

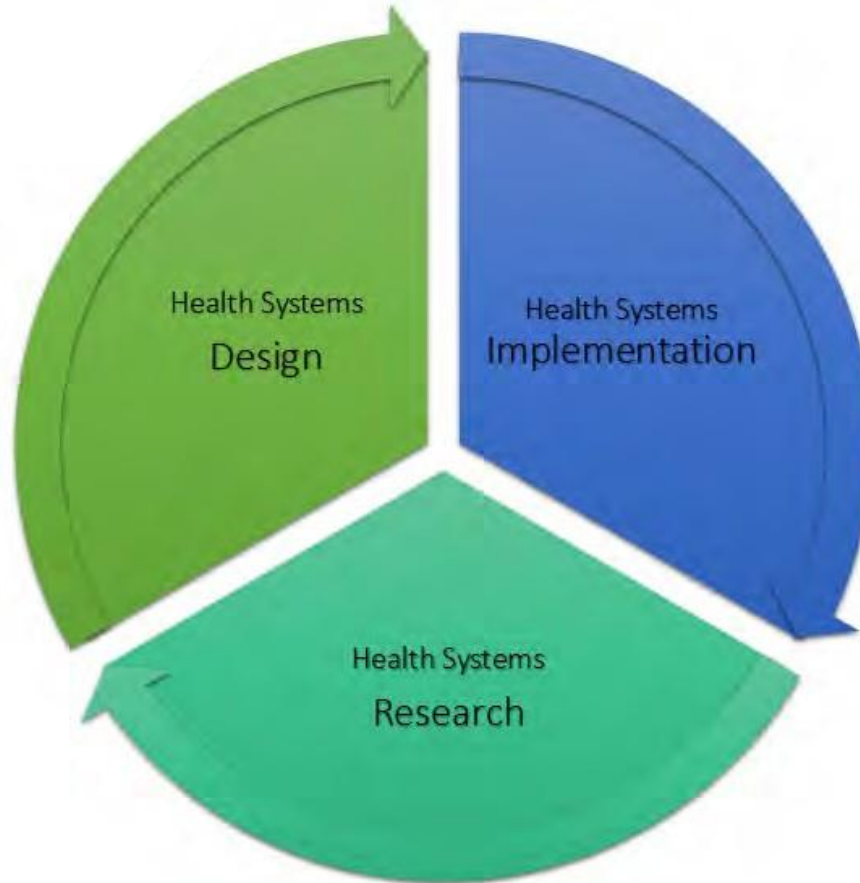
Measurement

Vermont Blueprint for Health

House Committee on Healthcare

February 12, 2016

Transformation Process



Measures

- **Measure Selection Strategy** – Measuring priority outcomes, and drivers of those outcomes, are both important. Need to know if priority outcomes are improving and which strategies are driving the change. Different measures may be most important at different levels within a system or organization. Establishes a measurement framework that can be used for scale, spread, and ongoing improvement in a learning system
- **Outcome Measures** – Select a set of meaningful and evidence based measures that reflect priorities for the health system
- **Driver Measures** – Select key process and quality measures where there is evidence that they drive priority outcomes
- **Measure Review** – Routinely review and refine measure sets based on evidence, priorities, and utility to drive improvement.

