Quality Measurement & HIT

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President and CEO
National Quality Forum
• Current State of Quality Measurement and Future Directions
• The Connection Between Measures and CDS
• Building EHRs and PHRs to Support Quality Measurement and Improvement
• ARRA: Measures of “Meaningful Use”
NQF Mission

To improve the quality of American healthcare by

- setting national priorities and goals for performance improvement,
- endorsing national consensus standards for measuring and publicly reporting on performance, and
- promoting the attainment of national goals through education and outreach programs.

For more information, visit our web site at www.qualityforum.org.
About NQF

• Private sector, membership organization
  – Over 400 members representing all major stakeholders

• National Standard-setting organization recognized under NTTAA
  – Over 500 NQF-endorsed performance measures

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National Priorities Partnership

• Establish national priorities and goals for performance measurement and public reporting
• Focus measurement and improvement efforts on achievement of these goals
• Multi-stakeholder Committee with representation from 32 leadership organizations
• Co-chairs
  • Don Berwick, IHI
  • Peggy O’Kane, NCQA
Selecting the National Priorities

High Impact Areas

- Provide Effective Care
- Remove Waste
- Eliminate Harm
- Eradicate Disparities

© National Priorities Partnership
National Priorities & Goals

• Ensure patients receive well-coordinated care across all providers, settings, and levels of care
  – Medication reconciliation
  – Preventable hospital readmissions
  – Preventable ED visits

• Improve the health of the population
  – Preventive services
  – Healthy lifestyle behaviors
  – Population health index

• Improve the safety and reliability of America’s health care system
  – Hospital-level mortality rates
  – Serious adverse events
  – Healthcare associated infections

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• Engage patients and families in managing health and making decisions about care
  – Informed decision-making
  – Patient experience of care
  – Patient self-management

• Guarantee appropriate and compassionate care for patients with life-limiting illnesses
  – Relief of physical symptoms; meet psychosocial and spiritual needs
  – Communication regarding treatment options and prognosis
  – Access to palliative care & hospice services

• Eliminate waste while ensuring the delivery of appropriate care
Portfolio of NQF-Endorsed Measures

- **Uses of NQF-Endorsed Measures**
  - Public reporting
  - Pay for Performance Programs
  - Accreditation and Professional Certification
  - Quality Improvement

- **Levels of Measurement**
  - Community
  - Health System
  - Provider
  - Clinician

- **Measurement Framework**
  - Six National Priorities
  - Top Conditions and Procedures

- **Patient-Focused Episodes**
  - Outcomes
  - Resource Use
  - Harmonize measures across sites of care and types of providers
  - Shared accountability

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Episode Framework: Acute MI

Population at Risk

1\textsuperscript{st} Prevention (no known CAD)

2\textsuperscript{nd} Prevention (CAD no prior AMI)

Advanced Care Planning

Post AMI Trajectory 1 (T1)
Relatively healthy adult
Focus on:
• Quality of Life
• Functional Status
• 2\textsuperscript{nd} Prevention Strategies
• Rehabilitation
• Advanced care planning

Post AMI Trajectory 2 (T2)
Adult with multiple co-morbidities
Focus on:
• Quality of Life
• Functional Status
• 2\textsuperscript{nd} Prevention Strategies
• Advanced Care Planning
• Advanced Directives
• Palliative Care/Symptom Control

Episode begins – onset of symptoms

Acute Phase

Post Acute/Rehabilitation Phase

2\textsuperscript{nd} Prevention

Episode ends – 1 year post AMI

Getting Better

Living w/ Illness/Disability (T1)
Coping w/ End of Life (T2)

Assessment of Preferences

PHASE 1

PHASE 2

PHASE 3

PHASE 4

Staying Healthy

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Presentation at a Glance

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Current State: QM & CDS

• Common goal of care improvement and grounding in evidence base though QM & CDS efforts not coordinated

• Common reliance on clinical guidelines that are not developed with QM and CDS in mind:
  – Lack of specificity (e.g., periodicity of testing)
  – Lack of precise definitions (e.g., “high risk”)
  – Use of imprecise “action” terms (e.g., “may consider”)

• Tendency to focus on the “measurable” branch points from guidelines
Quality Measures and CDS: Shared Evidence

guidelines

clinical decisions

evidence

clinical decision support

quality measurement
Desired State: QM & CDS

- QM focuses on outcomes and those process measures with strong link to outcomes (importance to measure and report)
- CDS focuses on the critical branch points where intervention in real-time would have greatest impact
- Work collaboratively to develop standards for computable clinical guidelines that support QM and CDS
- Guideline, QM and CDS communities coordinate development efforts and identify the essential electronic data set that can support measurement and improvement.
Shared Data Elements: “Sweet Spot”

- Clinical Guidelines
- Quality Measures
- Decision Support

Courtesy: Paul Tang.
Presentation at a Glance

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• Quality Data Set (QDS): Data types and data elements needed for quality measurement and clinical decision support
• Data Workflow: Sources and flow of data within and across healthcare
• Leads to development of a measure authoring tool to ensure consistency and harmonization
Examples of QDS Data Elements

ICD-9CM
250.xx
(Diabetes)

RxNorm
xxxx, xxxx
(Diabetes medication)

LOINC
4548-4…
(HbA1c)

Diabetes Active Diagnosis

Diabetes Medication Dispensed

Diabetes Laboratory Result

source clinician recorder clinician setting ambulatory field problem list

source pharmacist recorder pharmacist setting ambulatory field medication list

source lab device recorder lab device setting ambulatory field lab results

For more information, visit our website at www.qualityforum.org.
QDS elements stored in database for reuse across QM/CDS
Ideal State: Shared Supply Chain

QM specification repository

data element repository

diabetes
aspirin
hemoglobin
lumpectomy
smoker
EKG

CDS rule repository

CDS

EHR

quality report

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ARRA: Meaningful Use

- Electronic exchange of health information to improve the quality of health care, such as promoting care coordination

- DHHS Secretary identifies quality measures

- Policy and Standards Committees provide advise
  - Recommended measures aligned with National Priorities and most are NQF-endorsed measures
  - Measure retooling underway

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