Performance Measures for Adult Immunization

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NQF-endorsed® consensus standards for adult immunizations

Influenza immunization
- 0431 Influenza vaccination among healthcare personnel (CDC)
- 1659 Influenza immunization (hospital) (CMS/OFMQ)*
- 0522 Influenza immunization (home health) (CMS)
- 0041 Influenza immunization (outpatient) (PCPI)
- 0226 Influenza immunization in the ESRD population (KCQA)
- 0039 Flu shots for ages 50 and over (NCQA)
- 0680: Percent of residents who were assessed and appropriately given the seasonal influenza vaccine during the flu season (short stay) (CMS)
- 0681: Percent of residents who were assessed and appropriately given the seasonal influenza vaccine (long stay) (CMS)
NQF-endorsed© consensus standards for adult immunizations

**Pneumococcal immunization**
- 0043 Pneumonia vaccination status for older adults (NCQA)
- 0617 High-Risk for Pneumococcal disease - Pneumococcal Vaccination (Active Health)
- 1653 Pneumococcal Immunization (PPV 23) (CMS)*
- 0525 Pneumococcal Polysaccharide Vaccine (PPV) Ever Received (CMS)

*New measure under review

**Hepatitis immunization**
- 0399 Hepatitis C: Hepatitis A vaccination (AMA PCPI)
- 0400 Hepatitis C: Hepatitis B vaccination (AMA PCPI)
- 0412 HIV/AIDS: Hepatitis B vaccination (AMA PCPI)
Figure 2-10: Process Measures (Immunizations) for Pneumonia Patients, 2006 –2010

<table>
<thead>
<tr>
<th>Measure</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>NQF 0149 – Influenza Vaccination</td>
<td>70%</td>
<td>75%</td>
<td>79%</td>
<td>85%</td>
<td>91%</td>
</tr>
</tbody>
</table>

Figure 5-2: Vaccination Rates for Chronic-Care Residents - Nursing Homes
**Figure 8-3: Influenza and Pneumonia Vaccination Rates, 2006–2010**

**NQF’s prior work on adult immunizations - 2008**

- 2008 Immunization project
  - 16 measures for influenza immunization
  - 11 measures for pneumococcal immunization
- Goal: a single global measure that applies to all settings and providers and settings of care
- Various approaches to measurement:
  - Assessment, refusals and vaccination combined in the numerator
  - Vaccination, refusal and contraindications as numerator categories
  - Refusals and contraindications as denominator exclusions
- Harmonization – essential
## Comparison of different approaches

<table>
<thead>
<tr>
<th></th>
<th>Provider 1 100 patients</th>
<th>Provider 2 100 patients</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Score includes assessed but not given due to decline or contraindication</td>
<td>82%</td>
<td>82%</td>
</tr>
<tr>
<td>2. Numerator categories</td>
<td>Received vaccine – 50% Declined - 27% Contraindications -5%</td>
<td>Received vaccine – 70% Declined – 10% Contraindications – 2%</td>
</tr>
<tr>
<td>3. Score using denominator exclusions for decline and contraindications</td>
<td>50/100-32 = 73.5%</td>
<td>70/100-12 = 79.5%</td>
</tr>
</tbody>
</table>

## Harmonization and alignment addressed by selecting a single approach for all measures

- Based on current ACIP guidelines and evidence
- A comprehensive measure to include all recommended populations to the extent they are measureable (denominator)
- Numerator categories:
  - Patients who received vaccine
  - Patients offered but declined vaccine
  - Patients with medical contraindications
- Standard time window
NQF Measure Evaluation Criteria

- Importance to measure and report
  - Impact
  - Opportunity for improvement
  - Evidence (relationship to patient outcomes)
- Scientific acceptability of the measure properties
  - Precise specifications, definitions, code lists
  - Testing for reliability and validity
  - Exclusions, risk adjustment, meaningful differences in results
- Usability
  - In use for public reporting and accountability purposes
  - Harmonization
- Feasibility
- Related and competing measures

Issues in immunization measurement

- Adding up setting-based measures does not provide an overall immunization rate
- Patient generated data may be better for population-level measurement (plans, systems, ACOs, geographic)
- Patient reports accepted to meet measure
- Multiple encounters (visits, hospitalization, home health care)
- Level of analysis
- Data sources
- Stratification for disparities
NQF “Call for Measures” for adult immunizations closes July 2, 2012

**Infectious Disease Endorsement Maintenance 2012**

- Call for new measures for adult immunization (except influenza and pneumonococal)
- Call for Implementation comments