Measurement

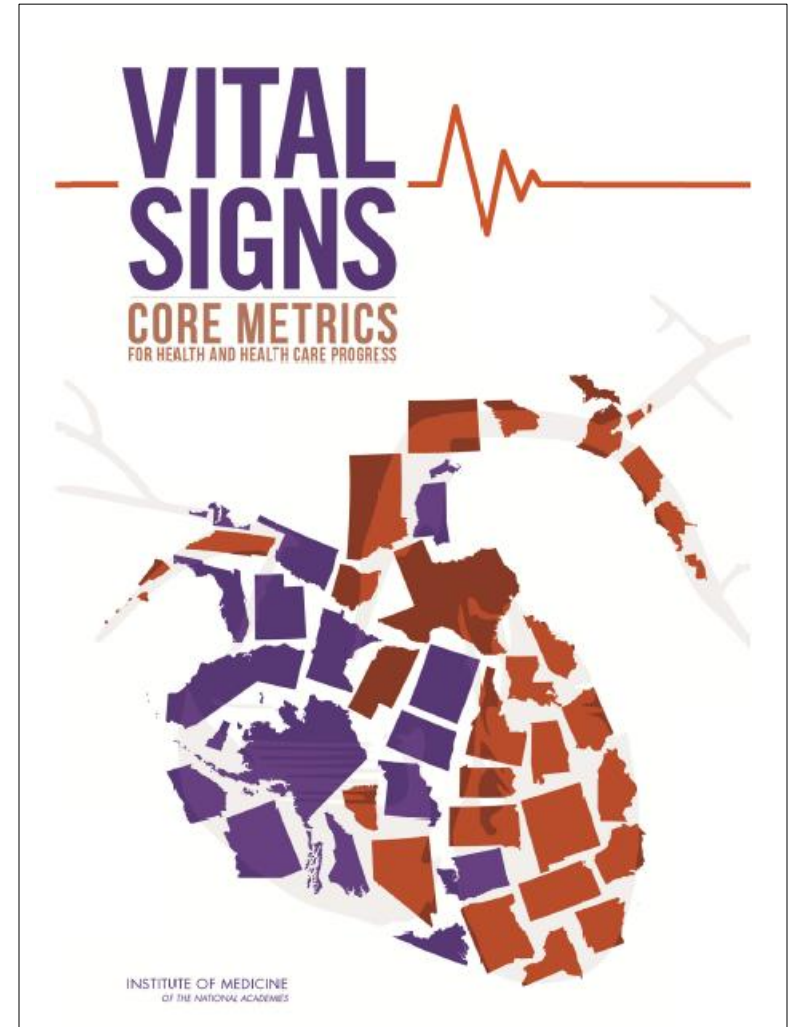
- **Data Capture** – Whenever possible, use data elements that are tracked as part of routine daily work.
- **Data Aggregation** – Whenever possible, use central data sources that are populated as part of routine daily work.
- **Data Quality** – systematic approach to assure that consistent and useful data is extracted, aggregated, and useful for measurement across settings
- **Data Use** – Develop effective support strategies so that measure results are effectively used as part of a learning system.
- **Measurement Review**– Evidence of improvement in priority outcomes vs. burden of measurement. Assistance with measurement vs. burden of measurement.


















BEST CARE AT LOWER COST

The Path to Continuously Learning
Health Care in America

INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES



Domain	Key Element	Core Measure Focus	Best Current Measure
Healthy people	Length of life	 Life expectancy	Life expectancy at birth
	Quality of life	 Wellbeing	Self-reported health
	Healthy behaviors	 Overweight and obesity	Body mass index
		 Addictive behavior	Addiction death rate
		 Unintended pregnancy	Teen pregnancy rate
	Healthy social circumstances	 Healthy communities	High school graduation rate
Care quality	Prevention	 Preventive services	Childhood immunization rate
	Access to care	 Care access	Unmet care need
	Safe care	 Patient safety	Hospital acquired infection rate
	Appropriate treatment	 Evidence-based care	Preventable hospitalization rate
	Person-centered care	 Care match with patient goals	Patient-clinician communication satisfaction
Care cost	Affordability	 Personal spending burden	High spending relative to income
	Sustainability	 Population spending burden	Per capita expenditures on health care
Engaged people	Individual engagement	 Individual engagement	Health literacy rate
	Community engagement	 Community engagement	Social support

MEASURE CATEGORIES (hundreds)

QUALITY OF CARE

CVD: aspirin
 CVD: Beta blocker
 CVD: heart failure composite
 CVD: blood pressure
 Can: cytogenetic testing/leukemia
 Can: stage-specific therapy ER/PR+ breast cancer
 Resp: asthma management composite
 Resp: COPD evaluation protocol
 DM: HbA1c
 DM: LDL
 DM: diabetes composite
 MH: depression identification
 MH: antipsychotic meds
 MH: care plan at discharge
 ID: Hepatitis C genotype testing
 ID: HIV viral load suppression
 ID: antibiotic overuse

