Health IT Enabled Quality Improvement: A Vision for Better Health and Health Care

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Many studies show Meaningful Use has positive effects on:

- Quality
- Safety
- Efficiency

Health IT evaluation studies, 2007-2013 (n=493). Positive defined as health IT improved key aspects of care but none worse off; Mixed-positive defined as positive effects of health IT outweighed the negative effects; Neutral defined as health IT not associated with change in outcome; Negative defined as negative effects of health IT on outcome.

Citation: Jones SS, Rudin RS, Perry T, Shekelle PG. “Health Information Technology: An Updated Systematic Review with a Focus on Meaningful Use,” Ann Int Med 2014;160:48-54.
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Quality Improvement Vision
Vision’s Guiding Principles

• Protect Privacy and Security
• Support National Quality Strategy
• Build on existing health IT infrastructure
• Empower all members of the quality ecosystem
• Capture once and reuse
• Support all levels of health IT sophistication
• Foster flexibility through modularity
• Align and Simplify
• Focus on Value
Six Priorities of the National Quality Strategy

Making care safer by reducing harm caused in the delivery of care.

Ensuring that each person and family are engaged as partners in their care.

Promoting effective communication and coordination of care.

Promoting the most effective prevention and treatment practices for the leading causes of mortality, starting with cardiovascular disease.

Working with communities to promote wide use of best practices to enable healthy living.

Making quality care more affordable for individuals, families, employers, and governments by developing and spreading new health care delivery models.
Linking Measurement & CDS to Accelerate Improvement

- eCQM
- CDS

Clinical Quality Improvement
CDS Tools

- Documentation Templates/Forms
- Order Facilitation, Parameter Guidance, Care Plans and Protocols
- Event-driven Alerts and Reminders
- Reference Information
- Relevant Data Summaries
- Multi-patient Monitors
- Predictive and Retrospective Analytics
- Filtered Reference Information and Knowledge Resources
Measurement & Analysis Tools

• Public Health and Specialized Clinical Data Registries

• Clinical Quality Measures including
  – eCQMs extractable directly from EHRs
  – Registry-based measures
  – Multi-source/”hybrid” measures
  – Patient-Reported Outcomes Measures

• Modeling, concurrent and retrospective analysis, predictive/retrospective comparison, and other analytics
10 Year Quality Improvement Vision

• 3 Years
  – Alignment and Standardization to Support Data Capture Within the QI Ecosystem

• 6 Years
  – Big Data for the QI Ecosystem

• 10 Years
  – Fast Data, Fast Improvement Across the QI Ecosystem
Stakeholders’ Role

• Engage
• Support the development and use of harmonized standards so that different QI tools can all use the same data
• Use and share effective practices for developing and deploying standards-based improvement tools