1. Impact, Opportunity, Evidence—Importance to Measure and Report Extent to which the specific measure focus is evidence-based, important to making significant gains in healthcare quality, and improving health outcomes for a specific high-impact aspect of healthcare where there is variation in or overall less-than-optimal performance. Measures must be judged to meet all three subcriteria to pass this criterion and be evaluated against the remaining criteria. Yes No Guidance-Table 3
1a. High Impact H M L I Definitions-Table 5 The measure focus addresses:
• a specific national health goal/priority identified by DHHS or the National Priorities Partnership convened by NQF;
OR
• a demonstrated high-impact aspect of healthcare (e.g., affects large numbers of patients and/or has a substantial impact for a smaller population; leading cause of morbidity/mortality; high resource use (current and/or future); severity of illness; and severity of patient/societal consequences of poor quality).
AND
1b. Performance Gap H M L I Definitions-Table 5 Demonstration of quality problems and opportunity for improvement, i.e., data² demonstrating considerable variation, or overall less-than-optimal performance, in the quality of care across providers and/or population groups (disparities in care).
AND
1c. Evidence to Support the Measure Focus Quantity: Yes No Guidance-Table 3 Quantity: H M L I Quality: H M L I Consistency: H M L I Guidance-Table 2 The measure focus is a health outcome or is evidence-based, demonstrated as follows: Guidance-Table 1 • Health outcome: a rationale supports the relationship of the health outcome to processes or structures of care. • Intermediate clinical outcome, Process, 4 or Structure: a systematic assessment and grading of the quantity, quality, and consistency of the body of evidence that the measure focus leads to a desired health outcome. • Patient experience with care: evidence that the measured aspects of care are those valued by patients and for which the patient is the best and/or only source of information OR that patient experience with care is correlated with desired outcomes. • Efficiency: evidence for the quality component as noted above.
Notes 2. Examples of data on opportunity for improvement include, but are not limited to: prior studies, epidemiologic data, or data from pilot testing or implementation of the proposed measure. If data are not available, the measure focus is systematically

- assessed (e.g., expert panel rating) and judged to be a quality problem.
- 3. Generally, rare event outcomes do not provide adequate information for improvement or discrimination; however, serious reportable events that are compared to zero are appropriate outcomes for public reporting and quality improvement.
- **4.** Clinical care processes typically include multiple steps: assess → identify problem/potential problem → choose/plan intervention (with patient input) \rightarrow provide intervention \rightarrow evaluate impact on health status. If the measure focus is one step in such a multistep process, the step with the strongest evidence for the link to the desired outcome should be selected as the focus of measurement.
- 5. The preferred systems for grading the evidence are the U.S. Preventive Services Task Force (USPSTF) grading definitions and methods, or Grading of Recommendations, Assessment, Development and Evaluation (GRADE) guidelines.
- 6. Measures of efficiency combine the concepts of resource use and quality (NQF's Measurement Framework: Evaluating Efficiency Across Episodes of Care; AQA Principles of Efficiency Measures).

Measure Evaluation Criteria and Guidance Summary Tables Effective for Projects Beginning after January 2011

Guidance on Evaluating Importance to Measure and Report

For more information, see: <u>Guidance for Evaluating the Evidence Related to the Focus of Quality Measurement and Importance to Measure and Report</u>

Table 1: Evidence to Support the Focus of Measurement

Type of Measure	Evidence	Example of Measure Type and Evidence to Be Addressed
Health Outcome An outcome of care is the health status of a patient	A rationale supports the relationship of the health outcome to at least one healthcare structure, process, intervention, or service.	#0230 Acute myocardial Infarction 30-day mortality
(or change in health status) resulting from healthcare— desirable or	See Table 5.	Survival is a goal of seeking and providing treatment for AMI.
adverse. In some situations,		Rationale linking healthcare processes/ interventions (aspirin, reperfusion) to mortality/ survival
resource use may be considered a proxy for a		#0171 Acute care hospitalization (risk-
health state (e.g., hospitalization may		adjusted) [of home care patients]
represent deterioration in health status).		Improvement or stabilization of condition to remain at home is a goal of seeking and providing home care services.
		Rationale linking healthcare processes (e.g., medication reconciliation, care coordination) to hospitalization of patients receiving home care services
		#0140 Ventilator-associated pneumonia for ICU and high-risk nursery (HRN) patients
		Avoiding harm from treatment is a goal when seeking and providing healthcare.
		Rationale linking healthcare processes (e.g., ventilator bundle) to ventilator acquired pneumonia
Intermediate Clinical Outcome An intermediate outcome	Quantity, quality, and consistency of a body of evidence that the measured intermediate clinical outcome leads to a	#0059 Hemoglobin A1c management [A1c > 9]
is a change in physiologic	desired health outcome.	Evidence that hemoglobin A1c level leads
state that leads to a longer-term health outcome.	See Table 4.	to health outcomes (e.g., prevention of renal disease, heart disease, amputation, mortality)
Process	Quantity, quality, and consistency of a	#0551 ACE inhibitor/Angiotensin receptor
A process of care is a	body of evidence that the measured	blocker (ARB) use and persistence among
healthcare-related activity performed for, on behalf	healthcare process leads to desired health outcomes in the target population with	members with coronary artery disease at high risk for coronary events
of, or by a patient.	benefits that outweigh harms to patients.	Evidence that use of ACE-I and ARB

