**NATIONAL QUALITY FORUM**

*Measure Submission and Evaluation Worksheet 5.0*

This form contains the information submitted by measure developers/stewards, organized according to NQF's measure evaluation criteria and process. The evaluation criteria, evaluation guidance documents, and a blank online submission form are available on the [submitting standards web page](#).

<table>
<thead>
<tr>
<th>NQF #: 1821</th>
<th>NQF Project: Healthcare Disparities Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>(for Endorsement Maintenance Review)</td>
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<tr>
<td>Original Endorsement Date:</td>
<td>Most Recent Endorsement Date:</td>
</tr>
</tbody>
</table>

### BRIEF MEASURE INFORMATION

**De.1 Measure Title:** L2: Patients receiving language services supported by qualified language services providers

**Co.1.1 Measure Steward:** Department of Health Policy, George Washington University School of Public Health and Health Services

**De.2 Brief Description of Measure:** This measure is used to assess the percentage of limited English-proficient (LEP) patients receiving both initial assessment and discharge instructions supported by assessed and trained interpreters or from bilingual providers and bilingual workers/employees assessed for language proficiency.

Interpreter services are frequently provided by untrained individuals, or individuals who have not been assessed for their language proficiency, including family members, friends, and other employees. Research has demonstrated that the likely results of using untrained interpreters or friends, family, and associates are an increase in medical errors, poorer patient-provider communication, and poorer follow-up and adherence to clinical instructions. The measure provides information on the extent to which language services are provided by trained and assessed interpreters or assessed bilingual providers and bilingual workers/employees during critical times in a patient's health care experience.

**2a1.1 Numerator Statement:** The number of limited English-proficient (LEP) patients with documentation they received the initial assessment and discharge instructions supported by trained and assessed interpreters, or from bilingual providers and bilingual workers/employees assessed for language proficiency.

**2a1.4 Denominator Statement:** Total number of patients that stated a preference to receive their spoken health care in a language other than English.

**2a1.8 Denominator Exclusions:**

- All patients stating a preference to receive spoken health care in English.
- Patients who leave without being seen.
- Patients who leave against medical advice prior to the initial assessment.

**1.1 Measure Type:** Process

**2a1.25-26 Data Source:** Electronic Clinical Data, Electronic Clinical Data: Electronic Health Record, Management Data, Paper Records

**2a1.33 Level of Analysis:** Clinician: Group/Practice, Facility

**1.2-1.4 Is this measure paired with another measure?** No

**De.3 If included in a composite, please identify the composite measure (title and NQF number if endorsed):**

### STAFF NOTES (issues or questions regarding any criteria)

**Comments on Conditions for Consideration:**

**Is the measure untested?** Yes □ No □ If untested, explain how it meets criteria for consideration for time-limited

See Guidance for Definitions of Rating Scale: H=High; M=Moderate; L=Low; I=Insufficient; NA=Not Applicable
endorsement:

1a. Specific national health goal/priority identified by DHHS or NPP addressed by the measure (check De.5):
5. Similar/related endorsed or submitted measures (check 5.1):

Other Criteria:

Staff Reviewer Name(s):

### 1. IMPACT, OPPORTUNITY, EVIDENCE - IMPORTANCE TO MEASURE AND REPORT

Importance to Measure and Report is a threshold criterion that must be met in order to recommend a measure for endorsement. All three subcriteria must be met to pass this criterion. See guidance on evidence. Measures must be judged to be important to measure and report in order to be evaluated against the remaining criteria. (evaluation criteria)

#### 1a. High Impact:  
**H** □  **M** □  **L** □  **I** □
(The measure directly addresses a specific national health goal/priority identified by DHHS or NPP, or some other high impact aspect of healthcare.)

**De.4** Subject/Topic Areas (Check all the areas that apply):
**De.5** Cross Cutting Areas (Check all the areas that apply): Disparities, Safety

#### 1a.1 Demonstrated High Impact Aspect of Healthcare: Affects large numbers, Patient/societal consequences of poor quality

1a.2 If “Other,” please describe:

1a.3 Summary of Evidence of High Impact (Provide epidemiologic or resource use data):

