academic and suburban practices and were less likely to report hiring additional staff.
- Large and FQHC practices and those with predominantly private or uninsured payer mixes were all more likely to report consulting with care coordinators, case managers and/or community health workers in the past year.
- MiPCT practices were more likely to have newly co-located mental health in the past year.

*Your working poor people who just were in between the cracks, didn't have anything, and now they've got something, which is great.*

### **Experiences Caring for HMP Beneficiaries - Health Risk Assessments**

- 79% completed at least one HRA with a patient; most of those completed >10
- 65% don't know if they or their practice has received a bonus for completing HRAs
- PCPs reported completing more HRAs if they
  - Were located in Northern regions
  - Were paid by capitation or salary compared to fee-for-service
  - Reported receiving a financial incentive for completing HRAs
  - Were in a smaller practice (5 or fewer) size
- 58% reported that financial incentives for patients and 55% reported financial incentives for practices had at least a little influence on completing HRAs
- 52% said patients' interest in addressing health risks had at least some influence on HRA completion
- Most PCPs found HRAs useful for identifying and discussing health risks, persuading patients to address their most important health risks, and documenting behavior change goals

*What I've heard people say is "I just want to stay healthy or find out if I'm healthy."*

### **ER Use and Decision Making**

- 30% felt that they could influence non-urgent ER use by their patients a great deal (and 44% some)
- 88% accepted major or some responsibility as a PCP to decrease non-urgent ER use
- Many reported offering services to avoid non-urgent ER use, such as walk-in appointments, 24-hour telephone triage, weekend and evening appointments, and care coordinators or social work assistance for patients with complex problems
- PCPs identified care without an appointment, being the place patients are used to getting care and access to pain medicine as major influences for non-urgent ER use
- PCPs recommended PCP practice changes, ER practice changes, patient educational initiatives, and patient penalties/incentives when asked about strategies to reduce non-urgent ER use

*People who work day shift...It's easier for them to go to the ER or something for a minor thing because they don't have to take time off work. That's a big deal.*

### **Access**

- PCPs with HMP patients who were previously uninsured reported some or great impact on health, health behavior, health care and function for those patients. The greatest impact was for control of chronic conditions, early detection of serious illness, and improved medication adherence

*I learned a long time ago if the patient doesn't take the medicine, they don't get better...if they don't have insurance to cover it and they don't ever pick it up, then they're not going to take it.*

- PCPs reported that HMP enrollees, compared to those with private insurance, more often had difficulty accessing specialists, medications, mental health care, dental care, treatment for substance use and counseling for behavior change

*It can still take up to six months to see a psychiatrist unless you get admitted to the hospital.*

### ***Discussing Costs with Patients***

- 22% of PCPs reported discussing out-of-pocket costs with an HMP patient. The patient was the most likely one to bring up the topic
- 56% of the time, such a discussion resulted in a change of management plans
- PCPs who were white, Hispanic/Latino, non-physician practitioners and with Medicaid or uninsured predominant payer mixes were more likely to have cost conversations with patients
- PCPs who were younger and in rural practices were more likely to report a change in management due to cost conversations with patients

### ***Impact and Suggestions to Improve the Healthy Michigan Plan***

We provided PCPs open-ended opportunities in the survey to provide additional information. We asked about the impact of HMP:

- PCPs noted HMP has allowed patients to get much needed care, improved financial stability, provided a sense of dignity, improved mental health, increased accessibility to care and compliance (especially medications), helped people engage in healthy behaviors like quitting smoking and saved lives

And also about suggestions to improve HMP:

- Educating patients about health insurance, health behaviors, when and where to get care, medication adherence and greater patient responsibility
- Improving accessibility to other providers, especially mental health and other specialists, and improving reimbursement
- Educating providers and providing up-to-date information about coverage, formularies, administrative processes and costs faced by patients
- Better coverage for some services (e.g., physical therapy)
- Formularies should be less limited, more transparent and streamlined across plans
- Decrease patient churn on/off insurance

### **Conclusions**

Our survey results, and the more detailed accounts from interviews, indicate that HMP has improved access to care and, especially for previously uninsured patients, led to new detection of serious conditions, adherence to medications, management of chronic conditions, and improved health behaviors.

**PCPs in Michigan, as in other states, reported improved detection and management of chronic conditions such as diabetes and hypertension in patients who gained coverage due to Medicaid expansion, and better adherence to medical regimens.** Most PCPs also reported that the Healthy Michigan Plan had a positive impact on improved health behaviors, better ability to work or attend school, improved emotional wellbeing and improved ability to live independently. In interviews, PCPs described previously uninsured patients for whom they had identified serious illness early; survey results confirmed these are frequent experiences reported by PCPs.

**PCPs reported an increase in new patients, including some who had not sought primary care in many years.** They reported hiring clinicians and staff; changing workflow for new patients; co-locating

mental health care in primary care; and consulting with care coordinators, case managers, and community health workers. Perhaps due to those changes, few reported that established patients' access to same- or next-day appointments worsened.

**We found that PCP demographics, salary structure, history of caring for the underserved and perceived practice capacity were all associated with continued acceptance of new Medicaid patients.** These results confirm several of the same factors considered important to PCPs in prior studies – practice capacity, specialist availability, medical and psychosocial needs of Medicaid patients. In addition, PCPs in our survey placed less emphasis on reimbursement, perhaps because many served in salaried positions, or because they instead emphasized professional commitment to caring for the poor and underserved.

**Access to some services (e.g., specialty care, mental health care) remains challenging.** Disparities in access have been noted for Medicaid patients before and after the ACA in other states. As one of our interviewed physicians said, “It’s kind of a mess. But I don’t blame Medicaid expansion for that. It was a mess before then.”

## Primary Care Practitioners' Views of the Impact of the Healthy Michigan Plan

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## METHODS

### IN-DEPTH INTERVIEWS WITH PRIMARY CARE PRACTITIONERS

**Sample:** To develop PCP survey items and measures, and to enhance the interpretation of survey findings, we conducted 19 semi-structured interviews with primary care practitioners caring for Medicaid/Healthy Michigan Plan patients between December 2014 and April 2015. These interviews were conducted in five Michigan regions: Detroit, Kent County, Midland/Bay/Saginaw Counties, Alcona/Alpena/Oscoda Counties, and Marquette/Baraga/Iron Counties. These regions were purposefully selected to include racial/ethnic diversity and a mix of urban and rural communities. Interviewees were both physicians and non-physician practitioners who worked at small private practices, Federally Qualified Health Centers (FQHCs), free/low-cost clinics, hospital-based practices, or rural practices.

**Interview Topics:** Topics included: provider knowledge/awareness of patient insurance and experiences caring for HMP patients, including facilitators and challenges of accessing needed care; changes in practice, due to or to meet the needs of HMP patients; how decisions were made about whether to accept Medicaid/HMP patients and what might change PCPs' acceptance of new Medicaid/HMP patients in the future; provider and patient decision-making about ER use; experience with Health Risk Assessments (HRAs), and any knowledge or conversation with patients about out of pocket costs.



**Analysis:** Interviews were audio recorded, transcribed and coded iteratively using grounded theory and standard qualitative analysis techniques.<sup>1,2</sup> Quotations that illustrate key findings included in this report were drawn from these interviews.

## SURVEY OF PRIMARY CARE PRACTITIONERS

To evaluate the impact of the Healthy Michigan Plan, we surveyed primary care practitioners about their experiences caring for Healthy Michigan Plan beneficiaries, new practice approaches and innovations, and future plans.

**Sample:** The sample was drawn from the 7,360 National Provider Identifier (NPI) numbers assigned in the MDHHS Data Warehouse as the primary care provider for at least one Healthy Michigan Plan managed care member as of April 2015. Eligible for the survey were those with at least 12 assigned members (an average of one per month); 2,813 practitioners were excluded based on <12 assigned members. Of the remaining 4,547 NPIs, 25 were excluded because the NPI entity code did not reflect an individual physician (20 were organizational NPIs, 4 were deactivated, and 1 was invalid). Also excluded were 161 physicians with only pediatric specialty; 4 University of Michigan physicians involved in the Healthy Michigan Plan evaluation; and 35 physicians with out-of-state addresses >30 miles from the Michigan border. After exclusions, 4,322 primary care practitioners (3,686 physicians and 636 nurse practitioners/physician assistants) remained as the survey sampling frame.

**Survey Design:** The survey included measures of primary care practitioner and practice characteristics, and measures related to the Healthy Michigan Plan on a variety of topics, including:

- Plans to accept new Medicaid patients
- Perceptions of difficulty accessing care for Healthy Michigan Plan beneficiaries with parallel questions about difficulty accessing care for privately insured patients
- Experiences with Healthy Michigan Plan beneficiaries regarding decision making about emergency department use
- Perceptions of influences on non-urgent ER use by Healthy Michigan Plan beneficiaries
- Practice approaches in place to prevent non-urgent ER use
- Experiences of caring for newly insured Medicaid patients, including ability to access non-primary care (specialty care, equipment, medication, dental care, mental health care)
- New practice approaches adopted within the previous year
- Future plans regarding care of Medicaid patients

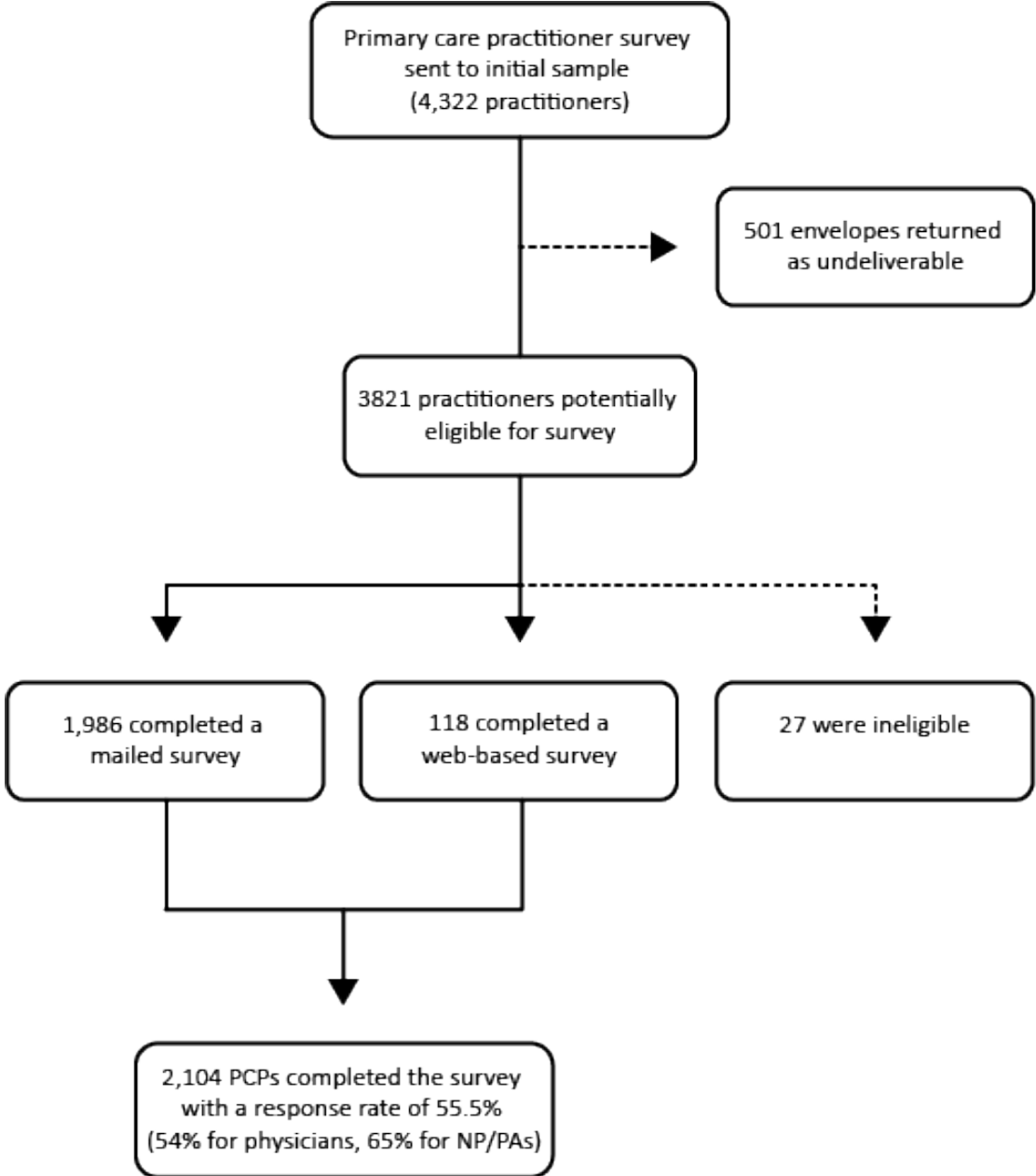
Drs. Goold, Campbell and Tipirneni developed the survey questions in collaboration with other members of the research team. The development process began by identifying the key survey domains through an iterative process with the members of the evaluation team. Then, literature searches identified survey items and scales measuring the domains of interest.<sup>3-8</sup> For domains without existing valid measures, items were developed from data collected from the 19 semi-structured individual interviews with PCPs. New items were cognitively pretested with two primary care practitioners who serve Healthy Michigan Plan patients, one MD from a low-cost clinic and one PA from a private practice. Both practitioners were asked about their understanding of each original survey item, their capacity to answer these questions, and how they would answer said items. The final survey itself was pretested with one PCP for timing and flow.

**Survey Administration:** Primary care provider addresses were identified from the MDHHS data warehouse Network Provider Location table, the MDHHS Provider Enrollment Location Address table, and the National Plan & Provider Enumeration System (NPPES) registry detail table linked to NPI. Research assistants reviewed situations where primary care practitioners had multiple addresses, and selected (a) the address with more detail (e.g., street address + suite number, rather than street alone), (b) the address that occurred in multiple databases, or (c) the address that matched an internet search for that physician.

The initial survey mailing occurred in June 2015 and included a personalized cover letter describing the project, a Fact Sheet about the Healthy Michigan Plan, a hard copy of the survey, a \$20 bill, and a postage-paid return envelope. The cover letter gave information on how to complete the survey via Qualtrics, rather than hard copy. Two additional mailings were sent to nonrespondents in August and September 2015. Data from mail surveys returned by November 1, 2015, were entered in an excel spreadsheet, reviewed for accuracy, and subsequently merged with data from Qualtrics surveys.

**Survey Response Characteristics:** Of the original sample of 4,322 primary care practitioners in the initial sample, 501 envelopes were returned as undeliverable. Of the 2,131 primary care practitioners who responded, 1,986 completed a mailed survey, 118 completed a Qualtrics survey, and 27 were ineligible (e.g., retired, moved out of state). The final response rate was 56% (54% for physicians, 65% for nurse practitioners/physician assistants) (Figure 1).

**Figure 1.** Flowchart of PCP Survey Response Rates



Comparison of the 2,104 eligible respondents and the 1,690 nonrespondents revealed no differences in gender, birth year, number of affiliated Medicaid managed care plans, and FQHC designation. More nonrespondents had internal medicine specialty and practiced in urban areas (Table 1).

**Table 1. Comparison of Respondents to Nonrespondents**

|  | Respondents<br>(N=2,104) | Nonrespondents<br>(N=1,690) | p                |
|--|--------------------------|-----------------------------|------------------|
| Gender                                 |                          |                             | NS               |
| Female                                 | 44.6                     | 43.7                        |                  |
| Male                                   | 55.4                     | 56.3                        |                  |
| Birth Year                             |                          |                             | NS               |
| 1970 or earlier                        | 71.0                     | 69.5                        |                  |
| 1971 or later                          | 29.0                     | 30.5                        |                  |
| Medicaid Managed Care Plans            |                          |                             | NS               |
| 1 plan                                 | 20.5                     | 20.1                        |                  |
| 2 plans                                | 27.2                     | 25.7                        |                  |
| 3 or more plans                        | 52.3                     | 54.2                        |                  |
| Practice setting                       |                          |                             | NS               |
| FQHC                                   | 14.9                     | 14.7                        |                  |
| Not FQHC                               | 85.1                     | 85.3                        |                  |
| Specialty                              |                          |                             | <.0001           |
| Family/general practice                | 54.5                     | 51.0                        |                  |
| Internal medicine                      | 27.3                     | 36.3                        |                  |
| Nurse practitioner/physician assistant | 17.0                     | 11.3                        |                  |
| Ob-gyn/other                           | 1.2                      | 1.4                         |                  |
| Urbanicity                             |                          |                             | <0.001<br><0.001 |
| Urban                                  | 75.8                     | 83.1                        |                  |
| Suburban                               | 8.8                      | 7.3                         |                  |
| Rural                                  | 15.4                     | 9.6                         |                  |
| Region                                 |                          |                             | <0.001           |
| Upper Peninsula/Northwest/Northeast    | 14.5                     | 8.3                         |                  |
| West/East Central/East                 | 32.9                     | 31.6                        |                  |
| South Central/Southwest/Southeast      | 21.3                     | 23.9                        |                  |
| Detroit Metro                          | 31.3                     | 36.3                        |                  |

**Analysis:** We calculated descriptive statistics such as proportion of primary care practitioners reporting difficulty accessing specialty care for Healthy Michigan Plan beneficiaries or experiences related to emergency department decision making. No survey weighting was necessary, as the sample included the full census of PCPs with ≥12 HMP patients. Bivariate and multivariate logistic regression analysis was used to assess the association of independent variables (personal, professional and practice characteristics) with dependent variables - practice changes reported since Medicaid expansion. Multivariate models were run with and without interaction variables (Ownership\*Practice size and FQHC\*predominant payer type), and chi-square goodness-of-fit tests calculated. All analyses were performed using STATA version 14 (Stata Corp, College Station, TX. Quotes from practitioner interviews have been used to expound upon some key findings from our analysis of survey data. To address practice-level clustering where more than one PCP from a practice completed the survey, sensitivity analyses were performed for each regression model, adding practice ID as a random intercept in the model. Results from these analyses did not represent any changes in significance or direction of associations, and full output from these analyses can be found in the appendix.

## RESULTS FROM SURVEY OF PRIMARY CARE PRACTITIONERS

*Survey results are presented in the following format:*

|              |
|--------------|
| <b>Topic</b> |
|--------------|

**Key findings**

*Illustrative quote(s) from PCP interviews*

Tables of Results

Numeric endnotes in tables refer to citations for survey measures

NS indicates  $p \geq .05$

Results of analysis of relationships (e.g., chi-square, multivariate logistic regression) with reference to tables in Appendix A.

|   |
|---|
| <b>Respondents' Personal, Professional and Practice Characteristics</b> |
|---|

Just over half of respondents were men. About 80% self-identified as white. Eleven percent identified as Asian/Pacific Islander, with small numbers in other racial and ethnic groups. More than 80% of respondents were physicians, although nearly three-quarters had non-physician providers in their practice. About half identified their specialty as family medicine and a quarter as internal medicine. More than half were in practices with 5 or fewer providers; 15% practiced in FQHCs. Three-quarters of PCP respondents practiced in urban settings, 31% in Detroit. Their self-reported payer mix varied; about one-third had Medicaid/HMP as the predominant payer (Table 2).

**Table 2. Personal, Professional and Practice Characteristics of PCP Respondents (N=2,104)**

| Personal characteristics       |       |      |
|--------------------------------|-------|------|
| Gender                         | N     | %    |
| Male                           | 1,165 | 55.4 |
| Female                         | 939   | 44.6 |
| Race                           |       |      |
| White                          | 1,583 | 79.3 |
| Black/African-American         | 93    | 4.7  |
| Asian/Pacific Islander         | 224   | 11.2 |
| American Indian/Alaska Native  | 10    | 0.5  |
| Other                          | 86    | 4.3  |
| Ethnicity                      |       |      |
| Hispanic/Latino                | 46    | 2.3  |
| Non-Hispanic/Latino            | 1,978 | 97.7 |
| Professional characteristics   |       |      |
| Provider type                  | N     | %    |
| Physician                      | 1,750 | 83.2 |
| Non-Physician (NP/PA)          | 357   | 16.8 |
| Specialty                      |       |      |
| Family medicine                | 1,123 | 53.4 |
| Internal medicine              | 507   | 24.1 |
| Medicine-Pediatrics            | 67    | 3.2  |
| General practice (GP)          | 24    | 1.1  |
| Obstetrics/Gynecology (OB/Gyn) | 12    | 0.6  |
| Nurse practitioner (NP)        | 192   | 9.1  |
| Physician's Assistant (PA)     | 165   | 7.8  |
| Other                          | 14    | 0.7  |

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|  |               |           |
|--|---------------|-----------|
| Board/Specialty certification                                    |               |           |
| Yes  | 1,695         | 81.6      |
| No   | 383           | 18.4      |
| Years in practice  |               |           |
| <10 years  | 520           | 25.9      |
| 10-20 years  | 676           | 33.7      |
| >20 years  | 810           | 40.4      |
| Provider ownership of practice                                   |               |           |
| Full-owner   | 446           | 22.0      |
| Partner/part-owner   | 232           | 11.4      |
| Employee   | 1,352         | 66.6      |
| <b>Practice characteristics</b>                                  |               |           |
| Practice size (mean, median, SD)                                 | 7.5, 5, 16.5  |           |
| Small ( $\leq 5$ practitioners) <sup>a</sup>                     | 1,157         | 57.5      |
| Large ( $\geq 6$ practitioners)                                  | 855           | 42.5      |
| Presence of non-physician practitioners in practice <sup>b</sup> | 1,275         | 71.7      |
| Federally qualified health center (FQHC)                         | 311           | 14.9      |
| University/teaching hospital practice                            | 276           | 13.1      |
| Hospital-based practice (non-teaching)                           | 643           | 30.7      |
| Payer mix (current % of patients with insurance type)            | <b>Mean %</b> | <b>SD</b> |
| Private  | 32.8%         | 19.8      |
| Medicaid   | 23.3%         | 18.3      |
| Healthy Michigan Plan  | 10.9%         | 11.8      |
| Medicare   | 30.2%         | 16.7      |
| Uninsured  | 5.8%          | 7.1       |
| Predominant payer mix <sup>c</sup>                               | <b>N</b>      | <b>%</b>  |
| Private  | 522           | 27.4      |
| Medicaid/Healthy Michigan Plan                                   | 686           | 36.0      |
| Medicare   | 645           | 33.9      |
| Uninsured  | 15            | 0.8       |
| Mixed  | 37            | 1.9       |
| Payment arrangement  |               |           |
| Fee-for-service  | 784           | 37.5      |
| Salary   | 946           | 45.3      |
| Capitation   | 44            | 2.1       |
| Mixed  | 275           | 13.2      |
| Other  | 40            | 1.9       |
| Participation in MiPCT   | 511           | 24.3      |
| Urbanicity <sup>d</sup>  |               |           |
| Urban  | 1,584         | 75.3      |
| Suburban   | 193           | 9.2       |
| Rural  | 327           | 15.5      |
| Region   |               |           |
| Upper Peninsula/NW/NE  | 301           | 14.6      |
| West/East Central/East   | 675           | 32.8      |
| South Central/SW/SE  | 438           | 21.3      |
| Detroit Metro  | 642           | 31.2      |

<sup>a</sup> Dichotomized at sample median

<sup>b</sup> >5% missing

<sup>c</sup> Composite variable of all current payers: payer is considered predominant for the practice if >30% of physician’s patients have this payer type and <30% of patients have any other payer type. “Mixed” includes practices with more than one payer representing >30% of patients, or practices with <30% of patients for each payer type.

<sup>d</sup> Zip codes and county codes were linked to the U.S. Department of Agriculture Economic Research Service 2013 Urban Influence Codes to classify regions into urban (codes 1-2), suburban (codes 3-7) and rural (codes 8-12) designations.

## Knowledge of Patient Insurance

Because we relied on PCPs to report their experiences caring for patients with Healthy Michigan Plan coverage we asked them questions about their knowledge of patients’ insurance status.

**About half report knowing what kind of insurance a patient has at the beginning of an encounter. Nearly all report that it is easy to find out a patient’s insurance status. About a third report intentionally ignoring a patient’s insurance status (Table 3).**

**Table 3. Knowledge of Patients’ Insurance Status**

|   | Strongly agree | Agree | Neither | Disagree | Strongly disagree |
|---|----------------|-------|---------|----------|-------------------|
| If I need to know a patient’s insurance status it is easy to find out (n=2,081)                                   | 43.4%          | 47.2% | 6.3%    | 2.7%     | 0.3%              |
| I know what kind of insurance a patient has at the beginning of an encounter (n=2,081)                            | 21.2%          | 32.2% | 16.4%   | 20.5%    | 9.6%              |
| I ignore a patient’s insurance status on purpose so it doesn’t affect my recommendations (n=2,078)                | 14.1%          | 20.8% | 26.4%   | 27.8%    | 10.8%             |
| I only find out about a patient’s insurance coverage if they have trouble getting something I recommend (n=2,071) | 13.6%          | 26.6% | 19.0%   | 31.3%    | 9.5%              |

## Familiarity with Healthy Michigan Plan

**PCPs report familiarity with how to complete and submit a Health Risk Assessment. They report less familiarity with beneficiary cost-sharing and rewards, and the availability of specialists and mental health services (Table 4).**

We hypothesized that PCPs in different practice settings would differ in their familiarity with Healthy Michigan Plan.

**PCPs working in small, non-academic, non-hospital-based and FQHC practices, as well as practices with predominantly Medicaid or uninsured payer mixes, reported greater familiarity with Healthy Michigan Plan (Appendix A, Table 1).**

*But I mean it’s not reported to me. I don’t know anything about their health accounts or MI Health account kind of thing.*

- Rural physician; Small, private practice

**Table 4. Familiarity with Healthy Michigan Plan**

|   | Very familiar | Somewhat familiar | A little familiar | Not at all familiar |
|---|---------------|-------------------|-------------------|---------------------|
| In general, how familiar are you with the Healthy Michigan Plan? (n=2,031)            | 15.1%         | 38.2%             | 27.4%             | 19.3%               |
| <i>How familiar are you with the following:</i>                                       |               |                   |                   |                     |
| How to complete a Health Risk Assessment (n=2,028)                                    | 47.6%         | 23.3%             | 13.6%             | 15.5%               |
| How to submit a Health Risk Assessment (n=2,025)                                      | 34.6%         | 23.2%             | 17.5%             | 24.7%               |
| Healthy behavior incentives that Healthy Michigan Plan Patients can receive (n=2,032) | 12.6%         | 23.7%             | 27.0%             | 36.7%               |
| Specialists available for Healthy Michigan Plan patients (n=2,027)                    | 9.3%          | 27.3%             | 26.3%             | 37.1%               |
| Mental health services available for Healthy Michigan Plan patients (n=2,032)         | 7.7%          | 18.2%             | 27.8%             | 46.4%               |
| Out-of-pocket expenses Healthy Michigan Plan Patients have to pay (n=2,031)           | 6.7%          | 18.6%             | 28.4%             | 46.3%               |
| Dental coverage in the Healthy Michigan Plan (2,032)                                  | 4.4%          | 13.5%             | 20.4%             | 61.7%               |

|   |
|---|
| <b>Acceptance of Medicaid and Healthy Michigan Plan</b> |
|---|

**About 4 in 5 survey respondents reported accepting new Medicaid/Healthy Michigan Plan patients (Table 5). Most PCPs reported having at least some influence on that decision. Capacity to accept any new patients was rated as a very important factor in decisions to accept Medicaid/ Healthy Michigan Plan patients (Table 6). Of PCPs' established patients, an average of 11% had Healthy Michigan Plan and 23% had Medicaid as their primary source of coverage (Table 2).**

*We accept all comers. Period. Doors are open. Come on in. But I have to add a comment to that or a clarification...a qualification to that. My nurse manager...The site manager just came to me on Monday of this week and said, "You know, [name], if a person wants a new appointment with you, we're scheduling...It's like the end of April. There are so many patients now that are in the system that even for routine follow-up stuff, we can't get them in."*

– Urban physician, FQHC

**Most PCPs reported providing care in a setting that serves poor and underserved patients with no anticipation of being paid in the past three years, and nearly three-quarters felt a responsibility to care for patients regardless of their ability to pay. Nearly three-quarters agreed all practitioners should care for Medicaid/Healthy Michigan Plan patients (Table 7).**

We hypothesized that acceptance of new Medicaid/Healthy Michigan Plan patients would vary by PCPs' personal, professional and practice characteristics.

**In multivariate analyses, PCPs were more likely to accept new Medicaid/Healthy Michigan Plan patients if the PCP was female, a racial minority, a non-physician provider, specializing in internal**

**medicine, paid by salary vs. fee-for service, with prior history of care to the underserved, or working in practices with Medicaid predominant payer mixes. PCPs were less likely to accept new Medicaid/Healthy Michigan Plan patients if they considered their practice’s overall capacity to accept new patients important (Table 8).**

*[A]s long as the rural health center plans still pay me adequately, I don’t foresee making any changes. If they were to all of a sudden say, “Okay, we’re only going to reimburse 40% or 50% of what we used to,” that would be enough to put me out of business. So I would think twice about seeing those patients then, but as long as they continue the way they have been for the last six years that I’ve owned the clinic, I don’t see making any changes. It works just fine.*

– Rural nurse practitioner, Rural health center

We asked PCPs whether they were currently accepting new patients with Healthy Michigan Plan and other types of insurance:

**Table 5. Acceptance of New Patients by Insurance Type<sup>5</sup>**

| Accepting <u>new</u> patients, by type of insurance | %     |
|---|-------|
| Private (n=1,774)                                   | 87.0% |
| Medicaid* (n=1,517)                                 | 75.0% |
| Healthy Michigan Plan* (n=1,464)                    | 72.8% |
| Medicare (n=1,717)                                  | 84.4% |
| No insurance (i.e., self-pay) (n=1,541)             | 76.4% |

\*Combined, 1,575 (78%) of PCP respondents reported accepting new patients with either Healthy Michigan Plan or Medicaid.

How much influence do you have in making the decision to accept or not accept Medicaid or Healthy Michigan Plan patients in your practice?<sup>1</sup>

| The decision is entirely mine (n=459) | I have a lot of influence (n=275) | I have some influence (n=425) | I have no influence (n=866) |
|---------------------------------------|-----------------------------------|-------------------------------|-----------------------------|
| 22.7%                                 | 13.6%                             | 21.0%                         | 42.8%                       |

**Table 6. Importance for Accepting New Medicaid or Healthy Michigan Plan Patients**

| <i>Please indicate the importance of each of the following for your practice’s decision to accept new Medicaid or Healthy Michigan Plan patients:</i> | Very important | Moderately important | Not very important | Not at all important | Don’t know |
|---|----------------|----------------------|--------------------|----------------------|------------|
| Capacity to accept new patients with any type of insurance (n=2,049)  | 37.8%          | 31.1%                | 9.1%               | 8.6%                 | 13.3%      |
| Reimbursement amount (n=2,056)  | 25.9%          | 29.8%                | 13.3%              | 15.1%                | 15.9%      |
| Availability of specialists who see Medicaid or Healthy Michigan Plan patients (n=2,052)  | 25.7%          | 30.1%                | 15.1%              | 13.8%                | 15.3%      |
| Psychosocial needs of Medicaid or Healthy Michigan Plan patients (n=2,051)  | 19.7%          | 30.4%                | 18.3%              | 16.8%                | 14.8%      |
| Illness burden of Medicaid or Healthy Michigan Plan patients (n=2,052)  | 18.0%          | 28.0%                | 21.5%              | 18.0%                | 14.4%      |



**Table 7. Attitudes About Caring for Poor or Underserved Patients**

|   | Strongly agree | Agree | Neither | Disagree | Strongly disagree |
|---|----------------|-------|---------|----------|-------------------|
| All practitioners should care for some Medicaid/Healthy Michigan Plan patients (n=2,073)            | 45.4%          | 26.8% | 16.7%   | 7.2%     | 3.9%              |
| It is my responsibility to provide care for patients regardless of their ability to pay (n=2,066)   | 42.3%          | 31.1% | 13.6%   | 9.2%     | 3.8%              |
| Caring for Medicaid/Healthy Michigan Plan patients enriches my clinical practice (n=2,067)          | 20.2%          | 28.5% | 36.1%   | 11.9%    | 3.2%              |
| Caring for Medicaid/Healthy Michigan Plan patients increases my professional satisfaction (n=2,064) | 18.4%          | 26.3% | 38.5%   | 12.6%    | 4.3%              |

In the past three years, have you provided care in a setting that serves poor and underserved patients with no anticipation of being paid?

| Yes (n=1,153) | No (n=871) |
|---------------|------------|
| 57.0%         | 43.0%      |

**Table 8. Multivariate Analysis of Association of PCP and Practice Characteristics with Medicaid Acceptance**

|  | Unadjusted Odds of Medicaid Acceptance OR [95% CI] | Adjusted <sup>a</sup> Odds of Medicaid Acceptance aOR [95% CI] |
|--|--|--|
| <b>Personal and professional characteristics</b> |  |  |
| Female   | 1.59 [1.28, 1.98]**                                | 1.32 [1.01, 1.72]*   |
| Race   |  |  |
| White  | [ref]  | [ref]  |
| Black/African American                           | 3.93 [1.80, 8.57]*                                 | 3.46 [1.45, 8.25]*   |
| Asian/Pacific Islander                           | 1.76 [1.20, 2.58]*                                 | 1.84 [1.21, 2.80]*   |
| Other  | 1.94 [1.04, 3.62]*                                 | 1.79 [0.84, 3.80]  |
| Ethnicity, Hispanic                              | 1.88 [0.79, 4.48]                                  | 1.54 [0.56, 4.22]  |
| Years in practice                                |  |  |
| <10 years  | [ref]  | [ref]  |
| 10-20 years                                      | 0.69 [0.51, 0.93]*                                 | 0.87 [0.62, 1.22]  |
| >20 years  | 0.51 [0.38, 0.68]**                                | 0.82 [0.58, 1.15]  |
| Non-physician provider (vs. physician provider)  | 4.78 [3.09, 7.40]**                                | 2.21 [1.32, 3.71]*   |
| Specialty  |  |  |
| Family medicine                                  | [ref]  | [ref]  |
| Internal medicine                                | 1.43 [1.12, 1.83]*                                 | 1.47 [1.09, 1.97]*   |
| Nurse practitioner (NP)                          | 7.81 [3.95, 15.45]**                               | 3.53 [1.64, 7.61]*   |
| Physician Assistant (PA)                         | 4.07 [2.32, 7.16]**                                | 1.83 [0.94, 3.56]  |
| Other  | 2.86 [1.21, 6.79]*                                 | 2.02 [0.75, 5.45]  |
| Board Certified                                  | 0.57 [0.42, 0.77]**                                | 0.92 [0.64, 1.32]  |

Continued on next page

Continued from previous page

| <b>Personal and professional characteristics</b>         |                      |                      |
|--|----------------------|----------------------|
| Payment arrangement                                      |                      |                      |
| Fee-for-service  | [ref]                | [ref]                |
| Salary predominant                                       | 3.02 [2.36, 3.85]**  | 2.09 [1.58, 2.77]**  |
| Mixed payment  | 1.34 [0.98, 1.84]    | 1.43 [0.99, 2.07]    |
| Other payment arrangements                               | 2.44 [1.01, 5.93]*   | 1.33 [0.51, 3.49]    |
| <b>PCP attitudes</b>                                     |                      |                      |
| Capacity very/moderately important                       | 0.53 [0.41, 0.68]**  | 0.59 [0.44, 0.79]**  |
| Reimbursement very/moderately important                  | 0.64 [0.51, 0.79]**  | 0.86 [0.67, 1.10]    |
| Specialist availability very/moderately important        | 0.95 [0.76, 1.17]    | 1.11 [0.86, 1.42]    |
| Illness burden of patients very/moderately important     | 1.02 [0.83, 1.27]    | 1.03 [0.81, 1.32]    |
| Psychosocial needs of patients very/moderately important | 1.10 [0.89, 1.37]    | 1.14 [0.89, 1.45]    |
| Provided care to the underserved in past 3 years         | 1.64 [1.33, 2.03]**  | 1.35 [1.05, 1.73]*   |
| Expressed commitment to caring for underserved           | 1.16 [1.13, 1.19]**  | 1.14 [1.11, 1.18]**  |
| <b>Practice characteristics</b>                          |                      |                      |
| Small practice with ≤5 providers (vs. large practice)    | 1.18 [0.95, 1.47]    | 1.27 [0.99, 1.63]    |
| Urban (vs. rural/suburban)                               | 0.69 [0.53, 0.89]*   | 0.97 [0.72, 1.31]    |
| Federally qualified health center (FQHC)                 | 2.40 [1.66, 3.47]**  | 1.08 [0.70, 1.65]    |
| Mental health co-location                                | 1.99 [1.42, 2.79]**  | 1.16 [0.79, 1.71]    |
| Predominant payer mix                                    |                      |                      |
| Private insurance  | [ref]                | [ref]                |
| Medicaid/HMP   | 9.04 [6.33, 12.91]** | 7.31 [5.05, 10.57]** |
| Medicare   | 1.66 [1.30, 2.13]**  | 2.04 [1.52, 2.73]**  |
| Mixed  | 6.88 [2.09, 22.72]*  | 3.76 [2.24, 6.30]**  |

<sup>a</sup> Logistic regression model with odds ratios, adjusted for covariates of gender, years in training, physician vs. non-physician provider, and all listed covariates.