Surg: volume (by procedure)
 Surg: antibiotic prophylaxis
 Surg: checklist use
 Surg: post-op complication rates
 OGC: EHR functionality
 OGC: ED throughput time
 OGC: advance care planning
 OGC: pain management protocol
 MCH: prenatal care
 MCH: Cesarean sections
 MCH: post-partum care
 Prev: USPSTF recommended services
 Prev: physical activity/fitness coaching
 Prev: tobacco cessation
 Pexp: clinician communication
 Pexp: patient rating of doctor
 Pexp: collaborative decision-making

Safe: wrong site surgery
 Safe: hospital-acquired conditions/injuries
 Safe: central line-associated blood stream infections
 Safe: hand hygiene
 Safe: MRSA bacteremia
 Safe: pressure ulcers
 Safe: medication reconciliation
 Safe: adverse event reporting

... others ...

COST

PC: insurance coverage
 PC: out of pocket med payments
 RR: Total cost of care index
 RR: prescription of generic drugs
 UN: condition-specific imaging use
 ... others ...

ENGAGEMENT

Ind: health literacy
 Ind: children reading at grade level
 Ind: collaborative decision-making
 Ind: patient activation
 Com: community-wide benefit strategy
 ... others ...

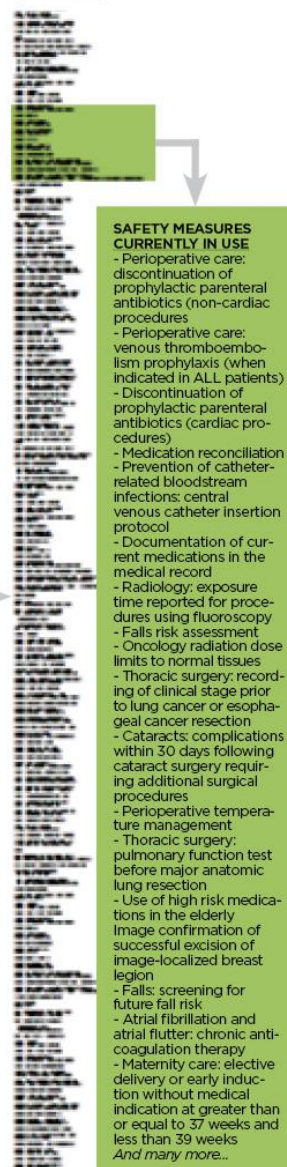
POPULATION HEALTH

HS: life expectancy
 HS: perceived health
 HS: days with physical or mental illness
 Beh: fruit/vegetable consumption
 Beh: activity levels
 Soc: income/child poverty
 Soc: neighborhood crime
 Env: air particulate matter
 ... others ...

PROPONENT GROUPS

- Standards organizations
- Professional societies
- Payers and employers
- Care institutions
- Federal, state, and local government

MEASURES IN USE (thousands)



IMPACT ASSESSMENT

- Quality-sensitive outcomes
- System-impact protocols

STANDARDIZED MEASURES (dozens—examples)

Life expectancy at birth
 Infant mortality
 Maternal mortality
 Violence and injury mortality
 Co-occurring chronic conditions
 Self-reported health
 Health-adjusted life expectancy
 Body mass index
 Activity levels
 Healthy eating patterns
 Tobacco use
 Drug dependence/illicit use
 Alcohol dependence/misuse
 Addiction deaths
 Adolescent pregnancy
 Contraceptive use
 Unmet need or delayed care
 Patient experience
 Patient-clinician communication
 High blood pressure therapy protocol
 Acute heart attack therapy protocol
 Stroke therapy protocol
 Diabetes therapy protocol
 Breast cancer therapy protocol
 Pain management protocol
 Asthma management protocol
 Childhood immunization
 Influenza immunization
 USPSTF recommended services
 Depression screening and treatment
 Colorectal cancer screening
 Breast cancer screening
 Advanced care planning
 Wrong site surgery
 Hospital acquired infection
 Pressure ulcers
 Medication reconciliation
 Preventable hospitalizations
 Spending relative to income
 Per capita health care spending
 Spending growth categories
 Childhood poverty
 Health literacy
 Use of personal health tools
 High school graduation
 Air quality index
 Drinking water quality index
 Social support availability
 Availability of healthy food
 Community walkability
 Community health benefit agenda

