eMeasure Feasibility

Expert Panel Meeting

December 7, 2012
Background

- All measures are assessed for scientific acceptability and feasibility (two of the four criteria)
- NQF Testing Task Force report identifies criteria for evaluating EHR measures for reliability and validity (2011)
- NQF’s eMeasure Review and Assessment draft proposal (2012) comments:
  - Stakeholders identify need for increased eMeasure feasibility assessment
  - NQF criteria should incorporate the **feasibility of data capture for the data elements utilized** in addition to reliability and validity
eMeasure Feasibility Project Goals

- Environmental scan of current approaches to eMeasure feasibility assessment
- Recommendations for eMeasure feasibility assessment
- Draft starter set of criteria for eMeasure feasibility assessment
Meeting Objectives

• Additions to the environmental scan
• Discussion:
  • Principles and Guidance for eMeasure Feasibility Assessment
  • Recommendations for eMeasure Feasibility Assessment
  • Potential scoring for eMeasure Feasibility Assessment
  • Starter set of criteria for eMeasure Feasibility Assessment
**Project Timeline**

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Description</th>
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</thead>
<tbody>
<tr>
<td>December 7, 2012</td>
<td>Expert Panel meeting</td>
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<tr>
<td>December 8-31, 2012</td>
<td>NQF staff prepares draft report</td>
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<tr>
<td>January 1-16, 2013</td>
<td>Expert Panel review of draft report</td>
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<tr>
<td>January 21-February 19, 2013</td>
<td>30-day Public comment on draft report</td>
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<tr>
<td>February 20 – March 8, 2013</td>
<td>Final revisions to draft report after review of comments</td>
</tr>
<tr>
<td>March 11 – April 5, 2013</td>
<td>Final approval by HITAC, CSAC and NQF BoD</td>
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*Tentative*
Schematic for eMeasure Testing

**Feasibility:**
- An iterative process that should occur throughout the development, testing, and implementation process
- Initial feasibility examines the individual data elements, associated value sets, representation in the QDM and begins to assess appropriate measure logic
- May occur at the vendor system level primarily
- Need to begin to address how data will be derived during care processes

**Reliability and Validity:**
- At the point at which an eMeasure is determined to be feasible (still to be defined), testing can then move into the measure logic and aggregating of data into measure scores.
- While feasibility may continue to be assessed, testing blends into reliability and validity.
- Will require testing and implementation by providers at the point of care
eMeasure development, testing and implementation timeline

Data Element/Workflow Process

Measure Logic

Measure Score

EHR Vendor/Systems Level

EHR Vendor/Local Provider

Local Provider

Feasibility Assessment

Reliability/Validity

NATIONAL QUALITY FORUM
<table>
<thead>
<tr>
<th></th>
<th>Unstructured or not present in EHRs</th>
<th>Structured / Present in EHRs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Value:</strong></td>
<td>Elements essential to quality care</td>
<td></td>
</tr>
<tr>
<td><strong>Low Value:</strong></td>
<td>Elements not significant to care decisions</td>
<td></td>
</tr>
</tbody>
</table>
# Quality Score for Common Data Types (HITEP I)

<table>
<thead>
<tr>
<th>Data Quality Criteria</th>
<th>Description</th>
<th>Scale</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authoritative/Accurate Source</td>
<td>Is the entry in the EHR from an authoritative data source? What is the accuracy of the data element in EHRs?</td>
<td>1-5</td>
<td>5</td>
</tr>
<tr>
<td>Data Standards</td>
<td>Is the data element coded in a structured format using a nationally accepted terminology standard?</td>
<td>1-5</td>
<td>5</td>
</tr>
<tr>
<td>Workflow Fit</td>
<td>Does capture of the data element by the most appropriate healthcare professional fit the typical EHR workflow for that user?</td>
<td>1-5</td>
<td>4</td>
</tr>
<tr>
<td>Availability in EHRs</td>
<td>Is the data element currently available within EHRs?</td>
<td>1-5</td>
<td>4</td>
</tr>
<tr>
<td>Auditable</td>
<td>Can the data be tracked over time to assess accuracy?</td>
<td>1-5</td>
<td>2</td>
</tr>
</tbody>
</table>
Characteristics of Data Elements

The Expert Panel identified several characteristics that may influence the feasibility of each data element:

- Data are captured during the course of patient care
- Data are found in structured data fields
- Data element definition is precise and unambiguous with appropriate granularity to represent the quality concept
- Data element and associated value set use standardized vocabularies
- Interoperability complexity