



# Demonstrating Meaningful Use through Quality Measures

#### **NENIC Conference**

Friday, May 21, 2010

Rosemary Kennedy, RN, MBA, FAAN National Quality Forum

# Agenda



#### 1. The Re-Evolution of Quality Measurement

- The Role of NQF on the Quality Landscape
- Evolving the Portfolio of NQF Endorsed Measures

#### 2. Quality Measurement and the Transition to EHRs

- The Role of Informatics and Health Information Technology (HIT)
- Quality Data Set (QDS)
- Retooling initiative

#### 3. What it Means for You

# The Opportunity



There are 20 medical conditions identified by the CMS account for over 95% of Medicare's costs.

#### The Goal









#### Re-Evolution



A journey into where we're from

and where we're going





# Quality Measurement Leaders



Florence Nightingale RN Collecting Mortality Data 19<sup>th</sup> Century





1914 Address to Nurses of The Nightingale School at St. Thomas's Hospital

"For us who nurse, our nursing is a thing which unless in it we are making progress every year, every month, every week, take my word for it, we are going back"

# Quality Measurement Leaders



Ernest Codman MD
Outcomes Hypothesis
20th Century





- Advocate for tracking outcomes and making them public
- 1914 Defined a plan for evaluating surgeon competence
- Lost privileges
- Opened his own hospital "End Result Hospital"
- 337 patients between 1911 1916 he recorded and published 123 errors

# **Quality Measurement Leaders**

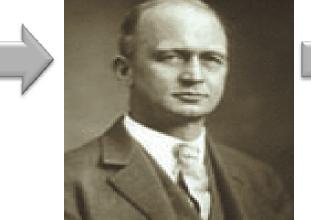


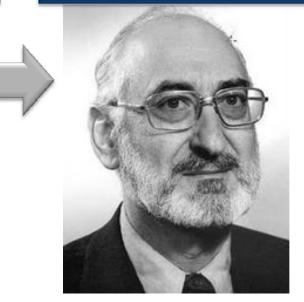
Florence Nightingale RN Collecting Mortality Data 19<sup>th</sup> Century



Avedis Donabedian MD Structure Process Outcome 20<sup>th</sup> Century







#### NQF Mission



Improve the quality of American healthcare by *setting national priorities* and *goals* for performance improvement

Endorse national consensus standards for measuring and publicly reporting on performance

Promote the attainment of national goals through *education and outreach programs* 

# Progress Has Been Slow



#### The National Health Care Quality Report

- Showed an average annual *improvement* of only *1.9% on* a selected set of *performance measures* between 2000 and 2004.
- By contrast, the rate of healthcare *expenditures grew 7.6%* during the same time period.

#### Entrenched overuse, misuse and underuse of services

- These gaps in quality affect everyone, but place the greatest burden on minorities.
- Efforts to close the disparities gap have had little impact.



# Quality Measurement and the EHR - Historically Separate Worlds









#### Typical Question for the IT Department

What's the percentage of *heart failure patients*discharged home with *written instructions or educational material* given to patient or caregiver *at discharge* 

# **Quality Measure**



#### numerator

(received discharged education)

### denominator - exclusions - exceptions

(all heart failure patients)

A given measure contains a numerator, denominator, exclusions, and exceptions.

# Anatomy of a Quality Measure



#### numerator

denominator - exclusions - exceptions



#### Should be able to get from the EHR so action can be taken

Some group of people (or person) who meet some criteria



Evidence or documentation that some other exclusion or exception criteria are met

# HIT Hasn't Helped



# Case Example - Using the EHR to assess performance against the following quality measure?

 Percentage of heart failure patients discharged home with written instructions or educational material given to patient or caregiver at discharge

## HIT Hasn't Helped



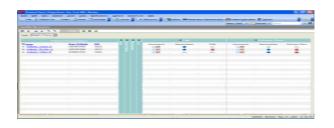
#### Retrieving Information for Quality Management

- It is conservatively estimated that centers spend 22.2 minutes
   per heart failure case to abstract the data, which in aggregate
   amounts to more than 400,000 person-hours spent each year by
   US hospitals.
  - Mostly retrospective
  - Humans are "creating" the data
  - Data are in different sources in different levels of granularity, with varying definitions (requires mapping)
  - Everyone speaks a different language