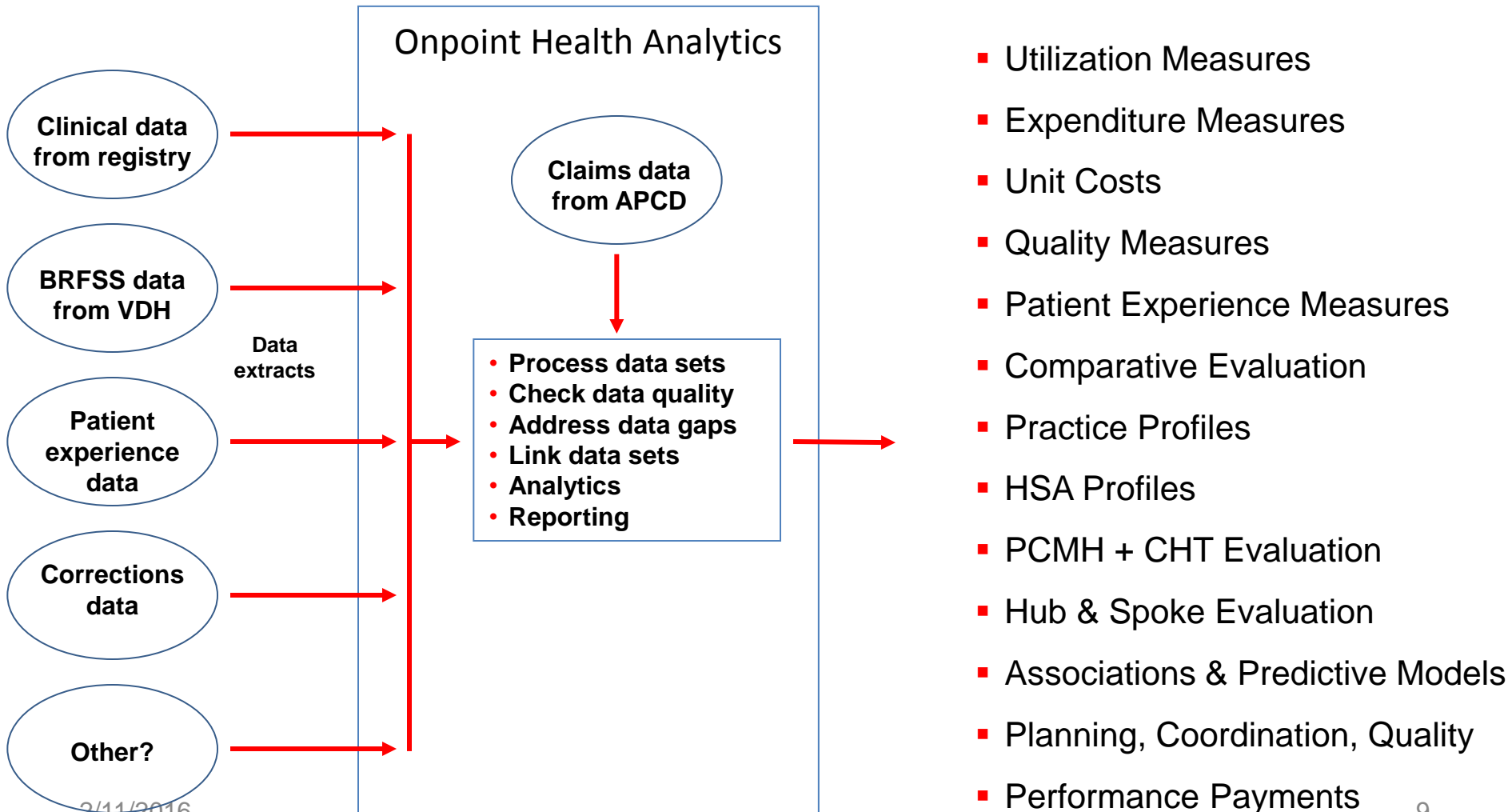
CORE MEASURES (fifteen)