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

## Changes in Practice

**Most PCPs reported an increase in new patients and in the number of new patients who hadn't seen a PCP in many years (Table 9).**

*Really the only thing I know about the expansion is in early 2014 we started getting a way lot more requests for a new patient visit than we've ever had before. I was just like, "what is going on? We don't get 25 requests for new patients/month." So when it started really climbing, that's when I figured out, "Okay. It's probably due to the Obamacare Medicaid expansion."*

– Urban physician; Small, private practice

**Most reported established patients who had been uninsured gained insurance. Fewer reported patients changing from other insurance to Healthy Michigan Plan (Table 9).**

*Your working poor people who just were in between the cracks, didn't have anything, and now they've got something, which is great.*

– Urban physician, FQHC

**Most practices hired clinicians and/or staff in the past year. Most reported consulting with care coordinators, case managers and/or community health workers in the past year. A substantial**

minority had newly co-located mental health within primary care within the past year (Table 10).

About a third of PCPs reported that the portion of established patients able to obtain a same- or next-day appointment had increased over the previous year (Table 11).

Large and FQHC practices were more likely to have hired new clinicians in the past year. Small, non-FQHC, academic and suburban practices and were less likely to report hiring additional staff (Table 12).

Large, MiPCT, and FQHC practices and those with predominantly private or uninsured payer mixes were all more likely to report consulting with care coordinators, case managers and/or community health workers in the past year (Table 12).

In multivariate analyses, FQHCs, those with predominantly uninsured, Medicaid and mixed payer mixes and suburban practices were more likely to report an increase in new patients. FQHCs, and those with predominantly Medicaid payer mix, were more likely to report existing patients who had been uninsured gained insurance, and an increase in the number of patients who hadn't seen a PCP in many years (Table 13 below, and Appendix A, Tables 15).

Large, FQHC, MiPCT, and rural practices, and those with predominantly Medicaid or uninsured patients, were more likely to have co-located mental health within the past year (Table 12).

**Table 9. Experiences of Practices Since April 2014**

| <i>To what extent has your practice experienced the following since Healthy Michigan Plan began in April 2014?</i> | To a great extent | To some extent | To a little extent | Not at all | Don't know |
|--|-------------------|----------------|--------------------|------------|------------|
| Increase in the number of new patients who haven't seen a primary care practitioner in many years (n=2,020)        | 24.6%             | 31.6%          | 20.1%              | 6.4%       | 17.3%      |
| Increase in number of new patients (n=2,021)   | 17.4%             | 34.9%          | 19.2%              | 9.6%       | 18.8%      |
| Existing patients who had been uninsured or self-pay gained insurance (n=2,019)                                    | 15.9%             | 34.7%          | 24.9%              | 5.3%       | 19.2%      |
| Existing patients changed from other insurance to Healthy Michigan Plan (n=2,019)                                  | 5.4%              | 26.2%          | 28.5%              | 8.7%       | 31.1%      |

**Table 10. Changes Made to PCP Practices Within the Past Year**

| <i>Has your practice made any of the following changes in the past year? (check all that apply)</i> | Checked | Not Checked‡ |
|---|---------|--------------|
| Hired additional clinicians (n=2,104)   | 53.2%   | 46.8%        |
| Hired additional office staff (n=2,104)   | 57.5%   | 42.5%        |
| Consulted with care coordinators, case managers, community health workers (n=2,104)                 | 55.8%   | 44.2%        |
| Changed workflow processes for new patients (n=2,104)   | 41.7%   | 58.3%        |
| Co-located mental health within primary care (n=2,104)  | 15.4%   | 84.6%        |

‡288 (13.7%) participants did not check any boxes indicating that their practice had made changes in the previous year. This data was factored into the "Not Checked" category for each potential response.

**Table 11. Availability of Urgent Appointments**

What proportion of your established patients who request a same- or next-day appointment at your primary practice can get one? (n=2,033)<sup>7</sup>

| Almost all >80%<br>(n=826) | Most<br>60-80%<br>(n=527) | About half<br>~50%<br>(n=237) | Some<br>20-40%<br>(n=287) | Few<br><20%<br>(n=122) | Don't<br>know<br>(n=34) |
|----------------------------|---------------------------|-------------------------------|---------------------------|------------------------|-------------------------|
| 40.6%                      | 25.9%                     | 11.7%                         | 14.1%                     | 6.0%                   | 1.7%                    |

Over the past year, this proportion has:

| Increased<br>(n=682) | Decreased<br>(n=316) | Stayed the same<br>(n=883) | Don't know<br>(n=123) |
|----------------------|----------------------|----------------------------|-----------------------|
| 34.0%                | 15.8%                | 44.1%                      | 6.1%                  |

**Table 12. Multivariate Analysis of Association of Practice Characteristics with Changes Made in PCP Practices Within the Past Year**

| <i>Has your practice made the following changes in the past year?</i> | Hired additional clinicians | Hired additional office staff | Consulted with care coordinator, case manager, or community health worker | Changed workflow processes for new patients | Co-located mental health within primary care |
|---|-----------------------------|-------------------------------|---|---|--|
| Practice size   |                             |                               |   |   |  |
| Large (ref)   | 71.8%                       | 67.8%                         | 68.2%   | 49.0%                                       | 18.3%  |
| Small   | 40.0%***                    | 52.6%***                      | 51.9%***  | 38.5%***                                    | 12.2%**                                      |
| Practice type   |                             |                               |   |   |  |
| FQHC (ref)  | 62.4%                       | 70.0%                         | 72.6%   | 44.2%                                       | 29.9%***                                     |
| Non-FQHC  | 52.1%**                     | 57.1%**                       | 56.1%***  | 42.8%                                       | 11.8%  |
| Academic (ref)  | 49.2%                       | 51.6%                         | 52.1%   | 39.6%                                       | 13.9%  |
| Non-academic  | 54.3%                       | 60.1%                         | 59.3%   | 43.5%                                       | 15.6%  |
| Hospital-based (ref)  | 51.6%                       | 59.3%                         | 55.1%   | 42.8%                                       | 11.2%**                                      |
| Not hospital-based  | 54.6%                       | 58.8%                         | 59.9%   | 43.1%                                       | 17.8%  |
| Predominant payer mix   |                             |                               |   |   |  |
| Private (ref)   | 54.8%                       | 60.0%                         | 62.3%   | 40.7%                                       | 11.0%  |
| Medicare  | 50.9%                       | 58.8%                         | 55.8%*  | 48.5%*                                      | 13.1%  |
| Medicaid  | 53.2%                       | 60.1%                         | 55.5%*  | 44.0%                                       | 19.7%***                                     |
| Uninsured   | 40.9%                       | 34.5%                         | 68.3%   | 40.5%                                       | 29.1%*                                       |
| Mixed   | 57.6%                       | 51.6%                         | 59.9%   | 35.1%                                       | 15.3%  |
| MiPCT   |                             |                               |   |   |  |
| Yes   | 52.8%                       | 60.0%                         | 78.0%***  | 44.4%                                       | 22.0%  |
| No  | 53.8%                       | 58.6%                         | 52.3%   | 42.5%                                       | 13.1%  |
| Urbanicity  |                             |                               |   |   |  |
| Urban (ref)   | 53.6%                       | 60.0%                         | 58.1%   | 41.5%                                       | 13.6%  |
| Suburban  | 52.6%                       | 50.5%*                        | 53.3%   | 45.5%                                       | 14.8%  |
| Rural   | 53.9%                       | 58.9%                         | 62.2%   | 48.3%                                       | 23.6%***                                     |

\*Proportions are the predictive margins from logistic regression models adjusted for each practice characteristic in the table, as well as PCP gender, specialty, ownership of practice, and years in practice.

All p-values are based on logistic regression analysis

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 13. Multivariate Analysis of Association of Practice Characteristics with Experiences of Practices Since April 2014**

| <i>To what extent has your practice experienced the following since the Healthy Michigan Plan began in April 2014?<sup>1</sup></i> | Increase number of new patients | Existing patients who had been uninsured or self-pay gained insurance | Existing patients changed from other insurance to Healthy Michigan Plan | Increase in the number of new patients who have not seen a primary care practitioner in many years |
|--|---------------------------------|---|---|--|
| All  | 52.3%                           | 50.6%   | 31.6%   | 56.2%  |
| Practice size  |                                 |   |   |  |
| Large (ref)  | 51.4%                           | 50.0%   | 28.9%   | 54.0%  |
| Small  | 51.7%                           | 51.2%   | 31.9%   | 57.8%  |
| Practice type  |                                 |   |   |  |
| FQHC (ref)   | 58.8%                           | 64.9%   | 32.6%   | 63.7%  |
| Non-FQHC   | 50.5%*                          | 48.5%***  | 30.3%   | 55.1%*   |
| Academic (ref)   | 52.9%                           | 53.5%   | 29.9%   | 59.2%  |
| Non-academic   | 51.3%                           | 50.2%   | 30.8%   | 55.7%  |
| Hospital-based (ref)   | 51.5%                           | 49.5%   | 28.3%   | 56.9%  |
| Not hospital-based   | 51.6%                           | 51.3%   | 31.7%   | 55.8%  |
| Predominant payer mix  |                                 |   |   |  |
| Private (ref)  | 39.4%                           | 41.5%   | 22.4%   | 46.2%  |
| Medicare   | 43.8%                           | 44.8%   | 25.0%   | 50.5%  |
| Medicaid   | 69.7%***                        | 64.7%***  | 43.0%***  | 72.4%***   |
| Uninsured  | 79.4%*                          | 59.1%   | 14.4%   | 61.5%  |
| Mixed  | 49.9%*                          | 50.4%   | 29.2%   | 49.7%  |
| Urbanicity   |                                 |   |   |  |
| Urban (ref)  | 51.0%                           | 49.5%   | 28.6%   | 56.7%  |
| Suburban   | 59.8%*                          | 55.6%   | 33.1%   | 60.3%  |
| Rural  | 49.1%                           | 53.7%   | 38.8%**   | 51.3%  |

Proportions are the predictive margins from logistic regression models adjusted for each practice characteristic in the table, as well as PCP gender, specialty, ownership of practice, and years in practice.

<sup>1</sup>Analyses based on sum of those who responded “to a great extent” or “to some extent” for the items below.

All p-values are based on logistic regression analysis

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

## Experiences Caring for Healthy Michigan Plan Beneficiaries

### Health Risk Assessment

**About four-fifths of PCPs who responded to the survey have completed at least one HRA with a patient; over half of those have completed more than 10 (Table 14).**

**Most PCPs reported their practice has a process in place for submitting HRAs, but not for identifying patients who needed HRAs completed. Some PCPs reported having been contacted by a health plan about a patient who needed to complete an HRA. Most don’t know whether they or their practice has received a financial incentive for completing HRAs (Table 15, Figure 2).**

**Most PCPs reported that financial incentives for patients and practices had at least a little influence**

**on completing HRAs. According to PCPs, patients' interest in addressing health risks had at least as much influence (Table 16, Figure 3).**

*We finally get the chance to do prevention because if someone doesn't have insurance and doesn't see a doctor, then there's no way we can do any kind of prevention. We're just kind of dealing with the end-stage results of whatever's been going on and hasn't been treated. So I mean what I've heard people say is "I just want to stay healthy or find out if I'm healthy," and to me that says a lot. We can at least find out where they stand in terms of chronic illness or if they have any or if they are healthy, how can we make sure that they stay that way?*

- Urban physician; Large, hospital-based practice

**Most PCPs found HRAs very or somewhat useful for identifying and discussing health risks, persuading patients to address their most important health risks, and documenting behavior change goals. About half found them very or somewhat useful for getting patients to change behavior (Table 17, Figure 4).**

*I recently... In the last month, I've signed up two people [for Weight Watchers] ...two or three people to that, and one of them is really sticking to it. She's already lost 10 pounds.*

- Urban physician; Small, private practice

**PCPs reported completing more HRAs if they were located in Northern regions, reported a Medicaid or uninsured predominant payer mix, payment by capitation or salary, compared to fee-for-service, receiving a financial incentive for completing HRAs, smaller practice size, and co-location of mental health in primary care (Appendix A, Table 22).**

**Table 14. Health Risk Assessment Completion**

Approximately how many Health Risk Assessments have you completed with Healthy Michigan Plan patients? (n=2,032)

| None (n=420) | 1-2 (n=235) | 3-10 (n=503) | More than 10 (n=874) |
|--------------|-------------|--------------|----------------------|
| 20.7%        | 11.6%       | 24.8%        | 43.0%                |

How often do your Healthy Michigan Plan patients bring in their Health Risk Assessment to complete at their initial office visit? (n=1,923)

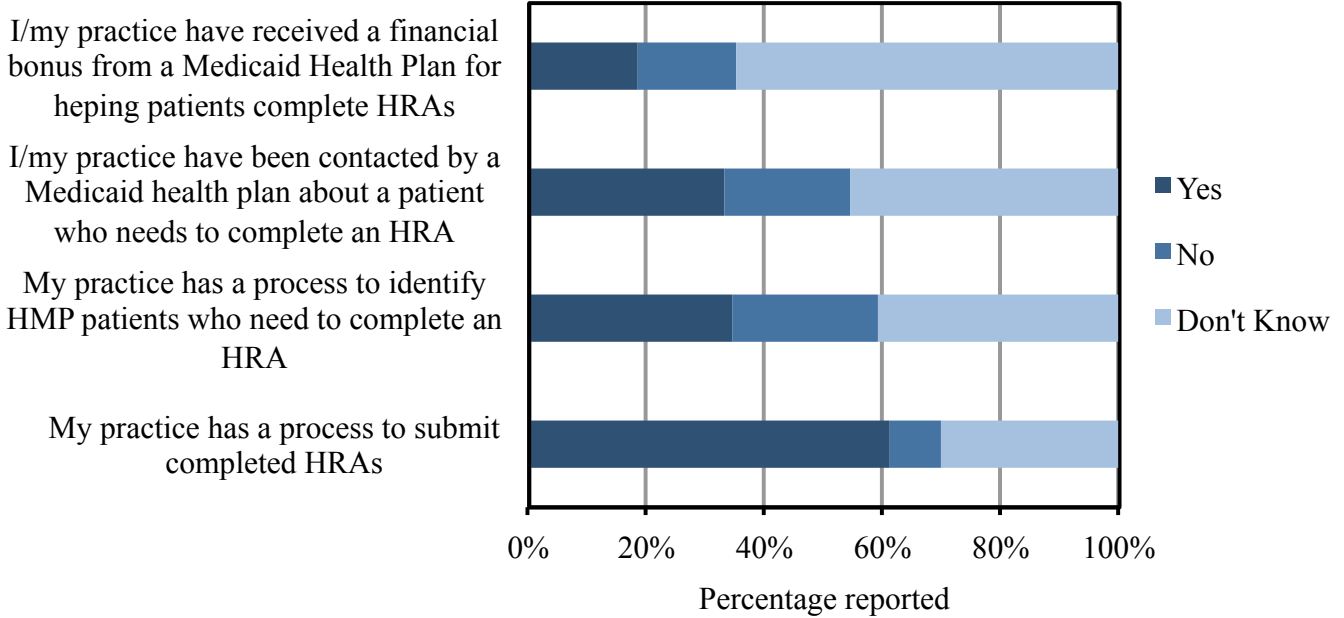
| Almost always (n=215) | Often (n=416) | Sometimes (n=720) | Rarely/never (n=572) |
|-----------------------|---------------|-------------------|----------------------|
| 11.2%                 | 21.6%         | 37.4%             | 29.7%                |

**Table 15. Experience with Health Risk Assessments**

| <i>Please report your experience with the following:</i>  | Yes   | No    | Don't know |
|---|-------|-------|------------|
| My practice has a process to submit completed HRAs to the patient's Medicaid Health Plan. (n=2,041)                     | 61.2% | 8.6%  | 30.1%      |
| My practice has a process to identify Healthy Michigan Plan patients who need to complete an HRA. (n=2,042)             | 34.1% | 25.2% | 40.7%      |
| I/my practice have been contacted by a Medicaid Health Plan about a patient who needs to complete an HRA. (n=2,040)     | 33.2% | 21.5% | 45.3%      |
| I/my practice have received a financial bonus from a Medicaid Health Plan for helping patients complete HRAs. (n=2,033) | 18.1% | 16.7% | 65.3%      |

**Figure 2. Experience with Health Risk Assessments**

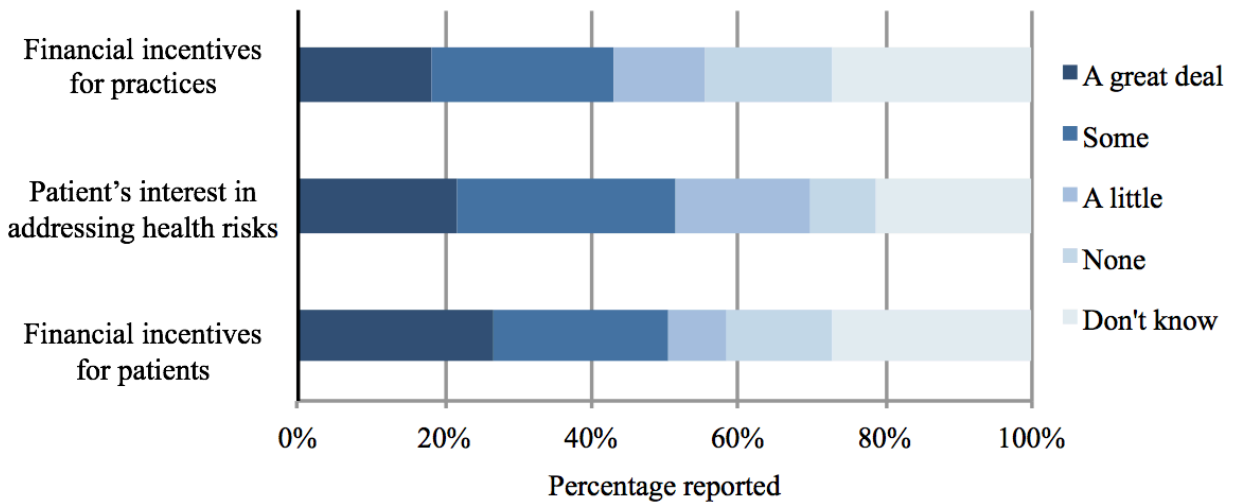
Please report your experience with the following:



**Table 16. Influence on Completing HRA**

| How much influence do the following have on completion and submission of the Health Risk Assessment? | A great deal | Some  | A little | No    | Don't know |
|--|--------------|-------|----------|-------|------------|
| Financial incentives for patients (n=2,046)  | 26.8%        | 23.8% | 7.6%     | 14.4% | 27.5%      |
| Patients' interest in addressing health risks (n=2,046)  | 21.4%        | 30.2% | 18.3%    | 8.8%  | 21.3%      |
| Financial incentives for practices (n=2,044)   | 18.3%        | 24.6% | 12.6%    | 17.3% | 27.3%      |

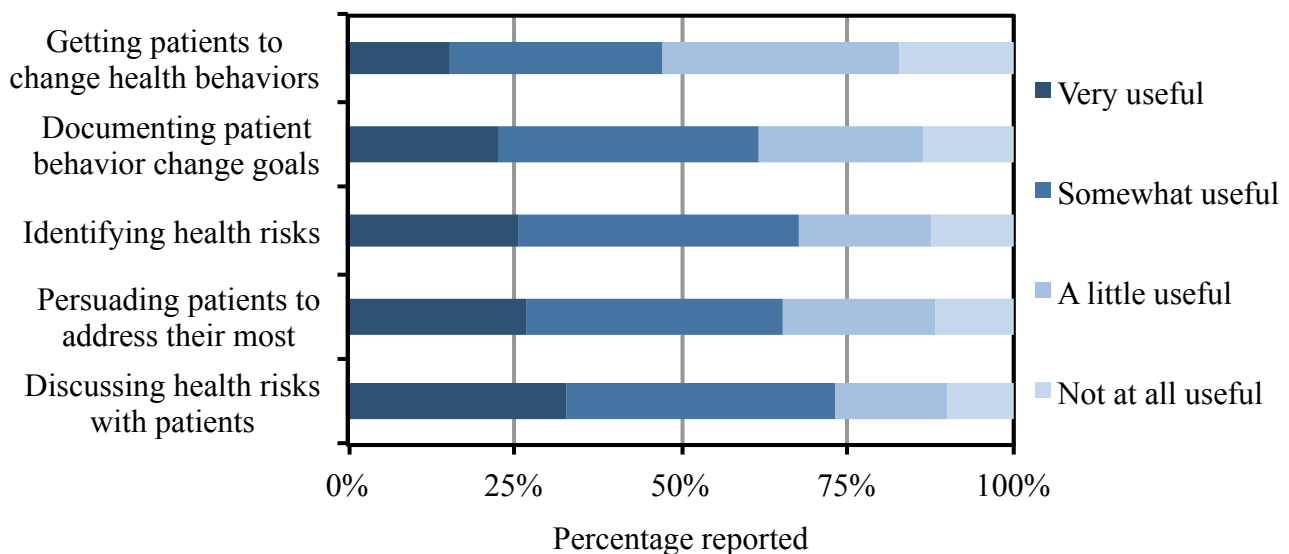
**Figure 3. Influence on Completing HRA**



**Table 17. Perceived Usefulness of HRA**

| <i>For Healthy Michigan Plan patients who have completed their HRA, how useful has this been for each of the following?</i> | Very useful | Somewhat useful | A little useful | Not at all useful |
|---|-------------|-----------------|-----------------|-------------------|
| Discussing health risks with patients (n=1,828)   | 32.9%       | 40.1%           | 17.0%           | 10.0%             |
| Persuading patients to address their most important health risks (n=1,828)  | 26.5%       | 38.9%           | 22.7%           | 11.9%             |
| Identifying health risks (n=1,833)  | 25.7%       | 42.0%           | 20.1%           | 12.2%             |
| Documenting patient behavior change goals (n=1,826)   | 22.4%       | 39.2%           | 24.6%           | 13.8%             |
| Getting patients to change health behaviors (n=1,821)   | 15.2%       | 32.0%           | 35.8%           | 17.0%             |

**Figure 4. Perceived Usefulness of HRA**



PCPs were more likely to report a process to identify patients who needed to complete an HRA if they reported (Appendix A, Table 2):

- Co-location of mental health within primary care
- Medicaid or uninsured predominant payer mix
- They or their practice had received an incentive for completing an HRA
- Their practice was located in Northern, Mid-state, or Detroit regions, compared with the Southern region

PCPs reported completing more HRAs if they reported (Appendix A, Table 22):

- Smaller practice size
- Co-location of mental health within primary care in the past year
- Medicaid or uninsured predominant payer mix
- Payment by capitation or salary, compared with fee-for-service
- They or their practice had received an incentive for completing an HRA
- Their practice was located in Northern regions of the state compared with other regions



We hypothesized that PCPs who identify a process in place at their practice for identifying patients who need to complete an HRA would report completing more HRAs and that was confirmed (Appendix A, Table 22). PCPs reporting greater familiarity with healthy behavior incentives and out of pocket expenses faced by patients also reported completing more HRAs.

**Estimates of HRA completion rates by PCPs**

It is not possible to link PCP surveys directly to HRA records, since the HRAs are linked to patients, and the PCP listed on the HRA does not have to be the assigned PCP (it could be any PCP within the plan). As a proxy, in July 2016 we retrieved the count of all HMP enrollees for whom the PCP respondent was the PCP of record, and the number of those enrollees who had a complete HRA on record (which may or may not have been completed by the PCP respondent) from the data warehouse. Since these data reflected the number of enrollees per PCP and the number of HRAs completed about one year after the survey, we cannot draw firm conclusions based on the relationship between survey responses and this data.

HRA completion rates by PCP are not quite normally distributed (Appendix A, Figure 1).

|   | Mean (SE)     | Median | Interquartile range (IQR) |
|---|---------------|--------|---------------------------|
| HMP member count                                      | 94 (2.6)      | 53     | 27-111                    |
| HRA completions                                       | 18 (0.62)     | 9      | 4-20                      |
| Rate of HRA completions (HRA completions/HMP members) | 19.6% (0.003) | 15.8%  | 9.5-25.9%                 |

We examined the relationship between HRA completion, as documented (attested) in the Data Warehouse, and provider characteristics, practice characteristics and PCP views of the HRA.

**PCP familiarity with the HRA was the only consistent predictor of HRA completion, particularly after sensitivity analyses adjusting for practice ID (Appendix A, Tables 20, 21).**

*ER Use and Decision Making*

**The majority of PCPs surveyed reported that they could influence ER utilization trends for their Medicaid patient population and nearly all accepted responsibility for playing a role in reducing non-urgent ER use. Many reported offering services to avoid non-urgent ER use, such as walk-in appointments, 24-hour telephone triage, weekend and evening appointments, and care coordinators or social work assistance for patients with complex problems, but were less likely to offer transportation services (Table 18).**

**PCPs who reported a greater sense of influence on ER use (Appendix Table 4):**

- Reported fewer years in practice
- Reported larger practice size
- Reported hiring new staff or clinicians in the past year
- Reported offering care coordination or social work assistance for patients with complex problems

**PCPs who reported a greater sense of responsibility for decreasing ER use (Appendix Table 4):**

- Reported fewer years in practice
- Were more likely to be non-physicians
- Reported larger practice size
- Reported practice changes in the past year including hiring new clinicians, consulting with care coordinators, case managers, or community health workers, changes in workflow, and newly co-locating mental health.

- Were more likely to report the availability of urgent appointments had increased
- Were more likely to report the availability of walk-in appointments and weekend and evening appointments at their practice
- Were more likely to report offering transportation assistance and care coordination or social work assistance

**PCPs reported that accessibility to pain medication and evaluations without appointments are major drivers of ER use, along with patients' comfort with accessing ER services (Table 19).**

*People who work day shift... It's easier for them to go to the ER or something for a minor thing because they don't have to take time off work. That's a big deal.*

– Rural physician; Small, private practice

*I think that a lot of it is cultural. I don't mean ethnic culture. I mean just culture... There are some people who that is just what they understand, and that is how they operate. They've seen people do it for years, and they've done it and they just feel comfortable with that.*

– Urban physician assistant, FQHC

**PCP views about other factors that affect ER use also influenced their sense of influence and responsibility (Appendix Table 4).**

**In multivariate analyses (Appendix Table 5), years in practice, Asian/Pacific Islander race and suburban location were associated with PCPs' sense of influence over ER use.**

**In multivariate analyses (Appendix Table 5), years in practice, non-physician status, practice size and changes in workflow in the past year and suburban location were associated with PCPs' sense of responsibility for ER use.**

When asked how to reduce non-urgent ER use (open-ended, write-in question), many respondent suggestions addressed **PCP availability** (e.g., increases in the workforce) and changes in **PCP practice** (e.g., extended hours, same-day appointments, improved follow-up). They also recommended gatekeeper strategies, non-primary care options (e.g., urgent care clinics) and greater use of care coordinators and case managers.

Some PCPs suggested **modifications to ER practice**, such as diversion to PCPs, nearby urgent care sites or reducing payment to hospitals/ER practitioners. Others recommended **limiting pain medication** prescriptions in the ER. A few PCPs suggested that the Emergency Medical Treatment and Labor Act (EMTALA) be changed to allow ER practitioners to more readily divert patients to other settings, along with altering the "litigation culture."

**Patient educational initiatives** were also recommended, for example to clarify "when to seek care," awareness of available alternative services, enhancing patient "coping" and self-management skills, as well as increased transparency on the costs associated with ER care.

Most commonly, PCPs recommended **patient penalties**. Financial penalties were overwhelmingly co-pays, or point-of care payment for ER visits, particularly for visits that do not result in a hospital admission or for patients deemed "high utilizers." Non-financial penalties included having the patient dismissed from the practice panel, or by the insurer.

Others suggested instituting **financial incentives to encourage patients to contact their PCP** prior to seeking ER care, or suggested both increasing out of pocket costs for ER visits while lowering or eliminating costs for visits to primary or urgent care.

How much can PCPs influence non-urgent ER use by their patients?

| A great deal (n=608) | Some (n=886) | A little (n=460) | Not at all (n=80) |
|----------------------|--------------|------------------|-------------------|
| 29.9%                | 43.6%        | 22.6%            | 3.9%              |

To what extent do you think it is your responsibility as a PCP to decrease non-urgent ER use?

| Major Responsibility (n=740) | Some Responsibility (n=1,035) | Minimal responsibility (n=212) | No responsibility (n=43) |
|------------------------------|-------------------------------|--------------------------------|--------------------------|
| 36.5%                        | 51.0%                         | 10.4%                          | 2.1%                     |

**Table 18. PCP Practice Offerings to Avoid Non-Urgent ER Use**

| <i>Does your practice offer any of the following to help Healthy Michigan Plan patients avoid non-urgent ER use?</i> | Yes   | No    | Don't know |
|--|-------|-------|------------|
| Walk-in appointments (n=2,010)   | 66.5% | 30.2% | 3.3%       |
| Assistance with arranging transportation to appointments (n=2,008)   | 30.6% | 57.0% | 12.4%      |
| 24-hour telephone triage (n=2,015)   | 74.0% | 21.7% | 4.2%       |
| Appointments during evenings and weekends (n=2,012)  | 55.8% | 40.7% | 3.5%       |
| Care coordination/social work assistance for patients with complex problems (n=2,008)                                | 56.5% | 33.5% | 10.1%      |

**Table 19. Influence on Non-Urgent ER Use**

| <i>In your opinion, to what extent do the following factors influence non-urgent ER use?</i> | Major influence | Minor influence | Little or no influence |
|--|-----------------|-----------------|------------------------|
| The ER will provide care without an appointment (n=2,030)                                    | 82.7%           | 13.4%           | 3.8%                   |
| Patients believe the ER provides better quality of care (2,026)                              | 16.8%           | 39.4%           | 43.8%                  |
| The ER offers quicker access to specialists (n=2,028)  | 30.3%           | 35.7%           | 34.1%                  |
| Hospitals encourage use of the ER (n=2,012)  | 18.7%           | 28.7%           | 52.6%                  |
| The ER offers access to medications for patients with chronic pain (n=2,031)                 | 50.7%           | 31.8%           | 17.5%                  |
| The ER is where patients are used to getting care (n=2,023)                                  | 59.5%           | 31.3%           | 9.2%                   |

## Access

**PCPs with Healthy Michigan Plan patients who were previously uninsured reported some or great impact on health, health behavior, health care and function for those patients. The greatest impact was reported for control of chronic conditions, early detection of serious illness, and improved medication adherence (Table 20).**

*One patient...a 64-year-old gentleman who has lived in Michigan or at least lived in the United States for 40 years and had never pursued primary care. Upon receiving health insurance and upon his daughter's recommendation, he pursued care and that was his first...according to him, his first physical evaluation of any sort in 40 years, and he has just.... It wasn't a full health maintenance exam. It was a new patient evaluation, and in the time in that initial evaluation he was found to be hypertensive. Upon subsequent labs, you know, ordered on that visit, he was found to be diabetic and*

upon routine referral at that initial visit for an eye exam, given his hypertension, he was found to have had...hemianopia, which later was determined to be caused by a prior stroke.

- Urban physician assistant, FQHC

Well, I learned a long time ago if the patient doesn't take the medicine, they don't get better. There are a lot of different reasons they don't take it, but the easy one is that if they don't have insurance to cover it and they don't ever pick it up, then they're not going to take it...if they have financial barriers to getting that done, they're not going to get it done. So I'd say it has a humungous effect.

- Rural physician, FQHC

**PCPs reported that Healthy Michigan Plan patients, compared to those with private insurance, more often had difficulty accessing specialists, medications, mental health care, dental care, treatment for substance use and counseling for behavior change (Table 21).**

It can still take up to six months to see a psychiatrist unless you get admitted to the hospital... the ones that work for the hospital that don't take Medicaid or Medicare. And then at discharge, you really aren't going to see the other psychiatrist any quicker. It's kind of a mess. But I don't blame Medicaid expansion for that. It was a mess before then.

- Urban physician; Small, private practice

He has a job that I think he gets paid \$9/hour to work, and he's like a super hard-working guy....I think his son has like...is 14 years old with...mental disabilities,....So now we're talking about a man that needs to get a super expensive medication....Although I feel like I'm a great primary care doc, sometimes, you know, those medications and the follow-up need to probably...There needs to be a team....some teamwork between the rheumatologist and the primary care doctor, and we couldn't get him back in.

- Urban physician, FQHC

**Table 20. Impact of Healthy Michigan Plan on Previously Uninsured Patients**

Please think about what has changed for your patients who were previously uninsured and are now covered by the Healthy Michigan Plan. Rate the extent to which you think HMP has had an impact on each of the following for these patients:

|   | Great impact | Some impact | Little impact | No impact | Don't know |
|---|--------------|-------------|---------------|-----------|------------|
| Better control of chronic conditions (n=2,005)    | 35.0%        | 39.4%       | 6.9%          | 1.5%      | 17.3%      |
| Early detection of serious illness (n=2,002)      | 33.7%        | 37.4%       | 7.6%          | 2.0%      | 19.3%      |
| Improved medication adherence (n=2,004)           | 28.3%        | 40.8%       | 10.7%         | 2.7%      | 17.5%      |
| Improved health behaviors (n=2,005)               | 16.1%        | 40.4%       | 18.9%         | 5.3%      | 19.3%      |
| Better ability to work or attend school (n=2,003) | 13.1%        | 33.0%       | 19.9%         | 5.7%      | 28.3%      |
| Improved emotional wellbeing (n=2,004)            | 16.4%        | 40.6%       | 17.4%         | 3.8%      | 21.9%      |
| Improved ability to live independently (n=2,002)  | 11.9%        | 29.6%       | 21.9%         | 7.0%      | 29.5%      |

**Table 21. Reported Frequency of Access Difficulty – Healthy Michigan Plan Patients**

|  | Often | Sometimes | Rarely | Never | Don't know |
|--|-------|-----------|--------|-------|------------|
| <i>How often do Healthy Michigan Plan patients have difficulty accessing the following?<sup>7</sup></i>  |       |           |        |       |            |
| Specialists **+ (n=2,059)  | 31.3% | 35.4%     | 6.7%   | 0.9%  | 25.7%      |
| Medications **+ (n=2,058)  | 15.6% | 43.1%     | 16.0%  | 1.8%  | 23.5%      |
| Mental Health Care **+ (n=2,059)   | 34.5% | 25.4%     | 9.4%   | 1.7%  | 29.0%      |
| Dental/Oral Health Care **+ (n=2,061)  | 30.2% | 17.5%     | 6.4%   | 1.1%  | 44.8%      |
| Treatment for substance use disorder **+ (n=2,058)   | 28.9% | 21.7%     | 7.3%   | 1.5%  | 40.6%      |
| Counseling and support for health behavior change **+ (n=2,060)  | 26.0% | 26.4%     | 10.6%  | 2.7%  | 34.4%      |
| <i>How often do your privately insured patients have difficulty accessing the following?<sup>7</sup></i> |       |           |        |       |            |
| Specialists **+ (n=2,074)  | 3.4%  | 31.3%     | 48.6%  | 13.2% | 3.4%       |
| Medications **+ (n=2,074)  | 6.6%  | 50.8%     | 34.7%  | 4.7%  | 3.3%       |
| Mental Health Care **+ (n=2,072)   | 17.7% | 43.1%     | 26.6%  | 6.0%  | 6.6%       |
| Dental/Oral Health Care **+ (n=2,072)  | 7.5%  | 30.5%     | 30.1%  | 6.4%  | 25.5%      |
| Treatment for substance use disorder **+ (n=2,071)   | 14.7% | 38.6%     | 25.4%  | 4.7%  | 16.6%      |
| Counseling and support for health behavior change **+ (n=2,072)  | 12.4% | 38.7%     | 31.3%  | 6.9%  | 10.7%      |

\*\*p<.001 paired t-test comparing don't know responses for HMP and privately insured patients

+p<.001 Wilcoxon signed-rank test comparing responses for HMP and privately insured patients

### **Discussing Costs with Patients**

Given the cost-sharing features of Healthy Michigan Plan, we asked PCPs about conversations they may have had with patients about out-of-pocket costs.

**About one-fifth of PCPs reported discussing out-of-pocket costs with a Healthy Michigan Plan patient. The patient was more likely than the PCP to bring up the topic. About half the time the discussion resulted in a change of management plans.**

*They don't have that stigma any longer of not being insured and there's not that barrier between us about them worrying about the money, even though we really never made a big deal of it, but they could feel that. I don't know. I think they feel more worth.*

– Rural physician; Small, private practice

We hypothesized that PCPs' likelihood of having cost conversations would vary by their PCPs' personal, professional and practice characteristics.

**In multivariate analyses, we found that PCPs who were white, Hispanic/Latino, non-physician practitioners and with Medicaid or uninsured predominant payer mixes were more likely to have cost conversations with patients. PCPs with fewer years in practice and in rural practices were**

more likely to report a change in management due to cost conversations with patients (Tables 22, 23).