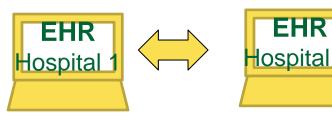
# HIT Goals for Quality



Quality measurement as a byproduct of documentation



Comprehensive exchange of information



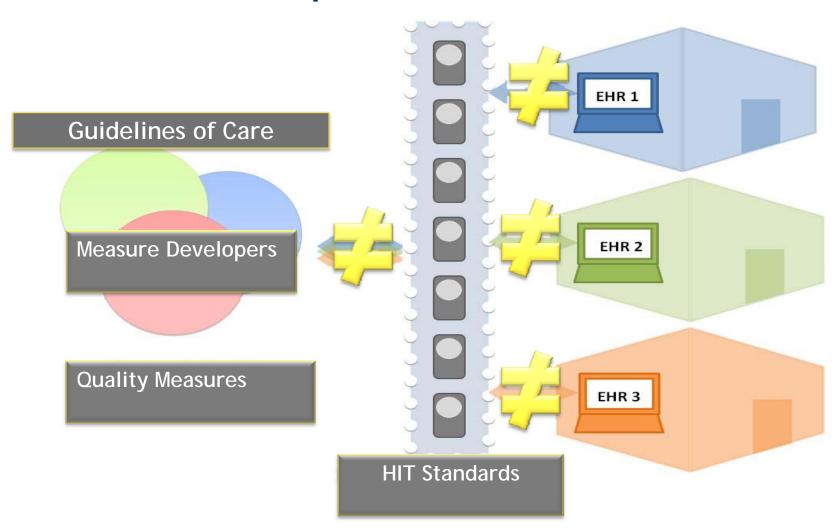
Common language between developers of guidelines, quality measures, HIT and users



#### **Disconnected World**



#### **Gaps in Information Flow**





# National Agenda for Change

#### **Quality Enterprise Functions**





# Congress



# Congress specified three types of requirements for meaningful use

- Use of certified EHR technology in a meaningful manner
- 2. Electronic exchange of health information to improve care quality
- 3. Submission of clinical quality measures

Perform quality measurement as a byproduct of meaningful use

# **Proposed**



# 2011

- Detailed specs for electronic submission are <u>not</u> ready, target date is April 1, 2010
- Attestation methodology for submitting quality measure summary information to CMS
- Demonstrate use of certified EHR to capture data elements and calculate results for applicable quality measures

# 2012

- Electronic submission of information on clinical quality measures
- Publish technical specifications for EHR vendors for obtaining certification of their systems.

#### **Attestation**



- Clinical quality measures are generated as output from a certified EHR
- The *information is accurate to the best of the knowledge* of the official submitting
- The information submitted includes all patients to whom the measure applies.
- The numerators, denominators, and exclusions for each clinical quality measure is reported

#### Measures for Eligible Professionals (EP)



#### Eligible Professionals (EP)

- Close to 90 quality measures
  - Endorsed by NQF, AQA, and PQRI (6 not endorsed)
  - Includes a Core Set and Specialty Group Set
  - Specialty Group Set
  - Domains in the Core Set
    - Medical conditions and treatment, preventive care screening, documentation blood pressure, tobacco use, and BMI

#### Measures for Eligible Hospitals (EHs)



#### Eligible Hospitals (EHs)

- 35 quality measures (endorsed by NQF)
  - ED throughput, stroke, VTE, AMI, heart failure, pneumonia, prophylactic antibiotics, ventilator bundle, central line bundle, urinary catheter associated infections, central line infection, and readmission rates.
- Measures endorsed by NQF or selected fro the RHQDAPU program
- Overlap with existing core measures (approximately 7)

# National Agenda for Change



- NQF with support from AHRQ established the Health Information Technology Expert Panel (HITEP)
  - To accelerate ongoing efforts defining how (HIT) can evolve to effectively support performance measurement.

#### Their Work

- Created definition for a 'well defined quality measure'
- 2. Recommended Common Data Types and Prioritized Performance Measures for EHR's to collect and report
- 3. Created the first draft of a *quality data set (QDS)* to empower automated quality measurement