Immigrants comprise a large and growing segment of American society that is disproportionately low-income and uninsured (1-2). Among the immigrant population, barriers to accessible and high-quality health care are only exacerbated for those who do not speak English fluently. In the U.S., 24 million individuals speak English “less than very well” and are said to be limited English proficient (LEP) (3). For this growing segment of the population, poor health status and diminished access to health care are frequent challenges. As members of racial, ethnic or linguistic minorities, persons with LEP experience disproportionately high rates of infectious disease (4) and infant mortality and are more likely to report risk factors for serious and chronic diseases such as diabetes and heart disease (5). Many of the challenges associated with delivering care to LEP populations result from communication barriers inherent in the LEP patient-provider interaction. Patients who speak languages other than English can have difficulties understanding their diagnosis (6) and why they receive particular types of care (7-8). Patients with LEP are particularly vulnerable to miscommunication when discharged from the emergency department (9-10), and have poorer follow-up after an emergency department visit (11). LEP patients have been shown to have poorer compliance (12) and lower adherence with diabetes (13)and asthma care regimens (14-15)compared to patients who are English speakers; they also have poorer diabetes outcomes (16).

Having an interpreter to facilitate communication between patients and health professionals can mitigate many of the disparities in care that LEP patients regularly face. LEP patients who are provided with an interpreter have more preventive and primary care visits and fill more prescriptions, compared to LEP patients who do not use an interpreter. (17) Having an interpreter can level the playing field for LEP patients with diabetes, whose care was found to be better than or equal to care received by non-LEP patients with diabetes (18). LEP patients who used any interpreter were more likely than English-speaking patients to have had a mammogram over a two-year period (19). In a study of the impact of interpreter services on low-income LEP patients, the availability of trained interpreters was associated with LEP patients having more office visits and filling more prescriptions, as well as reducing disparities related to flu vaccinations and fecal occult blood testing (17). Patients with language barriers indicated higher levels of satisfaction with care when interpreters were used (20). Physicians who had access to the services of trained interpreters reported a significantly higher quality of patient-physician communication than physicians without these services (21).

Medical interpreters can bridge the communication gap between physician and patient (22), yet interactions between patients with LEP and health professionals frequently occur without the services of an interpreter. No published studies estimate the frequency of interpreter use among LEP patients in the health care setting, although there is evidence of substantial underutilization in the emergency department and across ambulatory and inpatient services (6). Federal civil rights legislation (23) requires health care
providers that receive any federal funds (including Medicare and Medicaid reimbursement) to provide language access for LEP patients, although federal oversight of the health care industry's compliance with these rules is extremely limited. In practice, LEP patients' access to interpreter services (IS) is variable and unpredictable (24).

Merely having interpreters available in a health care setting does not mean that the patients who need services will receive them (25). Structural, logistical, and financial barriers are just a few of the impediments to effective use of services. Interpreter services require coordination across components of health systems when, for example, physicians or other health professionals schedule interpreters for LEP patients or coordinate physicians' schedules to match LEP patients with bilingual providers. Interpreter services can require equipment such as dual handsets for telephone interpretation that allow the patient and physician to participate in a conversation without passing the telephone back and forth, thereby disrupting the flow of the interaction. In-person and telephone interpreting also entail additional costs.

Perhaps the most substantial barrier to more widespread use of interpreters for LEP patients is the cost of the service. Studies on the marginal costs of interpreters in the health care setting are scarce, as are estimates of the overall "value" that the use of interpreters brings to the health care encounter. Studies estimate the cost of language services to be low relative to other health care costs, approximately $234-$279 per patient per year in inpatient and outpatient settings, respectively (26-27). Language services have also been shown to reduce the cost of emergency department care (28).

Health care organizations routinely place patients at risk for poor quality care by turning to untrained individuals to facilitate communication for LEP patients. Health care organizations use an alternative to the trained medical interpreter. The "ad hoc" interpreter is probably the vehicle used most frequently to allow LEP patients to communicate with health professionals. Ad hoc interpreters are not trained interpreters, but rather friends, family members, staff members and other individuals who present with the patient or are called upon to serve in the interpreter role (29). They are untrained in terms of clinical knowledge or appropriate methods to interpret in a health care setting. Their utility comes from being able to converse with the patient in the patient's language as well as having some level of English proficiency. Though ad hoc interpreters appear to be free to the health system, their use is not without its own set of costs, especially in terms of high rates of clinically significant medical errors (22). Ad hoc interpreters can misinterpret or omit questions asked by physicians (30); family members who interpret sometimes leave the patient out of the discussion altogether, instead answering the physician's questions without consulting the patient (31).