- Life expectancy
- Wellbeing
- Overweight and obesity
- Addictive behavior
- Unintended pregnancy
- Healthy communities
- Preventive services
- Care access
- Patient safety
- Evidence-based care
- Care match with patient goals
- Personal spending burden
- Population spending burden
- Individual engagement
- Community engagement

Blueprint Measurement – Central Data Sources

Measurement Activity	Source	Comments & Considerations
<p>Measurement of expenditures, utilization, quality, health status, pattern drivers, and patient experience.</p>	<p>Central data sources (all-payer claims database, Blueprint clinical registry, VDH registries, CAHPS patient experience survey, other sources)</p>	<p>Used to meet the goal of a statewide evidence guided learning health system. Also used to calculate the performance portion of the PCMH payment. Includes program evaluation, comparative performance and variation, associations and predictive models. Reports generated to assist practices and communities with ongoing improvement including local coordination and quality initiatives designed to improve results of core measures. Does not require additional documentation by primary care practices. Measure generation and reporting are updated routinely to reflect priorities of ACOs and other providers.</p>

Data Use for a Learning Health System



Blueprint Measurement – Practice Documentation

Measurement Activity	Source	Comments & Considerations
<p>Practices scored based on NCQA PCMH Standards. A passing score makes the practice eligible for PCMH payments and CHT staff.</p>	<p>Practice provides documentation and evidence that is used to populate measures</p>	<p>Used to achieve the goal of high quality primary care across the state. Comprised of process measures that are based on evidence and expertise. Practice facilitators and UVM team are available to assist practices. PCMH payment incentive has shifted from highest score to a qualifying score. Emphasizes must-pass elements and reduces documentation. Payment has increased at the same time that documentation requirements have decreased. NCQA routinely updates standards and requirements based on evidence and experience. NCQA is currently introducing a new process that reduces documentation and emphasizes tracking key measures. No other program in Vermont uses systematic measurement of PCMH standards. NCQA standards are the only Blueprint measurement requirement for primary care practices.</p>

2014 NCQA PCMH Standards

The Standards

The PCMH 2014 program's six standards align with the core components of primary care.

1. PCMH 1: Patient-Centered Access.
2. PCMH 2: Team-Based Care.
3. PCMH 3: Population Health Management.
4. PCMH 4: Care Management and Support.
5. PCMH 5: Care Coordination and Care Transitions.
6. PCMH 6: Performance Measurement and Quality Improvement.

The Must-Pass Elements

Six must-pass elements are considered essential to the patient-centered medical home, and are required for practices at all recognition levels. Practices must achieve a score of 50% or higher on must-pass elements:

1. PCMH 1, Element A: Patient-Centered Appointment Access.
2. PCMH 2, Element D: The Practice Team.
3. PCMH 3, Element D: Use Data for Population Management.
4. PCMH 4, Element B: Care Planning and Self-Care Support.
5. PCMH 5, Element B: Referral Tracking and Follow-Up.
6. PCMH 6, Element D: Implement Continuous Quality Improvement.

PCMH 1: Patient-Centered Access

10.00 points

The practice provides access to team-based care for both routine and urgent needs of patients/families/caregivers at all times.

