

CMS Quality Improvement Workshop Series

QI 101

Webinar 1: Getting Started

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Healthcare Quality

Agenda

- Welcome and Introductions
- Purpose and Learning Objectives
- Overview of the Workshop Curriculum
- Quality Improvement
- Introduction to the Model for Improvement
- Improvement Process
- A QI Case Study
- Question and Answer
- Preview of Next QI Webinar

Purpose and Learning Objectives

Purpose

- Enable state Medicaid programs to apply quality improvement (QI) to improve child and adult health care quality outcomes

Learning Objectives

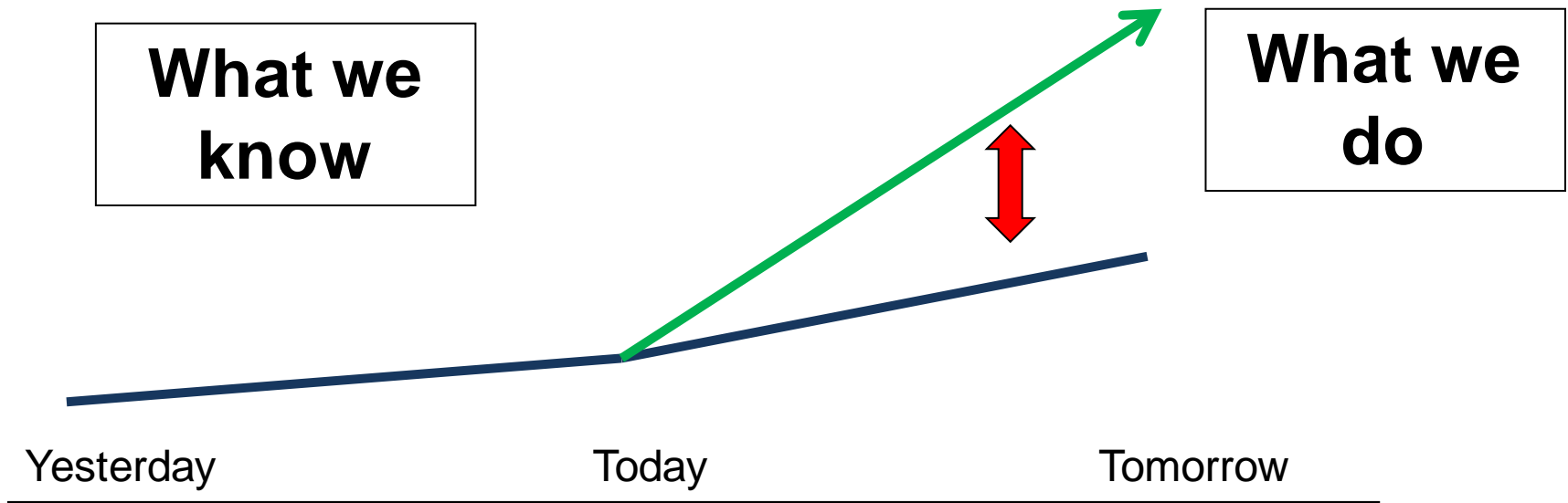
- Participants will learn the basic tasks to conduct a QI project
- Participants will learn the three questions in The Model for Improvement
- Participants will identify at least two considerations for how to pick a QI project in order to answer the first question in the Model for Improvement:
 - “What are we trying to accomplish?”

Overview of the Workshop Curriculum

- **QI 101: Establishing the QI Foundation**
 - Webinar 1: Getting Started – provides a broad overview of QI fundamentals and introduction to “The Model for Improvement”
 - Webinar 2: The QI Framework – provides a structured approach for planning and monitoring the impact of QI efforts
 - Webinar 3: Preparing for and Implementing Change
- **QI 201: Application of the QI Methods**
 - A series of three webinars with hands-on practice
 - Enables states to undertake a QI project with support

Quality Improvement

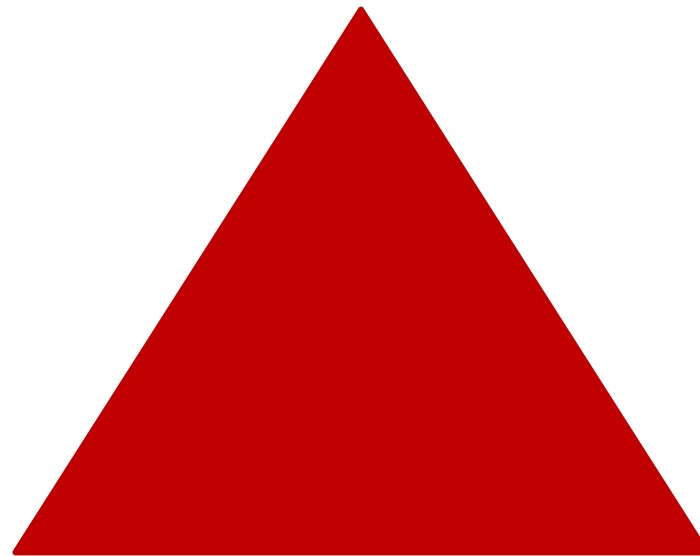
Quality Improvement & The Know-Do Gap



Medicaid/CHIP
Health Care Quality Measures

Going From 'What We Know' to 'What We Do'

Leading,
Building Will



Ideas for
Systems
Improvement
Driver Diagram

Executing and
Spreading
Change
Strategies, Testing and
Measurement

Medicaid/CHIP
Health Care Quality Measures

The Model for Improvement



Source: *Associates in Process Improvement*

Medicaid/CHIP
Health Care Quality Measures

The Improvement Process

PLAN

- Task 1: Identify a QI Project
- Task 2: Engage Stakeholders
- Task 3: Organize the Effort
- Task 4: Create the Aim, Measures, and Changes

DO

- Task 5: Start Your Project

STUDY

- Task 6: Assess Outcomes

ACT

- Task 7: Develop Response Based on QI Outcomes

Identify a QI Project

- What does data tell you?
- How do you compare to others?
- What is the gap between what is possible and where you are?
How are you performing now?
- Are there glaring health disparities?
- Is this a reasonable place to save money and improve outcomes?
- Other concerns:
 - How interested or engaged are your public constituents? Your key partners?
 - How aligned is this improvement project with the strategic priorities of your agency, the governor, or the secretary? If not, how might you make the case for improvement?