Physicians recognize the need for trained interpreters (32) but may opt to move forward with ad hoc interpreters nevertheless. In a study of resident physicians in urban teaching hospitals with excellent interpreter services, residents described a process of risk assessment in which the perceived value of communication was evaluated against their own constraints in terms of the additional time and processes associated with involving a trained interpreter.(33) This process was termed "getting by" and was facilitated by the availability of ad hoc interpreters (generally family members) present with the patient.

(10) Kazzi Bonacruz G, Cooper C. Barriers to the Use of Interpreters in Emergency Room Paediatric Consultations. Journal of
(16) Lasater LM, Davidson AF, Steiner JF, Mehler PS. Glycemic control in English- vs. Spanish-speaking Hispanic patients with Type 2 Diabetes Mellitus. Archives of Internal Medicine 2001;161:77-82.

1b. Opportunity for Improvement: H [ ] M [ ] L [ ] I [ ]

(There is a demonstrated performance gap - variability or overall less than optimal performance)

1b.1 Briefly explain the benefits (improvements in quality) envisioned by use of this measure:
Many of the benefits associated with the proposed language services measures are described in a forthcoming article in the Journal of Healthcare Quality (scheduled publication date is March 2012. "Improving the Quality of Language Services Delivery: Findings from A Hospital Quality Improvement Initiative, by Marsha Regenstein, Jenny Huang, Cathy West, Jennifer Trott, Holly Mead and Ellie Andres).
Despite the substantial evidence that supports use of interpreters or bilingual physicians and other health professionals to improve communication, there are no endorsed measures identifying the extent to which health care encounters occur with the use of a trained interpreter or a qualified bilingual provider. The proposed measure enables health care organizations or individual health professionals to determine whether patients with LEP actually receive language services. It is a patient-level measure, tracking whether the individual patient received language services at assessment and discharge (or at the conclusion of an ambulatory visit, when instructions are rendered and discussed), which are two instances when effective communication is essential.

As described in the prior question, having an interpreter to facilitate communication between patients and health professionals can mitigate many of the disparities in care that LEP patients regularly face. LEP patients who are provided with an interpreter have more preventive and primary care visits and fill more prescriptions, compared to LEP patients who do not use an interpreter. Having an interpreter can level the playing field for LEP patients with diabetes, whose care was found to be better than or equal to care received by non-LEP patients with diabetes. LEP patients who used any interpreter were more likely than English-speaking patients to have had a mammogram over a two-year period. In a study of the impact of interpreter services on low-income LEP patients, the availability of trained interpreters was associated with LEP patients having more office visits and filling more prescriptions, as well as reducing disparities related to flu vaccinations and fecal occult blood testing. Patients with language barriers indicated higher levels of satisfaction with care when interpreters were used. Physicians who had access to the services of trained interpreters reported a significantly higher quality of patient-physician communication than physicians without these services.

1b.2 Summary of Data Demonstrating Performance Gap (Variation or overall less than optimal performance across providers):

[For Maintenance – Descriptive statistics for performance results for this measure - distribution of scores for measured entities by quartile/decile, mean, median, SD, min, max, etc.]

Substantial evidence suggests that individuals with LEP have difficulties accessing health services (1); when they do receive care it is of lower quality relative to English-speaking patients (2). LEP is itself a risk factor for poor health care access, resulting in challenges obtaining health insurance and completing necessary processes associated with obtaining and maintaining coverage (3-4). Individuals with LEP are less likely to have a regular source of primary care (5) and receive fewer preventive services such as mammograms (6-7). With less prevention, LEP patients tend to seek care in the emergency department (8) and are admitted to the hospital at higher rates (9), with longer lengths of stay (10), compared to non-LEP patients. Not surprisingly, patients with LEP are also at higher risk of medical errors (11-13).

Discordant communication between patients and physicians takes a toll on satisfaction from all affected parties. LEP patients are more likely to report lower satisfaction with the quality of the care they receive and the health professionals with whom they interact, making them less inclined to comply with recommended follow-up and treatment (14-15). Physicians and other health professionals also report lower satisfaction and lower-quality patient-provider interaction when caring for LEP patients without an interpreter (16). Physicians who are unable to communicate effectively with their patients often engage in costly practices such as using more diagnostic resources or invasive procedures (17) and overprescribing medications (18).