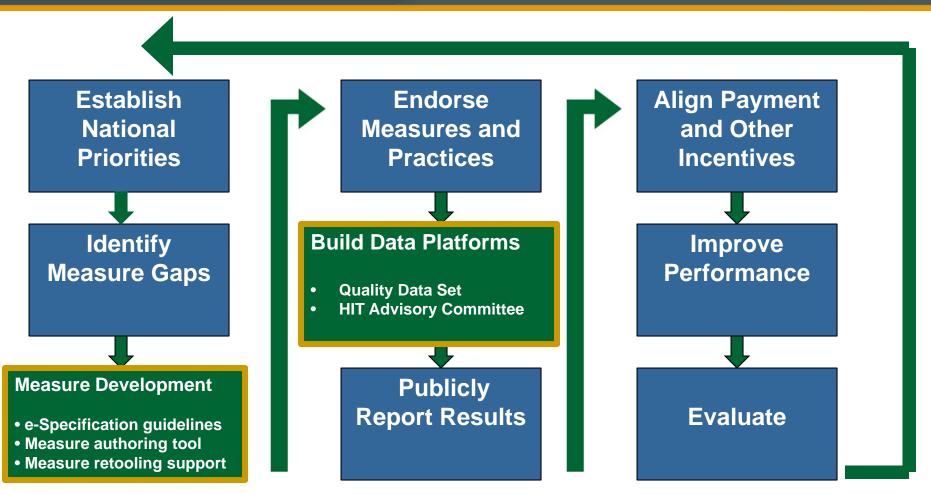
#### **Quality and HIT**



A "well-defined quality measure" is composed of a set of common data elements, encoded using standard taxonomies, structured logically into a standardized expression that can be shared and applied to patient data and reported

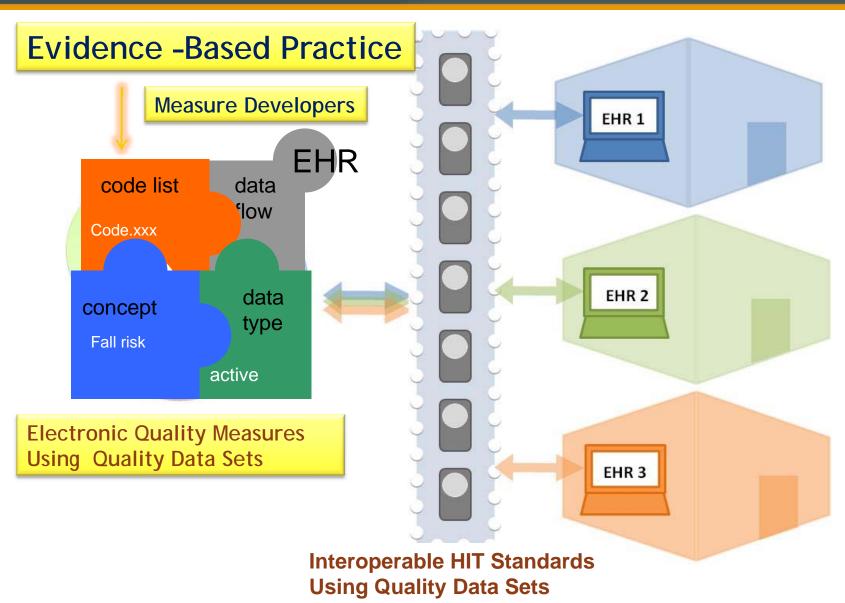
#### **Quality Measurement and Informatics**