Useful Data in Selecting a QI Project

- Medicaid and CHIP program expenditure data (top diagnosis, utilization, cost drivers)
- Child and Adult Core Set measures (past performance)
- Claims/encounter data, health record reviews
- Pharmacy data analysis
- Referral patterns and supply driven demand

PLAN: Task 1

Secretary's Annual Report on the Quality of Care for Children in Medicaid and CHIP

Appendix Table E.1 (continued)

	Number of Measures Reported by State*	Prenatal and Postpartum Care: Timeliness of Prenatal Care (#1)	Frequency of Ongoing Prenatal Care (#2)	Percentage of Live Births Weighing Less than 2,500 Grams (#3)	Cesarean Rate for Nulliparous Singleton Vertex (Low-Risk First Birth Women) (#4)	Childhood Immunization Status (#5)	Immunizations for Adolescents (#6)	Body Mass Index Assessment for Children and Adolescents (#7)	Developmental Screening in the First Three Years of Life (#8)	Chlamydia Screening (#9)	Well-Child Visits in the First 15 Months of Life (#10)	Well Child Visits in the 3rd, 4th, 5th, and 6th Years of Life (#11)	Adolescent Well-Care Visits (#12)	Percentage of Eligibles who Received Preventive Dental Services (#13)	Child and Adolescent Access to Primary Care Practitioners (#14)	Appropriate Testing for Children with Pharyngitis (#15)	Orbits Media with Effusion – Avoidance of Inappropriate Use of Systemic Antimicrobials in Children – Ages 2-12 (#16)	Percentage of Eligibles who Received Dental Treatment Services (#17)	Ambulatory Care: Emergency Department Visits (#18)	Pediatric Central-Line Associated Blood Stream Infections – NICU and PICU (#19)	Annual Percentage of Asthma Patients (2-20 years old) with 1 or More Asthma-Related Emergency Room Visits (#20)	Follow-Up Care for Children Prescribed Attention-Deficit/Hyperactivity Disorder (ADHD) Medication (#21)	Annual Pediatric Hemoglobin A1C Testing (#22)	Follow-Up After Hospitalization for Mental Illness (#23)
Vermont	7			X							X	X	X	X	X				X					
Virginia	11	X		X		X					X	X	X	X	X				X					
Washington	8					X					X	X	X	X	X				X					X
West Virginia	16	X				X	X	X			X	X	X	X	X				X	X		X	X	X
Wisconsin	0																							
Wyoming	14					X	X	X		X	X	X	X	X	X	X	X	X	X				X	

What measures is your state reporting?

Appendix Table E.4. Percentage of Children Receiving Well-Child Visits in the 3rd, 4th, 5th, and 6th Years of Life, as Reported by States in Their FFY 2011 CARTS Reports (n=47)

State	Methodology	Date Range	Population		CHIP Program Type	Sample Size	Data Source		Percentage of Children Receiving 1+ Well-Child Visits in the 3rd, 4th, 5th, and 6th years of Life
			Medicaid	CHIP			Administrative	Hybrid	
Alabama	HEDIS 2011	Jan-10 - Dec-10		X	Separate	7,343	X		44.9
Alaska	HEDIS 2010	Jan-10 - Dec-10	X	X	Medicaid Expansion	12,438	X		47.6
Arizona	HEDIS 2011	Oct-09 - Sep-10		X	Separate	3,603	X		75.9
Arkansas	HEDIS 2010	Oct-09 - Sep-10	X	X	Combination	88,106	X		62.5
California	HEDIS 2011	Jan-10 - Dec-10		X	Combination	115,975	X	X	74.0

Where does your state fall?