Have you ever discussed out-of-pocket medical costs with a Healthy Michigan Plan patient? (n=1,988)

|             |              |
|-------------|--------------|
| Yes (n=445) | No (n=1,543) |
| 22.4%       | 77.6%        |

Thinking of the most recent time you discussed out-of-pocket medical expenses with a Healthy Michigan Plan patient, who brought up the topic? (n=440)

|                     |            |                                      |             |
|---------------------|------------|--------------------------------------|-------------|
| The patient (n=247) | Me (n=171) | Somebody else in the practice (n=16) | Other (n=6) |
| 56.1%               | 38.9%      | 3.6%                                 | 1.4%        |

Thinking of the most recent time you discussed out-of-pocket medical expenses with a Healthy Michigan Plan patient, did the conversation result in a change in the management plan for the patient? (n=440)

|             |            |                       |
|-------------|------------|-----------------------|
| Yes (n=248) | No (n=131) | Don't remember (n=61) |
| 56.4%       | 29.8%      | 13.9%                 |

**Table 22. Unadjusted Association of PCP Personal, Professional and Practice Characteristics with Frequency of Cost Conversations and Change in Clinical Management due to Cost Conversations**

|                                     | %                   |  |
|-------------------------------------|---------------------|--|
|                                     | Cost Conversations† | Change in Management due to Cost Conversation‡ |
| <b>Personal characteristics</b>     |                     |  |
| Gender                              |                     |  |
| Male (n=345)                        | 20.5%*              | 52.7%  |
| Female (n=348)                      | 24.7%               | 60.2%  |
| Race                                |                     |  |
| White (n=571)                       | 24.3%**             | 56.0%  |
| Black/African American (n=22)       | 15.4%               | 57.1%  |
| Asian/Pacific Islander (n=39)       | 12.3%               | 60.9%  |
| Other/More than one (n=28)          | 17.5%               | 55.6%  |
| Ethnicity                           |                     |  |
| Hispanic/Latino (n=23)              | 33.3%               | 53.3%  |
| Not Hispanic/Latino (n=650)         | 22.0%               | 56.9%  |
| <b>Professional characteristics</b> |                     |  |
| Provider type                       |                     |  |
| Physician (n=517)                   | 20.4%**             | 54.1%  |
| Non-physician (NP or PA) (n=176)    | 32.2%               | 63.6%  |
| Specialty                           |                     |  |
| Family medicine (n=349)             | 21.6%**             | 52.2%*   |
| Internal medicine (n=154)           | 17.8%               | 61.7%  |
| Other physician specialty (n=14)    | 21.6%               | 27.3%  |
| Non-physician (NP or PA) (n=176)    | 32.2%               | 63.6%  |
| Years in practice                   |                     |  |
| <10 years (n=213)                   | 25.1%               | 69.6%*   |
| 10-20 years (n=206)                 | 20.8%               | 54.1%  |
| >20 years (n=256)                   | 22.8%               | 49.7%  |

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|  |         |        |
|--|---------|--------|
| Prior care for underserved patients        |         |        |
| Yes (n=445)                                | 25.8%** | 57.1%  |
| No (n=233)                                 | 18.1%   | 55.4%  |
| <b>Practice characteristics</b>            |         |        |
| Practice size                              |         |        |
| Small (≤5 providers) (n=393)               | 23.2%   | 56.4%  |
| Large (>5 providers) (n=284)               | 22.1%   | 57.9%  |
| FQHC practice                              |         |        |
| Yes (n=152)                                | 31.4%** | 61.7%  |
| No (n=535)                                 | 20.8%   | 54.8%  |
| University/teaching hospital practice      |         |        |
| Yes (n=75)                                 | 18.3%   | 57.5%  |
| No (n=605)                                 | 23.0%   | 56.5%  |
| Hospital-based practice (non-teaching)     |         |        |
| Yes (n=216)                                | 22.0%   | 62.1%  |
| No (n=464)                                 | 22.5%   | 54.2%  |
| Payer mix                                  |         |        |
| Medicaid/Uninsured predominant (n=281)     | 26.4%*  | 58.8%  |
| Private/Medicare/Other predominant (n=360) | 20.0%   | 55.7%  |
| <b>Practice characteristics</b>            |         |        |
| Urbanicity                                 |         |        |
| Urban (n=480)                              | 20.9%*  | 54.4%* |
| Suburban (n=62)                            | 22.7%   | 47.6%  |
| Rural (n=151)                              | 29.3%   | 67.4%  |
| <i>Total</i>                               | 22.4%   | 56.4%  |

†Percent among total respondents

‡Percent among those respondents who had a cost conversation

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 23. Multivariate Association of PCP Personal, Professional and Practice Characteristics with Likelihood of Cost Conversations, and Likelihood of Change in Clinical Management due to Cost Conversations**

|                                 | Adjusted Odds Ratio†<br>[95% CI] |   |
|---------------------------------|----------------------------------|---|
|                                 | Odds of Cost Conversation        | Odds of Change in Management due to Cost Conversation |
| <b>Personal characteristics</b> |                                  |   |
| Male                            | 0.82 [0.63, 1.05]                | 0.91 [0.58, 1.41]                                     |
| Race                            |                                  |   |
| White                           | [ref]                            | [ref]   |
| Black/African American          | 0.52 [0.28, 0.96]*               | 0.92 [0.29, 2.93]                                     |
| Asian/Pacific Islander          | 0.43 [0.27, 0.70]*               | 1.37 [0.54, 3.46]                                     |
| Other/More than one             | 0.65 [0.36, 1.17]                | 1.60 [0.52, 4.94]                                     |
| Ethnicity, Hispanic/Latino      | 2.11 [1.08, 4.12]*               | 0.93 [0.31, 2.77]                                     |

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| <b>Professional characteristics</b>          |                    |                    |
|--|--------------------|--------------------|
| Provider type, physician (ref=non-physician) | 0.71 [0.51, 0.99]* | 0.96 [0.54, 1.73]  |
| Years in practice                            |                    |                    |
| <10 years                                    | [ref]              | [ref]              |
| 10-20 years                                  | 0.81 [0.60, 1.09]  | 0.52 [0.30, 0.89]* |
| >20 years                                    | 1.04 [0.77, 1.42]  | 0.47 [0.27, 0.82]* |
| <b>Practice characteristics</b>              |                    |                    |
| Payer mix                                    |                    |                    |
| Medicaid/Uninsured predominant               | 1.31 [1.02, 1.69]* | 0.95 [0.60, 1.51]  |
| Private/Medicare/Other predominant           | [ref]              | [ref]              |
| Urbanicity                                   |                    |                    |
| Urban  | 0.82 [0.60, 1.11]  | 0.62 [0.35, 1.11]  |
| Suburban                                     | 0.70 [0.45, 1.11]  | 0.41 [0.18, 0.95]* |
| Rural  | [ref]              | [ref]              |

Logistic regression models with adjusted odds ratios. Models are adjusted for all listed variables.

†Each column represents a different multivariate model

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

### Suggestions for Improvement and Impact of the Healthy Michigan Plan

We provided PCPs open-ended opportunities in the survey to provide additional information, including asking them for suggestions to improve and impact of the Healthy Michigan Plan.

#### Suggestions from PCPs included the following:

- Ways to increase patient responsibility
- Need for increased patient education about health insurance, health behaviors, primary care, appropriate ER use, and medication adherence
- Improve accessibility to and availability of other practitioners (especially specialists including mental health and addiction providers)
- Increase reimbursement to encourage practitioners to participate
- Need for increased provider education and up-to-date information about what is/is not covered, program features, administrative processes, billing for HRA completion, and costs faced by patients
- Need for better coverage for some specific services (e.g., behavioral health, physical therapy)
- Formularies are too limited, lack transparency, and require too much paperwork to obtain authorization for necessary prescription drugs
- Suggested streamlining formularies between Medicaid plans, keeping an updated list of preferred medications and more transparency around medication rejections
- Reduce the complexity of paperwork
- HRA had mixed responses; some saw it as more paperwork or redundant with existing primary care practice, others saw it as worthwhile
- Patient churn on and off and between types of coverage is challenging, especially because patients are often unaware of the change

#### Impact of the Healthy Michigan Plan:

- Many respondents reported that Healthy Michigan Plan had a positive impact by allowing patients to get much needed care, improving financial stability, providing a sense of dignity, improving mental health, increasing accessibility to care and compliance (especially with medications), helping people to engage in healthy behaviors like quitting smoking, and saving lives



- Some reported a negative impact, saying that it has “opened a flood gate” and there are not enough practitioners, that too many new patients are seeking [pain] medications, and that it even influenced their decision to change careers or retire

## RESULTS FROM IN-DEPTH INTERVIEWS WITH PRIMARY CARE PRACTITIONERS

The results section begins with a brief description and summary table of the characteristics of 19 primary care providers who care for Medicaid/HMP patients, and who participated in in-depth semi-structured telephone interviews between December 2014 and April 2015. The next section provides key findings from those interviews. The main topics appear in boxes, followed by key findings in bold font, a brief summary explanation in regular font, if indicated, and illustrative quotations, in italics. Additional excerpts can be found in Appendix B.

### Characteristics of Primary Care Practitioners Interviewed

Between December 2014 and April 2015, we conducted 19 semi-structured telephone interviews with sixteen physicians (84%) and three non-physician (16%) primary care practitioners. Of the sixteen physicians interviewed, fourteen specialized in family medicine (88%) and two in internal medicine (12%). Five of these providers practiced in the City of Detroit (26%); four practiced in Marquette, Baraga, or Iron County (21%); four practiced in Kent County (21%); three in Midland, Bay, or Saginaw County (16%); and three in Alcona, Alpena, or Oscoda County (16%). PCPs interviewed came from both urban and rural settings, had a range of years in practice, included private practices, hospital-based practices, Federally Qualified Health Centers, rural clinics and free/low-cost clinics.

**Table 24. Personal, Professional and Practice Characteristics of PCP Interviewees (N=19)**

| Personal characteristics                        |    |    |
|---|----|----|
| Gender  | N  | %  |
| Male  | 12 | 63 |
| Female  | 7  | 37 |
| Professional characteristics                    |    |    |
| Provider type                                   |    |    |
| Physician                                       | 16 | 84 |
| Non-Physician (NP/PA)                           | 3  | 16 |
| Specialty                                       |    |    |
| Family medicine                                 | 14 | 74 |
| Internal medicine                               | 2  | 11 |
| Nurse practitioner (NP)                         | 1  | 5  |
| Physician's Assistant (PA)                      | 2  | 11 |
| Years in practice                               |    |    |
| <10 years                                       | 5  | 26 |
| 10-20 years                                     | 6  | 32 |
| >20 years                                       | 8  | 42 |
| Practice characteristics                        |    |    |
| Presence of non-physician providers in practice |    |    |
| Yes   | 16 | 84 |
| No  | 3  | 16 |
| Practice type                                   |    |    |
| Federally qualified health center (FQHC)        | 5  | 26 |
| Large/hospital-based practice                   | 3  | 16 |
| Free/low-cost clinic                            | 2  | 11 |
| Practice type                                   |    |    |
| Small, private practice                         | 7  | 37 |
| Rural health clinic                             | 2  | 11 |

*Continued on next page*

Continued from previous page

| Practice characteristics | N  | %  |
|--------------------------|----|----|
| Urbanicity               |    |    |
| Urban                    | 12 | 63 |
| Rural                    | 7  | 37 |

Interview results are presented in the following format:

**Key Findings**

Representative quote(s)

**PCP Understanding of Healthy Michigan Plan and its Features**

**There was significant variation among the PCPs in their understanding of the Healthy Michigan Plan and its features, and therefore their ability to navigate or help patients obtain services.**

*I had a ton of exposure during the development and the implementation of Healthy Michigan because we were trying to get all of our thousands of enrollees [on the county health plan] onto Healthy Michigan. So that would be back when I first heard about it.*

– Urban physician, FQHC

*Really the only thing I know about the expansion is in early 2014 we started getting a way lot more requests for a new patient visit than we've ever had before. I was just like, "what is going on? We don't get 25 requests for new patients/month." So when it started really climbing, that's when I figured out, "Okay. It's probably due to the Obamacare Medicaid expansion."*

– Urban physician; Small, private practice

*I'm not aware of a change in how patients can get access to care with regards to transportation since Healthy Michigan has begun. Is there...I don't know...Is there some additional payment available for patients to get to doctors and dentists with Healthy Michigan?*

– Rural physician; Large, hospital-based practice

**Many PCPs perceived that the Healthy Michigan Plan cost-sharing requirements may create some misunderstandings among patients but were supportive of patients making financial contributions to their care.**

*The only significant difficulty that I foresee is with the copay issue. I have a concern that patients see this as free for the first six months, and now all of a sudden are confronted with a bill that they don't understand how they got.*

– Urban physician, Free/low-cost clinic

*We've got it posted in the front where people exit, and I looked at the amounts and thought, "Well, it's pretty fair actually." You know, it's not break the bank copays, but it gets people to think, "Well, yeah, you know, that's less than the cost of a pack of cigarettes."*

– Rural physician, Rural health clinic

*For the most part, the patients have it all filled out ahead of time ... And then the nurse puts in their vitals, their last cholesterol and things like that on that sheet. We look that over and answer a couple of questions on the back.*

– Rural physician, FQHC

*The health risk assessments. So, part of my selling point is, "Okay, you're going to get half off on your copays. We've done it. You're set," you know, kind of thing. While that doesn't totally engage them in the process (LAUGHTER), you know, we continue to work on that.*

– Urban physician, FQHC

*Some of the plans, and I think these might be the Medicare/Medicaid plans, have offered patients like a gift card or something, and that has prompted a lot of patients to really make sure that we fill those forms out, but I don't recall patients really telling me, "Well, I have to pay a low copay because you fill out this form for me."*

– Urban physician; Large, hospital-based practice

**PCPs found the Healthy Michigan Plan's Health Risk Assessment useful for identifying health risks, disease detection, discussing risks with patients, and setting health goals.**

*...In the last month, I've signed up two people [for Weight Watchers] ...two or three people to that, and one of them is really sticking to it. She's already lost 10 pounds. She really likes it. She's hoping that she can get an extension on it. The other two I haven't really heard back from yet. They just started it, but I personally think that's a great benefit because a lot of people need education on how to properly eat and what a good diet actually is instead of just Popeye's chicken.*

– Urban physician; Small, private practice

*There were some people that came in with the Healthy Michigan plan and their health risk assessment, although I don't remember anybody that said, "Hey, you have no issues." It was at least, "You need to stop smoking," or "work on your diet or exercise," and "get a flu shot," if not needing management for diabetes or asthma or other things like that.*

– Rural physician, FQHC

**PCP Decision Making on Acceptance of Medicaid/Healthy Michigan Plan Patients**

**PCPs described influences on the Medicaid acceptance decision at the provider level (illness burden and psychosocial needs of Medicaid patients), practice level (capacity to see both new and established patients), health system level (availability of specialists and administrative structures), and the policy environment level (reimbursement).**

*There are days when we'll look at each other and it's like, "I think we've got enough people like that." It's like the person who takes the energy of dealing with six ordinary people.*

– Rural physician assistant, Rural health clinic

*It has to do with what our capacity is. So looking at schedules, looking at next appointments, are we able to adequately care for the patients that we're currently responsible for.*

– Urban physician, Free/low-cost clinic

*I think the actual decision as to whether to accept Healthy Michigan patients ... is made ... at a higher level... It's at the health system level... I wouldn't really be involved in making that decision, nor would most of my clinic leadership.*

– Urban physician; Large, hospital-based practice

*I've been hearing about [the Medicaid/Medicare primary care rate bump], but I don't feel like I've paid attention to details.*

– Urban physician; Large, hospital-based practice

*For our clinic, [reimbursement amount] plays no role in whether we accept more Medicaid patients ... we're gonna serve that population and take care of them ... We'll do whatever reasonably we can do to get paid for that, but that doesn't make or break the decision whether we're going to do that.*

– Urban physician, Free/low-cost clinic

*[A]s long as the rural health center plans still pay me adequately, I don't foresee making any changes. If they were to all of a sudden say, "Okay, we're only going to reimburse 40% or 50% of what we used to," that would be enough to put me out of business. So I would think twice about seeing those patients then, but as long as they continue the way they have been for the last six years that I've owned the clinic, I don't see making any changes. It works just fine.*

– Rural nurse practitioner, Rural health clinic

## **Overall Impact of Healthy Michigan Plan on Beneficiaries**

### **Many of the PCPs interviewed had favorable views of the Healthy Michigan Plan and its overall benefits for patients and health systems.**

*I think...I hate to tell you, but so far everything has been easier. I don't know that I've had anything that's worse. There might be something with drugs as far as ordering stuff, but across the board that's not just Healthy Michigan. I mean they want us to use generics. We're happy to do that. Once in a while, a generic is not going to do it, but I don't think I've had...I can't think of anything that is really negative about it. It's like...People just...I think they're just...They're thankful for it. People aren't overly demanding. They're not coming in acting like, "I deserve this. I want an MRI of my entire body. Nobody's like that, you know? They just...It's like, you know...It's really...It's kind of a nice working together partnership. It's like I usually tell people, "Let's get you caught up." It has become my motto for that. It's like, "We're gonna get you caught up."*

– Rural physician assistant, Free/low-cost clinic

*Yes. [E]very single day this law has changed my patients' lives...So I get to be in this special niche where I feel like I have a front row seat to the good things that happen as a result of Healthy Michigan.... So for example, half the patients I would see pre-Healthy Michigan had essentially nothing in terms of health insurance, right?... I could almost do no labs. I could do very limited health maintenance. I certainly could do no referrals and had a really difficult time getting any type of imaging or substantive workup apart from a physical exam and some in-house kind of labs because people were petrified of the bills that would accumulate.*

– Urban physician, FQHC

*You know, the Healthy Michigan part has made a big difference...The idea of more people having insurance is good for everyone. Now we'll see long-term in terms of the cost and everything. I know that's a big challenge, but there's no doubt...Like the reimbursement of specifically the hospitals in the city, they're doing much better knowing that a lot of the patients that never had insurance before, do have insurance and that they can get some reimbursement instead of having to, you know, worry about some of the challenges of, you know, unnecessary care.*

– Urban physician, FQHC

*This program is helping people. It's helping working people, not the totally indigent people who are on disability who are already getting things. These are people...like a parent, a relative of yours that's been working and can't afford the insurance which is ridiculous.*

– Urban physician; Small, private practice

*Many of these people are working and so they're going to be able to continue working and paying taxes and contributing to society, where if you ignore your diabetes and you ignore your blood*

*pressure, eventually you might end up losing limbs, losing your kidneys. Now you're on disability and, oh look, now you qualify for Medicaid.*

– Urban physician; Small, private practice

**PCPs noted that their patients were relieved of the stigma and worry associated with not being able to pay for needed care, and able to get needed services they could not previously afford.**

*They don't have that stigma any longer of not being insured and there's not that barrier between us about them worrying about the money, even though we really never made a big deal of it, but they could feel that. I don't know. I think they feel more worth.*

– Rural physician; Small, private practice

*People are definitely more receptive to the idea of talking about healthcare maintenance items now as opposed to just wanting to deal with the acute issue. It may be because they feel less stressed about the ability to actually be able to get the test done because they understand that it's a...It's a benefit covered under the insurance.*

– Urban physician, FQHC

**The positive impact of the Healthy Michigan Plan has had a ripple effect in encouraging people to get covered and seek needed care.**

*Not only are they maybe talking to other people who are then applying and have applied and have gotten the insurance coverage...It just seems like more people are coming, both uninsured and insured because they maybe heard good things about the ease with which they've been able to get care or they've seen how maybe other peoples' circumstances have seemingly changed. I just feel like there's been kind of...a positive ripple effect of people just pursuing care, whether insured or not.*

– Urban physician, FQHC

*I know a lot of people that didn't have access to healthcare before are getting it now. The ones who were able to get Medicaid that weren't otherwise qualified for it before are starting to get help now, and we're able to find the conditions that they have never been able to get tested for before and treat them for it.*

– Urban physician; Small, private practice

### **Healthy Michigan Plan is Meeting Many Unmet Health Needs**

**PCPs reported many examples of patients with unmet health care needs, whose health and well-being greatly improved after enrolling in Healthy Michigan Plan. This was particularly true for patients who were previously uninsured and for those with chronic illness (e.g., diabetes, asthma, hypertension) that were often diagnosed after enrolling in Healthy Michigan Plan.**

*Upon receiving health insurance and upon his daughter's recommendation, he [patient in his early 60s] pursued care and that was his first ...according to him, his first physical evaluation of any sort in 40 years, and he has just...It wasn't a full health maintenance exam. It was a new patient evaluation, and in the time in that initial evaluation he was found to be hypertensive. Upon subsequent labs, you know, ordered on that visit, he was found to be diabetic and upon routine referral at that initial visit for an eye exam, given his hypertension, he was found to have had...hemianopia, which later was determined to be caused by a prior stroke.*

– Urban physician, FQHC

*A lot of neglected... A lot of chronic diseases that have been neglected. Because before, what would suddenly make that person decide to come in and see the doctor and pay out of pocket if they hadn't*

*been doing that for three years? There's nothing to make them come in and take care of it. They wanted to, but they couldn't afford it. They weren't even seeing anybody. Now suddenly, there's this opportunity to get health insurance or to get Medicaid, and so now they are coming to the doctor because they know that they need to get their diabetes under control.*

- Urban physician; Small, private practice

*She's only 33 and I had five diagnoses at the end.... it's even double that if you're 70. They waited all this time. They haven't had a doctor; you have to, at least, touch on everything the first time you see them... you have to know what's wrong with them.*

-Urban physician; Small, private practice

*So yesterday I had a patient... The guy's got totally uncontrolled diabetes.... He's like 53. He hadn't been to a doctor, he thinks, since his twenties. The only reason he came in . . .because he got this new insurance. He had his little health risk assessment. He's like, "Alright. I'm going in."*

-Urban physician, FQHC

**PCPs reported an increased ability to provide preventive services and tests that had previously been an unmet need.**

*I know a lot of people that didn't have access to healthcare before are getting it now. The ones who were able to get Medicaid that weren't otherwise qualified for it before are starting to get help now, and we're able to find the conditions that they have never been able to get tested for before and treat them for it.*

- Urban physician; Small, private practice

*I think on one level, it's a sense of relief that they don't have to go to the ER for urgent things, that they can come to us first if it's something that we can handle, and then just having a chance to confirm that either they're healthy or that there are issues that they need to work on. I guess from my perspective is that we finally get the chance to do prevention because if someone doesn't have insurance and doesn't see a doctor, then there's no way we can do any kind of prevention. We're just kind of dealing with the end-stage results of whatever's been going on and hasn't been treated. So I mean what I've heard people say is "I just want to stay healthy or find out if I'm healthy," and to me that says a lot.*

- Urban physician; Large, hospital-based practice

*We're taking care of the comorbidities before they happen. In the long run, the program is going to pay for itself. We're identifying diabetics. Hypertension is rampant.*

-Urban physician; Small, private practice

**Coverage for dental services, prescription drugs, and mental health services were specifically noted as unmet needs being addressed by the Healthy Michigan Plan. Access to these services were described "as a lifesaver." PCPs reported increased ability to connect people to needed services, though challenges remain, especially in the area of mental health.**

*I refer a lot for mental health services and counseling, and a lot of these people just don't know about the services out there. So being able to connect people with the appropriate care that they need or could use in the future, I think, has been really valuable.*

- Urban physician; Large, hospital-based practice

*For thirteen years, getting dental has been like pulling teeth... It's been very difficult for our patient population. Dental is a huge issue. I would say well over half of our folks have significant dental problems that haven't been cared for in years.*

- Urban physician; Free/low-cost clinic

*[W]hile it doesn't allow them to access say whatever specialist they want, by all means, they have access to things that I think are appropriate for them, i.e. this particular study, that particular lab, this particular workup...In addition to that, they also now have access to a pharmaceutical formulary which is, you know, light years better than what they had when they were looking at, "Okay, what's the \$4 Wal-Mart offer me?"*

– Urban physician; FQHC

**PCPs reported challenges finding local specialists for referrals. In some cases, this was because of a general shortage of specialists in the area, but often it was noted that there are too few practitioners willing to accept patients with Healthy Michigan Plan/Medicaid coverage. Some PCPs also reported that their patients had difficulty accessing counseling services for healthy behavior change.**

*Dermatology is a huge issue...Yeah, in this county...In this county we have a huge problem because we have no place to send our Medicaid patients. And obviously they can't afford to do it out of pocket.*

– Rural nurse practitioner; Rural health center

*The specialty offices that don't accept Medicaid, don't accept Healthy Michigan plan Medicaid either...So, I mean, I don't think that's changed with the Healthy Michigan plan.*

– Urban physician; Free/low-cost clinic

*[I]n terms of referral and specialty care, it is still tricky. So while our ability to care for them has dramatically expanded, our ability to tap into our disjointed healthcare system in terms of specialty care, I think, maybe hasn't changed a whole lot. I think if I lived closer to [medical center] or closer to some other big training centers, that would probably be different. But like private specialists don't really care if they're uninsured or if they have Healthy Michigan.*

– Urban physician; FQHC

*We have a Medicaid dental clinic here, but it's a long wait to get in. ...up here no one accepts Medicaid ... They kind of just pull people's teeth out and not do the usual restorative work.*

– Rural physician; Small, private-practice

*We do have. . . a smoking cessation program in our health system, but they don't take Medicaid patients. ... we do have a weight management program, but they don't take Medicaid.*

– Urban physician; Large, hospital-based practice

**PCPs noted that connecting patients to mental health services remains particularly challenging.**

*[W]e've got community mental health services available but they don't have enough money and they're too busy, and the patients suffer because of that. And Medicaid helps that to a modest degree, but there's still not enough providers and still not enough, I guess, reimbursement from Medicaid.*

– Urban physician; Free/low-cost clinic

*In our area, due to the limited resources, I think it is difficult that there's not enough psychiatrists and counselors around...and there doesn't seem to be any stability with respect to who is a practicing psychiatrist within the community, meaning individuals might have a psychiatrist for a couple of months, and then somebody else new comes on board. So I do think it's an area that is not being handled well.*

– Rural physician; Small, private practice



**PCPs noted that barriers to care, such as transportation, are reduced but remain.**

*You've solved the insurance problem, but then there are certain other parts of their life that makes it hard for them to deal with the healthcare system, and that is they may not follow up with appointments, they may not go to appointments, they may not be so good at communicating their history, they may not follow through with getting medications even if they have insurance. It's kind of like a whole host of behavioral parts to it. So, solving the insurance issue is a really important part, but then really many of these people almost like need a case manager to help make sure all the other little pieces come together because just leaving them on their own, they won't necessarily get the care.*

- Urban physician; Small, private practice

*Transportation has always been an issue with our patients. We've provided transportation for our uninsured patients, and we know that about one-third of our patients wouldn't have been able to get here or to their specialty appointments without that. Now fortunately [Healthy Michigan Plan health plan] does provide transportation. There's two barriers to their transportation. One is the amount of time patients have to call ahead to get it, which is understandable. But for our patients, sometimes difficult. And the fact that it tends to run late. In some circumstances, it's not a real predictable timeframe. So that's been a challenge. I know I've had one patient who's been so frustrated. We referred her to counseling. She made two counselling appointments, and transportation didn't pick her up for either.*

- Urban physician; Free/low-cost clinic

*That's a great question. That's a great question. Transportation is huge. That's a huge, huge issue that sort of is under the radar for most people. That's a huge issue for my patients. People just don't have cars, and they don't have family or friends with cars. If you don't have insurance, you are stuck. I just had a guy...I had two guys yesterday who I hadn't seen in, I don't know, maybe six months. Both of them. "I just can't get in to see you, doc." "I can't get in to see you." I said to them yesterday, "Well how did you get in to see me today?" "Oh, I just called my insurance." Fantastic!*

- Rural physician; FQHC

**ER Use**

**PCPs discussed a number of factors influencing high rates of ER use including culture or habit, sense of urgency for care and need for afterhours care. Some PCPs noted that some Healthy Michigan Plan beneficiaries use the ER because it's convenient. Even for those practices with extended hours, their office may not be open at convenient time for patients, and their schedules may not coincide with when health issues arise.**

*I mean those people who use the ER...sometimes it's just the culture. That's just how they've been ...they...I don't want to say "conditioned," but maybe long-term circumstances or habit or what have you...They just tend to utilize the ER as a means of...almost like a secondary or a primary care clinic.*

- Urban physician assistant, FQHC

*You know, to some degree, it is convenience. You know, we have a few days where we're open to 6:00 or 7:00, but not every day, and we're not open on Saturdays or Sundays...People who work day shift... It's easier for them to go to the ER or something for a minor thing because they don't have to take time off work. That's a big deal.*

- Rural physician; Small, private practice

*Yeah, I know what you mean. The question is it somehow more convenient or timely or something to go to the ER or come to the office? And I think sometimes people have that perception, but they always wait for 3 hours in the ER. They're never in and out in 20 minutes, you know.*

– Urban physician, FQHC

*The families up here that I know have always done that do it because...Like the one lady, for example, might be sitting and watching television at 6:00, and she gets a little twinge in her abdomen. Because she has an anxiety condition, she talks herself into the fact that she's got colon cancer, and she goes to the ER in about a 20-minute time frame.*

– Rural nurse practitioner, Rural health clinic

**PCPs also discussed ways to reduce ER use such as educating patients on appropriate use, providing other sources of afterhours care (e.g., urgent care), and imposing a financial penalization or higher cost sharing for inappropriate ER use.**

*You know, I mean I think it still comes to education and availability...continuing to try to educate patients on, you know, why it is important to kind of...appropriately pursue care. So, you know, kind of having a conversation with patients about...why it's in their best interest to come to their primary care office, though it may take a little longer to do so than to go to the ER, and also making sure that we have available appointments so a patient doesn't feel, you know, as if they have no other alternative. So, you know, having office hours that...evening office hours...having a fair amount of those and getting appropriate...appropriately trained triage staff to be able to adequately address patients' acute care needs and questions when they call in.*

– Urban Physician Assistant, FQHC

*If you go to the ER and you're not admitted to the hospital, you're charged a significant amount...That tends to deter people, and I think that's the only way things are going to change and whether the ER's have a triage person that can determine this is an ER-appropriate problem and send people elsewhere, but I think it...There has to be some financial consequences ...Even if it's a small amount. I know you're dealing with economically disadvantaged people, but even a small amount of money tends to sometimes affect behaviors.*

– Rural physician; Small, private practice

*I think certainly accessibility because I'm sure part of it has to do with accessibility. So possibly providing extended hours, weekend hours...Clearly the health system does have access, extended hours, weekend hours...They're not really well-located for MY patients in the sense that my patients live in downtown [city], are in the [city] area specifically, and they don't necessarily have access to some of these facilities which tend to be near [city], but not necessarily in [city]. So I think that maybe setting up that kind of an urgent care close to the hospital, right here. If it means co-locating it next to the ER so we can send the urgent care-type patients there; that would be certainly something that we can do.*

– Urban physician; Large, hospital-based practice

**PCPs noted that the hospitals play a role in rates of ER use.**

*The hospital is not incentivized to send those people away because they're paying customers. They want to support having a busy ER. There are some places that actively deter people from going to the emergency room where they'll do a medical screen and exam and say, "No. Your problem is not acute. You don't need to be seen in the emergency room today. Go back and make an appointment with your primary care doctor."*

– Rural physician, FQHC

*Actually, I think it's 29 [minutes] right now, and then in mid and Northern Michigan, there are... billboards that tell you exactly what your wait time is right now in their ER. So it will say 8 minutes or 10 minutes or whatever their wait time is.*

- Urban physician, Free/low-cost clinic

### Impact of Healthy Michigan Plan on PCP Practice

**PCPs reported utilizing a variety of practice innovations including co-locating mental health care, case management, community health workers, same-day appointments, extended hours and use of midlevel practitioners.**

*At our office, we have two behavioral health specialists. I think they're both MSWs. So they do counseling and group therapy and so our clinic is kind of special. We're able to route a lot of people to them.*

- Rural physician, FQHC

*I think our office has become much more accommodating with phone calls for same-day appointments. So we've done a better job at looking at schedules, at planning for this... for these kinds of patients that fall into the acute care category. So we're able to do that a lot more readily. We're a large clinic than we used to be. We've got more providers, and that certainly makes a difference also. So there's multiple reasons for it.*

- Rural physician; Large, hospital-based practice

*Yeah. We have a number of people working as caseworkers now. That's been a big change in the last year. I should probably mention that...We're part of MiPCT, and I guess with the start of MiPCT, we got financial support for a number of caseworkers, and then we sort of steal their time for basically any insurance that needs some management. We're having a lot of...We're getting a lot of help with case managers for people coming out of hospitals to coordinate care there.*

- Rural physician, FQHC

*So, one of the pieces that we are developing now is using our navigator to reach out to those patients. As we see new people assigned to us and we don't see an appointment on the schedule, reaching out to them, helping them get into care.*

- Urban physician, Free/low-cost clinic

*That [co-location] has been very helpful especially to our Medicaid patients ...we can get those people in quickly and get treatment, which was otherwise very difficult. ...now it's less of a barrier for them to get behavioral health services.*

-Rural physician; Small, private practice

**PCPs noted an increase in administrative burden as a result of the Healthy Michigan Plan because of increased paperwork and need for more communication. PCPs reported that pre-authorizations, multiple formularies, patient churn in and out of insurance and (sometimes) HRAs presented challenges for their practice.**

*Yes. Much more work for the staff. Not much more, but, of course, it's [HRA] more work for the staff because of the long requirements and things have to be dated the same day as this thing or that thing. Yeah, it's much more of a pain in the neck for them. And I understand that we get some \$25...some malarkey for doing it, and the patient gets some discount on something.*

- Urban physician, Free/low-cost clinic

*But this insurance wouldn't let us order a stress test. They felt that we needed to do a separate stress ECG and then order a separate 2D echo. So that was one scenario where, you know, I actually had to do a physician-to-physician contact because I didn't think it made sense, but that was the only way they would cover it. So I had to order two separate tests where one could have probably given me the answer I was seeking.*

– Urban physician; Large, hospital-based practice

*For me, the bigger issue, I think, for us is that, you know, there are certain insurances that we do accept even in the Healthy Michigan plan, and some we do and some we don't. So what will end up happening is maybe they had an appointment to see me, and they come in and then, of course, we don't accept that one. So then they...I would say for the most part they're not too happy about that. Then they'll get sent to talk with one of the insurance people, and they'll find a way to fix it if it is fixable.*

– Urban physician, FQHC

*So we've also had an influx of or an increase in the number of medical prior authorizations that have created basically a headache for us because there's no standardization amongst the Medicaid plans...Yeah, and they're flip-flopping fairly regularly with respect to...This drug might be covered for a period of time, and then a short while later, they don't cover that drug. So we've got to go through the process for another medication. That requires more staff time. It doesn't necessarily benefit patient care.*

– Rural physician; Small, private practice

### **PCPs noted their practices were considerably busier since implementation of the Healthy Michigan Plan.**

*So our plan is to continue accepting more...We're open to those three Medicaid right now... straight Medicaid, Meridian and Priority. So we see new patients every day with those, and that's...That's what our game plan is at least for the time being. We're not...We're not overwhelmed enough with the patients that we can't do that.*

– Urban physician, Free/low-cost clinic

### **Some PCPs hired new staff to increase their capacity to handle the increase in demand.**

*So we had to hire...create a position for somebody to basically find out who takes Medicaid and arrange for those referrals, as well as process those prior authorizations for various tests. So it did require us to hire somebody or create a position for somebody to handle that...So, nonetheless that's an increase cost to us.*

– Rural physician; Small, private practice

*We're going to be able to hire a full-time social worker.... if we didn't have Medicaid expansion, there's no way we'd have the dollars to do that.*

- Urban physician, FQHC

### **For some PCPs, wait times also increased.**

*We accept all comers. Period. Doors are open. Come on in. But I have to add a comment to that or a clarification...a qualification to that...There are so many patients now that are in the system that even for routine follow-up stuff, we can't get them in." So what's happened is...The results of this great expansion and people now trying to come get primary care...She [site manager] said to me this week, "We'll probably have to close your panel, although I don't think we're allowed to close your panel per FQHC guidelines."*

– Urban physician, FQHC

**Some PCPs noted that the Healthy Michigan Plan has an impact on their relationships with patients.**

*So I do think by requiring one to come in...it [an initial appointment] helps to facilitate the beginning, hopefully in most cases, of a relationship between the provider and the patient. It helps assign...It helps align them together hopefully with some mutual goals in the interest of the patient. So, yes, I do think bringing them in and kind of making that a requirement is helpful. I think it's just helpful because it works to establish that relationship.*

– Urban physician, FQHC

*Part of my concern is it's going to decrease trust. From the standpoint that before our patients were getting free care, [so] they knew that our only incentive for caring for them was their best interest. That incentive hasn't changed. The revenue that we get from Healthy Michigan is great, but...it's not even enough to pay our staff. It's not going to change what the providers have in any way, but that may not be the perception our patients have. Especially as people talk about, you know, "Well, if your doctor says no to this, it's because they get more money if they don't refer." And before when we didn't refer, patients understood it was either we couldn't get it or it wasn't in their best interest or whatever.*

– Urban physician, Free/low-cost clinic

**Some PCPs noted that reimbursement rates are an important consideration depending on the type/structure of their practice.**

*Well, we're a rural health clinic. So that means we're reimbursed for Medicaid patients. We get a flat amount for them irrespective of the complexity of the visit, and it's more favorable than if we were just taking straight Medicaid. So right now we can afford to see Medicaid patients as being part of the rural health clinic initiative, but if we weren't and the reimbursement for primary care reverted back to the old way of doing things with Medicaid, we would probably have to change how we handle things with respect to taking new Medicaid patients and how many Medicaid patients we take. So I know the current Medicaid reimbursement scheme is par with Medicare in Michigan.*