1b.3 Citations for Data on Performance Gap: [For Maintenance – Description of the data or sample for measure results reported in 1b.2 including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included]

(7) Bell TS, Branston LK, Newcombe RG, Barton GR. Interventions to improve uptake of breast cancer screening in inner city Cardiff general practices with ethnic minority lists. Ethnic Health 1999;4:277-84.
(8) Manson A. Language concordance as a determinant of patient compliance and emergency room visits in patients with asthma. Medical Care 1988;26:1119-112.
(9) Lee ED, Rosenberg CR, Sixsmith DM, Pang D, Abularrage J. Does a Physician-Patient Language Difference Increase the
NQF #1821 L2: Patients receiving language services supported by qualified language services providers

See Guidance for Definitions of Rating Scale: H=High; M=Moderate; L=Low; I=Insufficient; NA=Not Applicable

1b.4 Summary of Data on Disparities by Population Group: [For Maintenance – Descriptive statistics for performance results for this measure by population group]

The population group is persons with limited English proficiency. The proposed language measures track quality (through process measures) for persons who require language services and apply to all language/ethnic/racial groups that require these services. In addition to information provided above, a large body of evidence supports the fact that immigrant, non-English speaking populations experience substantial disparities in health and health care (1-2).

1b.5 Citations for Data on Disparities Cited in 1b.4: [For Maintenance – Description of the data or sample for measure results reported in 1b.4 including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included]


1c. Evidence (Measure focus is a health outcome OR meets the criteria for quantity, quality, consistency of the body of evidence.)

Is the measure focus a health outcome? Yes □ No □ If not a health outcome, rate the body of evidence.

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Quality</th>
<th>Consistency</th>
<th>Does the measure pass subcriterion1c?</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-H</td>
<td>M-H</td>
<td>M-H</td>
<td>Yes □ If additional research unlikely to change conclusion that benefits to patients outweigh harms: otherwise No □</td>
</tr>
<tr>
<td>L</td>
<td>M-H</td>
<td>M</td>
<td>Yes □ If potential benefits to patients clearly outweigh potential harms: otherwise No □</td>
</tr>
<tr>
<td>M-H</td>
<td>L</td>
<td>M-H</td>
<td>No □</td>
</tr>
</tbody>
</table>

Health outcome – rationale supports relationship to at least one healthcare structure, process, intervention, or service

Does the measure pass subcriterion1c?

Yes □ If rationale supports relationship

1c.1 Structure-Process-Outcome Relationship (Briefly state the measure focus, e.g., health outcome, intermediate clinical outcome, process, structure; then identify the appropriate links, e.g., structure-process-health outcome; process-health outcome; intermediate clinical outcome-health outcome):
The proposed measure is a process measure that tracks a very simple evidence-based concept: i.e., whether patients who need language services actually receive those services. The measure tracks performance for two critically important points along the care experience − initial assessment and discharge − where effective communication is absolutely essential. Its relationship with clinical outcomes is identical to the outcomes that are expected to occur when patients who speak the same languages as their physicians or health professionals interact within a health care encounter. The measure is innovative and important in that it links the delivery of language services to the individual patient, rather than the more common practice of determining whether an organization has any capacity to deliver language services to LEP patients. The measure applies to all scenarios in which patients with LEP are in a clinical setting and has implications for an extremely broad set of processes and health outcomes.

1c.2-3 Type of Evidence (Check all that apply):
Selected individual studies (rather than entire body of evidence), Systematic review of body of evidence (other than within guideline development)

1c.4 Directness of Evidence to the Specified Measure (State the central topic, population, and outcomes addressed in the body of evidence and identify any differences from the measure focus and measure target population):
Two systematic literature reviews and dozens of studies support the use of language services for persons with limited English proficiency (see Jacobs E, Chen A, Karlner L, Agger-Gupta N, Mutha S. The Need for More Research on Language Barriers in Health Care: A Proposed Research Agenda. The Milbank Quarterly 2006;84(1):111-133; Flores G. The impact of medical interpreter services on the quality of health care: a systematic review. Med Care Res Rev. 2005 Jun;62(3):255-99.) These and other studies identified above address the experiences of patients with LEP when interacting with the health care system and the extent to which interpreters and bilingual providers improve the safety, efficiency and overall quality of care as well as patient and provider satisfaction with care. The patient populations can vary, with some studies addressing Spanish-speaking patients only or other populations speaking various languages; also, some studies focus on care for children only; care in emergency departments; or care for patients with particular clinical conditions. The language services literature in general describes a highly vulnerable group of patients who experience substantial barriers accessing necessary care, understanding the care they receive and how to navigate the many aspects of the health care system, and how they can effectively participate in their own care and care management. The studies generally measure care across groups, with the receipt of some type of language services as the variable of interest. Some studies investigate only the delivery of any language service (e.g., any interpreter versus no interpreter), use of bilingual provider versus English-speaking only provider, or some combination of different modes of interpretation (in-person, telephone, video,) on various types of clinical services and health care processes.