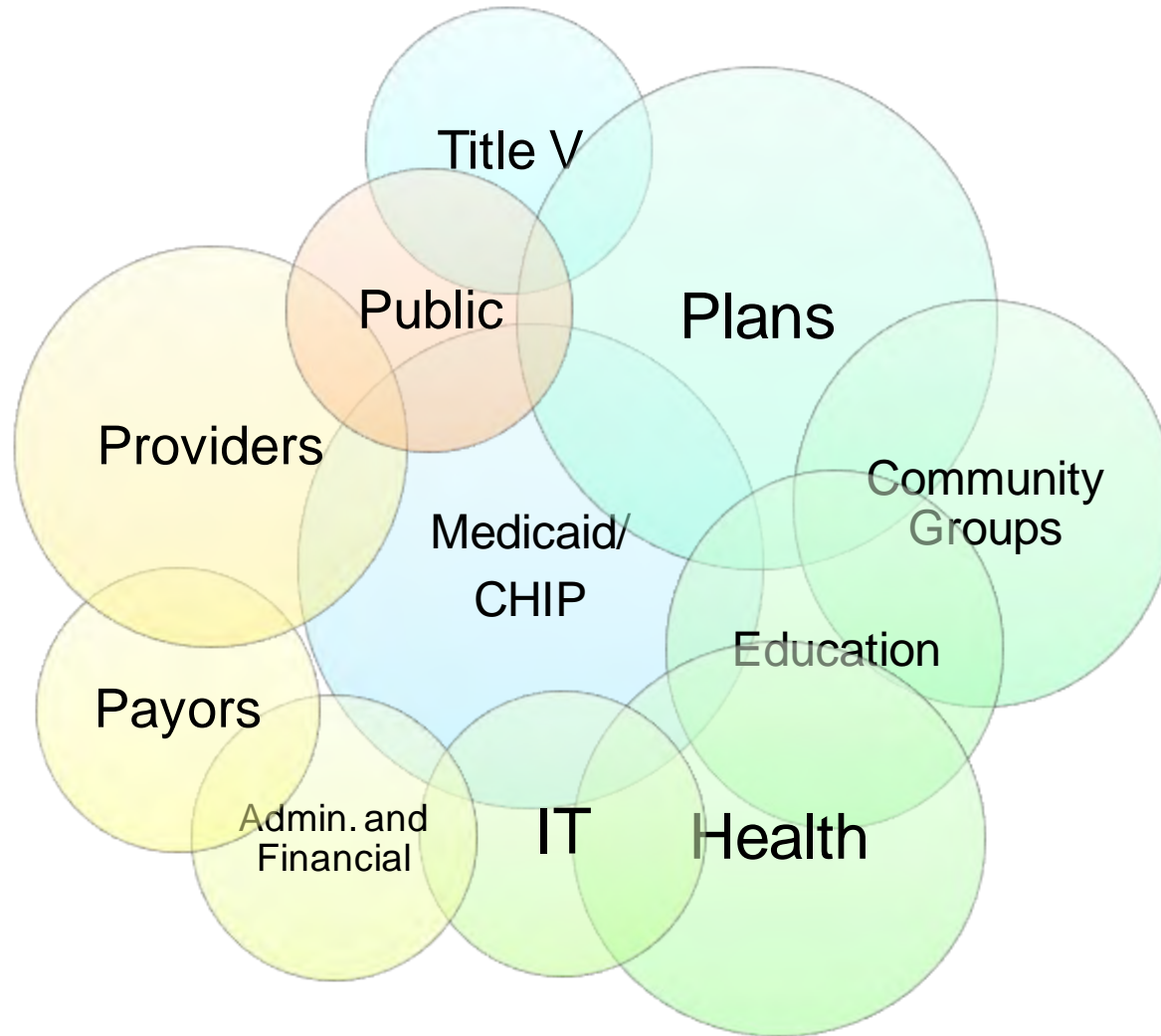
Engage Stakeholders

- Stakeholders help build and maintain will for improvement
- Stakeholders help with executing a QI project
- Various ways and levels at which to continually engage stakeholders
 - Town hall meetings
 - Task forces
 - Advisory committees

Identify Key Stakeholders Using Systems Thinking

- Identify who influences the desired outcomes and bring them into the room
 - Who does the state depend on to make this improvement? (e.g., payers, providers, hospitals)
 - Who depends on the state to make this improvement? (e.g., constituents, Secretary, Governor)

Potential Stakeholders



Medicaid/CHIP
Health Care Quality Measures

Organize the Effort: QI Project Team Composition

- State-led QI project teams should include representation from:
 - Lead agency
 - Partner agencies/other payers serving the population
 - Key providers/entities serving the population
- Teams may also include representation from:
 - Clinician community
 - Families
 - Patients
 - Community-based organizations

Create the Aim, Measures, and Changes

- Set data-driven aim and goals
- Answer the 3 Questions in the Model for Improvement:
 - Aim: What are we trying to accomplish?
 - Measure: How will we know that a change is an improvement?
 - Changes: What change can we make that will result in an improvement?

Aim:

- We are organizing 20 clinics in the metro area and 20 rural clinics, along with their hospital partners, to reduce obstetrical inductions for women prior to 39 weeks by 50 percent or more. We will accomplish this by February 14, 2014

Measures:

- Outcome measures: Rate of inductions prior to 39 weeks without medical indication
- Process measures: Bundle compliance rates for elective and augmentation inductions
- Balancing measures: Family/staff satisfaction

Changes:

- Elective induction bundle, augmentation bundle, instrument delivery bundle

Aim:

By February 2014, reduce early inductions prior to 39 weeks by 80 percent or more by adoption of related Medicaid policies and programs, aligning payment, and regulation (revising conditions of participation to include key changes).

Measures:

Outcome: Percent of births induced without indication prior to 39 weeks

Process: Proportion of births in state with hard stop policies

Balancing: Family/staff satisfaction

Changes:

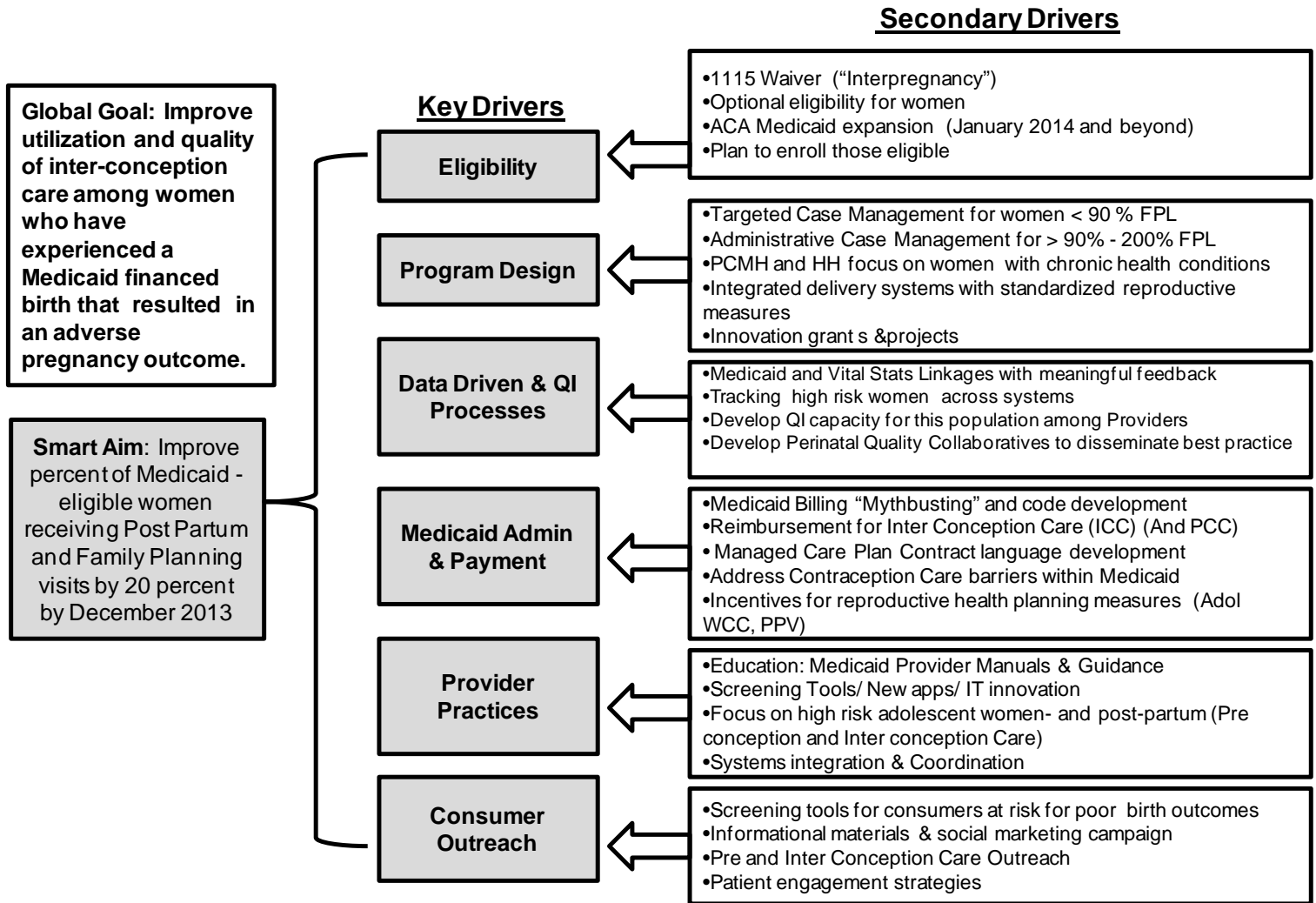
New policies, pay-for-performance

Questions?

Develop Change Ideas Integrated with Driver Diagram

- Data from Secretary's report - what states have outstanding performance and how did they achieve this?
- Literature
- Experts
- People on front line with experience and knowledge of processes
- Innovators who have achieved exceptional results

Key Driver Diagram



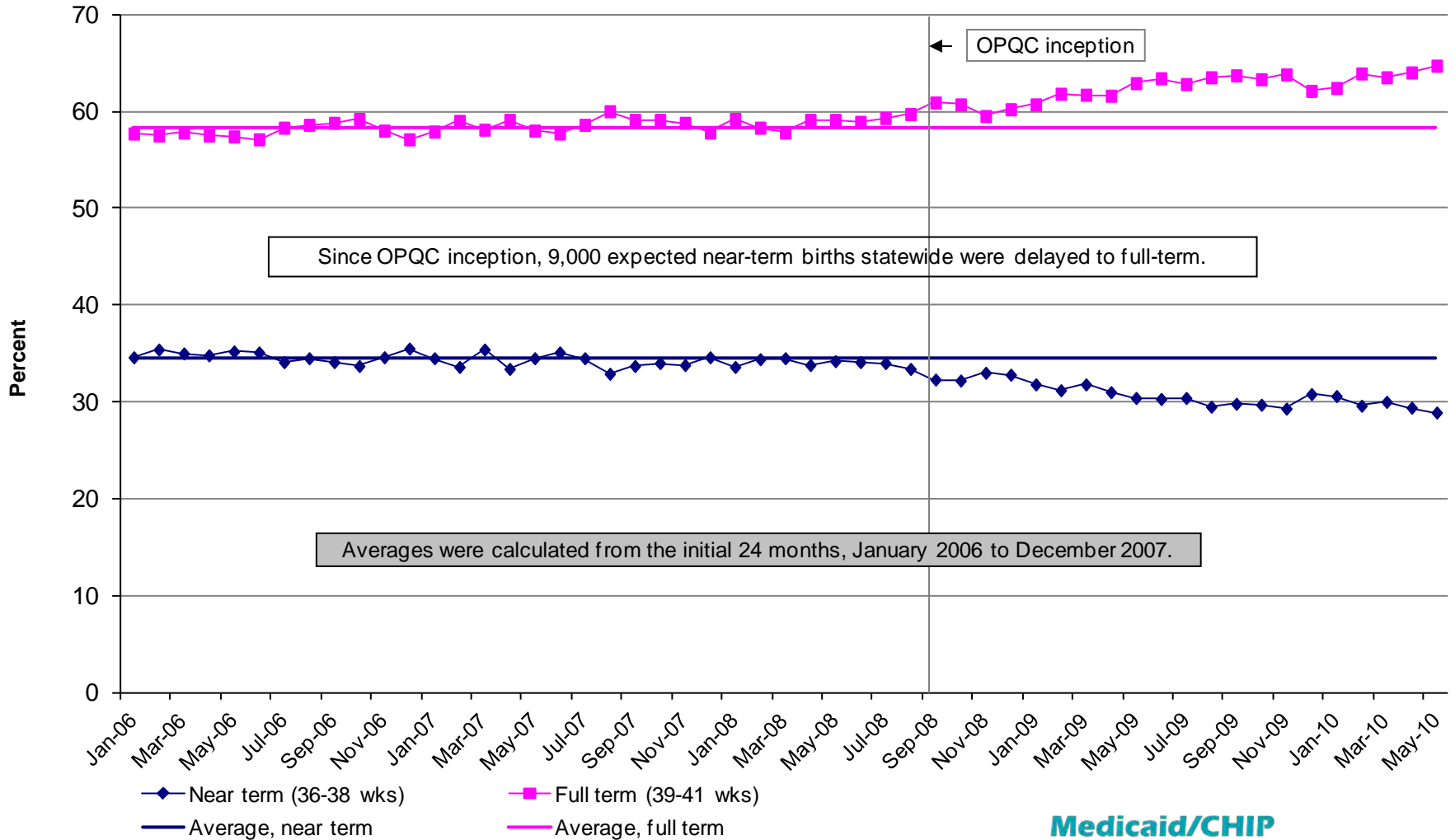
Start Your Project

- Launch your team
- Manage the process
- Conduct PDSAs
- Collect and review data
- Monitor changes

- Review documented improvement efforts
- Do the data exceed or fall short of the aim?
- Were the desired outcomes achieved?
 - For example:
 - Reduced inductions between 36 and 38 weeks
 - Reduced neonatal days
 - Decreased cost of care

Data for Assessment

Percent distribution of Ohio* full term and near term births, by month
January 2006 to May 2010



*Data from Ohio Perinatal Quality Collaborative, CMS Neonatal Outcomes Improvement Project

Develop Response Based on QI Outcomes

- Are the results generalizable to other settings, populations, locales?
- Do adaptations need to be made to ensure similar effectiveness in other settings?
 - For other populations?
 - In other locales?
- How will the QI project move from the improvement teams to all possible sites where improvement is needed?
- What additional resources might other sites need?
- What policy and payment changes can be implemented?

