This form contains the measure information submitted by stewards. Blank fields indicate no information was provided. Attachments also may have been submitted and are provided to reviewers. The sub-criteria and most of the footnotes from the evaluation criteria are provided in Word comments and will appear if your cursor is over the highlighted area (or in the margin if your Word program is set to show revisions in balloons). Hyperlinks to the evaluation criteria and ratings are provided in each section.

**TAP/Workgroup** (if utilized): Complete all yellow highlighted areas of the form. Evaluate the extent to which each sub-criterion is met. Based on your evaluation, summarize the strengths and weaknesses in each section.

**Note:** If there is no TAP or workgroup, the SC also evaluates the sub-criteria (yellow highlighted areas).

**Steering Committee:** Complete all pink highlighted areas of the form. Review the workgroup/TAP assessment of the sub-criterion, noting any areas of disagreement; then evaluate the extent to which each major criterion is met; and finally, indicate your recommendation for the endorsement. Provide the rationale for your ratings.

**Evaluation ratings of the extent to which the criteria are met**

- **C** = Completely (unquestionably demonstrated to meet the criterion)
- **P** = Partially (demonstrated to partially meet the criterion)
- **M** = Minimally (addressed BUT demonstrated to only minimally meet the criterion)
- **N** = Not at all (NOT addressed; OR incorrectly addressed; OR demonstrated to NOT meet the criterion)
- **NA** = Not applicable (only an option for a few sub-criteria as indicated)

---

### MEASURE DESCRIPTIVE INFORMATION

<table>
<thead>
<tr>
<th>De.1 Measure Title:</th>
<th>Ventriculoperitoneal (VP) shunt malfunction rate in children</th>
</tr>
</thead>
<tbody>
<tr>
<td>De.2 Brief description of measure:</td>
<td>This measure is a 30-day malfunction rate for hospitals that perform cerebrospinal ventriculoperitoneal shunt operations in children age 1 month to 18 years.</td>
</tr>
<tr>
<td>1.1-2 Type of Measure:</td>
<td>outcome</td>
</tr>
<tr>
<td>De.3 If included in a composite or paired with another measure, please identify composite or paired measure Not part of composite measure.</td>
<td></td>
</tr>
<tr>
<td>De.4 National Priority Partners Priority Area:</td>
<td>safety</td>
</tr>
<tr>
<td>De.5 IOM Quality Domain:</td>
<td>effectiveness</td>
</tr>
<tr>
<td>De.6 Consumer Care Need:</td>
<td>Living With Illness</td>
</tr>
</tbody>
</table>

---

### CONDITIONS FOR CONSIDERATION BY NQF

| A. The measure is in the public domain or an intellectual property (measure steward agreement) is signed. Public domain only applies to governmental organizations. All non-government organizations must sign a measure steward agreement even if measures are made publicly and freely available. |
|---|---|
| A.1 Do you attest that the measure steward holds intellectual property rights to the measure and the right to use aspects of the measure owned by another entity (e.g., risk model, code set)? | **Yes** |
| A.2 Indicate if Proprietary Measure (as defined in measure steward agreement): | **A** |
| A.3 Measure Steward Agreement: | agreement signed and submitted |
| A.4 Measure Steward Agreement attached: | NQF Measure Stewards-634006439520931084.pdf |

Rating: **C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable**
B. The measure owner/steward verifies there is an identified responsible entity and process to maintain and update the measure on a schedule that is commensurate with the rate of clinical innovation, but at least every 3 years.   Yes, information provided in contact section

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<tr>
<th>B</th>
<th>Y</th>
<th>N</th>
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C. The intended use of the measure includes both public reporting and quality improvement.

- **Purpose:** public reporting, quality improvement 0,0,0,

<table>
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<tr>
<th>C</th>
<th>Y</th>
<th>N</th>
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</thead>
</table>

D. The requested measure submission information is complete. Generally, measures should be fully developed and tested so that all the evaluation criteria have been addressed and information needed to evaluate the measure is provided. Measures that have not been tested are only potentially eligible for a time-limited endorsement and in that case, measure owners must verify that testing will be completed within 24 months of endorsement.