– Rural physician; Rural health clinic

*You're talking about government reimbursing at the Medicare rates. That was 2013 and 2014 that did that...So far they haven't approved to do that in 2015 or 2016, and the rates that they pay for...the plans pay for Medicaid patients are substandard...you know, are markedly below any other insurances in this country. So they definitely are underpaying primary care providers. There's no two ways about that.*

– Urban physician; Small, private practice

*So, it hasn't affected our practice because as an FQHC we're reimbursed differently than . . . Medicaid reimburses a hospital practice or a private practice. Because we have to see all comers including all uninsured, and we can't cherry pick...I shouldn't say "cherry pick." We can't self-select what patients we see and won't see...We get "x" dollars for every Medicaid visits. We get "x" dollars for every whatever, with the assumption that we'll see everybody.*

– Urban physician, FQHC

*It's not affected our practice directly, but it seems that especially in a couple of the counties around us, that the number of private providers who are accepting Medicaid has actually, if anything, gone down, and so what we're finding are patients coming out of other practices, especially private practices with no cost base reimbursement, coming to us or asking to get in line to be with us.*

– Rural physician, FQHC

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**Primary Care Practitioners' Views of the Impact of the Healthy Michigan Plan**

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**Table 1. Bivariate associations between familiarity with HMP by practice types and predominant payer mix**

| <i>Familiarity with Healthy Michigan Plan</i> | A little/not at all familiar | Very/somewhat familiar | <i>p</i> -value |
|---|------------------------------|------------------------|-----------------|
|   | N (Row %)                    | N (Row %)              |                 |
| Practice size                                 |                              |                        | 0.047           |
| Large practice                                | 409 (49.4%)                  | 419 (50.6%)            |                 |
| Small practice                                | 500 (44.8%)                  | 615 (55.2%)            |                 |
| Practice type                                 |                              |                        | < 0.001         |
| FHQC  | 101 (33.2%)                  | 203 (66.8%)            |                 |
| Non-FQHC                                      | 833 (48.8%)                  | 874 (51.2%)            |                 |
| University/teaching hospital                  |                              |                        | < 0.001         |
| Academic                                      | 158 (58.5%)                  | 112 (41.5%)            |                 |
| Non-academic                                  | 771 (44.8%)                  | 951 (55.2%)            |                 |
| Hospital-based practice                       |                              |                        | 0.043           |
| Hospital-based                                | 310 (50.0%)                  | 310 (50.0%)            |                 |
| Not hospital-based                            | 619 (45.1%)                  | 753 (54.8%)            |                 |
| Predominant payer mix                         |                              |                        | < 0.001         |
| Private                                       | 371 (56.5%)                  | 286 (43.5%)            |                 |
| Medicaid                                      | 206 (30.5%)                  | 469 (69.5%)            |                 |
| Medicare                                      | 236 (56.3%)                  | 183 (43.7%)            |                 |
| Uninsured                                     | 3 (25.0%)                    | 9 (75.0%)              |                 |
| Mixed   | 67 (47.5%)                   | 74 (52.5%)             |                 |
| Participating in MiPCT                        |                              |                        | 0.023           |
| Yes   | 254 (51.1%)                  | 243 (48.9%)            |                 |
| No  | 694 (45.2%)                  | 840 (54.8%)            |                 |

*p*-values were calculated using Pearson's chi-square

**Table 2. Bivariate associations between practice having a process to identify HMP patients who need HRA completed by practice characteristics**

| <i>Practice has process to identify HMP patients who need HRA completed</i>             | Yes   | No/don't know |                 |
|---|-------|---------------|-----------------|
|   | Row % | Row %         | <i>p</i> -value |
| Region  |       |               | < 0.001         |
| Upper Peninsula/Northwest/Northeast (n=296)   | 38.9  | 61.1          |                 |
| West/East Central/East (n=656)  | 36.6  | 63.4          |                 |
| South Central/Southwest/Southeast (n=422)   | 23.2  | 76.8          |                 |
| Detroit Metro (n=623)   | 37.4  | 62.6          |                 |
| Urbanicity  |       |               | NS              |
| Urban (n=1,530)   | 32.9  | 67.1          |                 |
| Suburban (n=190)  | 35.8  | 64.2          |                 |
| Rural (n=322)   | 38.8  | 61.2          |                 |
| Practice size   |       |               | NS              |
| Large practice (6+) (n=837)   | 31.9  | 68.1          |                 |
| Small practice (0-5) (n=1,118)  | 36.0  | 64.0          |                 |
| New clinicians hired in past year?  |       |               | NS              |
| No/Not checked (n=953)  | 34.4  | 65.6          |                 |
| Yes (n=1,089)   | 33.9  | 66.1          |                 |
| New office staff hired in past year?  |       |               | NS              |
| No/Not checked (n=863)  | 31.9  | 68.1          |                 |
| Yes (n=1,179)   | 35.8  | 64.2          |                 |
| Consulted with care coordinators, case managers, community health workers in past year? |       |               | NS              |
| No/Not checked (n=897)  | 32.7  | 67.3          |                 |
| Yes (n=1,145)   | 35.3  | 64.7          |                 |
| Changed workflow in past year?  |       |               | NS              |
| No/Not checked (n=1,185)  | 32.6  | 67.4          |                 |
| Yes (n=857)   | 36.3  | 63.7          |                 |
| Co-located Mental Health w/in Primary Care in past year?                                |       |               | < 0.001         |
| No/Not checked (n=1,720)  | 31.6  | 68.4          |                 |
| Yes (n=322)   | 47.5  | 52.5          |                 |
| Payment arrangement   |       |               | NS              |
| FFS-predominant (n=758)   | 31.1  | 68.9          |                 |
| Capitation-predominant (n=44)   | 40.9  | 59.1          |                 |
| Salary-predominant (n=921)  | 36.2  | 63.8          |                 |
| Mixed payment (n=266)   | 34.2  | 65.8          |                 |
| Other payment arrangement (n=40)  | 42.5  | 57.5          |                 |
| Predominant payer mix   |       |               | < 0.001         |
| Private (n=639)   | 22.5  | 77.5          |                 |
| Medicaid (n=666)  | 47.4  | 52.6          |                 |
| Medicare (n=407)  | 30.7  | 69.3          |                 |
| Uninsured (n=11)  | 72.7  | 27.3          |                 |
| Mixed (n=136)   | 33.1  | 66.9          |                 |
| Received financial bonus for HRA completion   |       |               | < 0.001         |
| No/Don't know (n=1,664)   | 26.4  | 73.6          |                 |
| Yes (n=365)   | 69.3  | 30.7          |                 |

*p*-values were calculated using Pearson's chi-square

**Table 3. Bivariate associations between number of self-reported HRAs completed by practice characteristics**

| <i>Number of HRAs completed (self-reported)</i>  | None  | 1-2   | 3-10  | >10   |                |
|--|-------|-------|-------|-------|----------------|
|  | Row % | Row % | Row % | Row % | <i>p-value</i> |
| <b>Region</b>  |       |       |       |       | < 0.001        |
| Upper Peninsula/Northwest/ Northeast (n=293)   | 13.7  | 5.5   | 24.2  | 56.7  |                |
| West/East Central/East (n=654)   | 18.5  | 10.6  | 23.9  | 47.1  |                |
| South Central/Southwest/Southeast (n=416)  | 31.0  | 16.1  | 22.8  | 30.0  |                |
| Detroit Metro (n=624)  | 19.1  | 12.2  | 27.6  | 41.2  |                |
| <b>Urbanicity</b>  |       |       |       |       | < 0.001        |
| Urban (n=1,527)  | 23.1  | 13.1  | 25.7  | 38.0  |                |
| Suburban (n=186)   | 11.8  | 9.1   | 18.8  | 60.2  |                |
| Rural (n=319)  | 14.1  | 5.6   | 23.5  | 56.7  |                |
| <b>Practice size</b>   |       |       |       |       | < 0.001        |
| Large practice (6+) (n=823)  | 23.9  | 13.4  | 25.3  | 37.4  |                |
| Small practice (0-5) (n=1,121)   | 17.8  | 10.4  | 24.8  | 47.0  |                |
| <b>New clinicians hired in past year?</b>  |       |       |       |       | NS             |
| No/Not checked (n=954)   | 19.7  | 10.4  | 26.1  | 43.8  |                |
| Yes (n=1,078)  | 21.5  | 12.6  | 23.6  | 42.3  |                |
| <b>New office staff hired in past year?</b>  |       |       |       |       | NS             |
| No/Not checked (n=863)   | 21.7  | 10.4  | 26.9  | 41.0  |                |
| Yes (n=1,169)  | 19.9  | 12.4  | 23.2  | 44.5  |                |
| <b>Consulted with care coordinators, case managers, community health workers in past year?</b> |       |       |       |       | NS             |
| No/Not checked (n=899)   | 22.7  | 10.3  | 25.1  | 41.8  |                |
| Yes (n=1,133)  | 19.1  | 12.5  | 24.4  | 44.0  |                |
| <b>Changed workflow in past year?</b>  |       |       |       |       | NS             |
| No/Not checked (n=1,182)   | 21.3  | 10.9  | 26.3  | 41.5  |                |
| Yes (n=850)  | 19.8  | 12.5  | 22.6  | 45.2  |                |
| <b>Co-located Mental Health w/in Primary Care in past year?</b>                                |       |       |       |       | < 0.001        |
| No/Not checked (n=1,714)   | 22.3  | 12.0  | 26.0  | 39.8  |                |
| Yes (n=318)  | 11.9  | 9.4   | 18.2  | 60.4  |                |
| <b>Payment arrangement</b>   |       |       |       |       | 0.008          |
| FFS-predominant (n=754)  | 24.0  | 12.9  | 26.4  | 36.7  |                |
| Capitation-predominant (n=42)  | 19.0  | 9.5   | 21.4  | 50.0  |                |
| Salary-predominant (n=915)   | 18.0  | 10.9  | 23.1  | 48.0  |                |
| Mixed payment (n=268)  | 20.5  | 11.6  | 26.9  | 41.0  |                |
| Other payment arrangement (n=39)   | 20.5  | 5.1   | 20.5  | 53.8  |                |
| <b>Predominant payer mix</b>   |       |       |       |       | < 0.001        |
| Private (n=635)  | 27.6  | 14.3  | 26.8  | 31.3  |                |
| Medicaid (n=668)   | 9.7   | 8.1   | 17.1  | 65.1  |                |
| Medicare (n=409)   | 29.3  | 13.0  | 31.8  | 25.9  |                |
| Uninsured (n=12)   | 8.3   | 8.3   | 8.3   | 75.0  |                |
| Mixed (n=134)  | 15.7  | 15.7  | 30.6  | 38.1  |                |

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|--|------|------|------|------|---------|
| Practice has process to identify HMP patients who need HRA completed |      |      |      |      | < 0.001 |
| No/Don't know (n=1,312)  | 28.5 | 15.1 | 26.2 | 30.2 |         |
| Yes (n=694)  | 3.9  | 5.2  | 22.5 | 68.4 |         |
| Practice has process to submit completed HRAs                        |      |      |      |      | < 0.001 |
| No/Don't know (n=764)  | 47.3 | 18.6 | 20.7 | 13.5 |         |
| Yes (n=1,243)  | 3.1  | 7.3  | 27.6 | 61.9 |         |
| Received financial incentive for HRA completion                      |      |      |      |      | < 0.001 |
| No/Don't know (n=1,636)  | 23.8 | 12.8 | 25.7 | 37.7 |         |
| Yes (n=365)  | 2.7  | 6.6  | 21.1 | 69.6 |         |
| Familiarity with out-of-pocket HMP expenses                          |      |      |      |      | < 0.001 |
| Very familiar (n=136)  | 2.2  | 1.5  | 16.9 | 79.4 |         |
| Somewhat familiar (n=371)  | 8.4  | 9.4  | 25.1 | 57.1 |         |
| A little familiar (n=560)  | 11.4 | 13.8 | 26.6 | 48.2 |         |
| Not at all familiar (n=904)  | 34.5 | 12.5 | 23.9 | 29.1 |         |

p-values were calculated using Pearson's chi-square

**Table 4. Bivariate analysis of demographic and practice characteristics and PCP influence and responsibility for decreasing ER use**

|                                      | Total (%) | PCP influence on ER use     |                           |                   | PCP responsibility for decreasing ER use |                      |                    |
|--------------------------------------|-----------|-----------------------------|---------------------------|-------------------|--|----------------------|--------------------|
|                                      |           | A little/<br>not at all (%) | Some/<br>a great deal (%) |                   | Minimal/no (%)                           | Major/some (%)       |                    |
| Years in practice (mean, [95%CI])    |           | 20.3<br>[19.3, 21.4]        | 18.2<br>[17.6, 18.8]      | .001 <sup>a</sup> | 22.2<br>[20.7, 23.7]                     | 18.3<br>[17.7, 18.9] | <.001 <sup>b</sup> |
|                                      |           |                             |                           | p <sup>c</sup>    |  |                      | p <sup>c</sup>     |
| Race                                 |           |                             |                           | .005              |  |                      | NS                 |
| White (n=1,553)                      | 79.5      | 83.5                        | 78.1                      |                   | 84.1                                     | 78.9                 |                    |
| Black/African American (n=92)        | 4.7       | 5.6                         | 4.4                       |                   | 3.8                                      | 4.9                  |                    |
| Asian/Pacific Islander (n=215)       | 11.0      | 7.0                         | 12.5                      |                   | 8.8                                      | 11.3                 |                    |
| American Indian/Alaska Native (n=10) | 0.5       | 0.2                         | 0.6                       |                   | 0.0                                      | 0.6                  |                    |
| Other (n=83)                         | 4.2       | 3.7                         | 4.5                       |                   | 3.3                                      | 4.3                  |                    |
| Hispanic/Latino                      |           |                             |                           | NS                |  |                      | NS                 |
| Yes (n=45)                           | 2.3       | 1.9                         | 2.4                       |                   | 1.2                                      | 2.4                  |                    |
| No (n=1,934)                         | 97.7      | 98.1                        | 97.6                      |                   | 98.8                                     | 97.6                 |                    |
| MD/Non-MD                            |           |                             |                           | NS                |  |                      | 0.001              |
| MD/DO (n= 1,692)                     | 83.2      | 83.9                        | 82.9                      |                   | 90.2                                     | 82.2                 |                    |
| Non-physicians (n= 342)              | 16.8      | 16.1                        | 17.1                      |                   | 9.8                                      | 16.8                 |                    |
| Specialty                            |           |                             |                           | NS                |  |                      | .008               |
| FM (n=1,088)                         | 53.5      | 55.7                        | 52.7                      |                   | 63.1                                     | 52.1                 |                    |
| GP (n=23)                            | 1.1       | 1.3                         | 1.1                       |                   | 2.0                                      | 1.0                  |                    |
| IM (n=487)                           | 23.9      | 21.9                        | 24.7                      |                   | 22                                       | 24.2                 |                    |
| Med-Peds (n=66)                      | 3.2       | 3.1                         | 3.3                       |                   | 2.4                                      | 3.4                  |                    |
| NP (n=186)                           | 9.1       | 9.3                         | 9.1                       |                   | 4.7                                      | 9.7                  |                    |
| OB/GYN (n=12)                        | 0.6       | 1.1                         | 0.4                       |                   | 0.8                                      | 0.6                  |                    |
| Other (n=13)                         | 0.6       | 0.6                         | 0.7                       |                   | 0.0                                      | 0.7                  |                    |
| PA (n=159)                           | 7.8       | 7.0                         | 8.1                       |                   | 5.1                                      | 8.2                  |                    |
| Urbanicity                           |           |                             |                           | .05               |  |                      | NS                 |
| Urban (n=1,530)                      | 75.2      | 72.6                        | 76.2                      |                   | 73.3                                     | 75.5                 |                    |
| Suburban (n=188)                     | 9.2       | 11.9                        | 8.3                       |                   | 9.4                                      | 9.2                  |                    |
| Rural (n=316)                        | 15.5      | 15.6                        | 15.5                      |                   | 17.3                                     | 15.2                 |                    |

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|   |      |      |      |     |      |      |       |
|---|------|------|------|-----|------|------|-------|
| Practice size   |      |      |      | .01 |      |      | <.001 |
| Large practice (6+) (n=832)   | 42.6 | 38.0 | 44.3 |     | 30.9 | 44.2 |       |
| Small practice (0-5) (n=1,120)  | 57.4 | 62.0 | 55.7 |     | 69.1 | 55.8 |       |
| New clinicians hired in past year?  |      |      |      | .04 |      |      | .002  |
| No/Not checked (n=946)  | 46.5 | 50.4 | 45.1 |     | 55.7 | 45.3 |       |
| Yes (n=1,088)   | 53.5 | 49.6 | 54.9 |     | 44.3 | 54.7 |       |
| New office staff hired in past year?  |      |      |      | .03 |      |      | NS    |
| No/Not checked (n=859)  | 42.2 | 46.1 | 40.8 |     | 47.1 | 41.5 |       |
| Yes (n=1,175)   | 57.8 | 53.9 | 59.2 |     | 52.9 | 58.5 |       |
| Consulted with care coordinators, case managers, community health workers in past year? |      |      |      | NS  |      |      | .01   |
| No/Not checked (n=896)  | 44.1 | 44.3 | 44.0 |     | 51.4 | 43.0 |       |
| Yes (n=1,138)   | 55.9 | 55.7 | 56.0 |     | 48.6 | 57.0 |       |
| Changed workflow in past year?  |      |      |      | NS  |      |      | .001  |
| No/Not checked (n=1,182)  | 58.1 | 60.6 | 57.2 |     | 67.5 | 56.7 |       |
| Yes (n=852)   | 41.9 | 39.4 | 42.8 |     | 32.5 | 43.3 |       |
| Co-located Mental Health w/in Primary Care in past year?                                |      |      |      | NS  |      |      | .001  |
| No/Not checked (n=1,720)  | 84.6 | 86.5 | 83.9 |     | 91.4 | 83.6 |       |
| Yes (n=314)   | 15.4 | 13.5 | 16.1 |     | 8.6  | 16.4 |       |
| Practice ownership  |      |      |      | NS  |      |      | .02   |
| Full owner (n=431)  | 21.9 | 22.6 | 21.7 |     | 28.6 | 21.0 |       |
| Partner/part-owner (n=228)  | 11.6 | 9.9  | 12.2 |     | 12.5 | 11.4 |       |
| Employee (n=1,305)  | 66.4 | 67.5 | 66.1 |     | 58.9 | 67.5 |       |
| Underserved care within 3y  |      |      |      | NS  |      |      | NS    |
| No (n=854)  | 43.2 | 45.3 | 42.4 |     | 45.2 | 42.8 |       |
| Yes (n=1,125)   | 56.8 | 54.7 | 57.6 |     | 54.8 | 57.2 |       |

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|   |      |      |      |    |      |      |      |
|---|------|------|------|----|------|------|------|
| Proportion of established patients who can get same-day/next-day appointment        |      |      |      | NS |      |      | NS   |
| Almost all (>80%) (n=807)   | 40.6 | 42.7 | 39.8 |    | 46.8 | 39.6 |      |
| Most (60-80%) (n=514)   | 25.9 | 24.2 | 26.4 |    | 20.0 | 26.8 |      |
| About half (~50%) (n=234)   | 11.8 | 12.6 | 11.5 |    | 13.2 | 11.6 |      |
| Some (20-40%) (n=280)   | 14.1 | 12.8 | 14.6 |    | 10.8 | 14.6 |      |
| Few (<20%) (n=121)  | 6.1  | 5.8  | 6.2  |    | 7.2  | 5.9  |      |
| Don't know (n=32)   | 1.6  | 1.9  | 1.5  |    | 2.0  | 1.6  |      |
| Proportion of established patients who can get same-day/next-day appointment has: _ |      |      |      | NS |      |      | .02  |
| Increased (n=671)   | 34.2 | 30.5 | 35.6 |    | 28.3 | 35.0 |      |
| Decreased (n=309)   | 15.8 | 17.0 | 15.3 |    | 17.4 | 15.6 |      |
| Stayed the same (n=862)   | 44   | 46.6 | 43.0 |    | 51.0 | 42.9 |      |
| Don't know (n=119)  | 6.1  | 5.9  | 6.1  |    |      |      |      |
| Predominant payer mix   |      |      |      | NS |      |      | .009 |
| Private (n=653)   | 34.9 | 33.7 | 35.3 |    | 40.1 | 34.1 |      |
| Medicaid (n=663)  | 35.4 | 36.9 | 34.9 |    | 30.8 | 36.0 |      |
| Medicare (n=409)  | 21.8 | 21.7 | 21.9 |    | 17.7 | 22.4 |      |
| Uninsured (n=12)  | 0.6  | 0.2  | 0.8  |    | 0.0  | 0.7  |      |
| Mixed (n=136)   | 7.3  | 7.6  | 7.1  |    | 11.4 | 6.7  |      |
| Specialists available for HMP patients  |      |      |      | NS |      |      | .009 |
| Very familiar (n=185)   | 9.3  | 8.4  | 9.6  |    | 8.0  | 9.4  |      |
| Somewhat familiar (n=541)   | 27.2 | 25.3 | 27.9 |    | 19.1 | 28.4 |      |
| A little familiar (n=523)   | 26.3 | 26.5 | 26.3 |    | 31.1 | 25.7 |      |
| Not at all familiar (n=739)   | 37.2 | 39.8 | 36.2 |    | 41.8 | 36.5 |      |
| Mental health services available for HMP patients                                   |      |      |      | NS |      |      | .02  |
| Very familiar (n=153)   | 7.7  | 7.9  | 7.6  |    | 5.6  | 8.1  |      |
| Somewhat familiar (n=357)   | 17.9 | 16.9 | 18.3 |    | 13.1 | 18.5 |      |
| A little familiar (n=554)   | 27.8 | 25.7 | 28.6 |    | 25.9 | 28.1 |      |
| Not at all familiar (n=927)   | 46.6 | 49.6 | 45.4 |    | 55.4 | 45.3 |      |

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|   |      |      |      |    |      |      |     |
|---|------|------|------|----|------|------|-----|
| Dental coverage in HMP                  |      |      |      | NS |      |      | .06 |
| Very familiar (n=86)                    | 4.3  | 4.7  | 4.2  |    | 2.4  | 4.6  |     |
| Somewhat familiar (n=269)               | 13.5 | 12.4 | 13.9 |    | 10.8 | 13.8 |     |
| A little familiar (n=402)               | 20.2 | 19.7 | 20.4 |    | 17.5 | 20.7 |     |
| Not at all familiar (n=1,234)           | 62.0 | 63.3 | 61.5 |    | 69.3 | 60.9 |     |
| Difficulty accessing specialists        |      |      |      | NS |      |      | .03 |
| Often (n=627)                           | 31.3 | 32.5 | 30.9 |    | 37.4 | 30.5 |     |
| Sometimes (n=701)                       | 35.0 | 33.8 | 35.5 |    | 27.6 | 36.1 |     |
| Rarely (n=133)                          | 6.6  | 6.4  | 6.8  |    | 4.7  | 6.9  |     |
| Never (n=18)                            | 0.9  | 1.1  | 0.8  |    | 0.8  | 0.9  |     |
| Don't know (n=522)                      | 26.1 | 26.2 | 26.1 |    | 29.5 | 25.5 |     |
| Difficulty accessing medications        |      |      |      | NS |      |      | .02 |
| Often (n=310)                           | 15.5 | 15.7 | 15.4 |    | 20.9 | 14.8 |     |
| Sometimes (n=857)                       | 42.9 | 44.8 | 42.2 |    | 38.2 | 43.6 |     |
| Rarely (n=320)                          | 16   | 14.2 | 16.7 |    | 11.8 | 16.7 |     |
| Never (n=36)                            | 1.8  | 2.4  | 1.6  |    | 1.6  | 1.8  |     |
| Don't know (n=476)                      | 23.8 | 22.8 | 24.2 |    | 27.6 | 23.2 |     |
| Difficulty accessing mental health care |      |      |      | NS |      |      | NS  |
| Often (n=690)                           | 34.5 | 33.8 | 34.7 |    | 35.0 | 34.4 |     |
| Sometimes (n=508)                       | 25.4 | 25.4 | 25.4 |    | 21.3 | 26.0 |     |
| Rarely (n=183)                          | 9.1  | 9.3  | 9.1  |    | 7.5  | 9.4  |     |
| Never (n=34)                            | 1.7  | 3.0  | 1.2  |    | 2.0  | 1.7  |     |
| Don't know (n=586)                      | 29.3 | 28.4 | 29.6 |    | 34.3 | 28.5 |     |
| Difficulty accessing dental care        |      |      |      | NS |      |      | .05 |
| Often (n=599)                           | 29.9 | 33.0 | 28.8 |    | 34.6 | 29.2 |     |
| Sometimes (n=348)                       | 17.4 | 14.8 | 18.3 |    | 11.4 | 18.2 |     |
| Rarely (n=128)                          | 6.4  | 5.6  | 6.7  |    | 5.1  | 6.6  |     |
| Never (n=23)                            | 1.1  | 1.7  | 1.0  |    | 0.8  | 1.2  |     |
| Don't know (n=904)                      | 45.2 | 44.9 | 45.2 |    | 48.0 | 44.7 |     |

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|  |      |      |      |     |      |      |       |
|--|------|------|------|-----|------|------|-------|
| Difficulty accessing substance abuse treatment                             |      |      |      | .02 |      |      | .03   |
| Often (n=576)  | 28.8 | 29.8 | 28.5 |     | 31.9 | 28.4 |       |
| Sometimes (n=431)  | 21.6 | 18.4 | 22.7 |     | 13.8 | 22.6 |       |
| Rarely (n=145)   | 7.3  | 7.1  | 7.3  |     | 7.9  | 7.2  |       |
| Never (n=28)   | 1.4  | 2.6  | 1.0  |     | 2.0  | 1.3  |       |
| Don't know (n=819)   | 41.0 | 42.1 | 40.5 |     | 44.5 | 40.4 |       |
| Walk-in appointments available in practice                                 |      |      |      | NS  |      |      | .03   |
| No/Don't know (n=673)  | 33.6 | 34.8 | 33.2 |     | 39.7 | 32.8 |       |
| Yes (n=1,331)  | 66.4 | 65.2 | 66.8 |     | 60.3 | 67.2 |       |
| Transportation assistance by practice                                      |      |      |      | NS  |      |      | .002  |
| No/Don't know (n=1,389)  | 69.4 | 71.5 | 68.6 |     | 78.1 | 68.2 |       |
| Yes (n=613)  | 30.6 | 28.5 | 31.4 |     | 21.9 | 31.8 |       |
| 24h telephone triage in practice   |      |      |      | NS  |      |      | NS    |
| No/Don't know (n=521)  | 25.9 | 25.8 | 26.0 |     | 26.5 | 25.9 |       |
| Yes (n=1,488)  | 74.1 | 74.2 | 74.0 |     | 73.5 | 74.1 |       |
| Weekend/Evening appts in practice  |      |      |      | NS  |      |      | .005  |
| No/Don't know (n=888)  | 44.3 | 47.4 | 43.1 |     | 52.6 | 43.1 |       |
| Yes (n=1,118)  | 55.7 | 52.6 | 56.9 |     | 47.4 | 56.9 |       |
| Care coordination/ social work for patients w/complex problems in practice |      |      |      | .03 |      |      | <.001 |
| No/Don't know (n=870)  | 43.4 | 47.4 | 42.0 |     | 57.2 | 41.5 |       |
| Yes (n=1,133)  | 56.6 | 52.6 | 58.0 |     | 42.8 | 58.5 |       |
| ER will provide care without appt  |      |      |      | .01 |      |      | NS    |
| Major influence (n=1,677)  | 82.8 | 86.5 | 81.4 |     | 82.4 | 82.9 |       |
| Minor influence (n=272)  | 13.4 | 9.6  | 14.8 |     | 13.7 | 13.4 |       |
| Little or no influence (n=77)  | 3.8  | 3.9  | 3.8  |     | 3.9  | 3.8  |       |
| Patients believe ER provides better quality of care                        |      |      |      | .01 |      |      | NS    |
| Major influence (n=341)  | 16.9 | 17.2 | 16.7 |     | 19.4 | 16.5 |       |
| Minor influence (n=797)  | 39.4 | 34.2 | 41.3 |     | 33.2 | 40.2 |       |
| Little or no influence (n=884)   | 43.7 | 48.6 | 42.0 |     | 47.4 | 43.2 |       |

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|   |      |      |      |       |      |      |       |
|---|------|------|------|-------|------|------|-------|
| ER offers quicker access to specialists       |      |      |      | NS    |      |      | NS    |
| Major influence (n=613)                       | 30.3 | 28.9 | 30.8 |       | 32.7 | 29.9 |       |
| Minor influence (n=722)                       | 35.7 | 34.5 | 36.1 |       | 31.5 | 36.3 |       |
| Little or no influence (n=689)                | 34.0 | 36.7 | 33.1 |       | 35.8 | 33.8 |       |
| Hospitals encourage use of ER                 |      |      |      | .01   |      |      | <.001 |
| Major influence (n=377)                       | 18.8 | 22.9 | 17.3 |       | 32.5 | 16.8 |       |
| Minor influence (n=577)                       | 28.7 | 25.5 | 29.9 |       | 22.2 | 29.7 |       |
| Little or no influence (n=1,054)              | 52.5 | 51.6 | 52.8 |       | 45.2 | 53.5 |       |
| ER offers access to meds for chronic pain     |      |      |      | .001  |      |      | .01   |
| Major influence (n=1,029)                     | 50.8 | 57.7 | 48.3 |       | 58.7 | 49.6 |       |
| Minor influence (n=644)                       | 31.8 | 27.3 | 33.4 |       | 24.4 | 32.9 |       |
| Little or no influence (n=354)                | 17.5 | 15.0 | 18.3 |       | 16.9 | 17.5 |       |
| ER is where patients are used to getting care |      |      |      | <.001 |      |      | <.001 |
| Major influence (n=1,202)                     | 59.6 | 70.1 | 55.7 |       | 72.0 | 57.7 |       |
| Minor influence (n=631)                       | 31.3 | 24.4 | 33.7 |       | 22.0 | 32.7 |       |
| Little or no influence (n=185)                | 9.2  | 5.4  | 10.5 |       | 5.9  | 9.6  |       |

Data in the table are shown as column percentages

"Predominant payer mix" is the composite variable of all current payers: payer is considered predominant for the practice if >30% of physician's patients have this payer type and <30% of patients have any other payer type. "Mixed" includes practices with more than one payer representing >30% of patients, or practices with <30% of patients for each payer type.

<sup>a</sup> Years in practice did not violate Levene's test for equality of variances,  $df(1,1939) = .057$ ,  $p = .811$ ; therefore students t-test was used,  $t(1939) = 4.866$ ,  $p < .001$

<sup>b</sup> Years in practice did not violate Levene's test for equality of variances,  $df(1,1939) = 2.664$ ,  $p = .103$ ; therefore students t-test was used,  $t(1939) = 3.429$ ,  $p < .001$

<sup>c</sup>  $p$ -value from Pearson's chi-squared test

**Table 5. Multivariate analysis of PCP influence in ER use, and PCP responsibility in decreasing ER use**

|   | PCP influence<br>(N= 1,786) |               | PCP responsibility<br>(N= 1,773) |               |
|---|-----------------------------|---------------|----------------------------------|---------------|
|   | aOR                         | 95% CI        | aOR                              | 95% CI        |
| Years in practice   | 0.99*                       | [0.98, 1.00]  | 0.98**                           | [0.97, 1.00]  |
| Race  |                             |               |                                  |               |
| White (ref)   | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Black/African American  | 0.81                        | [0.49, 1.35]  | 1.67                             | [0.70, 3.97]  |
| Asian/Pacific Islander  | 1.89**                      | [1.27, 2.83]  | 1.61                             | [0.97, 2.69]  |
| American Indian/Alaska Native   | 2.81                        | [0.35, 22.67] | 1.00                             | [1.00, 1.00]  |
| Other   | 1.35                        | [0.73, 2.51]  | 1.39                             | [0.58, 3.33]  |
| Hispanic/Latino   |                             |               |                                  |               |
| No (ref)  | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Yes   | 1.49                        | [0.64, 3.49]  | 4.82                             | [0.65, 35.91] |
| Physician   |                             |               |                                  |               |
| Non-physician (NP/PA) (ref)   | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Physician   | 0.93                        | [0.68, 1.26]  | 0.54*                            | [0.33, 0.88]  |
| Urbanicity  |                             |               |                                  |               |
| Urban (ref)   | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Suburban  | 0.66*                       | [0.46, 0.93]  | 0.94                             | [0.57, 1.57]  |
| Rural   | 1.00                        | [0.73, 1.36]  | 0.76                             | [0.51, 1.13]  |
| Practice size   |                             |               |                                  |               |
| Large practice (6+) (ref)   | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Small practice (0-5)  | 0.84                        | [0.66, 1.06]  | 0.66*                            | [0.48, 0.92]  |
| New clinicians hired in past year?  |                             |               |                                  |               |
| No (ref)  | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Yes   | 1.08                        | [0.84, 1.38]  | 1.20                             | [0.86, 1.67]  |
| New office staff hired in past year?  |                             |               |                                  |               |
| No/Not checked (ref)  | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Yes   | 1.15                        | [0.90, 1.46]  | 0.93                             | [0.68, 1.28]  |
| Consulted with care coordinators, case managers, community health workers in past year? |                             |               |                                  |               |
| No/Not checked (ref)  | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Yes   | 0.81                        | [0.64, 1.03]  | 1.02                             | [0.75, 1.39]  |
| Changed workflow in past year?  |                             |               |                                  |               |
| No/Not checked (ref)  | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Yes   | 1.15                        | [0.91, 1.44]  | 1.41*                            | [1.03, 1.94]  |
| Co-located Mental Health w/in Primary Care in past year?                                |                             |               |                                  |               |
| No/Not checked (ref)  | 1.00                        | [1.00, 1.00]  | 1.00                             | [1.00, 1.00]  |
| Yes   | 1.16                        | [0.84, 1.60]  | 1.62                             | [0.97, 2.71]  |

Logistic regression with adjusted odds ratios; 95% confidence intervals in brackets. Each column is a separate model adjusted for the covariates shown.