If Desired Outcomes NOT Achieved: Analysis of Barriers and Next Steps

- What were the barriers to success?
- Were the barriers within or outside of the implementation team's control?
- How might the strategy be modified to achieve desired outcomes?
- What recommendations could be made for moving forward?

A QI Case Study

- Aims
- Organization
- Changes
- Results

Question 1 in Model for Improvement: What are we trying to accomplish?

Aim should be “S-M-A-R-T”

Specific

Measureable

Attainable

Relevant

Time bound

Aim

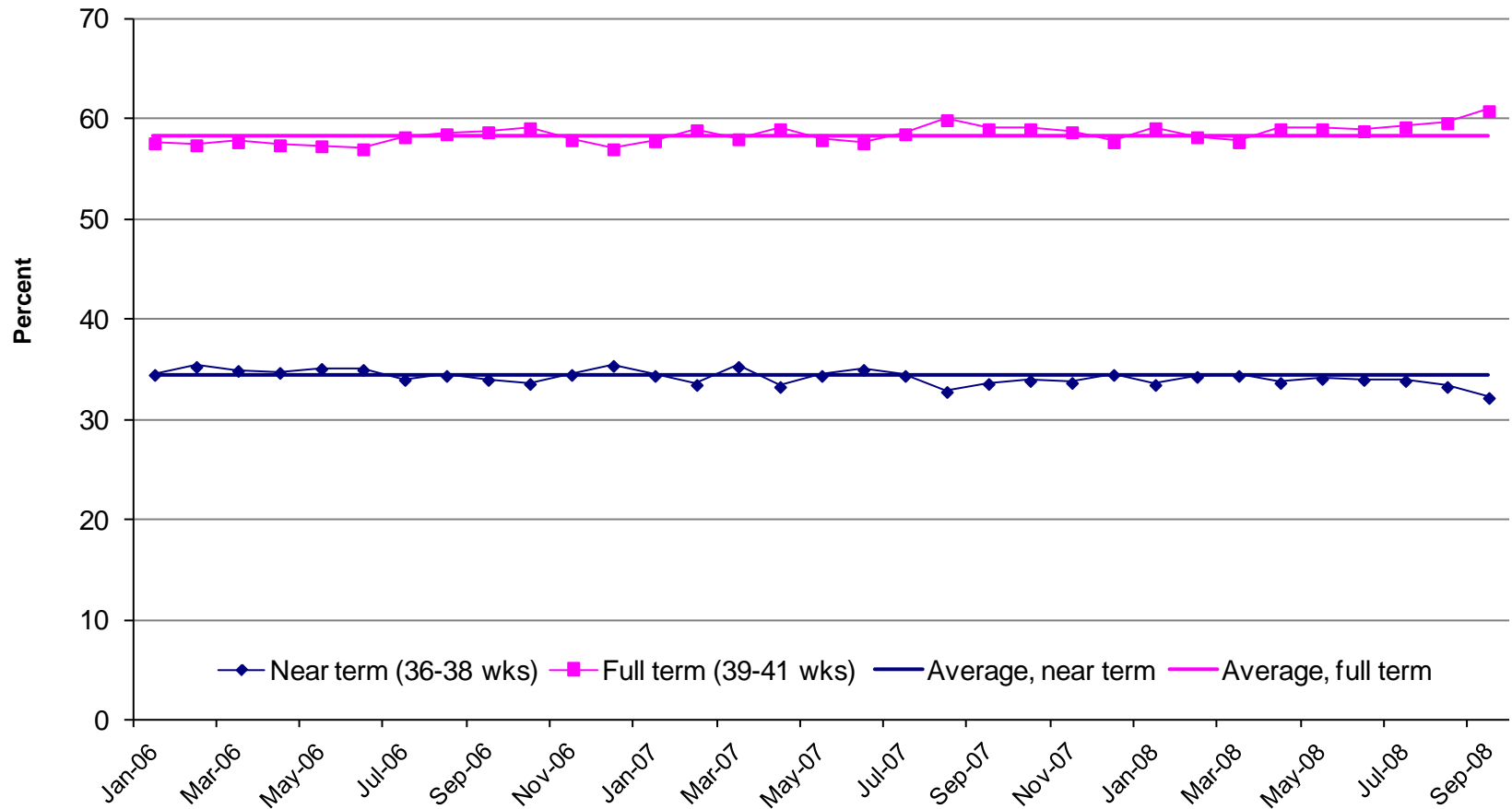
In one year, reduce by 60% the number of women in Ohio of 36.1 to 38.6 weeks gestation for whom initiation of labor or caesarean section is done in absence of appropriate medical or obstetric indication (scheduled delivery)

To accomplish results who are the stakeholders?

- In order to reduce inductions between 36 and 38 weeks, who would the state need to include?
 - Medicaid plans and payers
 - Providers
 - Hospitals (obstetric and neonatal units)
 - Community partner
- Who has a shared interest in improved outcomes?
 - Women who are constituents
 - WIC
 - Title V
 - Medical societies and associations
 - Others?