<table>
<thead>
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<th>D</th>
<th>Y</th>
<th>N</th>
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</thead>
</table>

D.1 Testing: No, testing will be completed within 24 months

D.2 Have NQF-endorsed measures been reviewed to identify if there are similar or related measures? Yes

(for NQF staff use) Have all conditions for consideration been met?

Staff Notes to Steward (if submission returned):

Staff Notes to Reviewers (issues or questions regarding any criteria):

Staff Reviewer Name(s):

---

**TAP/Workgroup Reviewer Name:**

**Steering Committee Reviewer Name:**

**1. IMPORTANCE TO MEASURE AND REPORT**

**Evaluation Criteria:**

- Extent to which the specific measure focus is important to making significant gains in health care quality (safety, timeliness, effectiveness, efficiency, equity, patient-centeredness) and improving health outcomes for a specific high impact aspect of healthcare where there is variation in or overall poor performance.

**Measures must be judged to be important to measure and report in order to be evaluated against the remaining criteria.**

---

**1a. High Impact**

(for NQF staff use) Specific NPP goal:

- **1a.1** Demonstrated High Impact Aspect of Healthcare: a leading cause of morbidity/mortality

- **1a.2**

- **1a.3** Summary of Evidence of High Impact: Children who require on-going cerebrospinal fluid diversion with a ventricular shunt have a major risk of morbidity and mortality. These children are experiencing high rates of life-threatening shunt malfunction.

- **1a.4** Citations for Evidence of High Impact:

---

**1b. Opportunity for Improvement**

- **1b.1** Benefits (improvements in quality) envisioned by use of this measure: Ventricular shunt

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable
malfunction places children at risk for potentially irreversible neurologic system deficits and death if not treated promptly. Shunt malfunction treatment is associated with the need for hospitalization and re-operation. The hospitalization itself is disruptive to the child and family, which may lead to impaired quality of life. The need for re-operation places the child at additional risk for central nervous system infection and other adverse events.

1b.2 Summary of data demonstrating performance gap (variation or overall poor performance) across providers:
Despite advances in ventricular shunt care, analyses continue to demonstrate wide variation in shunt malfunction rates among different institutions.

1b.3 Citations for data on performance gap:


1b.4 Summary of Data on disparities by population group:
Variation in shunt malfunction rates has been demonstrated across racial/ethnic groups.

1b.5 Citations for data on Disparities:

1c. Outcome or Evidence to Support Measure Focus

1c.1 Relationship to Outcomes (For non-outcome measures, briefly describe the relationship to desired outcome. For outcomes, describe why it is relevant to the target population): Children who require ongoing cerebrospinal fluid diversion with a ventricular shunt have a major risk of morbidity and mortality. These children are experiencing high rates of life-threatening shunt malfunction that is contributing to increased inpatient resource utilization, higher healthcare costs, and impaired quality of life. The Institute of Medicine highlights the importance of evaluating and lowering the risk of medical device-related complications, such as ventricular shunts.

1c.2-3. Type of Evidence:

1c.4 Summary of Evidence (as described in the criteria; for outcomes, summarize any evidence that healthcare services/care processes influence the outcome): N/A

1c.5 Rating of strength/quality of evidence (also provide narrative description of the rating and by whom): N/A

1c.6 Method for rating evidence: N/A
### 1c.7 Summary of Controversy/Contradictory Evidence: N/A

### 1c.8 Citations for Evidence (other than guidelines): N/A

### 1c.9 Quote the Specific guideline recommendation (including guideline number and/or page number): N/A

### 1c.10 Clinical Practice Guideline Citation: N/A

### 1c.11 National Guideline Clearinghouse or other URL: N/A

### 1c.12 Rating of strength of recommendation (also provide narrative description of the rating and by whom): N/A

### 1c.13 Method for rating strength of recommendation (If different from USPSTF system, also describe rating and how it relates to USPSTF): N/A

### 1c.14 Rationale for using this guideline over others: N/A

**TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Importance to Measure and Report?**

**Steering Committee: Was the threshold criterion, Importance to Measure and Report, met?**

<table>
<thead>
<tr>
<th>Rationale:</th>
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### 2. SCIENTIFIC ACCEPTABILITY OF MEASURE PROPERTIES