Element A: Patient-Centered Appointment Access (MUST-PASS)

4.50 points

The practice has a written process and defined standards for providing access to appointments, and regularly assesses its performance on:

- | | Yes | No |
|---|--------------------------|--------------------------|
| 1. Providing same-day appointments for routine and urgent care. (CRITICAL FACTOR) | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Providing routine and urgent-care appointments outside regular business hours. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Providing alternative types of clinical encounters. | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Availability of appointments. | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Monitoring no-show rates. | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Acting on identified opportunities to improve access. | <input type="checkbox"/> | <input type="checkbox"/> |

Scoring

100%	75%	50%	25%	0%
The practice meets 5-6 factors (including factor 1)	The practice meets 3-4 factors (including factor 1)	The practice meets 2 factors (including factor 1)	The practice meets 1 factor (including factor 1)	The practice meets 0 factors

Explanation

MUST-PASS elements are considered the basic building blocks of a patient-centered medical home. Practices must earn a score of 50% or higher. All six must-pass elements are required for recognition.

2014 NCQA PCMH Standards

Patient-Centered Medical Homes are driving some of the most important reforms in health care delivery today. A growing body of scientific evidence shows that PCMHs are saving money by reducing hospital and emergency department visits, reducing health disparities, and improving patient outcomes. The evidence we present here outlines how the medical home inspires quality in care, cultivates more engaging patient relationships, and captures savings through expanded access and delivery options that align patient preferences with payer and provider capabilities. - See more at:

<http://www.ncqa.org/Programs/Recognition/Practices/PCMHEvidence.aspx#sthash.XDNJljxX.dpuf>

NCQA-Recognized PCMH Studies

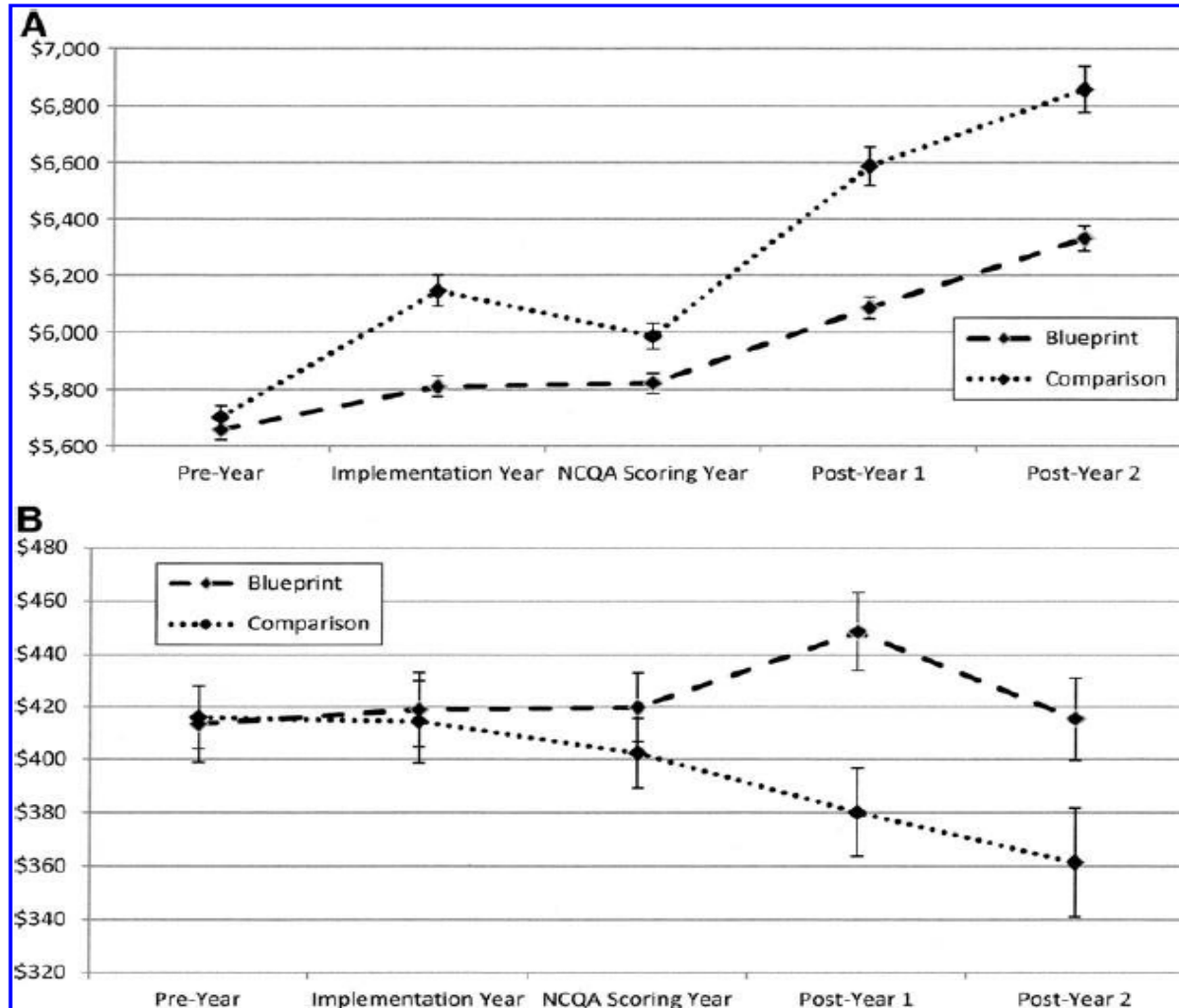
- [NCQA Patient-Centered Medical Homes Cut Growth in Medicare Emergency Department Use](#)
- [NCQA Patient-Centered Medical Homes Lower Total Cost of Care for Medicare Fee-for-Service Beneficiaries](#)
- [NCQA Patient-Centered Medical Homes Lower Costs and Provide a High Return on Investment](#)
- [NCQA Patient-Centered Medical Homes Provide More Effective Care Management and Optimize Use of Health Care Services](#)
- [NCQA Patient-Centered Medical Homes Lower Medicare Spending](#)
- [NCQA Patient-Centered Medical Homes Improve Care Management and Preventative Screenings for Cardiovascular and Diabetes Patients](#)