Question 2: How Will We Know a Change is an Improvement? Baseline Data

Percent distribution of Ohio full term and near term births, by month
January 2006 to September 2008 (pre-OPQC)

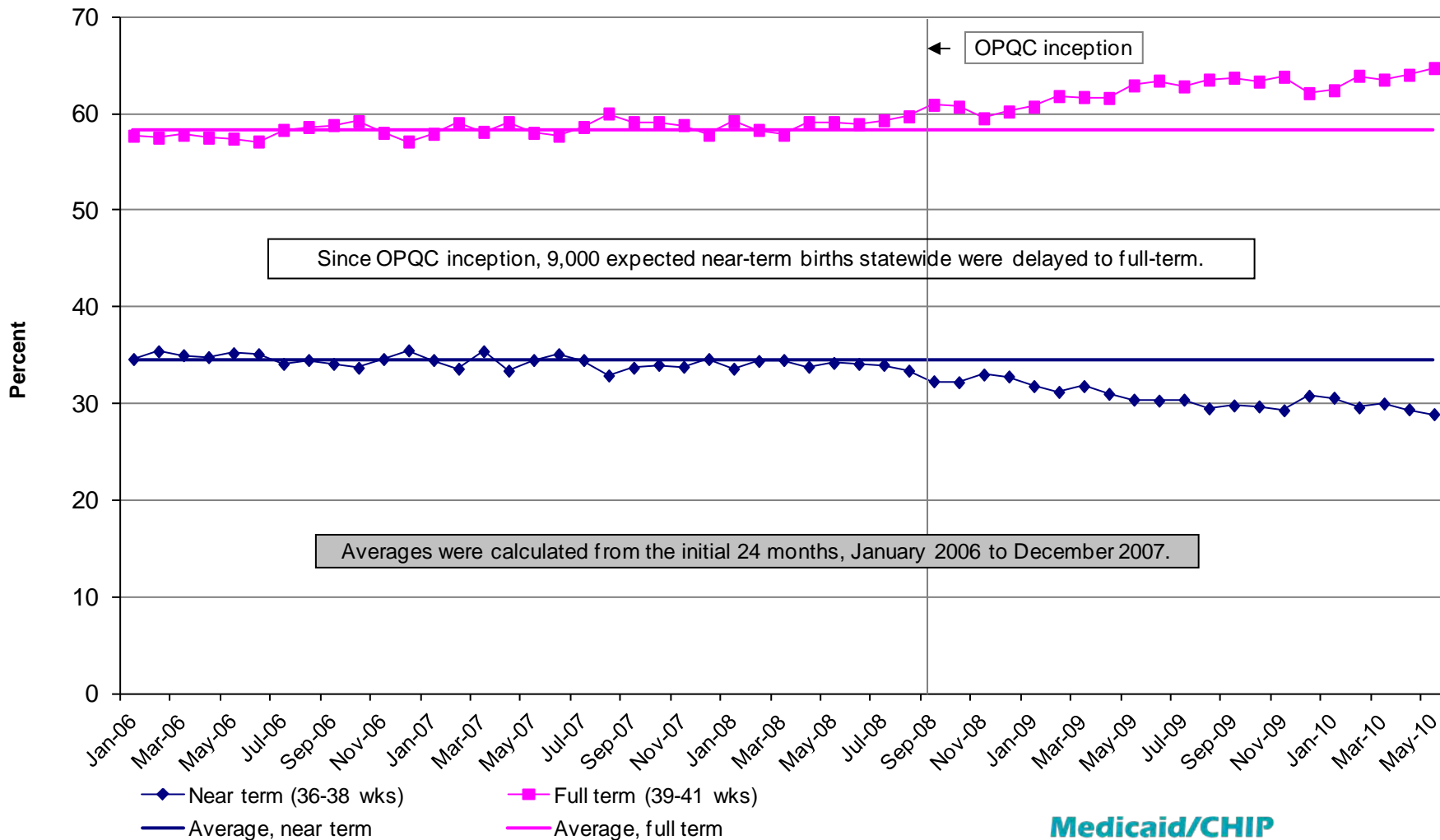


*Data from Ohio Perinatal Quality Collaborative, CMS Neonatal Outcomes Improvement Project

Question 2: How will we know a change is an improvement?

Results

Percent distribution of Ohio* full term and near term births, by month
January 2006 to May 2010



*Data from Ohio Perinatal Quality Collaborative, CMS Neonatal Outcomes Improvement Project

Example: Ohio Driver Diagram

Goal: *Assure that all initiation of labor or caesarean sections on women who are not in labor occur only when obstetrically or medically indicated*

Primary Drivers

Awareness of risks & expected benefit of near-term delivery by patients and consumers

Dating criteria: optimal estimation of gestational age

Hospital and physician practice policies that facilitate ACOG criteria

Awareness of risks & expected benefit of near-term delivery by clinician

Culture of safety and improvement

Project Aim: *In one year, reduce by 60%, the number of women in Ohio of 36.1 to 38.6 weeks gestation for whom initiation of labor or caesarean section is done in absence of appropriate medical or obstetric indication (Scheduled delivery)*

Secondary Drivers

Inform consumers of risk/benefits of deliveries < 39 weeks
Communicate to patient/clinic/hospital ultrasound results
Promote need for early dating to practitioners and consumers
Public awareness campaign

Promote need for early dating to practitioners and consumers
Promote sonography < 20 weeks to establish dates
Document criteria used to establish EDC
Appropriate use of fetal maturity testing
Empower nurses /schedulers to require dating criteria
Identify a specific contact for authorization dispute re: dating
Provide patient with hard copy results of ultrasound

Empower nurses /schedulers to require dating criteria
Document rationale and risk/benefit for scheduled deliveries at 36.1 to 38.6 weeks gestation
Document discussion with patient about the above
Both patient and MD sign consent statement for scheduled delivery between 36.1 and 38.6 weeks
Physician awareness campaign: what are the reason(s) for scheduled delivery?
Maximize access to Delivery and OR for optimal scheduling
Facilitate scheduling policies that respect ACOG criteria

Prenatal caregivers receive feedback from postnatal caregivers about neonatal outcomes of scheduled deliveries
Ensure complete and accurate handoffs Ob/OB and Ob/Peds
Document discussion with patient about risk/benefits of near-term delivery
Promote need for early dating to practitioners and consumers

Continuous monitoring of data & discussion of this effort in staff/division meetings.
Project outcomes posted on units and websites.
Develop ways to include staff and physician input about communications and handoffs
Connect with organizational initiatives on safety and use existing approaches as possible
Empower nurses /schedulers to require dating criteria



Medicaid/CHIP

Health Care Quality Measures

Question 3: What changes can we make to bring about improvement?