Extent to which the measure, as specified, produces consistent (reliable) and credible (valid) results about the quality of care when implemented. (evaluation criteria)

**Eval Rating**

**2a. MEASURE SPECIFICATIONS**

**S.1 Do you have a web page where current detailed measure specifications can be obtained?**

**S.2 If yes, provide web page URL:**

**2a. Precisely Specified**

#### 2a.1 Numerator Statement (Brief, text description of the numerator - what is being measured about the target population, e.g. target condition, event, or outcome):

The number of initial cerebrospinal VP shunt placement procedures performed on children between the ages of 1 month and 18 years of age that malfunction and result in shunt revision or replacement within 30 days of initial placement.

#### 2a.2 Numerator Time Window (The time period in which cases are eligible for inclusion in the numerator):

Within 30 days of initial VP shunt placement.

#### 2a.3 Numerator Details (All information required to collect/calculate the numerator, including all codes, logic, and definitions):

Number of cases of initial VP shunt placement ICD-9 procedure code 02.34 (Ventricular shunt to abdominal cavity and organs) among patients between the ages of 1 month and 18 years at the time of placement resulting in malfunction characterized by a shunt revision or replacement within 30 days of initial procedure.

Shunt malfunction is identified by ICD-9 procedure codes 02.42 (Replacement of ventricular catheter or revision of ventriculoperitoneal shunt at ventricular site), 54.95 (Incision of Peritoneum— revision of VP shunt at peritoneal site), or the combination of codes 02.43 (Removal of ventricular shunt) and 02.34...
(Ventricular shunt to abdominal cavity and organs) during the same admission.

2a.4 Denominator Statement (Brief, text description of the denominator - target population being measured):
The total number of initial cerebrospinal VP shunt procedures performed on children between the ages of 1 month and 18 years.

2a.5 Target population gender: Female, Male
2a.6 Target population age range: Children between the ages of 1 month and 18 years.

2a.7 Denominator Time Window (The time period in which cases are eligible for inclusion in the denominator):
Within 30 days of initial VP shunt placement.

2a.8 Denominator Details (All information required to collect/calculate the denominator - the target population being measured - including all codes, logic, and definitions):
The total number of initial VP shunt placements (ICD-9 procedure code 02.34) among patients between the ages of 1 month and 18 years at the time of procedure.

2a.9 Denominator Exclusions (Brief text description of exclusions from the target population):
Children < 30 days of age at time of procedure and children with a diagnosis of spina bifida (ICD-9 diagnosis code beginning with 741).

2a.10 Denominator Exclusion Details (All information required to collect exclusions to the denominator, including all codes, logic, and definitions):
Published data has shown that children under a month of age or with a diagnosis of spina bifida are at higher risk for sustaining a cerebrospinal VP shunt malfunction compared with older children and children without spina bifida. Excluding children with these characteristics helps standardize the case-mix of children requiring cerebrospinal fluid diversion with a VP shunt across hospitals.

Citations:

2a.11 Stratification Details/Variables (All information required to stratify the measure including the stratification variables, all codes, logic, and definitions):
N/A

2a.12-13 Risk Adjustment Type: no risk adjustment necessary

2a.14 Risk Adjustment Methodology/Variables (List risk adjustment variables and describe conceptual models, statistical models, or other aspects of model or method):
N/A

2a.15-17 Detailed risk model available Web page URL or attachment:

2a.18-19 Type of Score: rate/proportion
2a.20 Interpretation of Score: better quality = lower score
2a.21 Calculation Algorithm (Describe the calculation of the measure as a flowchart or series of steps):
The measure is a 30-day VP shunt malfunction rate defined as the proportion of shunt revisions or replacements within 30 days over the number of initial cerebrospinal VP shunt placement procedures performed on children between the ages of 1 month and 18 years. Because of documented increased risk for complications, patients with a diagnosis of Spina Bifida will be excluded from the analysis. In order to stabilize the rates due to small number of events, the measure will be presented as a 3-year rolling rate. The benchmark for each year is the mean VP malfunction rate of all participating pediatric hospitals in the
Pediatric Health Information System PHIS dataset.