1c.5 Quantity of Studies in the Body of Evidence (Total number of studies, not articles): The Flores review included 36 studies and the systematic review by Jacobs included over 150 studies, including many identified in the Flores review. Another systematic review (Bauer A, Alegria M. The Impact of Patient Language Proficiency and Interpreter Service Use on the Quality of Psychiatric Care: A Systematic Review. Psychiatr Serv. 2010 August;61(8):765-773) identified 26 studies meeting specific inclusion criteria.

1c.6 Quality of Body of Evidence (Summarize the certainty or confidence in the estimates of benefits and harms to patients across studies in the body of evidence resulting from study factors. Please address: a) study design/flaws; b) directness/indirectness of the evidence to this measure (e.g., interventions, comparisons, outcomes assessed, population included in the evidence); and c) imprecision/wide confidence intervals due to few patients or events): The body of evidence is strong in terms of the number of studies meeting qualifying criteria, but the general designs of the studies have some flaws. Studies generally do not use common definitions of language services. In some studies, language services can be provided by trained interpreters only and in others, by trained and ad hoc interpreters. The most significant flaw (in my opinion) is the lack of consistency when it comes to the "dosage" of interpretation. It is not clear that there is a common standard in terms of what it actually means to "get" an interpreter. Patients with LEP frequently have some type of interpreter service at some points in their experience with the health system, but various studies often do not even define what "getting an interpreter" actually means. The proposed measure will advance the field significantly by putting a common definition on the delivery of a language service and measuring the process of interpreter services at two clinically important points in time.

1c.7 Consistency of Results across Studies (Summarize the consistency of the magnitude and direction of the effect): Because of the variability in the design of the studies, and the fact that the field has not used common definitions for the delivery of language services, it is difficult to summarize the consistency of the magnitude and direction of the effect. In general, interpreter services improve safety, quality of the encounter, result in fewer errors, improve use of prevention and primary care services, conserve

See Guidance for Definitions of Rating Scale: H=High; M=Moderate; L=Low; I=Insufficient; NA=Not Applicable 7
resources by avoiding repeated tests, and improve patient satisfaction.

1c.8 Net Benefit *(Provide estimates of effect for benefit/outcome; identify harms addressed and estimates of effect; and net benefit - benefit over harms):*

The net benefit of effective language services is positive — the evidence is extremely persuasive on this point. However, no common definitions are used and therefore it is difficult to determine what patients are getting when the studies report language services versus no language services. The proposed measure will provide a common metric for the field and will link the delivery of language services directly to the patient.

1c.9 Grading of Strength/Quality of the Body of Evidence. Has the body of evidence been graded? **No**

1c.10 If body of evidence graded, identify the entity that graded the evidence including balance of representation and any disclosures regarding bias: **N/A**

1c.11 System Used for Grading the Body of Evidence: **Other**

1c.12 If other, identify and describe the grading scale with definitions: Systematic literature reviews. Evidence has not been graded.

1c.13 Grade Assigned to the Body of Evidence: **N/A**

1c.14 Summary of Controversy/Contradictory Evidence: **N/A**

1c.15 Citations for Evidence other than Guidelines(*Guidelines addressed below):*

**N/A**

1c.16 **Quote verbatim, the specific guideline recommendation (Including guideline # and/or page #):**

**JOINT COMMISSION STANDARDS FOR PATIENT-CENTERED COMMUNICATION**

**HR.01.02.01** The hospital defines staff qualifications.

**EP 1** The hospital defines staff qualifications specific to their job responsibilities.

Note 4: Qualifications for language interpreters and translators may be met through language proficiency assessment, education, training and experience. The use of qualified interpreters and translators is supported by the Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1973, and Title VI of the Civil Rights Act of 1964.