- Use a driver diagram to organize theory and ideas for improvement:
 - Primary Drivers: Major processes, operating rules, or structures that will contribute to moving toward the aim
 - Secondary Drivers: Elements or portions of the primary drivers. The secondary drivers are system components necessary in order to impact primary drivers, and thus reach project aim
 - Specific Changes: Concrete actionable ideas to take to testing
- Measures can be indicated on the driver diagram as it becomes more mature

Recap of Learning Objectives

- Participants will learn the basic tasks to conduct a QI project
- Participants will learn the three questions in The Model for Improvement
- Participants will identify at least two considerations for how to pick a QI project in order to answer the first question in the Model for Improvement:
 - “What are we trying to accomplish?”

Additional Resources

- 2012 Secretary's Report:

<http://www.medicaid.gov/Medicaid-CHIP-Program-Information/By-Topics/Quality-of-Care/Downloads/2012-Ann-Sec-Rept.pdf>

Model for Improvement:

http://www.apiweb.org/API_home_page.htm

- Ohio Perinatal Quality Collaborative: <https://opqc.net/>
- Perinatal Quality Collaborative of North Carolina: <http://www.pqcnc.org/>
- Neonatal Outcomes Improvement Project – Nine Interventions: http://www.nichq.org/expert_services/sample_projects/neonatal_outcomes_improvement/nine_interventions.html

Questions?

Jointly sponsored by Tufts University School of Medicine and National Initiative for Children's Healthcare Quality

Accreditation

Physicians

- This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Tufts University School of Medicine (TUSM) and National Initiative for Children's Healthcare Quality. TUSM is accredited by the ACCME to provide continuing medical education for physicians.
- TUSM designates this enduring material for a maximum of .75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses

- Tufts University School of Medicine Office of Continuing Education is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's COA.
- This activity provides .75 Contact Hours for nurses.

Requirements for Successful Completion

- To receive CE credit, participants must register, view the content and complete the evaluation. Certificates will be available electronically 6-8 weeks after successful completion of the activity.

Disclosure of Relevant Financial Relationships with Commercial Interests

- All faculty course directors, planning committee members and others in a position to control the content of an educational activity are required to disclose to the audience any relevant financial relationships with commercial interests. Conflicts of interest resulting from a relevant financial relationship are resolved prior to the activity during the content review. No relevant financial relationships are held by any of the planners, presenters, or TUSM OCE staff.

Continuing Education

- Continuing education (CE) is provided jointly through Tufts University School of Medicine Office of Continuing Education and the National Initiative for Children's Healthcare Quality
- CE credit available for this three-part webinar series includes:
 - .75 AMA PRA Category 1 Credits™
 - .75 Contact Hours for nurses
 - Certificate of participation
- Attendance at all three webinars is required to receive full credit
 - Sign in for Webinar 1: <http://www.cvent.com/d/bcqfh9>
- Certificates will be available electronically 6 – 8 weeks after successful completion of webinar 3

Next Webinar in the QI Workshop Series

- QI 101, Webinar 2: Continuing the Quality Framework Discussion
- When: April 5, 2013 at 2:00pm ET
- Purpose:
 - Build upon content in today's session
 - Orient states to a structured QI approach for planning and monitoring the impact of their QI efforts

****REMINDER:** Please complete Online Session Evaluation and Expression of Interest for the QI 201 Series

Thank You for Participating in Today's Webinar!

Please complete the evaluation as you exit the webinar.

Appendix

- Defining QI
- Roles and Responsibilities for QI Project
- Core Set of Children's Health Care Quality Measures
- Core Set of Health Care Quality Measures for Adults Enrolled in Medicaid

Defining Quality Improvement

What is Quality of Care?

“The degree to which health services for individuals and populations increase the likelihood of desired health outcomes and are consistent with current professional knowledge.”

— Institute of Medicine, 1990

Six Aims for Improvement

Safe — Avoid injuries to patients from the care that is intended to help them. Safety must be at the forefront of patient care.

Effective — Match care to science; avoid overuse of ineffective care and underuse of effective care.

Patient-Centered — Honor the individual and respect choice. Each patient's culture, social context and specific needs deserve respect, and the patient should play an active role in making decisions about her own care.

Timely — Reduce waiting for both patients and those who give care. Prompt attention benefits both the patient and the caregiver.

Efficient — Reduce waste. The health care system should constantly seek to reduce the waste and the cost of supplies, equipment, space, capital, ideas, time and opportunities.