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 6. Multivariate analysis of PCP influence on ER use: sensitivity analysis with random intercept for practice ID**

| <i>PCP influence on ER use<sup>a</sup></i>  | Original model<br>(N= 1,786) |               | Practice adjusted model<br>(N= 1,786) |               |
|---|------------------------------|---------------|---------------------------------------|---------------|
|   | aOR                          | 95% CI        | aOR                                   | 95% CI        |
| Years in practice   | 0.99*                        | [0.98, 1.00]  | 0.99*                                 | [0.98, 1.00]  |
| Race  |                              |               |                                       |               |
| White (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Black/African American  | 0.81                         | [0.49, 1.35]  | 0.80                                  | [0.46, 1.39]  |
| Asian/Pacific Islander  | 1.89**                       | [1.27, 2.83]  | 1.96**                                | [1.28, 3.01]  |
| American Indian/Alaska Native   | 2.81                         | [0.35, 22.67] | 3.04                                  | [0.34, 26.82] |
| Other   | 1.35                         | [0.73, 2.51]  | 1.38                                  | [0.71, 2.65]  |
| Hispanic/Latino   |                              |               |                                       |               |
| No (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.49                         | [0.64, 3.49]  | 1.59                                  | [0.65, 3.91]  |
| Physician   |                              |               |                                       |               |
| Non-physician (NP/PA) (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Physician   | 0.93                         | [0.68, 1.26]  | 0.91                                  | [0.66, 1.27]  |
| Urbanicity  |                              |               |                                       |               |
| Urban (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Suburban  | 0.66*                        | [0.46, 0.93]  | 0.63*                                 | [0.42, 0.94]  |
| Rural   | 1.00                         | [0.73, 1.36]  | 0.99                                  | [0.70, 1.39]  |
| Practice size   |                              |               |                                       |               |
| Large practice (6+) (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Small practice (0-5)  | 0.84                         | [0.66, 1.06]  | 0.83                                  | [0.64, 1.08]  |
| New clinicians hired in past year?  |                              |               |                                       |               |
| No (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.08                         | [0.84, 1.38]  | 1.10                                  | [0.84, 1.43]  |
| New office staff hired in past year?  |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.15                         | [0.90, 1.46]  | 1.17                                  | [0.90, 1.52]  |
| Consulted with care coordinators, case managers, community health workers in past year? |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 0.81                         | [0.64, 1.03]  | 0.79                                  | [0.61, 1.03]  |
| Changed workflow in past year?  |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.15                         | [0.91, 1.44]  | 1.15                                  | [0.90, 1.46]  |
| Co-located Mental Health w/in Primary Care in past year?                                |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.16                         | [0.84, 1.60]  | 1.18                                  | [0.84, 1.67]  |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup>“PCP influence on ER use” Responses dichotomized as Some influence or A great deal of influence vs. A little influence or No influence at all

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 7. Multivariate analysis of PCP responsible for decreasing ER use: sensitivity analysis with random intercept for practice ID**

| <i>PCP responsible for decreasing ER use<sup>a</sup></i>                                | Original model<br>(N= 1,773) |               | Practice adjusted model<br>(N= 1,773) |               |
|---|------------------------------|---------------|---------------------------------------|---------------|
|   | aOR                          | 95% CI        | aOR                                   | 95% CI        |
| Years in practice   | 0.98**                       | [0.97, 1.00]  | 0.98*                                 | [0.97, 1.00]  |
| Race  |                              |               |                                       |               |
| White (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Black/African American  | 1.67                         | [0.70, 3.97]  | 1.73                                  | [0.69, 4.34]  |
| Asian/Pacific Islander  | 1.61                         | [0.97, 2.69]  | 1.59                                  | [0.92, 2.76]  |
| American Indian/Alaska Native   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Other   | 1.39                         | [0.58, 3.33]  | 1.42                                  | [0.56, 3.59]  |
| Hispanic/Latino   |                              |               |                                       |               |
| No (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 4.82                         | [0.65, 35.91] | 5.54                                  | [0.70, 44.04] |
| Physician   |                              |               |                                       |               |
| Non-physician (NP/PA) (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Physician   | 0.54*                        | [0.33, 0.88]  | 0.51*                                 | [0.30, 0.87]  |
| Urbanicity  |                              |               |                                       |               |
| Urban (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Suburban  | 0.94                         | [0.57, 1.57]  | 0.92                                  | [0.53, 1.62]  |
| Rural   | 0.76                         | [0.51, 1.13]  | 0.72                                  | [0.46, 1.14]  |
| Practice size   |                              |               |                                       |               |
| Large practice (6+) (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Small practice (0-5)  | 0.66*                        | [0.48, 0.92]  | 0.66*                                 | [0.46, 0.95]  |
| New clinicians hired in past year?  |                              |               |                                       |               |
| No (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.20                         | [0.86, 1.67]  | 1.24                                  | [0.86, 1.78]  |
| New office staff hired in past year?  |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 0.93                         | [0.68, 1.28]  | 0.92                                  | [0.65, 1.31]  |
| Consulted with care coordinators, case managers, community health workers in past year? |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.02                         | [0.75, 1.39]  | 1.01                                  | [0.72, 1.41]  |
| Changed workflow in past year?  |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.41*                        | [1.03, 1.94]  | 1.46*                                 | [1.03, 2.05]  |
| Co-located Mental Health w/in Primary Care in past year?                                |                              |               |                                       |               |
| No/Not checked (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes   | 1.62                         | [0.97, 2.71]  | 1.69                                  | [0.97, 2.94]  |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup>“PCP responsible for decreasing ER use” Responses dichotomized as Major responsibility or Some responsibility vs. A little responsibility or No responsibility at all

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 8. Multivariate analysis of HRA completion: sensitivity analysis with random intercept for practice ID**

| <i>Complete any HRA<sup>a</sup></i>                 | Original model<br>(N= 1,637) |                | Practice adjusted model<br>(N= 1,637) |                |
|---|------------------------------|----------------|---------------------------------------|----------------|
|   | aOR                          | 95% CI         | aOR                                   | 95% CI         |
| PCP familiarity with completing HRA                 |                              |                |                                       |                |
| Very familiar (ref)                                 | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Somewhat familiar                                   | 0.50                         | [0.20, 1.24]   | 0.50                                  | [0.20, 1.24]   |
| A little familiar                                   | 0.27**                       | [0.10, 0.71]   | 0.27**                                | [0.10, 0.71]   |
| Not at all familiar                                 | 0.23*                        | [0.07, 0.76]   | 0.23*                                 | [0.07, 0.76]   |
| HRA useful for identifying health risks             |                              |                |                                       |                |
| Very useful (ref)                                   | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Somewhat useful                                     | 0.95                         | [0.27, 3.36]   | 0.95                                  | [0.27, 3.36]   |
| A little useful                                     | 3.41                         | [0.42, 27.75]  | 3.41                                  | [0.42, 27.75]  |
| Not at all useful                                   | 11.13                        | [0.35, 350.17] | 11.13                                 | [0.35, 350.17] |
| HRA useful for discussing health risks              |                              |                |                                       |                |
| Very useful (ref)                                   | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Somewhat useful                                     | 0.56                         | [0.13, 2.51]   | 0.56                                  | [0.13, 2.51]   |
| A little useful                                     | 0.04*                        | [0.00, 0.49]   | 0.04*                                 | [0.00, 0.49]   |
| Not at all useful                                   | 0.04                         | [0.00, 3.83]   | 0.04                                  | [0.00, 3.83]   |
| HRA useful for persuading patients to address risks |                              |                |                                       |                |
| Very useful (ref)                                   | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Somewhat useful                                     | 2.95                         | [0.62, 14.06]  | 2.95                                  | [0.62, 14.06]  |
| A little useful                                     | 26.95**                      | [2.87, 253.14] | 26.95**                               | [2.87, 253.14] |
| Not at all useful                                   | 8.34                         | [0.33, 210.86] | 8.34                                  | [0.33, 210.86] |
| HRA useful for documenting patient behavior goals   |                              |                |                                       |                |
| Very useful (ref)                                   | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Somewhat useful                                     | 0.71                         | [0.18, 2.84]   | 0.71                                  | [0.18, 2.84]   |
| A little useful                                     | 0.79                         | [0.14, 4.35]   | 0.79                                  | [0.14, 4.35]   |
| Not at all useful                                   | 1.32                         | [0.10, 17.34]  | 1.32                                  | [0.10, 17.34]  |
| HRA useful for getting patients to change behaviors |                              |                |                                       |                |
| Very useful (ref)                                   | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Somewhat useful                                     | 1.03                         | [0.25, 4.19]   | 1.03                                  | [0.25, 4.19]   |
| A little useful                                     | 0.87                         | [0.19, 3.94]   | 0.87                                  | [0.19, 3.94]   |
| Not at all useful                                   | 0.28                         | [0.03, 2.50]   | 0.28                                  | [0.03, 2.50]   |
| Provider type                                       |                              |                |                                       |                |
| Non-physician (ref)                                 | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Physician   | 0.89                         | [0.40, 2.01]   | 0.89                                  | [0.40, 2.01]   |
| Practice location                                   |                              |                |                                       |                |
| Non-urban (ref)                                     | 1.00                         | [1.00, 1.00]   | 1.00                                  | [1.00, 1.00]   |
| Urban   | 0.39*                        | [0.17, 0.93]   | 0.39*                                 | [0.17, 0.93]   |

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| Predominant payer mix                          |         |              |         |              |
|--|---------|--------------|---------|--------------|
| Private (ref)                                  | 1.00    | [1.00, 1.00] | 1.00    | [1.00, 1.00] |
| Medicaid                                       | 0.42*   | [0.18, 0.99] | 0.42*   | [0.18, 0.99] |
| Medicare                                       | 1.34    | [0.54, 3.33] | 1.34    | [0.54, 3.33] |
| Uninsured                                      | 0.05*   | [0.00, 0.83] | 0.05*   | [0.00, 0.83] |
| Mixed  | 0.71    | [0.18, 2.84] | 0.71    | [0.18, 2.84] |
| HMP-MC members assigned to PCP as of 7-25-2016 | 1.22*** | [1.16, 1.27] | 1.22*** | [1.16, 1.27] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.  
<sup>a</sup> "Complete any HRA" Responses dichotomized as any completion rate greater than 0 vs completion rates equal to 0

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$



**Table 9. Multivariate analysis of HRA completion rate: sensitivity analysis with random intercept for practice ID**

| <i>HRA completion rate</i>                          | Original model<br>(N= 1,637) |               | Practice adjusted model<br>(N= 1,637) |                |
|---|------------------------------|---------------|---------------------------------------|----------------|
|   | Coefficients                 | 95% CI        | Coefficients                          | 95% CI         |
| PCP familiarity with completing HRA                 |                              |               |                                       |                |
| Very familiar (ref)                                 | -                            | -             | -                                     | -              |
| Somewhat familiar                                   | 1.19***                      | [0.74, 1.63]  | -0.25***                              | [-0.38, -0.12] |
| A little familiar                                   | 1.56***                      | [0.96, 2.16]  | -0.32***                              | [-0.49, -0.15] |
| Not at all familiar                                 | 2.98***                      | [2.11, 3.85]  | -0.52***                              | [-0.72, -0.33] |
| HRA useful for identifying health risks             |                              |               |                                       |                |
| Very useful (ref)                                   | -                            | -             | -                                     | -              |
| Somewhat useful                                     | -0.45                        | [-1.07, 0.18] | 0.08                                  | [-0.12, 0.29]  |
| A little useful                                     | -0.39                        | [-1.24, 0.45] | 0.09                                  | [-0.18, 0.36]  |
| Not at all useful                                   | -0.50                        | [-1.68, 0.69] | 0.12                                  | [-0.28, 0.53]  |
| HRA useful for discussing health risks              |                              |               |                                       |                |
| Very useful (ref)                                   | -                            | -             | -                                     | -              |
| Somewhat useful                                     | 0.31                         | [-0.32, 0.93] | -0.08                                 | [-0.28, 0.13]  |
| A little useful                                     | 0.32                         | [-0.57, 1.20] | -0.08                                 | [-0.37, 0.22]  |
| Not at all useful                                   | 0.15                         | [-1.32, 1.62] | -0.08                                 | [-0.55, 0.40]  |
| HRA useful for persuading patients to address risks |                              |               |                                       |                |
| Very useful (ref)                                   | -                            | -             | -                                     | -              |
| Somewhat useful                                     | 0.01                         | [-0.65, 0.66] | 0.02                                  | [-0.19, 0.23]  |
| A little useful                                     | -0.47                        | [-1.31, 0.36] | 0.14                                  | [-0.13, 0.41]  |
| Not at all useful                                   | 0.04                         | [-1.34, 1.43] | 0.01                                  | [-0.41, 0.43]  |
| HRA useful for documenting patient behavior goals   |                              |               |                                       |                |
| Very useful (ref)                                   | -                            | -             | -                                     | -              |
| Somewhat useful                                     | -0.54                        | [-1.20, 0.11] | 0.10                                  | [-0.10, 0.30]  |
| A little useful                                     | -0.57                        | [-1.35, 0.20] | 0.09                                  | [-0.15, 0.33]  |
| Not at all useful                                   | -0.62                        | [-1.67, 0.43] | 0.10                                  | [-0.22, 0.43]  |
| HRA useful for getting patients to change behaviors |                              |               |                                       |                |
| Very useful (ref)                                   | -                            | -             | -                                     | -              |
| Somewhat useful                                     | -0.12                        | [-0.93, 0.68] | 0.02                                  | [-0.21, 0.26]  |
| A little useful                                     | 0.00                         | [-0.86, 0.87] | -0.01                                 | [-0.27, 0.25]  |
| Not at all useful                                   | 0.07                         | [-1.04, 1.18] | -0.02                                 | [-0.37, 0.32]  |
| Provider type                                       |                              |               |                                       |                |
| Non-physician (ref)                                 | -                            | -             | -                                     | -              |
| Physician   | 0.22                         | [-0.24, 0.68] | -0.03                                 | [-0.19, 0.13]  |
| Practice location                                   |                              |               |                                       |                |
| Non-urban (ref)                                     | -                            | -             | -                                     | -              |
| Urban   | 0.48*                        | [0.09, 0.87]  | -0.11                                 | [-0.24, 0.02]  |

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| Predominant payer mix                          |        |                |         |                   |
|--|--------|----------------|---------|-------------------|
| Private (ref)                                  | -      | -              | -       | -                 |
| Medicaid                                       | 0.44*  | [0.00, 0.88]   | -0.08   | [-0.23, 0.06]     |
| Medicare                                       | 0.21   | [-0.26, 0.68]  | -0.04   | [-0.19, 0.11]     |
| Uninsured                                      | 0.21   | [-1.58, 2.01]  | -0.09   | [-0.71, 0.53]     |
| Mixed  | 0.50   | [-0.22, 1.22]  | -0.11   | [-0.32, 0.11]     |
| HMP-MC members assigned to PCP as of 7-25-2016 | 0.002* | [0.000, 0.004] | -0.0003 | [-0.0008, 0.0001] |

Generalized linear model with gamma distribution predicting the rate (%) of HRA completions; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 10. Multivariate analysis of consulted with care coordinator, case manager, or community health worker: sensitivity analysis with random intercept for practice ID**

| <i>Consulted with care coordinators, case managers, community health workers in past year<sup>a</sup></i> | Original model<br>(N= 1,652) |              | Practice adjusted model<br>(N= 1,652) |              |
|---|------------------------------|--------------|---------------------------------------|--------------|
|   | aOR                          | 95% CI       | aOR                                   | 95% CI       |
| Practice size   |                              |              |                                       |              |
| Large practice (6+) (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Small practice (0-5)  | 0.46***                      | [0.37, 0.59] | 0.41***                               | [0.30, 0.56] |
| Practice type   |                              |              |                                       |              |
| Non-FQHC (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| FQHC  | 2.30***                      | [1.59, 3.34] | 2.53***                               | [1.61, 3.95] |
| Non-academic (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Academic  | 0.70                         | [0.47, 1.07] | 0.77                                  | [0.47, 1.27] |
| Not hospital-based/non-teaching (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Hospital-based (non-teaching)   | 0.79                         | [0.57, 1.09] | 0.80                                  | [0.54, 1.19] |
| Predominant payer mix   |                              |              |                                       |              |
| Private (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Medicaid  | 0.72*                        | [0.54, 0.95] | 0.70*                                 | [0.50, 0.98] |
| Medicare  | 0.73*                        | [0.53, 1.00] | 0.68*                                 | [0.47, 0.99] |
| Uninsured   | 1.36                         | [0.33, 5.66] | 1.42                                  | [0.26, 7.76] |
| Mixed   | 0.89                         | [0.58, 1.36] | 0.87                                  | [0.53, 1.44] |
| Participating in MiPCT  |                              |              |                                       |              |
| No (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Yes   | 3.58***                      | [2.65, 4.84] | 4.23***                               | [2.89, 6.19] |
| Urbanicity  |                              |              |                                       |              |
| Urban (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Suburban  | 0.82                         | [0.56, 1.20] | 0.79                                  | [0.49, 1.26] |
| Rural   | 1.15                         | [0.84, 1.58] | 1.26                                  | [0.84, 1.87] |
| Sex   |                              |              |                                       |              |
| Male (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Female  | 1.02                         | [0.80, 1.30] | 1.06                                  | [0.80, 1.41] |
| Specialty care  |                              |              |                                       |              |
| Family medicine (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Internal medicine   | 0.85                         | [0.64, 1.14] | 0.85                                  | [0.60, 1.21] |
| Non-physician provider  | 1.39                         | [0.98, 1.96] | 1.41                                  | [0.94, 2.11] |
| Other   | 0.98                         | [0.59, 1.62] | 1.00                                  | [0.55, 1.81] |
| Practice ownership  |                              |              |                                       |              |
| Full owner (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Partner/part-owner  | 1.03                         | [0.70, 1.52] | 1.00                                  | [0.62, 1.60] |
| Employee  | 1.58*                        | [1.08, 2.31] | 1.60*                                 | [1.02, 2.50] |
| Years in practice   | 1.00                         | [0.99, 1.01] | 1.00                                  | [0.99, 1.01] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup>“Consulted with care coordinators, case managers, community health workers in past year” Responses dichotomized as Yes vs. No or Not checked

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 11. Multivariate analysis of co-located mental health within primary care in past year: sensitivity analysis with random intercept for practice ID**

| <i>Co-located Mental Health within Primary Care in past year<sup>a</sup></i> | Original model<br>(N= 1,652) |               | Practice adjusted label<br>(N= 1,652) |               |
|--|------------------------------|---------------|---------------------------------------|---------------|
|  | aOR                          | 95% CI        | aOR                                   | 95% CI        |
| Practice size  |                              |               |                                       |               |
| Large practice (6+) (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Small practice (0-5)   | 0.57***                      | [0.41, 0.79]  | 0.43***                               | [0.26, 0.71]  |
| Practice type  |                              |               |                                       |               |
| Non-FQHC (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| FQHC   | 3.65***                      | [2.50, 5.33]  | 6.32***                               | [3.39, 11.79] |
| Non-academic (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Academic   | 0.85                         | [0.52, 1.39]  | 0.85                                  | [0.42, 1.74]  |
| Not hospital-based/non-teaching (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Hospital-based (non-teaching)  | 0.53**                       | [0.36, 0.79]  | 0.49*                                 | [0.28, 0.88]  |
| Predominant payer mix  |                              |               |                                       |               |
| Private (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Medicaid   | 2.18***                      | [1.45, 3.28]  | 2.65***                               | [1.51, 4.64]  |
| Medicare   | 1.25                         | [0.76, 2.04]  | 1.44                                  | [0.76, 2.74]  |
| Uninsured  | 4.01*                        | [1.08, 14.96] | 2.88                                  | [0.47, 17.80] |
| Mixed  | 1.53                         | [0.81, 2.88]  | 1.13                                  | [0.49, 2.61]  |
| Participating in MiPCT   |                              |               |                                       |               |
| No (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Yes  | 2.15***                      | [1.50, 3.09]  | 2.41**                                | [1.39, 4.17]  |
| Urbanicity   |                              |               |                                       |               |
| Urban (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Suburban   | 1.13                         | [0.66, 1.91]  | 1.55                                  | [0.72, 3.35]  |
| Rural  | 2.24***                      | [1.51, 3.33]  | 2.72**                                | [1.47, 5.02]  |
| Sex  |                              |               |                                       |               |
| Male (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Female   | 0.99                         | [0.71, 1.37]  | 0.94                                  | [0.62, 1.43]  |
| Specialty care   |                              |               |                                       |               |
| Family medicine (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Internal medicine  | 1.19                         | [0.78, 1.82]  | 1.05                                  | [0.58, 1.91]  |
| Non-physician provider   | 1.12                         | [0.74, 1.69]  | 1.21                                  | [0.70, 2.10]  |
| Other  | 0.94                         | [0.46, 1.90]  | 0.66                                  | [0.25, 1.77]  |
| Practice ownership   |                              |               |                                       |               |
| Full owner (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Partner/part-owner   | 0.80                         | [0.36, 1.79]  | 0.59                                  | [0.21, 1.65]  |
| Employee   | 2.49**                       | [1.36, 4.58]  | 2.34*                                 | [1.06, 5.15]  |
| Years in practice  | 1.00                         | [0.99, 1.02]  | 1.00                                  | [0.99, 1.02]  |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.  
<sup>a</sup>“Co-located Mental Health within Primary Care in past year” Responses dichotomized as Yes vs. No or Not checked

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 12. Multivariate analysis of hiring additional clinicians within the past year: sensitivity analysis with random intercept for practice ID**

| <i>Hired additional clinicians within the past year<sup>a</sup></i> | Original model<br>(N= 1,652) |              | Practice adjusted model<br>(N= 1,652) |              |
|---|------------------------------|--------------|---------------------------------------|--------------|
|   | aOR                          | 95% CI       | aOR                                   | 95% CI       |
| Practice size   |                              |              |                                       |              |
| Large practice (6+) (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Small practice (0-5)  | 0.25***                      | [0.19, 0.31] | 0.13***                               | [0.08, 0.20] |
| Practice type   |                              |              |                                       |              |
| Non-FQHC (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| FQHC  | 1.64**                       | [1.15, 2.33] | 1.89*                                 | [1.10, 3.23] |
| Non-academic (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Academic  | 0.78                         | [0.53, 1.17] | 0.81                                  | [0.44, 1.47] |
| Not hospital-based/non-teaching (ref)                               | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Hospital-based (non-teaching)                                       | 0.87                         | [0.63, 1.19] | 0.84                                  | [0.52, 1.34] |
| Predominant payer mix   |                              |              |                                       |              |
| Private (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Medicaid  | 0.92                         | [0.70, 1.22] | 0.99                                  | [0.66, 1.50] |
| Medicare  | 0.83                         | [0.61, 1.14] | 0.76                                  | [0.49, 1.20] |
| Uninsured   | 0.51                         | [0.15, 1.77] | 0.61                                  | [0.10, 3.64] |
| Mixed   | 1.15                         | [0.75, 1.75] | 1.18                                  | [0.65, 2.14] |
| Participating in MiPCT  |                              |              |                                       |              |
| No (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Yes   | 0.95                         | [0.73, 1.25] | 1.09                                  | [0.70, 1.71] |
| Urbanicity  |                              |              |                                       |              |
| Urban (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Suburban  | 0.95                         | [0.65, 1.39] | 1.22                                  | [0.66, 2.25] |
| Rural   | 1.01                         | [0.74, 1.39] | 1.18                                  | [0.71, 1.98] |
| Sex   |                              |              |                                       |              |
| Male (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Female  | 0.97                         | [0.77, 1.23] | 1.00                                  | [0.72, 1.39] |
| Specialty care  |                              |              |                                       |              |
| Family medicine (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Internal medicine   | 1.13                         | [0.85, 1.50] | 1.21                                  | [0.79, 1.86] |
| Non-physician provider  | 1.15                         | [0.82, 1.61] | 1.11                                  | [0.68, 1.79] |
| Other   | 0.66                         | [0.40, 1.09] | 0.49                                  | [0.23, 1.04] |
| Practice ownership  |                              |              |                                       |              |
| Full owner (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Partner/part-owner  | 1.98***                      | [1.33, 2.93] | 2.18*                                 | [1.20, 3.96] |
| Employee  | 1.98***                      | [1.35, 2.90] | 2.35**                                | [1.35, 4.10] |
| Years in practice   | 0.99**                       | [0.98, 1.00] | 0.98*                                 | [0.97, 1.00] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup> "Hired additional clinicians within the past year" Responses dichotomized as Yes vs. No or Not checked

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 13. Multivariate analysis of hiring new office staff within the past year: sensitivity analysis with random intercept for practice ID**

| <i>New office staff hired in past year<sup>a</sup></i> | Original model<br>(N= 1,652) |              | Practice adjusted model<br>(N= 1,652) |              |
|--|------------------------------|--------------|---------------------------------------|--------------|
|  | aOR                          | 95% CI       | aOR                                   | 95% CI       |
| Practice size  |                              |              |                                       |              |
| Large practice (6+) (ref)                              | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Small practice (0-5)                                   | 0.51***                      | [0.41, 0.65] | 0.39***                               | [0.27, 0.56] |
| Practice type  |                              |              |                                       |              |
| Non-FQHC (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| FQHC   | 1.82***                      | [1.28, 2.58] | 2.00**                                | [1.23, 3.24] |
| Non-academic (ref)                                     | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Academic   | 0.68                         | [0.47, 1.01] | 0.76                                  | [0.44, 1.29] |
| Not hospital-based/non-teaching (ref)                  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Hospital-based (non-teaching)                          | 1.03                         | [0.75, 1.40] | 1.13                                  | [0.74, 1.74] |
| Predominant payer mix                                  |                              |              |                                       |              |
| Private (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Medicaid   | 1.00                         | [0.77, 1.31] | 1.01                                  | [0.70, 1.46] |
| Medicare   | 0.95                         | [0.70, 1.28] | 0.94                                  | [0.62, 1.40] |
| Uninsured  | 0.32                         | [0.09, 1.10] | 0.19*                                 | [0.04, 0.99] |
| Mixed  | 0.69                         | [0.46, 1.04] | 0.66                                  | [0.39, 1.14] |
| Participating in MiPCT                                 |                              |              |                                       |              |
| No (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Yes  | 1.06                         | [0.82, 1.39] | 1.10                                  | [0.74, 1.63] |
| Urbanicity   |                              |              |                                       |              |
| Urban (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Suburban   | 0.66*                        | [0.46, 0.94] | 0.61                                  | [0.36, 1.04] |
| Rural  | 0.95                         | [0.70, 1.29] | 0.99                                  | [0.63, 1.56] |
| Sex  |                              |              |                                       |              |
| Male (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Female   | 0.82                         | [0.65, 1.03] | 0.77                                  | [0.57, 1.03] |
| Specialty care   |                              |              |                                       |              |
| Family medicine (ref)                                  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Internal medicine                                      | 0.86                         | [0.65, 1.13] | 0.88                                  | [0.60, 1.29] |
| Non-physician provider                                 | 0.95                         | [0.68, 1.32] | 0.99                                  | [0.64, 1.53] |
| Other  | 0.75                         | [0.47, 1.21] | 0.73                                  | [0.38, 1.40] |
| Practice ownership                                     |                              |              |                                       |              |
| Full owner (ref)                                       | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Partner/part-owner                                     | 2.25***                      | [1.53, 3.31] | 2.80***                               | [1.63, 4.83] |
| Employee   | 1.38                         | [0.96, 1.99] | 1.45                                  | [0.88, 2.38] |
| Years in practice                                      | 0.98***                      | [0.97, 0.99] | 0.98***                               | [0.96, 0.99] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup> "New office Staff hired in past year" Responses dichotomized as Yes vs. No or Not checked

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 14. Multivariate analysis of changed workflow in the past year: sensitivity analysis with random intercept for practice ID**

| <i>Changed workflow in past year<sup>a</sup></i> | Original model<br>(N= 1,652) |              | Practice adjusted model<br>(N= 1,652) |              |
|--|------------------------------|--------------|---------------------------------------|--------------|
|  | aOR                          | 95% CI       | aOR                                   | 95% CI       |
| Practice size                                    |                              |              |                                       |              |
| Large practice (6+) (ref)                        | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Small practice (0-5)                             | 0.65***                      | [0.52, 0.81] | 0.61***                               | [0.46, 0.80] |
| Practice type                                    |                              |              |                                       |              |
| Non-FQHC (ref)                                   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| FQHC   | 1.06                         | [0.77, 1.46] | 0.99                                  | [0.67, 1.47] |
| Non-academic (ref)                               | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Academic   | 0.85                         | [0.58, 1.24] | 0.87                                  | [0.55, 1.36] |
| Not hospital-based/non-teaching (ref)            | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Hospital-based (non-teaching)                    | 0.99                         | [0.73, 1.33] | 1.00                                  | [0.70, 1.42] |
| Predominant payer mix                            |                              |              |                                       |              |
| Private (ref)                                    | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Medicaid   | 1.15                         | [0.88, 1.50] | 1.19                                  | [0.87, 1.62] |
| Medicare   | 1.39*                        | [1.03, 1.87] | 1.51*                                 | [1.06, 2.14] |
| Uninsured  | 0.99                         | [0.30, 3.26] | 0.88                                  | [0.22, 3.56] |
| Mixed  | 0.78                         | [0.52, 1.18] | 0.77                                  | [0.48, 1.24] |
| Participating in MiPCT                           |                              |              |                                       |              |
| No (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Yes  | 1.08                         | [0.84, 1.39] | 1.12                                  | [0.82, 1.54] |
| Urbanicity                                       |                              |              |                                       |              |
| Urban (ref)                                      | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Suburban   | 1.18                         | [0.83, 1.68] | 1.16                                  | [0.75, 1.80] |
| Rural  | 1.33                         | [0.99, 1.78] | 1.42                                  | [0.99, 2.05] |
| Sex  |                              |              |                                       |              |
| Male (ref)                                       | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Female   | 0.96                         | [0.77, 1.20] | 0.95                                  | [0.74, 1.23] |
| Specialty care                                   |                              |              |                                       |              |
| Family medicine (ref)                            | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Internal medicine                                | 0.75*                        | [0.57, 0.98] | 0.71*                                 | [0.51, 0.99] |
| Non-physician provider                           | 1.05                         | [0.77, 1.44] | 1.07                                  | [0.75, 1.55] |
| Other  | 0.80                         | [0.50, 1.27] | 0.77                                  | [0.44, 1.35] |
| Practice ownership                               |                              |              |                                       |              |
| Full owner (ref)                                 | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Partner/part-owner                               | 1.00                         | [0.68, 1.45] | 1.02                                  | [0.65, 1.61] |
| Employee   | 0.86                         | [0.60, 1.23] | 0.81                                  | [0.53, 1.25] |
| Years in practice                                | 0.98***                      | [0.97, 0.99] | 0.98***                               | [0.97, 0.99] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup> “Changed workflow in past year” Responses dichotomized as Yes vs. No or Not checked

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 15. Multivariate analysis of an increase in the number of new patients: sensitivity analysis with random intercept for practice ID**

| Increase in the number of new patients <sup>a</sup> | Original model<br>(N= 1,638) |               | Practice adjusted model<br>(N= 1,638) |               |
|---|------------------------------|---------------|---------------------------------------|---------------|
|   | aOR                          | 95% CI        | aOR                                   | 95% CI        |
| Practice size                                       |                              |               |                                       |               |
| Large practice (6+) (ref)                           | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Small practice (0-5)                                | 1.02                         | [0.81, 1.29]  | 1.05                                  | [0.80, 1.37]  |
| Practice type                                       |                              |               |                                       |               |
| Non-FQHC (ref)                                      | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| FQHC (ref)  | 1.34                         | [0.95, 1.90]  | 1.42                                  | [0.95, 2.11]  |
| Non-academic (ref)                                  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Academic  | 0.89                         | [0.60, 1.31]  | 0.87                                  | [0.56, 1.35]  |
| Not hospital-based/non-teaching (ref)               | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Hospital-based (non-teaching)                       | 0.81                         | [0.60, 1.12]  | 0.79                                  | [0.55, 1.12]  |
| Predominant payer mix                               |                              |               |                                       |               |
| Private (ref)                                       | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Medicaid  | 3.56 <sup>***</sup>          | [2.72, 4.65]  | 4.01 <sup>***</sup>                   | [2.92, 5.50]  |
| Medicare  | 1.16                         | [0.86, 1.56]  | 1.15                                  | [0.83, 1.61]  |
| Uninsured   | 6.43 <sup>*</sup>            | [1.36, 30.37] | 7.31 <sup>*</sup>                     | [1.36, 39.21] |
| Mixed   | 1.52 <sup>*</sup>            | [1.02, 2.27]  | 1.59 <sup>*</sup>                     | [1.02, 2.48]  |
| Urbanicity  |                              |               |                                       |               |
| Urban (ref)   | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Suburban  | 1.48 <sup>*</sup>            | [1.01, 2.17]  | 1.55                                  | [1.00, 2.42]  |
| Rural   | 0.87                         | [0.63, 1.18]  | 0.85                                  | [0.59, 1.22]  |
| Sex   |                              |               |                                       |               |
| Male (ref)  | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Female  | 1.45 <sup>**</sup>           | [1.15, 1.82]  | 1.48 <sup>**</sup>                    | [1.15, 1.91]  |
| Specialty care                                      |                              |               |                                       |               |
| Family medicine (ref)                               | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Internal medicine                                   | 1.09                         | [0.82, 1.43]  | 1.09                                  | [0.80, 1.49]  |
| Non-physician provider                              | 1.32                         | [0.94, 1.86]  | 1.36                                  | [0.93, 1.98]  |
| Other   | 0.71                         | [0.43, 1.15]  | 0.72                                  | [0.42, 1.25]  |
| Practice ownership                                  |                              |               |                                       |               |
| Full owner (ref)                                    | 1.00                         | [1.00, 1.00]  | 1.00                                  | [1.00, 1.00]  |
| Partner/part-owner                                  | 0.66 <sup>*</sup>            | [0.45, 0.97]  | 0.63 <sup>*</sup>                     | [0.40, 0.98]  |
| Employee  | 1.05                         | [0.73, 1.52]  | 1.08                                  | [0.71, 1.63]  |
| Years in practice                                   | 0.99                         | [0.98, 1.00]  | 0.99                                  | [0.98, 1.00]  |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup>“Increase in the number of new patients” Responses dichotomized as To a great extent or To some extent vs. To a little extent or Not at all or Don’t know

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$



**Table 16. Multivariate analysis of existing patients who had been uninsured or self-pay gained insurance: sensitivity analysis with random intercept for practice ID**

| <i>Existing patients who had been uninsured or self-pay gained insurance<sup>a</sup></i> | Original model<br>(N= 1,638) |              | Practice adjusted model<br>(N= 1,638) |              |
|--|------------------------------|--------------|---------------------------------------|--------------|
|  | aOR                          | 95% CI       | aOR                                   | 95% CI       |
| Practice size  |                              |              |                                       |              |
| Large practice (6+) (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Small practice (0-5)   | 1.05                         | [0.83, 1.31] | 1.05                                  | [0.82, 1.34] |
| Practice type  |                              |              |                                       |              |
| Non-FQHC (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| FQHC (ref)   | 1.92***                      | [1.36, 2.72] | 1.98***                               | [1.36, 2.87] |
| Non-academic (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Academic   | 1.00                         | [0.69, 1.47] | 1.01                                  | [0.67, 1.51] |
| Not hospital-based/non-teaching (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Hospital-based (non-teaching)  | 0.81                         | [0.60, 1.11] | 0.80                                  | [0.58, 1.11] |
| Predominant payer mix  |                              |              |                                       |              |
| Private (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Medicaid   | 2.61***                      | [2.01, 3.39] | 2.74***                               | [2.06, 3.65] |
| Medicare   | 1.11                         | [0.83, 1.50] | 1.12                                  | [0.82, 1.53] |
| Uninsured  | 2.08                         | [0.59, 7.29] | 2.07                                  | [0.55, 7.71] |
| Mixed  | 1.44                         | [0.97, 2.15] | 1.47                                  | [0.96, 2.23] |
| Urbanicity   |                              |              |                                       |              |
| Urban (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Suburban   | 1.32                         | [0.91, 1.91] | 1.34                                  | [0.90, 1.99] |
| Rural  | 1.16                         | [0.86, 1.58] | 1.17                                  | [0.84, 1.63] |
| Sex  |                              |              |                                       |              |
| Male (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Female   | 1.35*                        | [1.07, 1.69] | 1.36*                                 | [1.07, 1.73] |
| Specialty care   |                              |              |                                       |              |
| Family medicine (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Internal medicine  | 0.96                         | [0.73, 1.26] | 0.95                                  | [0.71, 1.27] |
| Non-physician provider   | 1.54*                        | [1.10, 2.15] | 1.55*                                 | [1.09, 2.20] |
| Other  | 0.99                         | [0.61, 1.59] | 1.00                                  | [0.60, 1.65] |
| Practice ownership   |                              |              |                                       |              |
| Full owner (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Partner/part-owner   | 0.75                         | [0.51, 1.10] | 0.74                                  | [0.49, 1.10] |
| Employee   | 1.01                         | [0.70, 1.46] | 1.02                                  | [0.70, 1.50] |
| Years in practice  | 1.00                         | [0.99, 1.01] | 1.00                                  | [0.99, 1.01] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup>“Existing patients who had been uninsured or self-pay gained insurance” Responses dichotomized as To a great extent or To some extent vs. To a little extent or Not at all or Don’t know

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 17. Multivariate analysis of existing patients changed from other insurance to HMP: sensitivity analysis with random intercept for practice ID**

| <i>Existing patients changed from other insurance to Healthy Michigan Plan<sup>a</sup></i> | Original model<br>(N= 1,639) |              | Practice adjusted model<br>(N= 1,639) |              |
|--|------------------------------|--------------|---------------------------------------|--------------|
|  | aOR                          | 95% CI       | aOR                                   | 95% CI       |
| Practice size  |                              |              |                                       |              |
| Large practice (6+) (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Small practice (0-5)   | 1.17                         | [0.92, 1.49] | 1.16                                  | [0.88, 1.52] |
| Practice type  |                              |              |                                       |              |
| Non-FQHC (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| FQHC (ref)   | 1.11                         | [0.79, 1.56] | 1.12                                  | [0.76, 1.64] |
| Non-academic (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Academic   | 0.92                         | [0.61, 1.39] | 0.91                                  | [0.57, 1.43] |
| Not hospital-based/non-teaching (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Hospital-based (non-teaching)  | 0.82                         | [0.59, 1.13] | 0.79                                  | [0.55, 1.13] |
| Predominant payer mix  |                              |              |                                       |              |
| Private (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Medicaid   | 2.62***                      | [1.98, 3.47] | 2.84***                               | [2.07, 3.89] |
| Medicare   | 1.13                         | [0.80, 1.58] | 1.12                                  | [0.78, 1.62] |
| Uninsured  | 0.61                         | [0.13, 2.91] | 0.54                                  | [0.10, 2.84] |
| Mixed  | 1.46                         | [0.94, 2.26] | 1.49                                  | [0.93, 2.40] |
| Urbanicity   |                              |              |                                       |              |
| Urban (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Suburban   | 1.22                         | [0.83, 1.78] | 1.30                                  | [0.85, 2.00] |
| Rural  | 1.57**                       | [1.15, 2.14] | 1.66**                                | [1.16, 2.37] |
| Sex  |                              |              |                                       |              |
| Male (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Female   | 1.17                         | [0.91, 1.49] | 1.17                                  | [0.90, 1.53] |
| Specialty care   |                              |              |                                       |              |
| Family medicine (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Internal medicine  | 1.22                         | [0.91, 1.65] | 1.23                                  | [0.88, 1.71] |
| Non-physician provider   | 1.45*                        | [1.05, 2.01] | 1.55*                                 | [1.08, 2.22] |
| Other  | 1.04                         | [0.62, 1.75] | 1.05                                  | [0.60, 1.84] |
| Practice ownership   |                              |              |                                       |              |
| Full owner (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Partner/part-owner   | 0.92                         | [0.60, 1.40] | 0.92                                  | [0.58, 1.45] |
| Employee   | 0.98                         | [0.66, 1.44] | 0.97                                  | [0.63, 1.47] |
| Years in practice  | 1.00                         | [0.99, 1.01] | 1.00                                  | [0.99, 1.01] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.  
<sup>a</sup>“Existing patients changed from other insurance to Healthy Michigan Plan” Responses dichotomized as To a great extent or To some extent vs. To a little extent or Not at all or Don’t know

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 18. Multivariate analysis of an increase in the number of new patients who have not seen a primary care practitioner in many years: sensitivity analysis with random intercept for practice ID**

| <i>Increase in the number of new patients who have not seen a primary care practitioner in many years<sup>a</sup></i> | Original model<br>(N= 1,638) |              | Practice adjusted model<br>(N= 1,638) |              |
|---|------------------------------|--------------|---------------------------------------|--------------|
|   | aOR                          | 95% CI       | aOR                                   | 95% CI       |
| Practice size   |                              |              |                                       |              |
| Large practice (6+) (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Small practice (0-5)  | 1.18                         | [0.94, 1.48] | 1.19                                  | [0.91, 1.54] |
| Practice type   |                              |              |                                       |              |
| Non-FQHC (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| FQHC (ref)  | 1.45*                        | [1.02, 2.07] | 1.54*                                 | [1.04, 2.29] |
| Non-academic (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Academic  | 1.07                         | [0.72, 1.57] | 1.06                                  | [0.68, 1.63] |
| Not hospital-based/non-teaching (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Hospital-based (non-teaching)   | 0.97                         | [0.71, 1.32] | 0.94                                  | [0.66, 1.33] |
| Predominant payer mix   |                              |              |                                       |              |
| Private (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Medicaid  | 3.06**                       | [2.34, 4.01] | 3.37**                                | [2.47, 4.59] |
| Medicare  | 1.18                         | [0.88, 1.57] | 1.19                                  | [0.86, 1.65] |
| Uninsured   | 1.87                         | [0.54, 6.51] | 1.81                                  | [0.46, 7.09] |
| Mixed   | 1.13                         | [0.76, 1.68] | 1.17                                  | [0.75, 1.81] |
| Urbanicity  |                              |              |                                       |              |
| Urban (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Suburban  | 1.19                         | [0.81, 1.74] | 1.21                                  | [0.78, 1.86] |
| Rural   | 0.79                         | [0.58, 1.07] | 0.76                                  | [0.53, 1.08] |
| Sex   |                              |              |                                       |              |
| Male (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Female  | 1.29*                        | [1.03, 1.62] | 1.31*                                 | [1.02, 1.68] |
| Specialty care  |                              |              |                                       |              |
| Family medicine (ref)   | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Internal medicine   | 0.94                         | [0.72, 1.23] | 0.91                                  | [0.67, 1.24] |
| Non-physician provider  | 1.54*                        | [1.09, 2.18] | 1.61*                                 | [1.10, 2.34] |
| Other   | 0.81                         | [0.51, 1.31] | 0.88                                  | [0.52, 1.51] |
| Practice ownership  |                              |              |                                       |              |
| Full owner (ref)  | 1.00                         | [1.00, 1.00] | 1.00                                  | [1.00, 1.00] |
| Partner/part-owner  | 0.83                         | [0.57, 1.22] | 0.83                                  | [0.54, 1.27] |
| Employee  | 1.00                         | [0.69, 1.44] | 1.00                                  | [0.67, 1.51] |
| Years in practice   | 1.00                         | [0.99, 1.01] | 0.99                                  | [0.98, 1.01] |

Logistic regression analysis with adjusted odds ratios; 95% confidence intervals in brackets. First column shows model adjusted for all covariates shown. Second model adds a random intercept for the practice ID.