2a.22 Describe the method for discriminating performance (e.g., significance testing): 95% confidence intervals will be calculated.

2a.23 Sampling (Survey) Methodology If measure is based on a sample (or survey), provide instructions for obtaining the sample, conducting the survey and guidance on minimum sample size (response rate): Not Specified. However VP Malfunction rate will be presented as a 3 year rolling rate in order to account for fluctuations due to small number of events.

2a.24 Data Source (Check the source(s) for which the measure is specified and tested) Management data, Electronic administrative data/claims

2a.25 Data source/data collection instrument (Identify the specific data source/data collection instrument, e.g. name of database, clinical registry, collection instrument, etc.): Pediatric Health Information System (PHIS)

PHIS is an administrative database that contains inpatient, emergency department and ambulatory surgery data from 42 not-for-profit, tertiary care pediatric hospitals in the United States. These hospitals are affiliated with the Child Health Corporation of America. Data quality and reliability are assured through a joint effort between the Child Health Corporation of America and participating hospitals.

2a.26-28 Data source/data collection instrument reference web page URL or attachment: Attachment 2a.28 PHIS Summary-634021876715516737.doc

2a.29-31 Data dictionary/code table web page URL or attachment: Attachment 2a.29 PHIS Data Dictionary Oct 2009.xls

2a.32-35 Level of Measurement/Analysis (Check the level(s) for which the measure is specified and tested) Can be measured at all levels

2a.36-37 Care Settings (Check the setting(s) for which the measure is specified and tested) Hospital

2a.38-41 Clinical Services (Healthcare services being measured, check all that apply) Clinicians: Physicians (MD/DO)

TESTING/ANALYSIS

2b. Reliability testing

2b.1 Data/sample (description of data/sample and size): Formal testing of reliability/repeatability has not yet been performed.

2b.2 Analytic Method (type of reliability & rationale, method for testing): N/A

2b.3 Testing Results (reliability statistics, assessment of adequacy in the context of norms for the test conducted): N/A

2c. Validity testing

2c.1 Data/sample (description of data/sample and size): Formal validation has not yet been performed.

2c.2 Analytic Method (type of validity & rationale, method for testing): N/A

2c.3 Testing Results (statistical results, assessment of adequacy in the context of norms for the test conducted): N/A

Rating: C=Completely; P=Partially; M=Minimally; N=Not at all; NA=Not applicable
2d. **Exclusions Justified**

2d.1 **Summary of Evidence supporting exclusion(s):**
Spina Bifida diagnosis [ICD-9-CM codes 741.XX] is a risk factor for VP shunt malfunction. Neonates that are one month of age or less may receive different cerebrospinal fluid diversion treatment modalities beyond VP shunt depending on hospital and surgeon practice.

2d.2 **Citations for Evidence:**

2d.3 **Data/sample (description of data/sample and size):** PHIS pediatric database (Time frame: January 2004 through September 2009).

2d.4 **Analytic Method (type analysis & rationale):**
Logistic Regression analysis.

2d.5 **Testing Results (e.g., frequency, variability, sensitivity analyses):**
Logistic regression analysis using a sample size of 8,879 from the PHIS database (time frame: January 2004 through September 30, 2009) shows a strong association between a diagnosis of Spina Bifida and VP shunt malfunction—[OR 1.82 (1.60, 2.07) p<0.0001] among children between the ages of 1 month and 18 years undergoing initial cerebrospinal VP shunt placement.

---

2e. **Risk Adjustment for Outcomes/ Resource Use Measures**

2e.1 **Data/sample (description of data/sample and size):** N/A

2e.2 **Analytic Method (type of risk adjustment, analysis, & rationale):** N/A

2e.3 **Testing Results (risk model performance metrics):** N/A

2e.4 If outcome or resource use measure is not risk adjusted, provide rationale: N/A

---

2f. **Identification of Meaningful Differences in Performance**

2f.1 **Data/sample from Testing or Current Use (description of data/sample and size):** PHIS Database 2004 through September 30 2009; 7679 procedures performed at 42 institutions, each with > 50 eligible surgical cases for the time period. Trend analysis based on 3 year intervals. The combined VP malfunction rate of our institution (Children’s Hospital Boston) and all other PHIS participating hospitals serve as the benchmark. Meaningful differences between CHB and the benchmark will be assessed as 3 year intervals.