Type of Measure	Evidence	Example of Measure Type and Evidence to Be Addressed
	Specific drugs and devices should have FDA approval for the target condition.	results in lower mortality and/or cardiac events
	If the measure focus is on inappropriate use, then quantity, quality, and consistency	#0058 Inappropriate antibiotic treatment for adults with acute bronchitis
	of a body of evidence that the measured healthcare process does <i>not</i> lead to desired health outcomes in the target population. See Table 4.	Evidence that antibiotics are not effective for acute bronchitis
Structure	Quantity, quality, and consistency of a	#0190 Nurse staffing hours
Structure of care is a feature of a healthcare organization or clinician related to its capacity to provide high-quality healthcare.	body of evidence that the measured healthcare structure leads to desired health outcomes with benefits that outweigh harms (including evidence for the link to effective care processes and the link from the care processes to desired health outcomes).	Evidence that higher nursing hours result in lower mortality or morbidity, or leads to provision of effective care processes (e.g., lower medication errors) that lead to better outcomes
Special Considerations b	See Table 4.	
	Evidence that the measured aspects of	#0166 HCAHPS
Care	care are those valued by patients and for which the patient is the best and/or only source of information (often acquired through qualitative studies) OR • Evidence that patient experience with care is correlated with desired outcomes	Evidence that patients/consumers value the aspects of care being measured (e.g., communication with doctors and nurses, responsiveness of hospital staff, pain control, communication about medicines, cleanliness and quiet of the hospital environment, and discharge information)
Efficiency	Efficiency measured with combination of	Currently, there are no NQF-endorsed
Measures of efficiency combine the concepts of resource use <i>and</i> quality	quality measures and resource use measures	efficiency measures that combine quality and resource use.
	Quality measure component:	Potential measure: Diabetes quality
	Evidence for the selected quality measure(s) as described in this table	measure(s) or composite used in conjunction with a measure of resource use per episode
	Resource use measure component:	
	Does not require clinical evidence as described in this table	Evidence for diabetes quality measure(s) as described in this table

Table 2: Evaluation of Quantity, Quality, and Consistency of Body of Evidence for Structure, Process, and Intermediate Outcome Measures

Definition/	Quantity of Body of Evidence	Quality of Rody of Evidence	Consistency of Results of Body of Evidence
Pating Definition	Total number of studies (not articles or papers)	Quality of Body of Evidence Certainty or confidence in the estimates of benefits and harms to patients across studies in the body of evidence related to study factors including: study design or flaws; directness/indirectness to the specific measure (regarding the population, intervention, comparators, outcomes); imprecision (wide confidence intervals due to few patients or events)	Stability in both the direction and magnitude of clinically/practically meaningful benefits and harms to patients (benefit over harms) across studies in the body of evidence
High	5+ studies ^b	Randomized controlled trials (RCTs) providing direct evidence for the specific measure focus, with adequate size to obtain precise estimates of effect, and without serious flaws that introduce bias	Estimates of clinically/practically meaningful benefits and harms to patients are consistent in direction and similar in magnitude across the preponderance of studies in the body of evidence
Moderate	2-4 studies ^b	Non-RCTs with control for confounders that could account for other plausible explanations, with large, precise estimate of effect OR RCTs without serious flaws that introduce bias, but with either indirect evidence or imprecise estimate of effect	Estimates of clinically/practically meaningful benefits and harms to patients are consistent in direction across the preponderance of studies in the body of evidence, but may differ in magnitude If only one study, then the estimate of benefits greatly outweighs the estimate of potential harms to patients (one study cannot achieve high consistency rating)
Low	0-1 studies ^b	RCTs with flaws that introduce bias OR Non-RCTs with small or imprecise estimate of effect, or without control for confounders that could account for other plausible explanations	Estimates of clinically/practically meaningful benefits and harms to patients differ in both direction and magnitude across the preponderance of studies in the body of evidence OR wide confidence intervals prevent estimating net benefit If only one study, then estimate of benefits do not greatly outweigh harms to patients
Insufficient to Evaluate (See Table 5 for exceptions.)	 No empirical evidence OR Only selected studies from a larger body of evidence 	 No empirical evidence OR Only selected studies from a larger body of evidence 	No assessment of magnitude and direction of benefits and harms to patients

^aStudy designs that affect certainty of confidence in estimates of effect include: randomized controlled trials (RCTs), which control for both observed and unobserved confounders, and non-RCTs (observational studies) with various levels of control for confounders.