<sup>a</sup>“Increase in the number of new patients who have not seen a primary care practitioner in many years”

Responses dichotomized as To a great extent or To some extent vs. To a little extent or Not at all or Don’t know

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 19. Predictive margins of primary care physician impact on emergency room use and primary care physician responsibility for emergency room use**

|   | Primary care provider influence on emergency room use <sup>a</sup> |               | Primary care provider responsibility for emergency room use <sup>b</sup> |               |
|---|--|---------------|--|---------------|
|   | Predictive margins %   | 95% CI        | Predictive margins %   | 95% CI        |
| Race  |  |               |  |               |
| White   | 72.1   | [69.8, 74.4]  | 86.6   | [84.9, 88.4]  |
| Black/African American  | 67.7   | [57.2, 78.3]  | 91.4   | [84.9, 98.0]  |
| Asian/Pacific Islander  | 82.9**   | [77.6, 88.2]  | 91.2   | [87.4, 95.0]  |
| American Indian/Alaska Native   | 87.8   | [65.6, 110.0] | -  | -             |
| Other   | 77.7   | [67.3, 88.0]  | 89.9   | [82.3, 97.5]  |
| Hispanic/Latino   |  |               |  |               |
| Yes   | 73.2   | [71.2, 75.3]  | 87.3   | [85.8, 88.8]  |
| No  | 80.2   | [67.1, 93.3]  | 97.0   | [91.2, 102.8] |
| MD/Non-MD   |  |               |  |               |
| MD/DO   | 74.5   | [69.4, 79.6]  | 92.1*  | [88.9, 95.3]  |
| Non-physicians  | 73.1   | [70.8, 75.4]  | 86.6   | [84.8, 88.3]  |
| Urbanicity  |  |               |  |               |
| Urban   | 74.2   | [71.8, 76.6]  | 88.0   | [86.3, 89.7]  |
| Suburban  | 65.5*  | [58.4, 72.7]  | 87.4   | [82.4, 92.4]  |
| Rural   | 74.2   | [69.0, 79.4]  | 84.9   | [80.5, 89.3]  |
| Practice size   |  |               |  |               |
| Large practice (6+)   | 75.3   | [72.1, 78.4]  | 90.0   | [87.7, 92.3]  |
| Small practice (0-5)  | 71.9   | [69.0, 74.8]  | 85.8*  | [83.6, 87.9]  |
| New clinicians hired in past year?  |  |               |  |               |
| No/Not checked  | 72.6   | [69.4, 75.8]  | 86.5   | [84.2, 88.9]  |
| Yes   | 74.0   | [71.0, 77.1]  | 88.5   | [86.2, 90.7]  |
| New office staff hired in past year?  |  |               |  |               |
| No/Not checked  | 71.8   | [68.4, 75.3]  | 87.9   | [85.6, 90.2]  |
| Yes   | 74.5   | [71.7, 77.2]  | 87.1   | [84.9, 89.4]  |
| Consulted with care coordinators, case managers, community health workers in past year? |  |               |  |               |
| No/Not checked  | 75.6   | [72.5, 78.7]  | 87.4   | [85.1, 89.7]  |
| Yes   | 71.6   | [68.7, 74.5]  | 87.6   | [85.4, 89.8]  |
| Changed workflow in past year?  |  |               |  |               |
| No/Not checked  | 72.2   | [69.4, 75.0]  | 86.0   | [83.9, 88.2]  |
| Yes   | 74.9   | [71.7, 78.0]  | 89.6*  | [87.3, 91.9]  |
| Co-located Mental Health w/in Primary Care in past year?                                |  |               |  |               |
| No/Not checked  | 72.9   | [70.7, 75.2]  | 86.9   | [85.2, 88.6]  |
| Yes   | 75.7   | [70.5, 81.0]  | 91.4   | [87.6, 95.2]  |

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| Years in practice (intervals) | *    |              | **   |              |
|-------------------------------|------|--------------|------|--------------|
| 0 years                       | 77.4 | [73.8, 81.0] | 90.6 | [88.2, 93.1] |
| 10 years                      | 75.3 | [72.8, 77.8] | 89.2 | [87.3, 91.0] |
| 20 years                      | 73.1 | [71.1, 75.2] | 87.5 | [86.0, 89.1] |
| 30 years                      | 70.9 | [67.9, 73.8] | 85.7 | [83.6, 87.9] |

<sup>a</sup> “How much can primary care practitioners influence non-urgent ER use by their patients?” Responses dichotomized as A great deal or Some vs. A little or Not at all

<sup>b</sup> “To what extent do you think it is your responsibility as a primary care practitioner to decrease non-urgent ER use?” Responses dichotomized as Major responsibility or Some responsibility vs. Minimal or No responsibility

Logistic regression with predicted margins; each column is a separate model/outcome, adjusted for all covariates shown.

The variable “Years in practice” was originally continuous, margins are estimated at specific cut shown. Significance testing was conducted on the continuous variable.

\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

**Table 20. Bivariate and multivariate associations of any HRA completion**

| PCP familiarity with completing HRA (n=1,898)                        | % <sup>a</sup> | OR    | p-value | 95% CI         |
|--|----------------|-------|---------|----------------|
| Very familiar (n=928)  | 48.9           | -     |         |                |
| Somewhat familiar (n=440)  | 23.2           | 0.50  | NS      | [0.20, 1.24]   |
| A little familiar (n=248)  | 13.1           | 0.27  | 0.008   | [0.10, 0.71]   |
| Not at all familiar (n=282)  | 14.9           | 0.23  | 0.02    | [0.07, 0.76]   |
| <b>HRA useful for identifying health risks (n=1,730)</b>             |                |       |         |                |
| Very useful (n=453)  | 26.2           | -     |         |                |
| Somewhat useful (n=727)  | 42.0           | 0.95  | NS      | [0.27, 3.36]   |
| A little useful (n=347)  | 20.1           | 3.41  | NS      | [0.42, 27.75]  |
| Not at all useful (n=203)  | 11.7           | 11.14 | NS      | [0.35, 350.18] |
| <b>HRA useful for discussing health risks (n=1,727)</b>              |                |       |         |                |
| Very useful (n=579)  | 33.5           | -     |         |                |
| Somewhat useful (n=696)  | 40.3           | 0.56  | NS      | [0.13, 2.52]   |
| A little useful (n=288)  | 16.9           | 0.04  | 0.01    | [0.004, 0.485] |
| Not at all useful (n=164)  | 9.5            | 0.04  | NS      | [0.004, 3.828] |
| <b>HRA useful for persuading patients to address risks (n=1,728)</b> |                |       |         |                |
| Very useful (n=464)  | 26.9           | -     |         |                |
| Somewhat useful (n=674)  | 39.0           | 2.95  | NS      | [0.62, 14.06]  |
| A little useful (n=394)  | 22.8           | 26.95 | 0.004   | [2.87, 253.14] |
| Not at all useful (n=196)  | 11.3           | 8.34  | NS      | [0.33, 210.86] |
| <b>HRA useful for documenting patient behavior goals (n=1,727)</b>   |                |       |         |                |
| Very useful (n=391)  | 22.6           | -     |         |                |
| Somewhat useful (n=683)  | 39.6           | 0.71  | NS      | [0.18, 2.84]   |
| A little useful (n=424)  | 24.6           | 0.79  | NS      | [0.14, 4.35]   |
| Not at all useful (n=229)  | 13.3           | 1.32  | NS      | [0.01, 17.34]  |
| <b>HRA useful for getting patients to change behaviors (n=1,722)</b> |                |       |         |                |
| Very useful (n=267)  | 15.5           | -     |         |                |
| Somewhat useful (n=551)  | 32.0           | 1.03  | NS      | [0.25, 4.19]   |
| A little useful (n=620)  | 36.0           | 0.87  | NS      | [0.19, 3.94]   |
| Not at all useful (n=284)  | 16.5           | 0.28  | NS      | [0.03, 2.50]   |
| <b>Provider type (n=1,972)</b>                                       |                |       |         |                |
| Non-physician (n=315)  | 16.0           | -     |         |                |
| Physician (n=1,657)  | 84.0           | 0.89  | NS      | [0.40, 2.01]   |
| <b>Practice location (n=1,972)</b>                                   |                |       |         |                |
| Non-urban (n=488)  | 24.8           | -     |         |                |
| Urban (n=1,484)  | 75.3           | 0.39  | 0.03    | [0.17, 0.93]   |
| <b>Predominant payer mix (n=1,787)</b>                               |                |       |         |                |
| Private (n=610)  | 34.1           | -     |         |                |
| Medicaid (n=640)   | 35.8           | 0.42  | 0.05    | [0.18, 0.99]   |
| Medicare (n=393)   | 22.0           | 1.34  | NS      | [0.54, 3.33]   |
| Uninsured (n=11)   | 0.6            | 0.05  | 0.04    | [0.003, 0.830] |
| Mixed (n=133)  | 7.4            | 0.71  | NS      | [0.18, 2.84]   |

Bivariate association and adjusted logistic regression with odds ratios predicting any completion of HRA from data warehouse records. Multivariate model was adjusted for all variables shown, as well as the number of HMP members assigned to the PCP.

<sup>a</sup> Percent of respondents per level of familiarity with completing HRA.

**Table 21. Rate of HRA completion by predictive factor**

| PCP familiarity with completing HRA                        | Completion rate (%) | p-value | 95% CI       |
|--|---------------------|---------|--------------|
| Very familiar  | 23.3                | -       | [22.1, 24.4] |
| Somewhat familiar  | 18.2                | <0.001  | [16.8, 19.5] |
| A little familiar  | 17.0                | <0.001  | [15.4, 18.6] |
| Not at all familiar  | 13.7                | <0.001  | [12.1, 15.2] |
| <b>HRA useful for identifying health risks</b>             |                     |         |              |
| Very useful  | 18.9                | -       | [17.0, 20.9] |
| Somewhat useful  | 20.7                | NS      | [19.4, 22.1] |
| A little useful  | 20.5                | NS      | [18.4, 22.6] |
| Not at all useful  | 21.0                | NS      | [16.8, 25.1] |
| <b>HRA useful for discussing health risks</b>              |                     |         |              |
| Very useful  | 21.2                | -       | [18.8, 23.5] |
| Somewhat useful  | 19.8                | NS      | [18.5, 21.1] |
| A little useful  | 19.8                | NS      | [17.5, 22.0] |
| Not at all useful  | 20.5                | NS      | [15.2, 25.8] |
| <b>HRA useful for persuading patients to address risks</b> |                     |         |              |
| Very useful  | 19.8                | -       | [17.6, 22.0] |
| Somewhat useful  | 19.8                | NS      | [18.4, 21.1] |
| A little useful  | 21.9                | NS      | [19.7, 24.2] |
| Not at all useful  | 19.6                | NS      | [15.3, 24.0] |
| <b>HRA useful for documenting patient behavior goals</b>   |                     |         |              |
| Very useful  | 18.5                | -       | [16.6, 20.5] |
| Somewhat useful  | 20.7                | NS      | [19.3, 22.0] |
| A little useful  | 20.8                | NS      | [19.7, 22.6] |
| Not at all useful  | 21.0                | NS      | [17.5, 24.5] |
| <b>HRA useful for getting patients to change behaviors</b> |                     |         |              |
| Very useful  | 20.1                | -       | [17.0, 23.2] |
| Somewhat useful  | 20.7                | NS      | [19.1, 22.2] |
| A little useful  | 20.1                | NS      | [18.8, 21.4] |
| Not at all useful  | 19.8                | NS      | [17.2, 22.5] |
| <b>Provider type</b>                                       |                     |         |              |
| Non-physician  | 21.0                | -       | [19.2, 22.8] |
| Physician  | 20.0                | NS      | [19.2, 20.9] |
| <b>Practice location</b>                                   |                     |         |              |
| Non-urban  | 21.8                | -       | [20.2, 23.3] |
| Urban  | 19.7                | 0.02    | [18.8, 20.5] |
| <b>Predominant payer mix</b>                               |                     |         |              |
| Private  | 21.3                | -       | [20.0, 22.7] |
| Medicaid   | 19.4                | 0.05    | [18.3, 20.6] |
| Medicare   | 20.4                | NS      | [18.7, 22.1] |
| Uninsured  | 20.4                | NS      | [12.7, 28.0] |
| Mixed  | 19.2                | NS      | [16.7, 21.7] |

Predicted HRA completion rates from GLM regression with gamma distribution predicting rate of completed HRAs using data warehouse records. Multivariate model was adjusted for all variables shown, as well as the number of HMP members assigned to the PCP.

**Table 22. Multivariate analysis of associations with self-reported numbers of HRAs completed**

|  | Number of HRAs completed<br>(N= 1,697) |               |
|--|--|---------------|
|  | aOR                                    | 95% CI        |
| <b>Region</b>  |  |               |
| Upper Peninsula/Northwest/Northeast  | Reference                              |               |
| West/East Central/East   | 0.71                                   | [0.27, 1.89]  |
| South Central/Southwest/Southeast  | 0.48                                   | [0.17, 1.34]  |
| Detroit Metro  | 0.61                                   | [0.22, 1.70]  |
| <b>Urbanicity</b>  |  |               |
| Urban  | Reference                              |               |
| Suburban   | 1.75**                                 | [1.18, 2.59]  |
| Rural  | 1.06                                   | [0.41, 2.79]  |
| <b>Practice size</b>   |  |               |
| Large practice (6+)  | Reference                              |               |
| Small practice (0-5)   | 1.49***                                | [1.20, 1.87]  |
| <b>New clinicians hired in past year?</b>  |  |               |
| No/Not checked   | Reference                              |               |
| Yes  | 0.86                                   | [0.68, 1.08]  |
| <b>New office staff hired in past year?</b>  |  |               |
| No/Not checked   | Reference                              |               |
| Yes  | 1.17                                   | [0.93, 1.46]  |
| <b>Consulted with care coordinators, case managers, community health workers in past year?</b> |  |               |
| No/Not checked   | Reference                              |               |
| Yes  | 1.01                                   | [0.80, 1.26]  |
| <b>Changed workflow in past year?</b>  |  |               |
| No/Not checked   | Reference                              |               |
| Yes  | 0.89                                   | [0.72, 1.10]  |
| <b>Co-located Mental Health w/in Primary Care in past year?</b>                                |  |               |
| No/Not checked   | Reference                              |               |
| Yes  | 1.46*                                  | [1.07, 1.99]  |
| <b>Payment arrangement</b>   |  |               |
| FFS-predominant  | Reference                              |               |
| Capitation-predominant   | 1.72                                   | [0.85, 3.49]  |
| Salary-predominant   | 1.45**                                 | [1.16, 1.82]  |
| Mixed payment  | 1.06                                   | [0.78, 1.45]  |
| Other payment arrangement  | 1.50                                   | [0.71, 3.17]  |
| <b>Predominant payer mix</b>   |  |               |
| Private  | Reference                              |               |
| Medicaid   | 2.34***                                | [1.81, 3.03]  |
| Medicare   | 0.75*                                  | [0.58, 0.97]  |
| Uninsured  | 3.41                                   | [0.66, 17.53] |
| Mixed  | 1.24                                   | [0.84, 1.83]  |
| <b>Practice has process to identify HMP patients who need HRA completed</b>                    |  |               |
| No/Don't know  | Reference                              |               |
| Yes  | 1.80***                                | [1.40, 2.32]  |

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|   |           |               |
|---|-----------|---------------|
| Practice has process to submit completed HRAs |           |               |
| No/Don't know                                 | Reference |               |
| Yes   | 7.88***   | [6.16, 10.07] |
| Received financial bonus for HRA              |           |               |
| No/Don't know                                 | Reference |               |
| Yes   | 1.14      | [0.84, 1.55]  |
| Familiarity with HMP expenses                 |           |               |
| Very familiar                                 | Reference |               |
| Somewhat familiar                             | 0.49*     | [0.27, 0.87]  |
| A little familiar                             | 0.47**    | [0.27, 0.83]  |
| Not at all familiar                           | 0.48*     | [0.27, 0.87]  |
| Familiarity with healthy behavior incentives  |           |               |
| Very familiar                                 | Reference |               |
| Somewhat familiar                             | 0.60*     | [0.39, 0.92]  |
| A little familiar                             | 0.51**    | [0.33, 0.80]  |
| Not at all familiar                           | 0.24***   | [0.15, 0.38]  |
| Model cuts                                    |           |               |
| Cut 1 <sup>a</sup>                            | 0.15**    | [0.05, 0.50]  |
| Cut 2 <sup>b</sup>                            | 0.43      | [0.13, 1.43]  |
| Cut 3 <sup>c</sup>                            | 2.48      | [0.75, 8.18]  |

Ordered logistic regression with adjusted odds ratios adjusted for the covariates shown; 95% confidence intervals in brackets

Dependent variable ordinal categories are "None", "1-2", "3-10", and ">10"

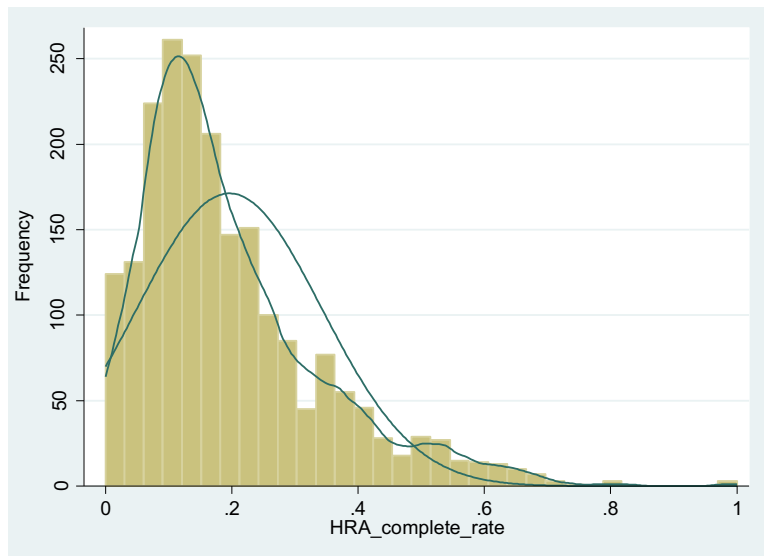
\*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

<sup>a</sup> Cut 1: Estimated cut point on the underlying latent variable used to differentiate category of None completed from 1-2, 3-10, and > 10 completed when the predictor variables are evaluated at zero

<sup>b</sup> Cut 2: Estimated cut point on the underlying latent variable used to differentiate categories of None and 1-2 completed from 3-10 and > 10 completed when the predictor variables are evaluated at zero

<sup>c</sup> Cut 3: Estimated cut point on the underlying latent variable used to differentiate categories of None, 1-2, and 3-10 completed from > 10 completed when the predictor variables are evaluated at zero

**Figure 1. Distribution of HRA completion rates by PCP**



## **Variable definitions**

HRA rate: Calculated variable based on data warehouse information compiled 7/25/16. Rate represents the number of HMP members assigned to the PCP with a completed HRA attestation date divided by the total number of HMP members assigned to the PCP. PCPs with 0 HMP patients assigned at the date of data collection were marked as missing.

MiPCT: Indicator variable from the data warehouse marking practice participation in the Michigan Primary Care Transformation Project (MiPCT).

Predominant payer mix: Composite variable of all current payers: payer is considered predominant for the practice if it represents the highest share of payer types and >30% of physician's patients have this payer type. "Mixed" includes practices with more than one payer representing >30% of patients where there is a tie, or practices with <30% of patients for each payer type.

Urbanicity: County codes were linked to the U.S. Department of Agriculture Economic Research Service 2013 Urban Influence Codes to classify regions into urban (codes 1-2), suburban (codes 3-7) and rural (codes 8-12) designations.

**Primary Care Practitioners' Views of the Impact of the Healthy Michigan Plan**

**Appendix B: Quotes from In-Depth Interviews with Primary Care Practitioners**

## 1. Patient Descriptions

### 1.1 Unmet Needs

*I think just the fact that so many things had not been addressed in the past and some of them just came in with lists. Like, "I've got bad teeth." "I have a hernia." "I haven't had a Pap smear in how long?" "I think my blood pressure is a problem." "I've got this skin thing." You know, "My hand is numb." . . . It's like the dam burst.*

(Rural physician assistant, Rural health clinic)

*I would say, you know, overall the patients are overall unhealthy in terms of having uncontrolled diseases which have been there for a while and which have resulted in some end-organ damage. They overall tend to be, you know, more overweight. Unhealthier habits such as smoking I would say are definitely more prevalent. Issues with both mental health as well as substance abuse.*

(Urban physician; Large, hospital-based practice)

*So we see a lot of people with asthma, and a number of patients who, you know, are just kind of eeking by on borrowed medications . . . Some part of medications that now we're able to get inhalers for them and do a pulmonary function test and start working on improving things instead of just damage control. Also, there's a number of people with diabetes . . . a number of people who hadn't had labs in two or three years and were just kind of type 1 diabetics who were managing their insulin, rarely checking their blood sugars and never getting the hemoglobin A1C.*

(Rural physician; Large, hospital-based practice)

### 1.2 Long Time without Care

*Most of the new people we got last year probably.... You know, I'd say, "When was your last physical?" And they'd say, "I don't know. I don't think I've ever had one," or "It's been 5 years plus." ... Or the only thing they had was just going to the emergency room.*

(Urban physician; Small, private practice)

*So, for instance...two cases where gentlemen have walked in, not having been seen in, you know, in twenty years perhaps, if at all. One gentleman said he hadn't been to see the doctor in forty years. One had multifocal carcinoma upon presentation, and the other had hypertension, diabetes and was later found to have had a stroke, all prior to arrival at the office, but those were all new diagnoses made.*

(Urban physician assistant, FQHC)

*Literally I've had some patients who haven't seen a doctor for twenty years, and those who were kind of getting primary care in the emergency room, through like free clinics and things of that nature.*

(Urban physician; Large, hospital-based practice)

*Some are existing patients that now have insurance, and so now they can get the things done you had been wanting them to do, but I would say I've seen several that didn't have a doctor for years. They knew they had diabetes and other problems, but they didn't . . . They had no health insurance, and so they just ignored it for years. Now they're coming in and getting established.*

(Urban physician; Small, private practice)

### 1.3 Patient Insurance Status

*Back in the day prior to the Affordable Care Act and the Medicaid expansion, we had maybe 20% of our patients were insured, and the rest were low-income, uninsured. Most of our patients are employed...but, as I said, most of them had no insurance. So when Affordable Care passed and when Medicaid expansion in particular passed, then we started doing a lot more of insurance billing, and it kind of expanded the Medicaids which we participated with.*

(Urban physician, Free/low-cost clinic)

*We had a 45% increase in the people who basically signed up and named us at their providers. Some of those actually came out of our . . . offices, and so they were not necessarily new patients every one of them, but a large majority of them were. . . They were being seen other places or not being seen at all, and when they signed up and we increased, you know, basically our commitment to 45% new patients in the Medicaid plan, we didn't increase our providers by 45%, and I know we're having a real struggle here at times getting some of these people in when we've got already established patients who pretty much filled our time up even before we started this.*

(Rural physician, FQHC)

### 1.4 Churn

*You know, they'll say something like, "Can we do this before the end of the month because my insurance is going to lapse?" And then they come back and, you know, a few months later, "Well, I'm back on insurance." I mean it's just crazy.*

(Rural physician assistant, Rural health clinic)

*I have a sense that that seems to happen somewhat regularly, meaning like annually it seems like, but this is all new and so it's hard to say. ... I have no way of knowing if they've recently changed or if they're planning to change.*

(Urban physician, FQHC)

*It matters what they have now or if ... they know and bring it up, like "Hey, I'm gonna lose this," or "Let's not do that now. I'm enrolled for this new insurance plan.... Let's let these things off until next month or the first of the year or whatever.*

(Rural physician, FQHC)

*Especially with the county health plans, those were a month-to-month thing. They covered nothing.*

(Urban physician; Small, private practice)

### 1.5 New Patient Population

*We have so many working poor people up here. You know, they work two and three jobs, barely can scrape it together, and they're coming in after years of little or no care, especially the men because the women at least have the breast and pelvic exam program ... And it's like they are getting everything done. They are . . . It's like problems that have backed up over the years. Dental stuff is being taken care of. Vision is being taken care of, but they usually start with me, and it's been really wonderful.*

(Rural physician assistant, Rural health clinic)

*These are deserving people. They have genuine issues. They're not, you know, lying around. These are a lot of working poor people.*

(Rural physician assistant, Rural health clinic)

*We're in an area where there's a lot of working poor out there with no insurance at all. We're in a big, kind of logging and mom and pop machine shop area kind of thing. So those people basically didn't have any kind of insurance up until a year ago. ....A lot of them are these independent sorts that don't want anything to do with the federal government or anything having to do with government in general, and yet they kind of come in and on one hand they slam-bam the administration that got their insurance for them, and yet they'll turn around and say, "It's kind of nice having insurance."*

(Rural physician, FQHC)

*I think the majority have jobs ..., but they didn't have insurance ... Their employer didn't offer it ... They fell through the cracks because they weren't poor enough and they're working...*

(Urban physician assistant, FQHC)

*I think the newer patients I've had who've recently had insurance tend to be a little bit healthier because I think they have been engaged in the workforce somehow. . .*

(Urban physician; Large, hospital-based practice)

## **2. Practice Characteristics**

### **2.1 Patient-Centered Care**

*. . . we are really trying to follow an integrated health model, you know, with [organization] and because we have on-site behavioral health services in the primary care clinic, yes. There have been a number of patients who have walked in, been evaluated and had a subsequent behavioral evaluation and counselling services scheduled subsequently as a result of coming in.*

(Urban physician assistant, FQHC)

*Because we have onsite dental and, you know, often times with just the general evaluation, you know we will refer not only for just routine cleaning but obviously if we see some problematic issues. So, yes, they can receive care pretty seamlessly. We often times can even get patients seen for dental the same day that they are seen for medical.*

(Urban physician assistant, FQHC)

*So I would say that a primary care physician making an initial referral to a psychiatric or behavioral health has about a 10% chance of actually working due to all of the complexities in the systems and how they work ... This is if you're not co-located ... But if I have the psych social worker here and we can work out a plan right on site, then he/she can be active in making sure that the appointments are actually set up. . . making sure that the person knows where they're going and that they have transportation. It's much more effective. It's like going from a 10% to 80% chance that they will, you know, have . . . That they will actually connect with their therapist.*

(Urban physician; Small, private practice)

*So I mean we emphasize that we have. . . someone answering our phones 24/7. So if they have a concern and they're not sure if they should wait until tomorrow or go to the ER, call us first. We can help you talk through that. So we mention that as an option. For our patients that tend to go to the ER frequently, we have a nurse case manager as well. So for people who go frequently, we always touch base with them after the ER visit to say, "What happened? How could we prevent this? Do you need follow-up with our office?" So then we have a chance to talk in the office and say, "Look, what happened? Next time that that happens, please call us first. We're happy to talk." Sometimes that helps; sometimes it doesn't.*

(Urban physician; Large, hospital-based practice)

## 2.2 Provider on Call/Phone Triage

*The other thing we have is 24/7 phone call availability for a provider. So we pretty much insisted with our patients that they call us first unless, you know, they're sucking air on their back with chest pain . . . Then it's pretty clear they need to be in an ambulance, but short of that, we want them to call us and talk to us before they go running to the emergency room.*

(Rural physician, FQHC)

*There's been kind of a new promotion going on here which is called "Call Us First," which is just to try to repeat this message over and over to people that they should call their primary physician's office first before deciding what to do if they're sick after hours . . . It's just a series of different messages throughout the system.*

(Urban physician; Small, private practice)

*They call the doctor on call. I think there's a difference between that and a hotline. A hotline implies to me somebody you don't know who just calls and they give you some good advice, but if they call me, I can tell them "I will see you tomorrow morning at 8:00."*

(Rural physician; Small, private practice)

*Our clinic specifically does not have after-hours service. So, you know, our clinic has traditional hours. . . . Our health system has set up some urgent care clinics. They are not very near our community, and that might be part of the reason why our patients go to the ED, but definitely kind of in the extended area there are urgent care centers which do have kind of extended hours, same-day clinics and that kind of thing. But I still don't really see our patients buying into that as much as we would hope.*

(Urban physician; Large, hospital-based practice)

*We do have a pretty good network with our home nurses to increase their visitations on our chronic disease patients to help adjust things as best they can. I get frequent phone calls from them when I'm on call at night after 8:00... trying to decide what to do with a patient who may be having some problems.*

(Rural physician; Large, hospital-based practice)

## 2.3 Urgent Appointments

*We keep slots open every day. If you call at 8:00 in the morning, you will be able to get in with your practitioner because even the busiest, fullest practice guy has got openings . . . Patients have learned I'm here, and if they come in and they're [another provider's] patient, but I'm seeing them and I realize this is bad, I'm going to immediately find [that provider] and bring him in. You know, and so that's another thing that I think has cut down on, "Well, let's just go to the ER" is that we can look right there.*

(Rural physician assistant, Rural health clinic)

*Just in parallel with Healthy Michigan, we re-formatted our schedule, . . . I guess that we just found that all of a sudden we had patients who are more willing to come in to see us. All the providers have re-formatted their schedule so that all of us now have whole half days where we're just dealing with acute emergent urgent care type stuff. Just trying to open up access to people who . . . just trying to decrease them going to the ER.*

(Urban physician, FQHC)



### 3. Changes in Practice

#### 3.1 Hired New Clinicians or Staff

*So organization-wide. . . Thirty-nine persons have been slotted for new employment. So it's about an 8 or 10% staff addition as a result of Healthy Michigan.*

(Urban physician, FQHC)

*There are more PA's at our clinic than there used to be.*

(Rural physician; Large, hospital-based practice)

*Other things is we've been able to increase the number of persons who are answering phones so that our wait times for patients are improving. Another big problem we've had for years is how long patients have to wait for referrals. We've increased the staff for people processing referral requests, decreasing wait time for that...Patients don't have to wait as long to get their referrals processed.*

(Urban physician, FQHC)

*I know that we've hired new . . . new staff and support care . . . in support roles . . . a medical assistant.*

(Urban physician assistant, FQHC)

*This is kind of my personal beef with the Medicaid expansion plan is the huge requirement for prior authorization. So we have had to bring in a new secretary to the office just to handle prior authorization requests for our practice. Basically, even she alone cannot keep up with it. So, we have a couple of other secretaries who do prior authorizations, but that has been the biggest, I would say, my downside....*

(Urban physician; Large, hospital-based practice)

#### 3.2 Changes in Number of Patients

*We've overwhelmed. (LAUGHTER) That's the short version. I mean, we are already, as you know with a federally qualified health center, we accept, always have accepted, Medicaid because we have a cost-base reimbursement agreement with the state for seeing those patients with the Medicaid expansion going up to whatever it was 133 or 137% or whatever that was . . . Then that gave us a whole lot more patients . . . current patients who now qualify for Medicaid under the Medicaid expansion. So, I guess that's the biggest change. All of a sudden, we've got a whole lot more patients serving the same population, but now they've got insurance.*

(Urban physician, Free/low-cost clinic)

#### 3.3 Wait Times

*Whoa, we're sort of overrun and the house is full. So, we're still open. Any Healthy Michigan patient can call us and come see us, but it's not like you're going to probably get as timely care as would be ideal.*

(Urban physician, FQHC)

*Well, the goal has been to improve wait times. I just think that, to be honest, because we're encountering patients who may have been kind of off the grid, so to speak, without healthcare for so long, that when they come in, they have . . . It takes a lot . . . It's requiring more of us . . . more time to thoroughly evaluate the patient and kind of get them moving forward, you know, as far as healthcare.*

(Urban physician assistant, FQHC)

*It hasn't been a problem for us because . . . There's enough of us present and there's enough availability for appointments that I don't think it's been much of a problem.*

(Rural physician; Large, hospital-based practice)

### 3.4 Administrative Burden

*Say if they have [health plan A], a written referral on a prescription pad is pretty much useless. It's got to be all done online. For [health plan B], they don't have to have a formal referral, and for C and D [health plans] it's just gotta be written on a prescription pad. So, it [which HMP affiliated health plan] kind of basically steers me in the direction of how I give them referrals, and it also determines how I give them a prescription for an MRI or a CT scan. Some I know are going to require prior authorization right out of the gate, and some of them don't require prior authorization, and some of them I have to go online. Same thing. So, their insurance kind of determines, you know, what's going to be involved in getting them the necessary tests and medications.*

(Urban physician; Small, private practice)

### 3.5 Practice Capacity/Flow

*I know there's demands on how fast we've got to get them in, and that's probably the thing that got us the worst. I mean if they said, "Well, as long as you see them in the first year and start to pick up their care after that," we could have handled that, but the idea of a huge wave of people knocking on the door saying, "We need our first exam in three months," ...It was overwhelming.*

(Rural physician, FQHC)

### 3.6 Revenue

*Since my center opened in like '95, they really hadn't done any facility updates in that twenty years. Now in the last six months, moneys have been freed up to . . . So for the first time ever, we had some rooms repainted. This is despite like bullet holes in the walls and other crazy stuff. They were patched and painted. Again, this all ties back to not so much like Healthy Michigan is directly paying for these things, but we went from having not an extra penny at the end of the fiscal year to, "Okay, we can breathe. So maybe we can start to do the things we want to do."*

(Urban physician, FQHC)

*So, we're actually getting revenue now. That's a new experience. It's certainly fairly low, but it's more than zero, and so that's awesome.*

(Urban physician, Free/low-cost clinic)

*[O]ne of our challenges...from an FQHC standpoint, when we have patients that do have Medicaid, we do get an increased reimbursement. So that number...being aware of that is, I think, very important for all of the providers in the clinic and probably all of the staff as well.*

(Urban physician, FQHC)

## 4. Acceptance of Medicaid/Healthy Michigan Plan Patients

*We just don't take anybody off the street. No. No matter what plan. We screen. They're screened.*