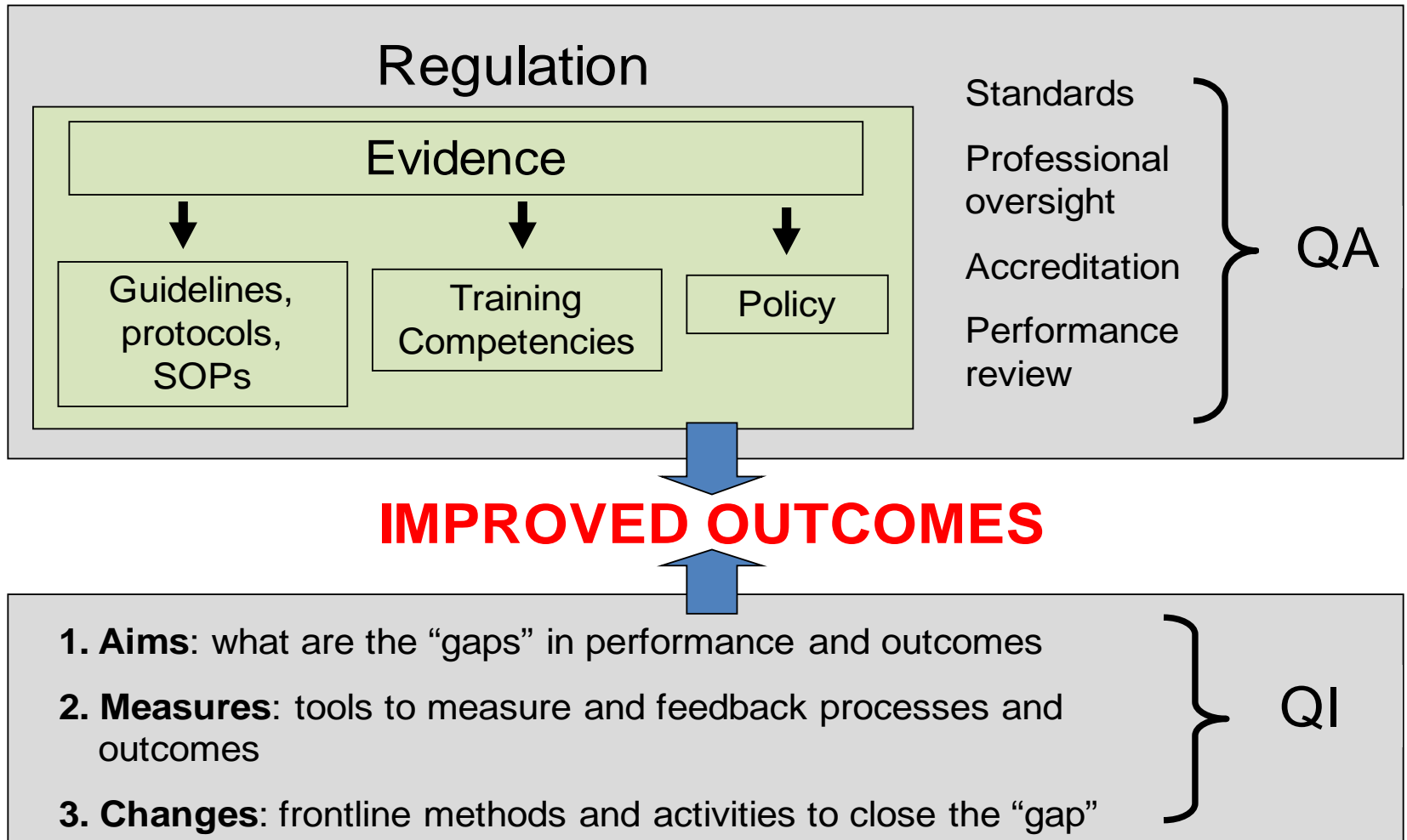
Equitable — Close racial and ethnic gaps in health status. Race, ethnicity, gender and income should not prevent anyone from receiving high-quality care.

Source: Crossing the Quality Chasm: a New Health System for the 21st Century, IOM, 2001.

Quality Assurance and Quality Improvement

- Quality Assurance – Purpose is to assess when we have achieved the intended quality of service or product
- Quality Improvement – Purpose is to move the system from current state of performance to a new state of performance

QA and QI are complementary



Roles and Responsibilities for QI Project

- Oversight team based in lead agency
 - Establishes the charge
- Implementation leader
 - Responsible for the overall QI project
- Implementation teams
 - Informs planning and execution of the QI project
- Topical experts
 - Identifies evidence-based changes and helps to determine feasibility
- Improvement teams
 - Deploys the improvement efforts in the field
- Analytic support
 - Collects and reports on data
- QI experts, as needed

2013 Core Set of Children's Health Care Quality Measures

Prevention and Health Promotion
Timeliness of Prenatal Care
Frequency of Ongoing Prenatal Care
Behavioral Health Risk Assessment (for Pregnant Women) – NEW IN 2013
Percentage of Live Births Weighing less than 2,500 Grams
Cesarean Rate for Nulliparous Singleton Vertex
Childhood Immunization Status
Adolescent Immunization Status
Human Papillomavirus (HPV) Vaccine for Female Adolescents – NEW IN 2013
Weight Assessment and Counseling for Nutrition and Physical Activity for Children/Adolescents: Body Mass Index Assessment
Developmental Screening in the First Three Years of Life
Chlamydia Screening in Women
Well-Child Visits in First 15 Months of Life
Well-Child Visits in the 3 rd , 4 th , 5 th , and 6 th Years of Life
Adolescent Well-Care Visit
Percentage of Eligibles Who Received Preventive Dental Services
Availability
Child and Adolescent Access to Primary Care Practitioners
Management of Acute Conditions
Appropriate Testing for Children with Pharyngitis
Percentage of Eligibles who Received Dental Treatment Services
Ambulatory Care: Emergency Department Visits
Pediatric Central-line Associated Bloodstream Infections – Neonatal Intensive Care Unit and Pediatric Intensive Care Unit
Management of Chronic Conditions
Annual Percentage of Asthma Patients with One or More Asthma-related Emergency Room Visits
Medication Management for People with Asthma – NEW IN 2013
Follow-Up Care for Children Prescribed Attention Deficit-Hyperactivity Disorder (ADHD) Medication
Annual Pediatric Hemoglobin A1C Testing
Follow-up After Hospitalization for Mental Illness
Family Experiences of Care
Consumer Assessment of Healthcare Providers and Systems 5.0H (child version including children with chronic conditions supplemental items)

Initial Core Set of Health Care Quality Measures for Adults Enrolled in Medicaid

Prevention and Health Promotion
Flu Shots for Adults Ages 50-64
Adult BMI Assessment
Breast Cancer Screening
Cervical Cancer Screening
Medical Assistance With Smoking and Tobacco Use Cessation
Screening for Clinical Depression and Follow-Up Plan
Plan All-Cause Readmission
Diabetes, Short-term Complications Admission Rate
Chronic Obstructive Pulmonary Disease (COPD) Admission Rate
Congestive Heart Failure Admission Rate
Adult Asthma Admission Rate
Chlamydia Screening in Women age 21-24
Availability
Initiation and Engagement of Alcohol and Other Drug Dependence Treatment
Prenatal and Postpartum Care: Postpartum Care Rate
Management of Acute Conditions
Follow-Up After Hospitalization for Mental Illness
Elective Delivery
Antenatal Steroids
Management of Chronic Conditions
Annual HIV/AIDS Medical Visit
Controlling High Blood Pressure
Comprehensive Diabetes Care: LDL-C Screening
Comprehensive Diabetes Care: Hemoglobin A1c Testing
Antidepressant Medication Management
Adherence to Antipsychotics for Individuals with Schizophrenia
Annual Monitoring for Patients on Persistent Medications
Family Experiences of Care
CAHPS Health Plan Survey – Adult Questionnaire <i>with</i> CAHPS Health Plan Survey v. 5.0H
Care Coordination
Care Transition – Transition Record Transmitted to Health care Professional