2f.2 **Methods to identify statistically significant and practically/meaningfully differences in performance (type of analysis & rationale):**
The measure is a 30-day VP shunt malfunction rate defined as the proportion of shunt revisions or replacements within 30 days over the number of initial cerebrospinal VP shunt placement procedures performed on children between the ages of 1 month and 18 years. Because of documented increased risk for complications, patients with a diagnosis of Spina Bifida will be excluded from the analysis. In order to stabilize the rates due to small number of events, the measure will be presented as a 3-year rolling rate. The benchmark for each year is the mean VP malfunction rate of all participating pediatric hospitals in the Pediatric Health Information System PHIS dataset.

2f.3 **Provide Measure Scores from Testing or Current Use (description of scores, e.g., distribution by quartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance):**
Table 1 (Attached Item 2f.3) presents trends of 30-day VP Malfunction Rates for our institution (CHB) and the benchmark of all PHIS hospitals over 3 year intervals beginning in CY08. Our institution’s malfunction
rates do not differ significantly from the PHIS benchmark. The trend data presented in Figure 1 show that CHB’s annual malfunction rates do not differ significantly from year to year.

### 2g. Comparability of Multiple Data Sources/Methods

#### 2g.1 Data/sample (description of data/sample and size): N/A

#### 2g.2 Analytic Method (type of analysis & rationale):

Formal evaluation of comparability of multiple data sources has not been performed. However, this measure was designed such that it could be implemented using a variety of different data sources.

#### 2g.3 Testing Results (e.g., correlation statistics, comparison of rankings):

N/A

### 2h. Disparities in Care

#### 2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts): N/A

#### 2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans:

N/A

TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Scientific Acceptability of Measure Properties?

Steering Committee: Overall, to what extent was the criterion, Scientific Acceptability of Measure Properties, met?

Rationale:

### 3. Usability

Extent to which intended audiences (e.g., consumers, purchasers, providers, policy makers) can understand the results of the measure and are likely to find them useful for decision making. (evaluation criteria)

#### 3a. Meaningful, Understandable, and Useful Information

#### 3a.1 Current Use: in use

#### 3a.2 Use in a public reporting initiative (disclosure of performance results to the public at large) (If used in a public reporting initiative, provide name of initiative(s), locations, Web page URL(s). If not publicly reported, state the plans to achieve public reporting within 3 years):

Not currently used for public reporting; however we will develop a plan which hopefully will include the time-limited endorsement of NQF and professional societies.

#### 3a.3 If used in other programs/initiatives (If used in quality improvement or other programs/initiatives, name of initiative(s), locations, Web page URL(s). If not used for QI, state the plans to achieve use for QI within 3 years):

VP Shunt Malfunction is a performance outcome metric presented in our institution’s internal bi-annual Comprehensive Quality Report prepared by the Program for Patient Safety and Quality and disseminated to senior leadership and stakeholders.

Testing of Interpretability (Testing that demonstrates the results are understood by the potential users for public reporting and quality improvement)

#### 3a.4 Data/sample (description of data/sample and size): N/A

#### 3a.5 Methods (e.g., focus group, survey, QI project):

Testing of interpretability not performed.

#### 3a.6 Results (qualitative and/or quantitative results and conclusions):

N/A
### 3b/3c. Relation to other NQF-endorsed measures

3b.1 NQF # and Title of similar or related measures:
No similar measure.