Additional PCMH Evidence

- [Patient-Centered Medical Homes Reduce Socio-economic Disparities in Cancer Screening](#)
- [Long-term Patient-Centered Medical Home Implementation Produces Largest Sustainable Cost Savings in Acute Inpatient Care](#)
- [Patient-Centered Medical Home Initiatives Expanded Fourfold from 2009–13](#)
- [Patient-Centered Medical Homes Produce Lower Overall Health Costs Through Focus on Primary Care Utilization](#)
- [Medicare Beneficiaries Have Better Patient Experience in Patient-Centered Medical Homes](#)
- [Patient-Centered Medical Homes Produce Most Effective Cost Savings in Highest Risk Patients](#)
- [Patient-Centered Medical Homes Increase Rates of Quality Improvement](#)
- [Medicaid Patient-Centered Medical Homes Offer Greater Patient Access and Lower Inpatient Admissions and Per Member Per Month Costs](#)
- [Multi-payer Patient-Centered Medical Homes Reduce Preventable Emergency Department Visits](#)
- [Patient-Centered Medical Home Initiatives Produce 6 to 1 Return on Investment](#)

- See more at: <http://www.ncqa.org/Programs/Recognition/Practices/PCMHEvidence.aspx#sthash.zOhpFCPQ.dpuf>