#### The Goal

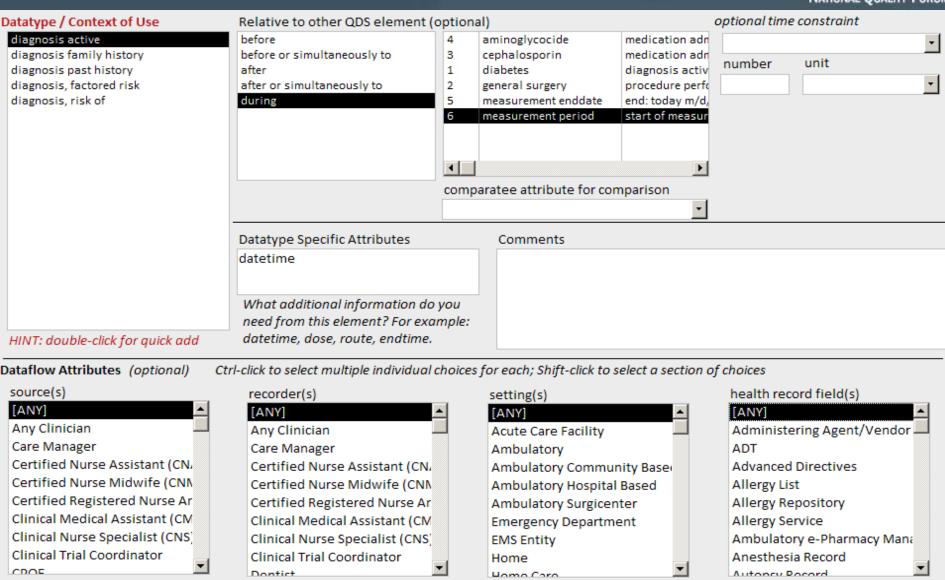




STANDARD CATEGORIES	QDS DATA TYPES
Care experience	Patient care experience Provider care experience
Care goal	Care <b>goal</b> Care <b>plan</b>
Communication	Communication provider to provider Communication to patient Communication from patient
Device	Device adverse event Device applied Device intolerance Device ordered Device offered Device declined
Diagnosis/condition/problem	Diagnosis active Diagnosis family history Diagnosis past history Diagnosis, risk of Diagnosis, factored risk
Diagnostic study	Diagnostic study adverse event Diagnostic study intolerance Diagnostic study order Diagnostic study result Diagnostic study offered Diagnostic study declined
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# QDS and Retooling





Ok

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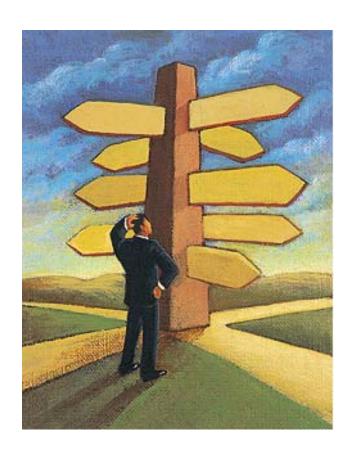
# Quality and Information Technology





# 3 Actions for You to Take





#### What You Can Do



Data Sources • Capture the right data (standardized terminology and use evidence-based content)

Performance
Measures

 Calculate the performance measure (vendor support for eMeasure)

EHRs and HIT tools

 Provide real-time information to the clinician with decision support

E-Infra structure

 Publicly report for secondary uses: accountability, payment, public health, and comparative effectiveness

#### Measures for Eligible Professionals (EP)



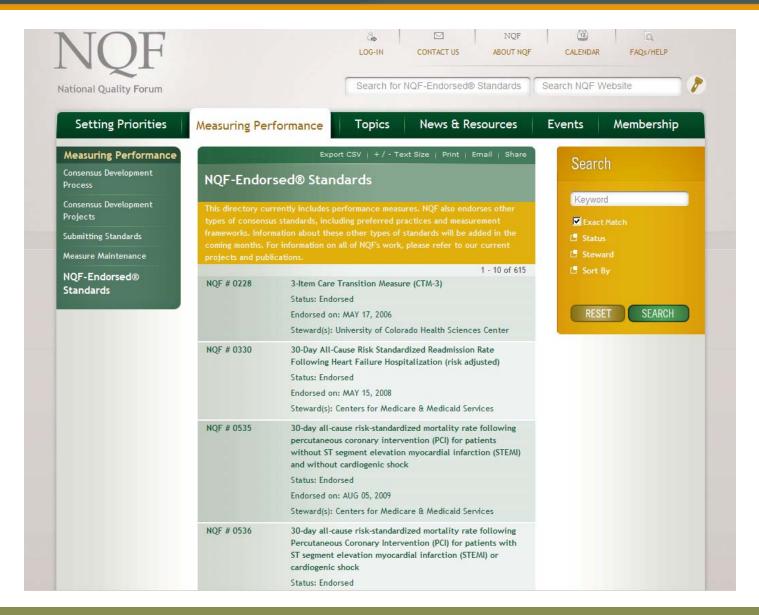
#### Top 20 high-impact conditions

- Acute myocardial infarction (AMI)
- 2. Alzheimer's Disease
- 3. Atrial fibrillation
- 4. Breast cancer
- 5. Cataract
- 6. Congestive heart failure (CHF)
- 7. Chronic kidney disease
- 8. Colorectal cancer
- 9. COPD
- 10. Diabetes

- 11. Endometrial cancer
- 12. Glaucoma
- 13. Hip/pelvic fracture
- 14. Ischemic heart disease
- 15. Lung cancer
- 16. Major depression
- 17. Osteoporosis
- 18. Prostate cancer
- 19. Rheumatoid arthritis and osteoarthritis
- 20. Stroke/transient ischemic attack (TIA)

#### Searchable Database of Endorsed Measures





#### Thank You



Rosemary Kennedy, RN, MBA, FAAN <a href="mailto:rkennedy@qualityforum.org">rkennedy@qualityforum.org</a>