What is a Composite Measure?

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Outline

• How to Create a Measure
  • Quality Activities
  • Desirable Attributes of a Measure
  • Measure Development Process

• Adult Composite
  • What is it?
  • Purpose
## Major Quality Activities & Organizations

<table>
<thead>
<tr>
<th>Evidence Development</th>
<th>Guideline Development</th>
<th>Measure Development</th>
<th>Measure Endorsement</th>
<th>Implementers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop the evidence base for what is effective treatment</td>
<td>Develop guidelines for practitioners based on evidence</td>
<td>Develop performance measures of adherence to guidelines</td>
<td>Provide assurance that performance measures are evidence-based, methodologically sound</td>
<td>Use measures to improve quality</td>
</tr>
</tbody>
</table>

**Researchers**
- U.S. Preventive Services Task Force
- Advisory Committee on Immunization Practices
- Physician specialty organizations
- Voluntary health organizations e.g., American Cancer Society

**Federal Agencies**
- e.g., CMS, Health Resources and Services Administration
- NCQA

**National Quality Forum**

**CMS**
- NCQA
- The Joint Commission

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1Barton, M., Byron, S. (2016). NCQA and performance measurement. [PowerPoint Slides].
Desirable Attributes of Measures

Relevance
- Meaningful to all key stakeholders
- Important to enhanced health
- Financial impact of improvement
- Controllable
- Potential for improvement

Scientific Soundness
- Adherence to the evidence base
- Process or structural measures are linked to outcomes
- Validity, reliability

Feasibility
- Precisely specified
- Needed data available and reasonable cost to collect
- Auditable
Measures Development Process

- Environmental Scan, Guideline Review
- Draft Specifications
- Feasibility & Reliability Testing
- Public Comment
- Final Specifications
- Implementation & Use

Stakeholder feedback obtained throughout the process

1Barton, M., Byron, S. (2016). NCQA and performance measurement. [PowerPoint Slides].
## Adult Composite

**What is a composite?**

- “A combination of two or more individual measures in a single measure that results in a single score.”

### ADULT COMPOSITE

<table>
<thead>
<tr>
<th>Age</th>
<th>Vaccine</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>19-59</td>
<td>Tdap ever; Tdap/TD in the last 10 years</td>
<td>Influenza</td>
</tr>
<tr>
<td>60-64</td>
<td>Tdap ever; Tdap/TD in the last 10 years; Zoster</td>
<td>Influenza</td>
</tr>
<tr>
<td>65+</td>
<td>Tdap ever; Tdap/TD in the last 10 years; Zoster; Pneumococcal polysaccharide (PPSV-23) or pneumococcal conjugate (PCV-13)</td>
<td>Influenza</td>
</tr>
</tbody>
</table>

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Purpose and Benefits of the Adult Composite

• Through composite development, individuals measures are being created
  • Tdap/TD, Zoster, Influenza, pneumococcal
• All individual measures can be “rolled up” into the composite for easier data collection and analysis
  • Or can be rolled out, if necessary
• Uses resources in a more efficient manner by creating individual measures within the composite
• Addresses three recommendations outlined in NQF report4
  • Tdap 19+, Zoster 60-64, Zoster 65+

“Composite measures can enhance measurement to extend beyond tracking performance on separate measures and can provide a potentially deeper view of the reliability of the care system”

References

1Barton, M., Byron, S. (2016). NCQA and performance measurement. [PowerPoint Slides].