Figure 2. Expenditures Per Person



Expenditures on healthcare
for the whole population

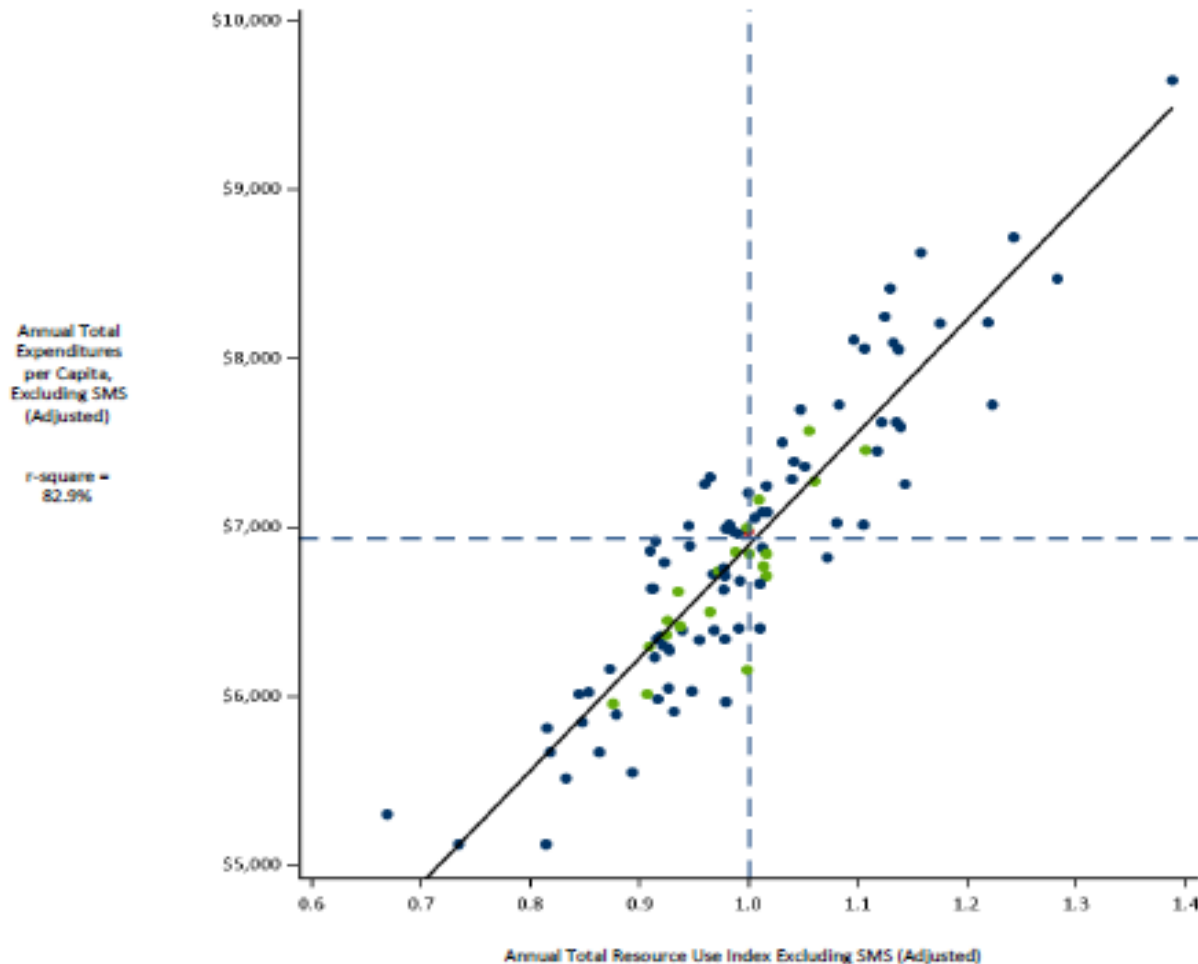
Medicaid expenditures
on special services

Quality Measures Selected for Performance Payment

- Core- 2: Adolescent Well-Care Visit
- Core- 8: Developmental Screening in the First Three Years of Life
- Core- 12: Rate of Hospitalization for ACS Conditions (PQI Chronic Composite)
- Core- 17: Diabetes Mellitus: Hemoglobin A1c Poor Control (>9%)

Utilization Measure Selected for Performance Payment

Annual Total Expenditures per Capita vs. Resource Use Index (RUI)



A 0.01 change in the Resource Use Index is associated with a \$66.80 change in expenditures per person per year.

Questions & Discussion