(Urban physician; Small, private practice)

*So unless we get new providers or, you know, somehow we can increase the providers we have up here available, we're gonna have to kind of turn the screws down a little bit and just slow down the intake*

*until we can get some. We're always working on that. I'll be honest, the pipeline for primary care in rural America is not getting more open. It seems to be getting tighter.*

(Rural physician, FQHC)

*Since we are part of this large health system, there are a lot of administrators that are involved in this decision-making process. So we do have monthly meetings with them, the physicians and the administrators, and these topics are discussed. Thus far, most providers have figured out... how to accommodate the higher number of patients without it having too much of an impact on how much time they're in the clinic. Clearly the more patients you see, the more paperwork and other after-hours work that a physician has to provide, and that does have its limits.*

(Rural physician; Large, hospital-based practice)

*Well, I mean that's kind of, sort of the fundamental basis of our clinic. So that's not really any decision at this point as to whether we're going to accept them. That's really kind of who we are. So that's kind of what our main mission is is to see people who are underinsured or uninsured.*

(Urban physician; Small, private practice)

*I chose to work at a clinic where I knew there was an 80% Medicaid population. So I think it's a population I knew I wanted to work with. I'm not sure what else to say, but I mean it's a population that I think needs care for many different perspectives in terms of, you know, social work, financial, mental health, and I think it's a valuable population for me to provide care to. It's meaningful for me.*

(Urban physician; Large, hospital-based practice)

*I guess the thing right now is that we're short staff providers, and so we don't have a lot of capacity for adding new patients. That's at my clinic. We recently had a provider that left, and we weren't able to fully replace that position. So the same amount of people, but less providers.*

(Rural physician; Large, hospital-based practice)

*For us it's a little bit different critter because we accept patients without insurance. And we don't charge. If you don't have insurance, we ask people for a \$10 copay. If they can't afford it, we don't send them to collections or nothing like that. We still take care of people. So when they get Medicaid, now we're just getting paid for what we did when we didn't have that before.*

(Urban physician, Free/low-cost clinic)

*If they're coming from outside the county and there are chronic pain meds involved, you know we want the MAPs . . . that Michigan automated program where we can see where they've been getting the stuff from. Because you'll find somebody who is perfectly compliant, who has maybe gotten a few here and a few there, and then you see the person who's averaging over 300 pain pills/month, and they're getting them from multiple people. And you realize, "Oh, I don't want this person anywhere near my practice."*

(Rural physician assistant, Rural health clinic)

## **5. Reimbursement Rates**

*You know, the previous Medicaid rate was not very good. . . We tended to limit new patients. We would occasionally take a new patient, but sometimes we'd feel like we just couldn't, but it's certainly better than the Medicaid rate. We're looking forward to when they can pay us like [the] Medicare rate at the time of service.*

(Rural physician; Small, private practice)

*Well, if they cut the reimbursement by half, then I can't afford to see them. Then I'd just see the new patients. Other people that I've been treating for free for years, I'll keep seeing. I have to pay my bills.*  
(Urban physician; Small, private practice)

*I have heard that the reimbursement rates for primary care will be better or are better than they used to be, but that's about the extent of what I know.*  
(Urban physician; Large, hospital-based practice)

*What I understand is they are currently at Medicare rates. And that that is supposed to change in 2015, and there's a debate about whether or not to extend them. If we are talking about access for patients long-term, they have to be extended or we're going to have a different crisis in this state in terms of again people with [Medicaid/HMP] cards with no access. I know the stories that we hear from our patients coming back from other Medicaid providers. . . haven't been positive. If we're serious about giving these folks true access to healthcare, then the providers need to be paid to provide that.*  
(Urban physician, Free/low-cost clinic)

*Well, that would be great whenever we get it, but [HMP health plan] bundles it all up and sends it to us twice a year, and we have no idea when they're going to send it.... We don't get paid as we go along. Michigan Medicaid does, but [HMP health plan] does not ... When we get a check, it's just a check with no numbers attached to it, and we beg for the data. On which patient did we get this? Which bill did we get the uplift, because there's no accountability. It's just sort of a lump sum.*  
(Rural physician; Small, private practice)

## **6. Impact of Healthy Michigan Plan on Patients**

### **6.1 Overall Impact on Patients and Their Health**

*We're getting a lot more . . . smoking cessation right now because the individuals coming in . . . now they can afford to get the patches or the gum or whatever . . . We're getting a lot more people trying to quit smoking, which is encouraging, but that's about the only change that I've seen.... I think there's a little bit of . . . maybe a little bit of freedom of choice there that they maybe didn't have before.*  
(Rural nurse practitioner, Rural health clinic)

*It is a huge benefit. I think it's so interesting to hear some of the political rhetoric that you hear on TV... they don't really understand the waste that goes on in terms of . . . when people don't have insurance and what ends up happening that could have been fixed much sooner if they did have insurance.*  
(Urban physician, FQHC)

*The people I've seen so far, lives are improving. You know, blood pressure is getting treated. Smoking is getting dealt with. Diet is . . . people are looking at eating, you know, somewhat differently.*  
(Rural physician assistant, Rural health clinic)

### **6.2 Reduced Financial Concern by Patients**

*They are no longer petrified about, "Oh, I can't afford that," or "I can't do that."*  
(Urban physician, FQHC)

*So they have come to see me, and I've tended to bandage them when they got sick. We've done little in-office screens . . . limited, but this patient has almost no money but they're financially responsible. They have a little job, and they make their money and they do their job, but they're really scared of debt. So*

*they have never let me do much. They have never let me offer much. . . . They'll come to see me when they need me and that kind of thing. They got their Healthy Michigan. They show up and they're like, "Alright doctor, I want everything."*

(Urban physician, FQHC)

*The primary care and prescription parts . . . They just didn't do it because they knew they couldn't afford it. So now it's within reach. That makes it a little smoother for them.*

(Rural nurse practitioner, Rural health clinic)

*Her particular issue is mental health, and she's got a few mental health things. One of them is attention deficit disorder. Another is anxiety and panic disorder, and so the impact is a couple fold. First off, it's going to make it easier getting medications because she's no longer trying to pay cash to get medicines.*

(Urban physician, Free/low-cost clinic)

### 6.3 Control of Chronic Conditions

*Well, they're benefiting from being able to have any preventive services available to them.... Maybe they had high blood pressure and had other conditions when they were incarcerated, that they're now able to follow up on and get their medications for and so forth.*

(Urban physician; Small, private practice)

*I think the impact of that overall . . . this patient is now going to have some pretty longstanding health conditions managed, hopefully managed well. . . . The risks for further sequelae due to those chronic medical conditions will be hopefully minimized. His risk for recurrent stroke . . . Now we can, you know, try and modify . . . minimize that risk. The same for end-organ damage with his kidneys, retinopathy . . . those types of things. I think we can positively impact that.*

(Urban physician assistant, FQHC)

*It's hard to measure that [impact of HMP on patients], but I really think that especially these people who knew they had chronic health problems, they were just ignoring them, and now they can actually get them taken care of. It's gonna add years onto their life because now it's not going to be uncontrolled diabetes. It's gonna be controlled diabetes and controlled hypertension and hyperlipidemia.*

(Urban physician; Small, private practice)

### 6.4 Ripple Effect

*Many patients in coming to our clinic with Healthy Michigan thought that they needed to have Healthy Michigan or have some sort of insurance to even be able to access care which is, in our case, being a federally qualified health center not the case. I mean they could come even if uninsured. So there have been a number of individuals who. . . I believe that they have been seen as a result of having the insurance . . . [they've] been able to get things like mammography, Pap smears, optometry services quite easily, and then also I believe have referred family members and friends who may not be insured to receive primary care because they understand that they can be seen without insurance here.*

(Urban physician assistant, FQHC)

## 6.5 Disease Detection and Treatment

*But I've had new people come in and say that they didn't have insurance until this came up. They're working two jobs, and luckily they fall just under the level where they can get it . . . We run cholesterol tests and sugar tests on them and anemia, and we find things with them.*

(Urban physician; Small, private practice)

*A guy said to us, "I'm so thankful to come in." We just checked him over, and criminy.... He's got all kinds of issues, you know, with cholesterol. We found out he's a diabetic now. We found out this prostate thing is elevated. Where he would have been out in the cold. A young guy, too.*

(Urban physician; Small, private practice)

*Getting new uninsured patients in, these folks have multiple problems going on. So like I did a new patient visit this last week where my problem list at the end of the visit had like twelve items on it. Most of them haven't had any preventive care.*

(Urban physician, Free/low-cost clinic)

## 6.6 Patient Activation

*I think they felt, and for whatever reason, that when they were coming in on sliding fee, that basically we were just covering their nickel for them. . . . They tended not to take advantage of primary care as much as they might have otherwise. And now that they've got coverage, I think they sort of feel empowered.*

(Rural physician, FQHC)

*They seem to feel freer to come to the office with the same things they might have taken to the ER a year ago, but that's also part of being established in an office practice for the first time in some cases, too.*

(Rural physician, FQHC)

*The only thing I have seen more directly for me . . . and this hasn't happened very often, but a few times it's like, "Oh, well I have insurance now. So, doc, can you get me that full body MRI? I need to make sure I get all the cancer blood tests because, you know, now I have insurance and I can get all that stuff." That discussion sometimes comes up a little bit more for me. "That's great that you have insurance, but that's not necessarily what we need to get for you."*

(Urban physician, FQHC)

*I think there's less barrier, and they're more willing to come in and talk about things because they know there's not going to be a problem every time we make a recommendation with trying to afford it and that kind of a thing .... I think they're more like a partner in the whole situation again rather than a one-sided recipient.*

(Rural physician; Small, private practice)

## 7. Providers' Thoughts on ER Use

### 7.1 Appropriate/Inappropriate Use

*I think a lot of times we have good relationships with people. They'd rather be seen by us, but we've also got people who just abuse the system in general. Every little twinge is, you know, Armageddon and they need to be seen immediately.*

(Rural physician assistant, Rural health clinic)

*The ones that abuse the ER don't call first. They just don't. The ER... The closest one.. The staff is very helpful there. They're very nice. It's probably a pleasant experience for them to go get pampered for simple things. So the ones that abuse it, I don't think that the Healthy Michigan Plan is going to change that. The only thing that will change is maybe some of the diabetics or the people who are being identified with high blood pressure and, you know, we work with those... We may save them a visit to the ER once a year, but the ones who are big abusers, it makes no difference if they have insurance or not. They just go there.*

(Rural nurse practitioner, Rural health clinic)

*You know, I've seen ER visit reports where it's been something relatively serious, and then I've seen it where it's been something ridiculous, to the point where I don't actually ask the patients this question, but what's running through my head is, "You went in over this?" So, I don't know if there's an absolute way to decrease ER visits. One of the things I encourage my patients to do is if it's not that serious or if it's just a sore throat, try urgent care first You won't wait as long, and it's not nearly as expensive .... We do have an after-hours phone number for people to call if it's something that needs attention right now this minute, but it's not an absolute emergency which requires an ER visit. Sometimes we get a call, and sometimes we don't.*

(Urban physician; Small, private practice)

*I mean they can ignore that recommendation and go there [the ER] directly, but then we'll catch them after they've made a few inappropriate visits and then we'll start . . . It's usually one of our nurse educators will get ahold of them during a visit and counsel them about how to take advantage of the system outside the ER...*

(Rural physician, FQHC)

*They're always encouraged to call our office, and with the expanded hours we're going to be more apt to get them in. ... In fact, almost all of our patients that have an acute care issue when they call our office, we get them in, and that's a high priority. ... but we do know what the... The serious issues... They go to the ED.*

(Rural physician; Large, hospital-based practice)

*You know, I think that principally, lack of access as well as extended hours I'm sure does play a role, but I think some of it is... "If I'm really sick, I'm going to go to the ER" kind of an attitude which is also a problem there. Maybe it's our failure to pre-communicate to our patients that we are available to answer questions and kind of help manage the problem... help triage the problem. So it's certainly one of the things that's on our mind is to try to figure out how we can get a better handle on this to help our patients.*

(Urban physician; Large, hospital-based practice)

*Well, if they had a copay... I don't know if you can do that, but like if it's not an urgent thing and you end up in the ER, you end up with a copay with some sort of penalty. To bring it to their attention that they need to call their doctor first before they go to the ER, unless it's life threatening.*

(Urban physician; Small, private practice)

*Probably the majority of the ER visits tend to be something that could have been dealt with at our office. Probably in terms of hours and I think having patients understand that, you know, sometimes you can call us and it's okay to wait a little bit longer... But again, I think if we had more openings markedly available, then they might not feel they'd have to wait another week to get seen or if there is something urgent, that they can get seen that day, not have to wait until the next morning.*

(Urban physician; Large, hospital-based practice)

*There was a big partnership with [organization], and so somebody was able to prove to [organization] maybe 15 years ago now that, "Hey, if you take care of these patients up front and maybe you allow them to get specialized care, then ...they won't come to the ER and get admitted for unnecessary care that could have been taken care of, you know, previously." ...I think a lot of docs do amazing work in primary care, but when there's an issue that needs to see a specialist, it's like, "Alright. Here's a list of docs. Go call them." And then the patient goes there, and it's like, "Well, you need to pay \$250 to get seen," and they may not have that money.*

(Urban physician, FQHC)

*When we get ER reports, they follow through with the patient to see what is their plan for follow-up because a lot of times people get into this routine of you went to the ER once and now a week later you're not better, and so you go back to the ER. We're trying to prevent that because that's something we can have an effect on.*

(Urban physician, Free/low-cost clinic)

*I mean what can a health system do? I don't know. Change people's attitude. Change people's philosophy. I don't know. I don't know that health systems can do a whole lot about that, I mean without being punitive. I mean the way to fix it, of course, is be punitive and tell the patients after the fact this wasn't an emergency and we're not going to pay for it. What is that going to do? They've got no money to pay for it themselves.*

(Urban physician, Free/low-cost clinic)

*First of all, we've gone out in trying to change this for long before we ever started the new Medicaid folks because we're also in an ACO, and so there's financial incentive to try to keep them out of the ER. Plus, we know that the care there is going to be expensive. We also know that it's fractured.*

(Rural physician, FQHC)

## 7.2 Patient Education about ER Use

*Patient education [about ER use], but it doesn't work. We stress that to our people. "What the hell are you doing in urgent care again?" "What are you doing going to the emergency room again?" "Well, there was a 2 hour wait out there, doctor. ... In my office sometimes... I'll see 60 -80 . . . rarely 80, but sometimes 80 . . . 60-70 people/day....We go through and evaluate each patient, but that goes when you sign up with me. If you don't like it, then sign up with another doctor. I can't do anything about it.*

(Urban physician; Small, private practice)

*I think a lot of it is education.... a lot of the young don't read newspapers any more. Thinking things that come across phones... The fact that if you have a cold, if you have these symptoms, going onto an antibiotic is not going to make you better faster. You know, that kind of mass education. Keep it simple, straightforward might help.*

(Rural physician assistant, Rural health clinic)

*I do a lot of teaching. Like if someone comes here for a sore throat or something, I teach them how they got what they got, what the natural progression is before it's going to be over. If they take a medication for it, teach them what the common side effects are and what allergic symptoms would be to try and make them educated enough so they don't feel the need to go to the ER over every little thing. . . . I guess that's what we do here. I spend a ton of time teaching, but that only works for the people who listen, I guess.*

(Rural nurse practitioner, Rural health clinic)



*Well, yeah, in my mind, a caseworker solves like a remedial problem, a very high intensity of inputs, and I think that can be good for people who are really quite somewhat impaired in their abilities, but there's kind of like a basic level in which maybe we should anticipate that most of these people don't know how to use a primary care physician. Things that you and I assume because of how we've grown up . . . They don't have in their baseline. And so, some sort of just like basic education to people about how to use a doctor's office... Like how does it work? How do you make an appointment? How do you come in? When should you call us? When should you call us if something's going wrong? If you don't get your medicine . . . What should you do if you're sick?*

(Urban physician; Small, private practice)

*I actually saw a patient yesterday . . . I think he has Medicaid, not necessarily Healthy Michigan . . . But like he went [to the ER] last month for, you know, an upper respiratory infection and two months ago for like allergies. So I asked him what was the point? And his response, and I think this is kind of classic for a lot of people, was like, "Well, I didn't know if it was an emergency or not, and so that's why I went." Luckily it wasn't, and so we kind of talked about, you know, what other options could you go to get some other reassurance that it's not an emergency. And so we talked to him specifically about, "Just give a call, and we'll . . . We'll keep in touch."*

(Urban physician, FQHC)

*Is it an emergency? My throat is really sore. "Well, do you think you're going to die?" "No, of course, I'm not going to die." But they've got a really sore throat, so I'd better go to emergency. So I don't know if the education fixes that per se.... I don't know what fixes that.*

(Urban physician, Free/low-cost clinic)

### 7.3 Recommending Other Sources of Care

*I think convenience is an issue, and as more practices either have more extended hours and/or we make more use of urgent care versus emergency care, I think that can help a bit with that issue.*

(Urban physician, Free/low-cost clinic)

## 8. Reasons for ER Use

### 8.1 Culture of ER Use

*They don't listen. They don't pay attention. We've dismissed many patients because of that. It's more convenient to go to the emergency room. I can see on a weekend if they call me first and there's an issue, I'll tell the answering service or I'll talk to them and say, "Yeah, well, you'd better be checked. Do not wait until Monday." But a lot of them are just constantly going into the ER, and that's always been a problem....The pain, they feel, is worse, and they need to be seen right then.*

(Urban physician; Small, private practice)

*People go to the ER way more for many things. . . that aren't anyway near an emergency unfortunately, and it's just sort of a culture. "Oh, I don't feel good; I'll go to the ER," in the community where we're at. So it's hard. And I can envision how maybe Healthy Michigan or, excuse me, having Medicaid and getting some care may over time reduce that.*

(Urban physician, FQHC)

*In the whole state of Michigan, I think we're one of the highest ED utilization clinics in the state of Michigan. Our kind of copartner in this is, I believe, like another [city] clinic, and some of it is we think possibly some kind of a cultural issue. When you're really sick, you go to the ER type of attitude, but we*

*do have a lot of ED utilization, even amongst patients who just have had insurance and they're back in the ED with a problem, in spite of the fact that we do give literature and information about some urgent care centers and how to access us if it's after hours and things like that, but that is a challenge.*

(Urban physician; Large, hospital-based practice)

*I think some of these people honestly since they haven't had insurance, maybe ever, or haven't been to the doctor in a long time . . . They don't understand why they can't come in that day to be seen and why they can't go to the ER and tell everybody I'm their doctor, and then I start getting all these reports to review and I've never heard of this person. Some of these people are so ignorant of the healthcare system that they just don't really understand that I'm not your doctor until you see me, but I would say that's the case of people even who have private insurance.*

(Urban physician; Small, private practice)

*I think people use the ER whether they have insurance or not. They don't even think of, "I'm going to the ER and I'm going to get a bill." Their mindset is, "Well, I can't afford it anyway, and so I'm not paying for it." It's not even a big deal. So, whether they have insurance or not, I don't necessarily think I've seen an increase in people saying, "Well, I have insurance, and now it'll cover."*

(Urban physician, FQHC)

## 8.2 Perceived Need

*The vast majority of my patients that go to the ER took it upon themselves to go to the ER. They didn't call us first. If they called us first, it would be things like chest pain or can't breathe or might be having a stroke, or they're calling when we're closed. But then we usually say Urgent Care unless it's chest pain, I can't breathe or I'm having a stroke.*

(Urban physician; Small, private practice)

*Sometimes. . . it's a benign thing, but it's something they're very frightened about. So we had a young man who was having vertigo, and he had been seen here a couple of times for it. He didn't fully understand and was still frightened by it . . . And so he went to the ER.*

(Urban physician, Free/low-cost clinic)

*I think for some folks with mental health problems, until we get the mental health problem solved, there is nothing to be done because they're going to be scared in the middle of the night, have difficulty interpreting what they're feeling, and they're going to end up there.*

(Urban physician, Free/low-cost clinic)

*They're just worried. . . . I mean it's me judging them by the telephone.... I can't allay all of their fears that they have something bad going on. So that's the main thing . . . They're worried that they have a serious illness. They don't understand what's serious and what's not sometimes.*

(Rural physician; Small, private practice)

## 8.3 Need for Off Hours Care/Convenience

*Some other ones go there because the best ride they can get or the family members that give them transportation work during the day and are only available in the evening. So they just go to the ER because that's when they have a ride.*

(Rural nurse practitioner, Rural health clinic)

*I always ask them, "Why did you go? What happened? Are you feeling any better?" And usually it's, "Well, Saturday morning I woke up and . . ." or "Saturday I had a fall," or "Saturday I had trouble breathing and I went to the ER."*

(Urban physician; Small, private practice)

*We have a lot of population that lives downtown, and there is not an urgent care. The ER is much more accessible than an urgent care is downtown.*

(Urban physician; Large, hospital-based practice)

#### 8.4 Encouraged to Go by Their Provider

*So sometimes we'll just order . . . I'll just order a troponin and order it stat. Then they call me. If it's elevated, I'll send them right over to the emergency room then . . . I tell them, "Hold them there. If it's elevated . . . It only takes a few minutes to run it . . . send them to the ER." People come in with leg pain. I send them over to the lab. I send them over to get a Doppler right away . . . venous . . . and if it comes back positive . . . Send them right to the emergency room. They evaluate them, and get them on medication right away . . . Or admit them if they need to be.*

(Urban physician; Small, private practice)

*We'll have people come in and realize they need to be in the ER. We got the wheelchair and I take them down there and confer with the ER doctor and tell them why. So it kind of goes both ways.*

(Rural physician assistant, Rural health clinic)

*Let's say someone had a patient this week with an abrupt turnaround from a recent hospitalization, had abnormal labs. He followed up the way he was supposed to have, but when we got his lab results, you know, the tests revealed that his acute condition was, you know, recurring. So in those instances, you know, we'll give them a call and say, "Hey, you've got to go to the ER for further evaluation, only because we can't directly admit you ourselves."*

(Urban physician assistant, FQHC)

*So most of the ones that have gone, so far that I'm aware of, have been people we've sent from the office... Two diabetics actually that we've sent, one twice and one once, who were completely out of control and things like that.*

(Urban physician, Free/low-cost clinic)

*Many of our patients have difficulty expressing what they're feeling adequately or giving a really good history, it's even hard to triage it on the phone. I know I have sent people into the ER where I'm 90% sure it's relatively benign, but I can't be certain enough with the history I'm getting to say "no, they don't belong there."*

(Urban physician, Free/low-cost clinic)

## 9. Barriers to/Facilitators of Care

### 9.1 Wait Times

*And yes, some people I want to get in where they have depression and things. They need somebody. It's very hard to get them in. It's a six-month wait, or they don't take them anymore. A six-month wait!*

(Urban physician; Small, private practice)

*Mental health services are always a problem. I don't recall offhand, but it depends on the plan and where they get referred to. . . . Most of the plans participate with one or two of the mental health facilities that are around. . . . They have to call and make the appointment . . . the patient does, and a lot of times they are then seen by a psychologist. They are not seen by psychiatrists . . . seen by psychiatrists if they're needed . . . but that's usually a couple of months down the line.*

(Urban physician; Small, private practice)

*Some of those people were coming to see me already and they just didn't really have insurance .... But a lot of these people weren't accessing healthcare, and now they're trying to access healthcare. And while we've expanded. . . . You know, we already had a shortage of family docs or internists or whatever primary care person you're thinking of. And so, you know, if you want a new appointment with me, you're looking at like a 10 or 12 week waiting list, okay? So that's just crazy... So all of these people have coverage. Now they all want to come to the clinic and be seen. They can't get to see me for a long time. "Well, I'll go to the ER." So while it's helped with coverage, there's a long way to go in terms of improvement for access.*

(Urban physician, FQHC)

*I just saw a guy today. . . . He said, "They can't get me in for three months." ...He said, "They told me you'd fill my psych meds." I told him, "And they're right. I will." . . . He's a guy who's had issues over the decades. He needs to actually be sitting down with a shrink. They can't do anything for three months? He does not need to be without his meds.*

(Rural physician assistant, Rural health clinic)

*We have occasional newbies who move up here. "Oh, I have diabetes and where's the nearest endocrinologist?" "Sixty-five miles down the road, and he's booked three months down the road." We tell them, "We'll handle your diabetes unless you are totally out of whack or you have an insulin pump, or you're a really touchy brittle diabetic." I've got lots of diabetics in my practice.*

(Rural physician assistant, Rural health clinic)

*So now they're [CMH] starting to use Telehealth where they have psychiatrists from all over the country skyping with patients. Unfortunately, the psychiatrist is only available the one day a week they're skyping, and then if there's a medication question or question from me to that psychiatrist during the week, they're not available. But the staff takes a message, and they wait to ask them on the next Tuesday that they're skyping. It makes getting patients in to see a psychiatrist very difficult.*

(Urban physician; Small, private practice)

*I guess for the patients who have Medicaid, there are [dental] clinics that will accept Medicaid patients, but either there's a really long wait list or they have to go and just wait in line.*

(Urban physician; Large, hospital-based practice)

*You know dental is the same problem as it is in the whole state. You know, we have a Medicaid dental clinic here, but it's a long wait to get in. It's still a problem because regular dentists don't . . . I don't know about downstate, but up here no one accepts Medicaid.*

(Rural physician; Small, private practice)

## 9.2 Administrative Burden

*Philosophically I would say I would want my practice to accept Medicaid patients. If there were something that was in my power to make the process of taking care of the Medicaid patients less onerous. . . . At the collective level as you are making that decision, I would hope that my system leadership*

*would advocate for kind of cutting the red tape that is sometimes required . . . which is what makes it difficult to care for Medicaid patients.*

(Urban physician; Large, hospital-based practice)

*Well, we accept three of them [Medicaid health plans] right now. We don't accept every one that's in [area of] Michigan. We no longer accept Healthplan A Medicaid or Healthplan B Healthy Michigan simply because they're such a pain ... to deal with.*

(Urban physician, Free/low-cost clinic)

### 9.3 Acceptance of Medicaid/Healthy Michigan Plan Patients

*My staff will do like a little quick run-through what medications do they take . . . Briefly, what are their health issues. If it's someone who has morphine addiction and they're trying to be brought down using suboxone ... that's not a good fit for her.... So we pretty much take everybody except we weed out the ones where I don't think it's a good fit.*

(Rural nurse practitioner, Rural health clinic)

*So I would say it's 10 times as hard to get dental care as it is medical care.*

(Urban physician; Small, private practice)

*So the mental health situation in this area . . . We have a couple of private psychiatrists . . . The only ones I'm really familiar with work for the hospital. They don't take Medicaid or Medicare.*

(Urban physician; Small, private practice)

### 9.4 Workforce

*I think the fundamental problem with regard to ER is related to access . . . primary care access. So I live in a real huge bottleneck. There's just not enough of me . . . There's not enough primary care . . .*

(Urban physician, FQHC)

*Well, we have a particular problem in this area because we're very underserved as far as mental health goes. In this county, all we have is the community mental health office, and... They don't have a full-time psychiatrist. ... if the counselor believes the person needs psychiatric intervention by the MD, then they get ahold of me and say, "Please write a referral so we can slide this person in with the psychiatrist." So it takes a long time.*

(Rural nurse practitioner, Rural health clinic)

*But it's [i.e. transportation] definitely a problem up here because where . . . Where we're located, the nearest hospital is 40 miles away. All of the specialists are a minimum of 40 miles away. So it's very . . . Travel is a very difficult obstacle here.*

(Rural nurse practitioner, Rural health clinic)

*We have no dermatologists in this county. So when I try to refer one of my patients to a dermatologist, there are no offices that will take the patients. So that's kind of a problem for us is the lack of specialists who take Medicaid patients in certain fields.*

(Rural nurse practitioner, Rural health clinic)

*Well, we were already getting a lot of new patient requests even before this because there's just not enough doctors in this area. I guess it picked up a little bit with that expansion, but I mean the hospital won't let us hire more staff. ...So we just had to limit how many new patients we'll take.*

(Urban physician; Small, private practice)

*It doesn't help them very much if they have an insurance, but the nearest orthopedist is 1-1/2 hours away.*

(Urban physician, Free/low-cost clinic)

#### 9.5 Out-of-Pocket Costs

*But, you know, those are two examples that I could repeat in my practice of people who didn't want any health intervention screening care because they were just nervous about the bills that would be generated. They don't want to know if they're supposed to be on a medicine because they're nervous about paying for it. Now they're okay to explore that.*

(Urban physician, FQHC)

*our population in general doesn't go to the ER very often and I think it's because when you're uninsured, you don't go to the ER because then you just get a big ass bill and now you've got to go to collections and then you bankrupt.*

(Urban physician, Free/low-cost clinic)

*You know, my practice style has and always will be do what's right for the patient and then worry about the cost afterwards, but it has made things a little easier now that they do have insurance. So my recommendations were always the same, but whether the individual went through with the plan when they didn't have insurance, did vary depending upon their own personal beliefs and, you know, personal financial situation.*

(Rural physician; Large, hospital-based practice)

#### 9.6 Patient-Primary Care Interactions

*I just think that kind of... I believe it kind of helps to kind of develop the working relationship between the provider and the patient because we're talking, and they're allowed to talk relatively freely.*

(Urban physician assistant, FQHC)

#### 9.7 Transportation

*That's a problem up here. It's a a widespread rural area. There are 320,000 people in the entire [area]. People live on the bush. People's cars freeze. People will have drunk driving on their record. They have to rely on other people to drive them in. I had three cancellations in one day where the driver fell through.*

(Rural physician assistant, Rural health clinic)

*I had two guys yesterday in my office who called their insurance, got transportation arranged, and came to see me. Most of the people I see are Medicaid. So, it's possible. But I can guarantee you that [lack of] transportation is a huge hindrance to good healthcare in the population that I see. So that as a benefit is a huge help.*

(Urban physician, FQHC)

*I think that's [transportation] actually a really good service because, again, my office is located in [city]. A lot of my patients, particularly Medicaid patients, have big transportation barriers....there is, I believe, like a three-day advance notice or something they have to give. So sometimes that can get in the way if the patient needs to come back ... for . . . like an immediate short-term follow-up.*

(Urban physician; Large, hospital-based practice)

*A lot of the poor folks who would be on this program would live in Sawyer which is 18 miles away. They are offered like bus vouchers or something or advised they can take the bus, or they can actually get a voucher for a door-to-door bus, but it's very limited and very strict .... If you take a bus to the doctor's office and the office is behind, your bus has to leave.*

(Rural physician; Small, private practice)

*I didn't go to medical school to be screwing around with signing forms about getting people to and from their doctor's appointment. That doesn't help them be healthier per se. It doesn't require my involvement or my signature.*

(Rural physician; Large, hospital-based practice)

## **10. Types of Care**

### **10.1 Serious/Complex Mental Health**

*It's difficult but, you know, we do so much mental health stuff. I treat depression every day. I treat generalized anxiety every day. I don't need [organization] for that. I need them for my schizophrenic patients. I need them for out of control bipolars who've jumped off their meds. . . . You need them for the stuff that's really heavy duty. Severe depression or nonresponsive or, you know, you're thinking, "Does this person need shock therapy?" I can't order that.*

(Rural physician assistant, Rural health clinic)

*If they don't think you're bad enough, they won't see you. "Oh, ADHD? We don't do that." "Oh, it's just mild depression. No, you're okay. Go back to your doctor." . . . Even if they're severe enough to need a psychiatrist, I've seen people wait four to six months on a waiting list. If you miss any of your counseling appointments in between, they might kick you off the list. It's kind of brutal.*

(Urban physician; Small, private practice)

*You know, I think where you see this specifically is like I've had a couple of patients that I've been like long-term . . . you know, maybe has long-term psychiatric needs and not been able to get the correct care, and we've done our best to help them, but now you say, "Hey, let's get you set up," and now they're going to therapy, they're getting the correct medications that they need. That makes a humungous difference, I think, for them.*

(Urban physician, FQHC)

*The colocation is primarily they are health psychologists. So they're psychologists. They're not psychiatrists. So they do have limitation that they can do initial evaluations and counseling, but not really manage kind of complex . . . If the patient needs a prescription and it's for a simple condition like depression, we can certainly co-manage with them. But when we're dealing with more complex psychiatric illnesses, we do need these patients to be referred on to a psychiatrist, and at that point we have had problems with the patients not always having access to behavioral health, because many of the Medicaid plans, part of Healthy Michigan, are not accepted by the behavioral health department in our health system.*

(Urban physician; Large, hospital-based practice)

## 10.2 Mental Health

*Because there are so many mental health and social issues, it's probably overwhelming for most primary physicians to have a significant percentage of their practice be Medicaid without having a social worker or a care manager or an integrated psychiatric part to their practice.*

(Urban physician; Small, private practice)

*I think we would love to have colocation of mental health, but it hasn't been feasible from our discussions so far. You know, I mean we're trying to work more on group models of care to help with waiting times for patients and with patient satisfaction and just overall care, but that's been an ongoing theme we've been trying to improve.*

(Urban physician; Large, hospital-based practice)

*They can get into Psychiatry, but it's much more challenging. They have to go to three psychology visits. They can't miss those visits. Then they get referred to a psychiatrist who will see them for a short-term basis. Often I hear a lot of negative comments about the psychiatry experience that they have. The counseling piece generally has been okay and doable. If the patient is motivated to call and make the initial appointment, then I think it has been going well for them.*

(Urban physician; Large, hospital-based practice)

## 10.3 Dental Care

*The new one, they get some dental stuff too. They've had dental problems for years, and their teeth are falling out, affecting their hearts and everything else....*

(Urban physician; Small, private practice)

*I can't tell you how many times a day I get asked for antibiotics because of some form of dental infection, and either they can't get a dental appointment or it's two months into the future. I really don't know of very many patients that have an easy time getting dental.*

(Urban physician; Small, private practice)

*I mean even to get access to dental care. That was a huge problem in the past . . . Primary care doctors would see people with dental pain with abscesses, and they couldn't get in to see a dentist. So our job was often to put them on antibiotics and pain meds, and knowing that what they needed was to have an extraction or a root canal done.*

(Rural physician; Large, hospital-based practice)

## 10.4 Primary Care

*Access to preventative services, prescriptions, and more just access to physicians for medical problems . . . chronic disease management . . . All that is improved with Healthy Michigan. No question in my mind, and I'm sure that your data is going to support that.*

(Rural physician; Large, hospital-based practice)

*Because they just weren't going to come in for a complete physical that might cost them a lot of money, as much as we begged them to, or even if we gave them a deal. So now we can sit down, and they get sort of top notch review just like anybody else with good insurance. Complete exam, screening labs and talk about preventative care . . . Like finally they've recognized that they need this too.... It seems like*



*they're happy and relieved now to be covered, and they feel . . . that sense that there is a safety net there for them.*

(Rural physician; Small, private practice)

*I think one of the biggest benefits that I see from the insurance ...now there's a lot of help in terms of the chronic disease management. I think we do see a high proportion of chronic disease, whether that's diabetes, blood pressure, smoking, obesity. And you know the nice thing about that is that it allows . . . more options.*

(Urban physician, FQHC)

*From the patient perspective though, I see tons of benefits because they get . . . preventative care . . . One of the big things is if you don't have insurance, you know the idea of getting a colonoscopy. That's not even feasible. You know, that's so expensive. And now that they have insurance . . . The same thing with some of the screening stuff, specifically mammograms and Pap smears, things like that.*

(Urban physician, FQHC)

## 10.5 Specialty Care

*With [healthplan], it's very easy. They don't have to have a formal referral, either prescription or online. They can just find one in the [healthplan] directory and go see them. . . . Sometimes the specialist will call me and say, "did you recommend this?" Sometimes I have, and sometimes I haven't. But, again... they don't need a formal referral.*

(Urban physician; Small, private practice)

*Specialists had a limited number of openings for the uninsured in the past... There were a certain number per month that different groups allowed . . . As far as I know, there's no change in saying "yes" to anybody who's got Healthy Michigan insurance. I would assume that all the specialists accept that in this area.*

(Rural physician; Large, hospital-based practice)

*So, for some specialties we had very good access. For other specialties, we had very limited or no access. So, there's a gynecologist . . . who's been incredibly generous, and so we've always had really good access for that. But things like neurology and neurosurgery have been a little more difficult. Dermatology is kind of forget it. Podiatry . . . If somebody had a significant problem, we could. Ear, Nose, Throat – again, you had to really have a very significant problem. Sleep studies for sleep apnea - which is very prevalent in our patients – we had no access for a long time. Over the last year or so, we've had some limited access, but with them having insurance, now I've got really good access for them.*

(Urban physician, Free/low-cost clinic)

*[C]ertain specialties we struggle with getting patients with Medicaid in. Like Rheumatology is probably the biggest one. Other than that, it's been actually pretty good. We've been able to get most of our patients with Medicaid into most specialties or other care that they need.*

(Urban physician; Large, hospital-based practice)

*Specialists – If they have no insurance versus they have Medicaid or Healthy Michigan Medicaid, again, there's just a world of difference because now I can get stuff done. You know, back in the day, we never used to order colonoscopies for patients if they were uninsured because nobody can afford \$2,000 to have that done. But with Medicaid where that's a covered benefit, yeah, now we get to order them all the time on people.*

(Urban physician, Free/low-cost clinic)