Measure Evaluation Criteria and Guidance Summary Tables Effective for Projects Beginning after January 2011

Study flaws that may bias estimates of effect include: lack of allocation concealment; lack of blinding; large losses to followup; failure to adhere to intention to treat analysis; stopping early for benefit; and failure to report important outcomes. Imprecision with wide confidence intervals around estimates of effects can occur in studies involving few patients and few events.

Indirectness of evidence includes: indirect comparisons (e.g., two drugs compared to placebos rather than head-to head); and differences between the population, intervention, comparator interventions, and outcome of interest and those included in the relevant studies. ¹⁵

The suggested number of studies for rating levels of quantity is considered a general guideline.

Table 3: Evaluation of Subcriterion 1c Based on the Quantity, Quality, and Consistency of the **Body of Evidence**

			1
Quantity of Body of Evidence	Quality of Body of Evidence	Consistency of Results of Body of Evidence	Pass Subcriterion 1c
Moderate-High	Moderate-High	Moderate-High	Yes
Low	Moderate-High	Moderate (if only one study, high consistency not possible)	Yes, but only if it is judged that additional research is unlikely to change conclusion that benefits to patients outweigh harms; otherwise, No
Moderate-High	Low	Moderate-High	Yes, but only if it is judged that potential benefits to patients clearly outweigh potential harms; otherwise, No
Low-Moderate-High	Low-Moderate- High	Low	No
Low	Low	Low	No
Exception to Empirical Body of Evidence for Health Outcome For a health outcome measure: A rationale supports the relationship of the health outcome to at least one healthcare structure, process, intervention, or service			Yes, if it is judged that the rationale supports the relationship of the health outcome to at least one healthcare structure, process, intervention, or service
Potential Exception to Empirical Body of Evidence for Other Types of Measures If there is no empirical evidence, expert opinion is systematically assessed with agreement that the benefits to patients greatly outweigh potential harms.			Yes, but only if it is judged that potential benefits to patients clearly outweigh potential harms; otherwise, No

Table 4: Evidence for Evaluating Importance to Measure and Report

	Importance to Measure and Repor		
	iteria (1a, 1b, 1c) must be met to pa	ass the threshold criterion, Important	ce to Measure and
Report.			Pass the
Subcriterion	Evidence	Example	Subcriterion?
High impact (1a)	Addresses a specific national health goal/priority identified by the Secretary of DHHS or the NPP OR Epidemiologic or resource use data; health services research – affects large numbers of patients and/or has a very substantial impact for smaller populations; leading cause of morbidity/mortality; high resource use (current and/or future); severity of illness; and patient/societal consequences of poor quality	#0140 Ventilator-associated pneumonia for ICU and high-risk nursery (HRN) patients NPP goal: Focus relentlessly on continually reducing and seeking to eliminate all healthcare-associated infections (HAIs) Evidence related to numbers of patients (e.g., 250,205 VAPs reported; 35,969 (14.4%) were fatal; cost (e.g., total annual cost of VAP \$2.5 billion)	Yes— Demonstrated at least one of the aspects of high impact (High or moderate rating described in Table 5) No—Did not demonstrate at least one of the aspects of high impact
Opportunity for improvement (1b)	Initial Endorsement Epidemiologic or resource use data or health services research demonstrating considerable variation or overall less than optimal performance for the focus of measurement across providers and/or population groups (disparities in care) Review for Endorsement Maintenance Data for the measure as specified and endorsed demonstrating considerable variation or overall less than optimal performance	#0432 Influenza vaccination of nursing home/skilled nursing facility residents NPP goal: All Americans will receive the most effective preventive services recommended by the U.S. Preventive Services Task Force. Evidence that vaccination rates vary (e.g., 39% fail to reach the Healthy People 2010 objective of vaccinating at least 90% of nursing home residents)	Yes— Demonstrated either variation or overall less than optimal performance (High or moderate rating described in Table 5) No—Did not demonstrate either variation or overall less than optimal performance
Evidence for the focus of measurement (1c)	See Table 2	See Table 2	See Table 2 and Table 3

Table 5: Generic Scale for Rating Subcriteria 1a and 1b

Rating	Definition
High	Based on the information submitted, there is high confidence (or certainty) that the criterion is met
Moderate	Based on the information submitted, there is moderate confidence (or certainty) that the criterion is met
Low	Based on the information submitted, there is low confidence (or certainty) that the criterion is met
Insufficient	There is insufficient information submitted to evaluate whether the criterion is met (e.g., blank, incomplete, or not relevant, responsive, or specific to the particular question)