(For NQF staff use) Notes on similar/related endorsed or submitted measures:

3b. Harmonization
If this measure is related to measure(s) already endorsed by NQF (e.g., same topic, but different target population/setting/data source or different topic but same target population):
3b.2 Are the measure specifications harmonized? If not, why?
N/A

3c. Distinctive or Additive Value
3c.1 Describe the distinctive, improved, or additive value this measure provides to existing NQF-endorsed measures:
N/A

5.1 Competing Measures If this measure is similar to measure(s) already endorsed by NQF (i.e., on the same topic and the same target population), describe why it is a more valid or efficient way to measure quality:
N/A

TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Usability?

Steering Committee: Overall, to what extent was the criterion, Usability, met?
Rationale:

### 4. FEASIBILITY

Extent to which the required data are readily available, retrievable without undue burden, and can be implemented for performance measurement. (evaluation criteria)

<table>
<thead>
<tr>
<th>4a. Data Generated as a Byproduct of Care Processes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4a.1-2 How are the data elements that are needed to compute measure scores generated? (data generated as byproduct of care processes during delivery, coding/abstraction performed by someone other than person obtaining original information, other Electronic medical record)</td>
</tr>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

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<tr>
<th>4b. Electronic Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>4b.1 Are all the data elements available electronically? (elements that are needed to compute measure scores are in defined, computer-readable fields, e.g., electronic health record, electronic claims)</td>
</tr>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

| 4b.2 If not, specify the near-term path to achieve electronic capture by most providers. |

<table>
<thead>
<tr>
<th>4c. Exclusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4c.1 Do the specified exclusions require additional data sources beyond what is required for the numerator and denominator specifications?</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>

| 4c.2 If yes, provide justification. |

<table>
<thead>
<tr>
<th>4d. Susceptibility to Inaccuracies, Errors, or Unintended Consequences</th>
</tr>
</thead>
</table>
4d.1 Identify susceptibility to inaccuracies, errors, or unintended consequences of the measure and describe how these potential problems could be audited. If audited, provide results. PHIS is an administrative database and can be subject to coding inaccuracies and limitations. We are able to match our institution’s cases in the PHIS database with our internal data system in order to assess accuracy.

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4e. Data Collection Strategy/Implementation

4e.1 Describe what you have learned/modified as a result of testing and/or operational use of the measure regarding data collection, availability of data/missing data, timing/frequency of data collection, patient confidentiality, time/cost of data collection, other feasibility/implementation issues:

Not yet done.

4e.2 Costs to implement the measure (costs of data collection, fees associated with proprietary measures):

Cost is minimal if the hospital contains an existing database that contains the ICD-9 procedure and diagnostic codes for each admission.

4e.3 Evidence for costs:
N/A

4e.4 Business case documentation: N/A

TAP/Workgroup: What are the strengths and weaknesses in relation to the sub-criteria for Feasibility?

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RECOMMENDATION

(for NQF staff use) Check if measure is untested and only eligible for time-limited endorsement.

Steering Committee: Do you recommend for endorsement?

Comments:

```
Y N A
```
<table>
<thead>
<tr>
<th>Workgroup/Expert Panel involved in measure development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ad.1 Provide a list of sponsoring organizations and workgroup/panel members’ names and organizations. Describe the members’ role in measure development.</td>
</tr>
<tr>
<td>Jay Berry, MD, MPH</td>
</tr>
<tr>
<td>Liliana Goumnerova, MD</td>
</tr>
</tbody>
</table>

| If adapted, provide name of original measure: | N/A |
|------------------------------------------------|

<table>
<thead>
<tr>
<th>If adapted, provide original specifications URL or attachment</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Measure Developer/Steward Updates and Ongoing Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ad.6 Year the measure was first released: 2006</td>
</tr>
<tr>
<td>Ad.7 Month and Year of most recent revision: 2009-12</td>
</tr>
<tr>
<td>Ad.8 What is your frequency for review/update of this measure? Bi-annual review</td>
</tr>
<tr>
<td>Ad.9 When is the next scheduled review/update for this measure? 2010-06</td>
</tr>
</tbody>
</table>

| Copyright statement/disclaimers: | N/A |
|----------------------------------|

| Additional Information web page URL or attachment: | Attachment 2f.3 Measure Scores.doc |
|-----------------------------------------------------|

| Date of Submission (MM/DD/YY): | 02/19/2010 |