## 10.6 Testing and Pathology

*Another great thing is screening colonoscopies for colon cancer. So under the program I was talking about, we could get them a colonoscopy . . . if I saw a polyp on sigmoid, I could send them. If they had a disease like ulcerative colitis, I could send them, but I could not get a screening colonoscopy, even for people with family history of colon cancer. Now, I can write the referral. They go! It's fantastic! I'm very excited.*

(Urban physician, Free/low-cost clinic)

*Let's say somebody has got a heart murmur. Somebody has got fluid in their legs, and you're listening to their heart and thinking, "Hmmm. I can get an EKG. I can send them for an echocardiogram . . . I can do this stuff. I can check a pro BNP. I can look at their kidney function." Before I'd have to call over to the lab and say, "Alright, how much is it going to cost this person to pay cash so we can check their kidney function?" ...You know, I'm not a money person. I'll take care of people, and Healthy Michigan has made that easier.*

(Rural physician assistant, Rural health clinic)

*So if you have diabetes, the good thing is that we can get labs. That's not an issue. [organization] has allowed us to get labs and actually doesn't even charge the patient for labs, which is pretty awesome.*

(Urban physician, FQHC)

*I am seeing patients come in and getting the care that they need. Yes, it sometimes is a headache because if I need something, I will have to run in through many channels and sometimes things don't get done. I have had patients, for instance, coming with a belly mass where they needed a CAT scan, and you know the prior authorization didn't go through and they waited like three months or four months before somebody figured out that they hadn't had a CAT scan. It delayed care which possibly could have had some adverse outcome.*

(Urban physician; Large, hospital-based practice)

## 10.7 Hearing and Vision

*. . . hearing aids. That's fantastic. Vision. . . . Most all the plans cover the vision. They get a checkup for that. They don't pay for their glasses....*

(Urban physician; Small, private practice)

*People like my age . . . fifties/sixties . . . [I] ask... "When's the last time you've had a good eye exam?" It's not like they need to go to an ophthalmologist, but, you know, I want them to go. We've got good optometry. If they see something that needs an ophthalmologist, I know they can refer them on.*

(Rural physician assistant, Rural health clinic)

## 10.8 Medications and Supplies

*[T]hey also now have access to a pharmaceutical formulary which is, you know, light years better than what they had when they were looking at, "Okay, what's the \$4 Wal-Mart offer me?"*

(Urban physician, FQHC)

*So if you are somebody who needs insulin, it can get really tricky if you don't have insurance because insulin can be hundreds of dollars. You would get people who would resist seeing you because they're afraid of how much things are going to cost, and so they just persist in their uncontrolled diabetes, and then all the complications that come with it. Once they're sort of like, "Okay, well, insulin is covered and*

*I can get my routine labs because that will get covered," well then they show up, and it just makes my life easier for sure, and theirs, I think. And then COPD . . . Some of the inhalers and other things that, you know, are recommended in terms of standard of care treatment . . . Those are also quite expensive and... If things are expensive, people are just not going to do it. It doesn't matter if it's the right thing or even if it helps them.*

(Urban physician, FQHC)

*I'm not a huge fan of [healthplan]. I mean it's better than no insurance, but they're pretty restrictive on a lot of things. If you call and you sit on hold and you fill out forms, then they finally give them the medicine. Half of the time, no, they still won't give them the medicine. So that's a frustration. You start to remember the drugs they're just never going to cover, and you just try to avoid those . . . Just like private insurance formularies. They change all the time... You just prescribe, and if the pharmacist shrugs his shoulders and says, "No, that's not covered," you say, "Then, what is? What do they cover?" It usually involves my staff having to call all the insurance companies, sit on hold and ask them that question.*

(Urban physician; Small, private practice)

*If I prescribe a medication that's not covered, the person doesn't call me often times. It's just not out of their mindset to think they can call me and say, "I'm having trouble." So, they either don't know that they should call or they can't call, or they're not skilled at using the phone and leaving a message and so forth. So what happens is if I prescribe somebody something on March 1st, they didn't get it at the pharmacy. They just let it drop until the next time they're here, and then I find out six weeks later that they didn't get the medication . . . So we could have solved the problem right away because I would have used some alternative, but to start with I don't have clear information about what's covered, and then secondly the patient isn't used to expecting to get something, and so they just take it for granted that they can't get it. End of story.*

(Urban physician; Small, private practice)

*Glucometer strips were our number one pharmacy cost. So, the fact that that cost is going away means we can do a lot more work in other areas. Awesome.*

(Urban physician, Free/low-cost clinic)

*The main challenges have been with contraception because they will only cover things like the NuvaRing or the patch if the patient can prove that they failed OCPs [oral contraceptives]. It's completely ridiculous because so many people can't remember to take those.*

(Urban physician; Large, hospital-based practice)

*The other issue that's been a problem is that there are some things that are covered by [healthplan] that are over-the-counter, but the pharmacies don't know about it. For example, vitamin D is covered in certain dosages. So I'll tell patients, "Look, I know it's covered. I've talked to [healthplan]. They've confirmed for me that it's covered. They go to the pharmacy, and the pharmacy says, "Sorry. You'll have to pay out of your pocket."*

(Urban physician; Large, hospital-based practice)

*And we had . . . a lot of people with asthma who were being managed with a borrowed nebulizer and the nebulers from Walmart, packs of 100 because . . . That was the cheapest way for them to get asthma medication because they couldn't afford inhalers . . . So we're able to get medications for them and do a pulmonary function test ...start working on improving things instead of just damage control.*

(Rural physician; Large, hospital-based practice)

*But for the most part, I think, the access to medication makes a huge difference and especially when we're talking about chronic disease management. It's such a benefit.*

(Urban physician, FQHC)

*For generic drugs that are covered, not a problem, but even some of the generic drugs aren't covered. We have a formulary that is updated in our electronic medical record that works most of the time, that lets us know what's covered and what's not, but even then it's not accurate. The patient will go to the pharmacy to pick up their prescription, and it's not covered and then they can't dispense it, and then it's a big hassle for everybody and it doesn't. . . It's not resolved in a very timely fashion. So sometimes these individuals will go without their prescription for a couple of days until Medicaid processes their prior authorization.*

(Rural physician; Large, hospital-based practice)

### 10.9 Substance Use Disorder

*They don't come in actively seeking treatment. The only ones that I found here are the ones who have been sent in by court order or have lost their job and family is getting after them to either straighten up or get out. Those individuals don't come looking for help until something really dire happens, and some of them have, you know, even gone to jail and had their children taken away and have been given a choice, "Either straighten up or we'll take the children"....They have to be forced into it.*

(Rural nurse practitioner, Rural health clinic)

*They do provide evaluation and they can certainly provide the patient with some resources to get help, but we don't really do substance abuse counseling or treatment at our center.*

(Urban physician; Large, hospital-based practice)

*For a lot of our folks with substance abuse, ... when they are ready to make the change, we've referred them through the state programs . . . Almost all of them have been uninsured to date. I haven't had anybody that's really under [healthplan] yet that's really ready to make that change.*

(Urban physician, Free/low-cost clinic)

### 10.10 Pain Management

*I'd say the one area where we have probably some limitations is the person who is outside our county who wants to come in with complex pain and mental health issues... You've got somebody who's on beaucoup pain meds. You get the feeling, you know, "why are you not in your own county?" It's either that people are refusing to prescribe any pain meds, which is ridiculous, or these are people who've burned their bridges.*

(Rural physician assistant, Rural health clinic)

*One of our biggest referrals for behavioral health for new people coming in are people who are on chronic pain meds. We pretty much insist that they participate . . . at least be offered, you know, assistance in behavioral health for chronic pain management, and it seems like pretty good numbers in the last year have taken advantage of that.*

(Rural physician, FQHC)

*If you turn in your paperwork and you're on a bunch of controlled substances and it appears that you expect me to start filling those, that sends off red flags. Not to say we don't, but we look and see why you're taking those things and let you know that we may disagree and may want to transition you to a*

*different medication or wean you off of them. If you're seeing a pain specialist and you plan on continuing the meds, fine. Then we don't... That's not a red flag.*

(Urban physician; Small, private practice)

*A lot of people go there [the ED] for pain medication. They ran out of the pain medication they have or they're not getting their pain treated in a way that they want. So they'll go to the ER and at least get a... short supply of opiate medications. That's it. That's a big component. A lot of people with musculoskeletal complaints, back pain that's chronic, will go to the ER.*

(Rural physician; Large, hospital-based practice)

## **11. Health Risk Assessment**

### 11.1 Process

*[T]hey always complete their portion of it [HRA] prior to seeing me. So I don't discuss their... I don't go through the, "how do you feel your health is?" "Are you smoking?" "What are your goals?" I can see where that's probably trying to generate conversation. I don't do any of their portion with them. That's all done prior to me sitting down. So then I fill out everything... the physician portion; 80% of the time I fill that out in the room with them, and then that leads to a conversation about some appropriate health screenings... whether or not we want to check their cholesterol or, "Okay, I'm just looking at your BMI here. This is something that's going to be reported."*

(Urban physician, FQHC)

*I review it with them. If they haven't completed it, we go over it. I'll just ask them, you know, "what do you want to be serious about on here?" "Is there something you'd really like to go after?" For some guys, it's simple. I've... Guys say, "I want to drop 20 pounds." I'll ask them, "What do they drink?" "I drink a lot of pop." You know, "Hey. Just stop drinking pop. You'll probably drop 20 pounds right there."*

(Rural physician assistant, Rural health clinic)

*My girls would look on the computer first and see that they had straight Medicaid, which isn't the HMP... the Healthy Michigan plan. So the people would come in and they would have their HRA forms half filled out, or they would have been faxed to us half-filled out. So we were seeing on the computer that they didn't have HMP, but yet they were walking in with forms for it. So in the beginning, it was very confusing... Now people are starting to come through right from the get-go... It's a little smoother now than it was last year.*

(Rural nurse practitioner, Rural health clinic)

*The health risk assessment [sometimes] comes to us partially filled in based on the conversation that the caseworker had with the member, and so there was a real good lead-in that way because the person on the phone explained to the member "this is where you're going to go," and they helped them understand where my office is. So when they come in, they already feel like they actually belong here... They actually come in with a sense of continuity, like they're just on the next step of the ladder.*

(Rural nurse practitioner, Rural health clinic)

*But filling out that form facilitates those discussions... Usually the first visit is kind of more of a Q and A and introduction to each other, and the next we schedule for a full physical. So it gives us the opportunity to kind of prep folks for what they're going to get in a physical and why.*

(Urban physician assistant, FQHC)

*I would have to say we have not really done a good job of accommodating it...it's one of those, at the end of a visit, after the fact type of thing. ...I'm thinking maybe one of the better ways to facilitate it is to actually ask the patient at the check-in, "Do they have any forms that need to be completed?"*

(Urban physician; Large, hospital-based practice)

*Well, we've just had to change our policy so that the receptionist knew that when they called and said they had that form, it had to be scheduled as a physical. Yeah, that's really the big thing was just making sure they were scheduled appropriately and then billed appropriately. I mean it's supposed to be billed as a physical . . . To get that checkmark that "yes, you've done it," it's not going to register with [healthplan] that they've done it unless it comes in as a physical.*

(Urban physician; Small, private practice)

*It's a pretty long form. It would be nice to figure out a way to make it more simple and smaller.*

(Urban physician; Small, private practice)

*I think the nurses help do it before I get in the room. They'll like put some of the data in when they talk with the patient.*

(Rural physician; Small, private practice)

*Those sorts of things . . . a good primary care doctor would already have reviewed with the patient. So I feel it's kind of duplicate work and unnecessary clerical work for our staff . . . that it's already documented in the record, and I just don't think it changes behaviors.*

(Rural physician; Large, hospital-based practice)

*Well, all of the plans are doing the health risk assessment, which is great and we've been able to set up a process here so that. . . If they're patients that have been ours... we're able to do the health risk assessment here with their first visit. If it's a new patient, we do it at their second visit because we have some additional information that we can put into that to help set their goals. You know, having those tools to be able to help patients make . . . do goal-setting and move forward has been really helpful.*

(Urban physician, Free/low-cost clinic)

*A lot of times we get that as a fax where they've already pre-filled out their part [of the HRA] on either online or over the phone. You know, asking questions like, "So you actually do eat healthy?" "You do exercise." Sometimes they answer "no," and sometimes . . . Sometimes it's like, "Well, yeah, I do that. I walk a lot." Sometimes, it's "No, I just thought that's what they wanted to hear." You know, when they say . . . They checkmark on there, "I do want to quit smoking." And I'll say, "Well, would you like to try the patch?" They'll say, "No, not yet. I'm not ready just yet."*

(Urban physician; Small, private practice)

## 11.2. Impact of HRA Completion and Discussion

*Oh, we usually will talk about strategies to improve their health. Usually with obesity, addressing some of the factors that may be contributing to obesity, cholesterol issues and diabetes risk. Probably higher . . . equally as high on the totem pole, I guess, would be tobacco use. We talk a lot about cessation, and I refer a lot of people over to Michigan Quit line as a result of us kind of sitting down and specifically talking about those kinds of areas of interest on the HRA forms.*

(Urban physician assistant, FQHC)

*I think that it helps to focus what the patient wanted to work on with regard to their health issues, you know, and their risk factors.*

(Urban physician; Small, private practice)

*I'll tell you one patient for whom this was extremely helpful for me and hopefully for the patient, was a patient who I'd been taking care of for a long time, serious depression. We had been battling with the depression. I've known her for over twenty years. In the past, I knew she'd used marijuana, but she had stopped. The question that we had not talked about, and when my coordinator this on the front, it was about her marijuana use again. It was like, "Oh, you're using again," and it led us into that discussion, which we might not have had. She at least reportedly has stopped again so far, and her depression has improved, not controlled but better, and so that was a huge help. So sometimes it can clue us into things that we thought were addressed and done, but they're not.*

(Urban physician, Free/low-cost clinic)

*I think I do remember something at the end about something they were going to try to improve, but I've not seen anybody come back and have like some sort of... made some achievement or have I been asked to document that they made that change, do you know what I mean? I haven't seen that come back yet.*

(Urban physician; Small, private practice)

*Now what I have seen is that although I may bring that up on one visit and maybe I bring that up before I do the [HRA] questionnaire, over time they know because the next time they come back and they've had some goals that we've talked about and they got printed out and they were given to them, and then they come back and I can say, "How did these go?" Sometimes they say, "I didn't do any of them," and sometimes they say, "I did all of them."*

(Urban physician, FQHC)

*I haven't sensed that it's helped motivate them to be healthier. It's more a process that they have to go through.*

(Rural physician; Large, hospital-based practice)

*We've got weight management programs. We've got healthy eating classes every evening. We have a nutritionist that come in and hold "How to Grill Vegetables" classes. We do a lot of that stuff already, and so maybe because that's an option we already have available for patients that we've been running for a number of years... Maybe it's just kind of second nature to us and to our patients that these options are there. So...Does this help me in a discussion with the patient? I don't think so really whatsoever. Does it somehow tweak the patient that maybe they ought to get a flu shot this year? No. People either want it or they don't want it. Like I said, filling out a questionnaire is not going to help them decide that kind of stuff, I don't think.*

(Urban physician, Free/low-cost clinic)

*It seems to encourage not being passive about it. You know, that you are a partner in this.*

(Rural physician assistant, Rural health clinic)

*So when I get in and introduce myself and whatever the niceties are, then we usually start with that because that opens up the conversation and gets them talking about things... Because I have to reinforce what they're doing well already and the things where they need some improvement perhaps and then we get into the physical part of it.*

(Rural nurse practitioner, Rural health clinic)

*There are a few people who come in and say, "Well, I'm here because my insurance company told me I had to." They don't fully grasp it as being a part of health maintenance yet, but that will probably come with time.*

(Rural nurse practitioner, Rural health clinic)

*You know, there's still a long way to go in terms of people understanding their situation, but, you know, at least it's still . . . It's creating the conversation.*

(Urban physician, FQHC)

### 11.3 HMP Impact on Health Behaviors

*He got his first physical . . . He said it was the first one he had had in his life. He had never had a physical before. Also he started on the smoking cessation.*

(Rural nurse practitioner, Rural health clinic)

*The smoking cessation resources . . . Those are quite helpful. Also for the obese group, they haven't actually taken advantage of dietician services yet, but some of the diabetics have. So that's a resource that's helpful. Those are probably the two biggest ones. Smoking and diabetes are big in this area.*

(Rural nurse practitioner, Rural health clinic)

*Like I'll take advantage of community resources. For instance, the YMCA has a program to help patients who may be prediabetic or at significant risk for diabetes. So we'll initiate their participation in that program to help them additionally with behavioral and lifestyle changes for better health outcome and to minimize risk for, you know, diabetes and other chronic medical conditions . . . hypertension, and that type of thing.*

(Urban physician assistant, FQHC)

## 12. Cost Sharing

*I don't know anything about it because most of my patients . . . The ones that I'm seeing have no copays on the plans and they're mostly indigent.*

(Urban physician; Small, private practice)

*Well I actually don't pay attention to the copay part. I just like to know what insurance they have in case I need to do a referral or order medications or something. That's why I look at it, but I don't stand with them at their checking out at the end of their visit. So I wasn't sure if any of them had copays or not.... People have a hard time understanding copay versus deductible, and I guess I didn't realize that applied to anybody in our county on the Healthy Michigan plan.*

(Rural nurse practitioner, Rural health clinic)

*They could start making people pay something [for nonurgent ER visits] whether they have to pay \$5 or \$10 or \$20. I think the biggest problem with healthcare is people have these little plastic cards that allow them to go somewhere and it doesn't cost them.*

(Rural nurse practitioner, Rural health clinic)

*Well, the first thing that comes to mind is the same way we give them benefits . . . you know, give them financial incentives for being healthy. We should take some of it back away if they overuse the ER inappropriately.*

(Rural physician, FQHC)



*The only other thing I really see that's important on the negative side is . . . that six-month lapse between service and payment. The other question I know that we've had in this office is . . . Let's say the patient gets that bill at the end of six months and they don't pay it. What happens to these folks? Because that's gonna be important for our planning down the road. Are those folks going to go back to being uninsured because then we have to be able to plan in six months to a year to be taking on a load of uninsured patients again.*

(Urban physician, Free/low-cost clinic)

*There's that stupid list of a dozen or so diseases that when people have regular Medicaid, but Healthy Michigan plan that if this is the primary diagnosis, then they're exempt from the copay, and if it's not, then they've got to pay the \$2 copay. I mean that kind of stuff is a pain in the neck.*

(Urban physician, Free/low-cost clinic)

### **13. Financial Incentives**

*I know that people have come in and they have told me they're here because they want a reward, or their insurance told them they would be rewarded for doing . . . whatever it is. . . As far as if they do particular behaviors, they get particular rewards? I've never had a conversation with a patient about that aspect. So I feel like the only rewards I'm aware of is they showed up, they filled out their health risk [assessment], and they get some reward.*

(Urban physician, FQHC)

*I have heard some people comment that if they come in, they get a \$25 gift card to Wal-Mart or something like that. It didn't sound as though it was tied to anything other than coming in for their first visit.*

(Rural nurse practitioner, Rural health clinic)

*The only rewards program I know of is on [healthplan] and, you know, people bring their paperwork in and say, "Can you just basically sign this that I completed my mammogram this year so I can get a \$15 gift card?" Or, "If my diabetes is controlled, I get a \$20 gift card." Those are usually the ones that I see. I've got a couple of patients who every year, they're all over their [health plan] insurance. They know exactly what they have to do to get their gift cards, and they bring them in like clockwork, but not a whole lot of them do that. There's only a couple of people that I know of who routinely bring me in health rewards.*

(Urban physician; Small, private practice)

*They've never mentioned like, "Hey, I came in today because I know this is waived." They might know that it's a covered benefit and so they'll do it, but I would be unaware that it was because they had costs waived. But it's important for me to know because I can encourage them to come in then.*

(Urban physician; Large, hospital-based practice)

*I thought that it doesn't take effect for like a year, like to discount some premiums and that kind of stuff or discounts on co-insurance. That's just starting to take effect now. And most of ours qualify for the gift card because, again, their income is low enough that they don't have a lot of copays and stuff yet.*

(Urban physician, Free/low-cost clinic)

## 14. PCP Communication

### 14.1 PCP Communication with Health Plans

*All I know is that we got the communications and we got something telling us about . . . certain forms that we have to fill out for the . . . called the HRA forms. But I don't remember exactly, you know, the initial communications and how it was determined that we were going to get it.*

(Urban physician; Small, private practice)

*Like with [healthplan A and B], they have representatives who stop in periodically and actually do face-to-face questions and answers and verbally went over their programs.*

(Rural nurse practitioner, Rural health clinic)

*I got a couple of memos by mail. I didn't really pay that much attention to them..." until I started getting all these new patient requests.*

(Urban physician; Small, private practice)

*Well, it [i.e., communication with health plans] at least gave. . . a clear expectation of what those patients should receive upon initial evaluation and kind of help to explain what the goals were from the health care organizations in evaluating the patient's health status.*

(Urban physician; Small, private practice)

*The first we got was from a group called Free Clinics of Michigan, and then Michigan Primary Care Association ...and, since then, of course, you've spoken to the provider reps of the individual insurance plans and that kind of stuff.*

(Urban physician, Free/low-cost clinic)

### 14.2 PCP Communication with Patients

*We've got some people who qualify for that [i.e., Medicaid cell phone]. Cell phones can be a problem though because a lot of times, you know, people let them lapse, like especially if they have something like a Trac fone. All of a sudden the number is out of order. It's harder to get a hold of people because there are less land lines. If it's something where we need to get a hold of the person, we'll dictate letters and send them. But a lot of times they get returned. People move around.*

(Rural physician assistant, Rural health clinic)

*A lot of my patients have those [Medicaid cell phones]. The minutes are quite limited, and so they are sort of always out of minutes, it feels like. I had a guy yesterday. I said, "Okay, so we're gonna have to call you when these labs come back. What's the best way to reach you?" And he pulls out his phone. "Oh, just call my Obama phone." We call people who utilize these . . . the Obama phones on a daily basis.*

(Urban physician, FQHC)

*I know some people that are on their third phone number. ...That's one of our problems is people come in, they give us a phone number, and then a month or two later they'll call to make an appointment... And then when they go to do the courtesy call the day before to remind them, we don't have a good number. So when they do show up, we say "Okay, we need a better phone number for you," and they say, "Oh, yeah, I got a new Obama phone." Well, a lot of my patients go through phones faster than I go through shoes . . . No, I mean I'm sure it's [Medicaid cell phone] helped. I mean a lot of people wouldn't have access to a cell phone either way.*

(Urban physician; Small, private practice)

*The Obama phone is great. Yeah. People very . . . My understanding from those folks who have mentioned having it . . . That's enabled them to, for the most part, stay connected to the office and to, you know, maintain means by which to be contacted for information relating to medical care and whatnot.*

(Urban physician assistant, FQHC)

*As part of a medical home, we have a lot of services that we are trying to provide, by telephone services like titrating insulin and things like that, and the lack of available phone service has impacted. You know, many of the patients we cannot help are people that we cannot communicate with because. . . One week they have a phone; the next week they don't. I know I have had a few patients tell me that they have this [i.e., Medicaid cell phone] . . .*

(Urban physician; Large, hospital-based practice)

*Some [cell phones] are not really working, and some are....*

(Urban physician; Small, private practice)

*Here we have phone interpretation. Yeah, we have phone interpretation at the front desk. So if they call, you know, we schedule appointments and we can see them with phone interpretation, but if they're home and they need to call to make an appointment, that's when it gets challenging.*

(Urban physician; Large, hospital-based practice)

## **15. Provider Knowledge about HMP and Medicaid Expansion**

*I may have received some emails [about HMP]. You know, I'm sure I did. As far as the . . . I have a variety of routine emails that come from state agencies that keep physicians apprised of things.*

(Urban physician assistant, FQHC)

*Well, I think that when the governor was trying to get this to be approved in Michigan, he had to go around to all the hospital systems and get CEO's of different hospital systems to get on board and say, "We guarantee that we are going to help you to see these people," because there wouldn't be any point in having a new program if everybody declined to see the patients.*

(Urban physician; Small, private practice)

*Oh, I think it was back when the governor finally got the motion in Congress to get that rolling after working with the feds. They had published a list of the requirements for being on Medicaid, and that was online. So that's probably . . . I learned about the same time everybody else did.*

(Rural physician, FQHC)

*...frankly I didn't even really understand that Healthy Michigan was the Medicaid expansion (LAUGHTER) until you called and started talking about it that way because there used to be a plan called... I'm thinking there was something with a very similar name that phased out when Medicaid expansion went through. We used to have a community charity voucher or discount program.*

(Urban physician; Small, private practice)

*I was impressed that our governor bucked his own party to do it because, of course, I was very much aware of how many people were falling through the cracks who were definitely poor and were told that they didn't qualify for Medicaid, but worked at a crappy job that didn't offer insurance. So, I knew we had expanded Medicaid. I just didn't understand...how they were doing it.*

(Urban physician; Small, private practice)

*My recollection is I first became aware of it [i.e., the Healthy Michigan Plan] in the newspaper, but more so from a bulletin from the Michigan State Medical Society.*

(Rural physician; Large, hospital-based practice)

**Primary Care Practitioners' Views of the Impact of the Healthy Michigan Plan**

**Appendix C: Primary Care Practitioner Survey Instrument**

## Healthy Michigan Plan Evaluation: Perspectives of Primary Care Practitioners

Thank you for completing this survey about your views and experiences caring for patients enrolled in the Healthy Michigan Plan (the expansion of Medicaid in Michigan). We recognize the difficulty distinguishing Healthy Michigan Plan patients from others, especially other Medicaid managed care patients. Please do the best you can. *All individual responses will be kept confidential. Only aggregate responses will be reported.*

### Section 1: Practice, Patient, and Personal Characteristics

Please answer questions about your practice with your primary practice location in mind.

1. In what year did you complete clinical training? \_\_\_\_\_
  
2. Are you board certified?  No  Yes → 2a. If yes, in which specialties? \_\_\_\_\_
  
3. What is the zip code for your primary practice location? \_\_\_\_\_
  
4. Not including yourself, how many of the following practitioners are associated with you at this location?
  - a. Physicians: \_\_\_\_\_
  - b. Nurse practitioners: \_\_\_\_\_
  - c. Physician assistants: \_\_\_\_\_
  - d. Nurse midwives: \_\_\_\_\_
  
5. Has your practice made any of the following changes in the past year? (check all that apply)
  - Hired additional clinicians (physicians, nurse practitioners, physician assistants, nurses, medical assistants)
  - Hired additional office staff
  - Consulted with care coordinators, case managers, community health workers, or similar professionals
  - Changed workflow processes for new patients
  - Co-located mental health within primary care
  
6. Regarding ownership of your practice, are you a:
  - Full-owner
  - Partner/part-owner
  - Employee → 6a. If employee, what type of entity is your employer?
    - University or teaching hospital
    - Hospital
    - Other (specify): \_\_\_\_\_
  
7. What best describes the primary way you are paid for seeing patients?
  - Fee-for-service
  - Salary based
  - Capitation or patient enrollment-based
  - Other (specify): \_\_\_\_\_

8. In the past three years, have you provided care in a setting that serves poor and underserved patients with no anticipation of being paid?

Yes       No

9. What proportion of your established patients who request a same- or next-day appointment at your primary practice can get one?

Almost all (>80%)       Most (60-80%)       About half (~50%)       Some (20-40%)       Few (<20%)       Don't know

9a. Over the past year, this proportion has:

Increased       Decreased       Stayed the same       Don't know

10. Are you Hispanic or Latino?     Yes       No

11. What is your race? (check all that apply)

Black or African American       Asian  
 American Indian or Alaska Native       White (European, Middle Eastern, other)  
 Native Hawaiian or Pacific Islander       Other (specify): \_\_\_\_\_

12. Please estimate the proportion of patients you see who are: (these do not have to add up to 100%)

- a. African American or Black: \_\_\_\_\_%
- b. Hispanic or Latino: \_\_\_\_\_%
- c. Do not speak English well enough to give an adequate history: \_\_\_\_\_%

13. Please estimate the percent of your patients who have each of the following as their primary source of health insurance coverage: (total should add to 100%)

- a. Private insurance      \_\_\_\_\_ %
- b. Medicaid      \_\_\_\_\_ %
- c. Healthy Michigan Plan      \_\_\_\_\_ %
- d. Medicare      \_\_\_\_\_ %
- e. No insurance (i.e., self-pay)      \_\_\_\_\_ %

Total = 100%

14. Are you currently accepting new patients with...?

- a. Private insurance       Yes       No       Don't know
- b. Medicaid       Yes       No       Don't know
- c. Healthy Michigan Plan       Yes       No       Don't know
- d. Medicare       Yes       No       Don't know
- e. No insurance (i.e., self-pay)       Yes       No       Don't know

**Section 2: Experience with the Healthy Michigan Plan (HMP)**

These questions ask about your experiences caring for patients enrolled in the Healthy Michigan Plan (Medicaid expansion). For more information about the Healthy Michigan Plan, see the enclosed Fact Sheet.

**15. In general, how familiar are you with the Healthy Michigan Plan?**

- Very familiar       Somewhat familiar       A little familiar       Not at all familiar

**16. How familiar are you with the following:**

|  | Very familiar            | Somewhat familiar        | A little familiar        | Not at all familiar      |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Specialists available for Healthy Michigan Plan patients                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. How to complete a Health Risk Assessment                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Out-of-pocket expenses Healthy Michigan Plan patients have to pay           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. How to submit a Health Risk Assessment                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Healthy behavior incentives that Healthy Michigan Plan patients can receive | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Mental health services available for Healthy Michigan Plan patients         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Dental coverage in the Healthy Michigan Plan                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**17. To what extent has your practice experienced the following since the Healthy Michigan Plan began in April 2014?**

|  | To a great extent        | To some extent           | To a little extent       | Not at all               | Don't know               |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Increase in number of new patients  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Existing patients who had been uninsured or self-pay gained insurance                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Existing patients changed from other insurance to Healthy Michigan Plan                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Increase in the number of new patients who haven't seen a primary care practitioner in many years | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**18. How much influence do you have in making the decision to accept or not accept Medicaid or Healthy Michigan Plan patients in your practice?**

- The decision is entirely mine       I have some influence  
 I have a lot of influence       I have no influence



**19. Please indicate the importance of each of the following for your practice's decision to accept new Medicaid or Healthy Michigan Plan patients.**

|   | Very important           | Moderately important     | Not very important       | Not at all important     | Don't know               |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Reimbursement amount   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Capacity to accept new patients with any type of insurance                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Availability of specialists who see Medicaid or Healthy Michigan Plan patients | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Illness burden of Medicaid or Healthy Michigan Plan patients                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Psychosocial needs of Medicaid or Healthy Michigan Plan patients               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**20. How often do your Healthy Michigan Plan patients have difficulty accessing the following?**

|  | Often                    | Sometimes                | Rarely                   | Never                    | Don't know               |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Specialists                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Medications                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Mental health care                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Dental/oral health care                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Treatment for substance use disorder              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Counseling and support for health behavior change | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**21. How often do your privately insured patients have difficulty accessing the following?**

|  | Often                    | Sometimes                | Rarely                   | Never                    | Don't know               |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Specialists                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Medications                                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Mental health care                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Dental/oral health care                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Treatment for substance use disorder              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Counseling and support for health behavior change | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

The questions on this page ask about your experiences with Health Risk Assessments (HRAs).

22. Approximately how many Health Risk Assessments have you completed with Healthy Michigan Plan patients?

- None                       1-2                       3-10                       More than 10

23. How often do your Healthy Michigan Plan patients bring in their Health Risk Assessment to complete at their initial office visit?

- Almost always                       Often                       Sometimes                       Rarely/never

24. Please report your experience with the following:

|  | Yes                      | No                       | Don't know               |
|--|--------------------------|--------------------------|--------------------------|
| a. My practice has a process to identify Healthy Michigan Plan patients who need to complete an HRA.             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. I/my practice have been contacted by a Medicaid Health Plan about a patient who needs to complete an HRA.     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. My practice has a process to submit completed HRAs to the patient's Medicaid Health Plan.                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. I/my practice have received a financial bonus from a Medicaid Health Plan for helping patients complete HRAs. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

25. How much influence do the following have on completion and submission of the Health Risk Assessment?

|  | A great deal of influence | Some influence           | A little influence       | No influence             | Don't know               |
|--|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Financial incentives for patients             | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Patients' interest in addressing health risks | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Financial incentives for practices            | <input type="checkbox"/>  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

26. For Healthy Michigan Plan patients who have completed their Health Risk Assessment, how useful has this been for each of the following:

|   | Very useful              | Somewhat useful          | A little useful          | Not at all useful        |
|---|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Identifying health risks   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Discussing health risks with patients                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Persuading patients to address their most important health risks | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Documenting patient behavior change goals                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Getting patients to change health behaviors                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

The questions on this page ask about non-urgent emergency room (ER) use.

27. How much can primary care practitioners influence non-urgent ER use by their patients?

- A great deal                       Some                       A little                       Not at all

28. To what extent do you think it is your responsibility as a primary care practitioner to decrease non-urgent ER use?

- Major responsibility       Some responsibility       Minimal responsibility       No responsibility

29. Does your practice offer any of the following to help Healthy Michigan Plan patients avoid non-urgent ER use?

|  | Yes                      | No                       | Don't know               |
|--|--------------------------|--------------------------|--------------------------|
| a. Walk-in appointments.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Assistance with arranging transportation to appointments                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. 24-hour telephone triage  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Appointments during evenings and weekends                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Care coordination/social work assistance for patients with complex problems | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

30. In your opinion, to what extent do the following factors influence non-urgent ER use?

|   | Major influence          | Minor influence          | Little or no influence   |
|---|--------------------------|--------------------------|--------------------------|
| a. The ER will provide care without an appointment                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Patients believe the ER provides better quality of care          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. The ER offers quicker access to specialists                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Hospitals encourage use of the ER                                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. The ER offers access to medicines for patients with chronic pain | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. The ER is where patients are used to getting care                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

31. What, in your experience, could decrease non-urgent ER use by Healthy Michigan Plan patients?

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**32. Please think about what has changed for your patients who were previously uninsured and are now covered by the Healthy Michigan Plan. Rate the extent to which you think the Healthy Michigan Plan has had an impact on each of the following for these patients: (If you have no previously uninsured patients now covered by the Healthy Michigan Plan, choose “Don’t know” for all.)**

|  | <b>Great impact</b>      | <b>Some impact</b>       | <b>Little impact</b>     | <b>No impact</b>         | <b>Don’t know</b>        |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| a. Better control of chronic conditions    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Improved medication adherence           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Better ability to work or attend school | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Improved ability to live independently  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Improved health behaviors               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| f. Improved emotional wellbeing            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Early detection of serious illness      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**33. When was the most recent time, if ever, you discussed out-of-pocket medical costs with a Healthy Michigan Plan patient?**

- Yes     No    → *If no, SKIP to Question 36*

**34. Thinking of the most recent time you discussed out-of-pocket medical expenses with a Healthy Michigan Plan patient, who brought up the topic? (check one)**

- The patient  
 Me  
 Somebody else in the practice (e.g., clerical or nursing staff)  
 Other (specify): \_\_\_\_\_

**35. Thinking of the most recent time you discussed out-of-pocket medical expenses with a Healthy Michigan Plan patient, did the conversation result in a change in the management plan for the patient?**

- Yes                       No                       Don’t remember

**36. Given what you know about it, in general, do you support or oppose the continuation of the Healthy Michigan Plan?**

- Support                       Oppose                       Don’t know

**37. What changes would you suggest for the Healthy Michigan Plan?**

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**38. Please rate your agreement with each of the following statements.**

|   | <b>Strongly agree</b>    | <b>Agree</b>             | <b>Neither agree nor disagree</b> | <b>Disagree</b>          | <b>Strongly disagree</b> |
|---|--------------------------|--------------------------|-----------------------------------|--------------------------|--------------------------|
| a. All providers should care for some Medicaid/Healthy Michigan Plan patients.                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Caring for Medicaid/Healthy Michigan Plan patients enriches my clinical practice.          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Caring for Medicaid/Healthy Michigan Plan patients increases my professional satisfaction. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
| d. It is my responsibility to provide care for patients regardless of their ability to pay.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |

**39. In general, to what extent do you agree or disagree with the following statements:**

|   | <b>Strongly agree</b>    | <b>Agree</b>             | <b>Neither agree nor disagree</b> | <b>Disagree</b>          | <b>Strongly disagree</b> |
|---|--------------------------|--------------------------|-----------------------------------|--------------------------|--------------------------|
| a. I know what kind of insurance a patient has at the beginning of an encounter.                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
| b. I ignore a patient's insurance status on purpose so it doesn't affect my recommendations.                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
| c. If I need to know a patient's insurance status it is easy to find out.                                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |
| d. I only find out about a patient's insurance coverage if they have trouble getting something I recommend. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>          | <input type="checkbox"/> | <input type="checkbox"/> |

**40. Is there anything else you would like to tell us about the impact of the Healthy Michigan Plan on your patients or your practice?**

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**41. If you are you interested in receiving a special summary of survey findings, please provide your email address below. (Your email will be used only for the purpose of sending survey findings.)**

**Email address:** \_\_\_\_\_@\_\_\_\_\_

*Thank you for completing this survey. Please return the survey in the envelope provided.*