**PC.02.01.21** The hospital effectively communicates with patients when providing care, treatment, and services.

**Rationae for PC.02.01.21**

This standard emphasizes the importance of effective communication between patients and their providers of care, treatment and services. Effective patient-provider communication is necessary for patient safety. Research shows that patients with communication problems are at an increased risk of experiencing preventable adverse events, and that patients with limited English proficiency are more likely to experience adverse events than English speaking patients.

**EP 2** The hospital communicates with the patient during the provision of care, treatment, and services in a manner that meets the patient’s oral and written communication needs.

**NATIONAL QUALITY FORUM COMPREHENSIVE FRAMEWORK AND PREFERRED PRACTICES FOR MEASURING AND REPORTING CULTURAL COMPETENCY: A CONSENSUS REPORT**

**Domain 2: Integration into Management Systems and Operations**

**Preferred Practice 9: Implement language access planning in any area where care is delivered.**

**Domain 3: Patient-Provider Communication**

**Preferred Practice 12: Offer and provide language access resources in the patient’s primary written and spoken language at no cost, at all points of contact, and in a timely manner during all hours of operation, and provide both verbal offers and written notices informing patients of their right to receive language assistance services free of charge.**

**Preferred Practice 13: Determine and document the linguistic needs of a patient or legal guardian at first points of contact, and periodically assess them throughout the healthcare experience.**
Preferred Practice 14: Maintain sufficient resources for communicating with patients in their primary written and spoken languages through qualified/competent interpreter resources, such as competent bilingual or multilingual staff, staff interpreters, contracted interpreters from outside agencies, remote interpreting services, credentialed volunteers, and others, to ensure timely and high-quality communication.

Preferred Practice 17: Ensure that a qualified interpreter reads a document to a patient if the patient cannot read the translated document.

Preferred Practice 19: Communicate key information about the proposed treatments or procedures for which patients are being asked to provide informed consent.

Domain 4: Care Delivery and Supporting Mechanisms


1c.18 National Guideline Clearinghouse or other URL: http://www.jointcommission.org/assets/1/6/aroadmapforhospitalsfinalversion727.pdf

1c.19 Grading of Strength of Guideline Recommendation. Has the recommendation been graded? No

1c.20 If guideline recommendation graded, identify the entity that graded the evidence including balance of representation and any disclosures regarding bias:

1c.21 System Used for Grading the Strength of Guideline Recommendation: Other

1c.22 If other, identify and describe the grading scale with definitions: N/A

1c.23 Grade Assigned to the Recommendation: N/A

1c.24 Rationale for Using this Guideline Over Others: N/A

Based on the NQF descriptions for rating the evidence, what was the developer's assessment of the quantity, quality, and consistency of the body of evidence?

1c.25 Quantity: High

1c.26 Quality: Moderate

1c.27 Consistency: Moderate

Was the threshold criterion, Importance to Measure and Report, met? (1a & 1b must be rated moderate or high and 1c yes) Yes No

Provide rationale based on specific subcriteria:

**For a new measure if the Committee votes NO, then STOP.**
For a measure undergoing endorsement maintenance, if the Committee votes NO because of 1b. (no opportunity for improvement), it may be considered for continued endorsement and all criteria need to be evaluated.

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**2. RELIABILITY & VALIDITY - 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)

Measure testing must demonstrate adequate reliability and validity in order to be recommended for endorsement. Testing may be conducted for data elements and/or the computed measure score. Testing information and results should be entered in the appropriate field. Supplemental materials may be referenced or attached in item 2.1. See guidance on measure testing.

S.1 Measure Web Page (In the future, NQF will require measure stewards to provide a URL link to a web page where current detailed specifications can be obtained). Do you have a web page where current detailed specifications for this measure can be obtained? Yes

S.2 If yes, provide web page URL:
2a. RELIABILITY. Precise Specifications and Reliability Testing:  

<table>
<thead>
<tr>
<th>Precise Measure Specifications. (The measure specifications precise and unambiguous.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2a1. Numerator Statement (Brief, narrative description of the measure focus or what is being measured about the target population, e.g., cases from the target population with the target process, condition, event, or outcome): The number of limited English-proficient (LEP) patients with documentation they received the initial assessment and discharge instructions supported by trained and assessed interpreters, or from bilingual providers and bilingual workers/employees assessed for language proficiency.</td>
</tr>
<tr>
<td>2a1.1 Numerator Statement</td>
</tr>
<tr>
<td>The number of limited English-proficient (LEP) patients with documentation they received the initial assessment and discharge instructions supported by trained and assessed interpreters, or from bilingual providers and bilingual workers/employees assessed for language proficiency.</td>
</tr>
<tr>
<td>2a1.2 Numerator Time Window (The time period in which the target process, condition, event, or outcome is eligible for inclusion):</td>
</tr>
<tr>
<td>The time window is an encounter or point in time. All cases in the denominator are equally eligible to appear in the numerator.</td>
</tr>
<tr>
<td>2a1.3 Numerator Details (All information required to identify and calculate the cases from the target population with the target process, condition, event, or outcome such as definitions, codes with descriptors, and/or specific data collection items/responses):</td>
</tr>
<tr>
<td>Inclusions: The number of limited English-proficient (LEP) patients with documentation that they received both initial assessment and discharge instructions supported by:</td>
</tr>
<tr>
<td>• Assessed and trained interpreters; or,</td>
</tr>
<tr>
<td>• Bilingual providers or bilingual workers/employee assessed for language proficiency.</td>
</tr>
<tr>
<td>Exclusions:</td>
</tr>
<tr>
<td>• Patients receiving initial assessment and/or discharge instructions supported by interpreters who have not met the organization’s training and assessment requirements.</td>
</tr>
<tr>
<td>• Patients receiving initial assessment and/or discharge instructions from a bilingual provider or bilingual worker/employee who has not met the organization’s training and assessment requirements.</td>
</tr>
<tr>
<td>• Patients receiving initial assessment and/or discharge instructions supported by family or friends.</td>
</tr>
<tr>
<td>• There is no documentation indicating provision of qualified language services provided at initial assessment and/or discharge instructions.</td>
</tr>
</tbody>
</table>

Data Elements: 
- Preferred spoken language for health care
- Initial assessment
- Discharge instructions Definitions: 

Definitions: 
Preferred spoken language for health care: the preferred language that is stated by the patient for speaking to health care providers. This includes ASL. 
Initial assessment: the first evaluation from a medical doctor, nurse practitioner, or physician assistant (excludes triage, medical assistant, nurse aid). 
Discharge instructions: discussion of the instructions with the nurse at the end of a hospital stay or ED visit. The instructions from the medical doctor, nurse, nurse practitioner or physician assistant at the end of an outpatient visit. 
Interpreter: an individual whose primary job responsibility is to render a message spoken or signed in one language into a second language without adding, omitting, or distorting meaning or editorializing. Professional interpreters abide by a code of professional ethics and practice what is called, “transparent interpreting”. [NCIHC, CHIA, and TCE] 
Bilingual provider: a person with proficiency in more than one language, enabling the person to provide services directly to limited-English proficient patients in their non-English language. [NCIHC] 
Bilingual worker/employee: an employee who is a proficient speaker of two languages, usually English and a language other than English, who is often called upon to interpret for limited-English proficient patients, but who is usually not trained as a professional interpreter. [NCIHC] 

Citations: 
2a1.4 **Denominator Statement** *(Brief, narrative description of the target population being measured)*:
Total number of patients that stated a preference to receive their spoken health care in a language other than English.

2a1.5 **Target Population Category** *(Check all the populations for which the measure is specified and tested if any):*  
Adult/Elderly Care, Children's Health, Maternal Care, Populations at Risk

2a1.6 **Denominator Time Window** *(The time period in which cases are eligible for inclusion)*:
Time window is a single point in time. All cases in the denominator are equally eligible to appear in the numerator.

2a1.7 **Denominator Details** *(All information required to identify and calculate the target population/denominator such as definitions, codes with descriptors, and/or specific data collection items/responses)*:
Inclusions:
• All patients indicating or stating a preference to receive spoken health care in a language other than English.

Exclusions:
• All patients indicating or stating a preference to receive spoken health care in English.

Data Elements:
Preferred spoken language for health care

Definition:
Preferred spoken language for health care: the preferred language that is stated by the patient for speaking to health care providers. This includes ASL.

2a1.8 **Denominator Exclusions** *(Brief narrative description of exclusions from the target population)*:
Exclusions:
• All patients stating a preference to receive spoken health care in English.
• Patients who leave without being seen.
• Patients who leave against medical advice prior to the initial assessment.

2a1.9 **Denominator Exclusion Details** *(All information required to identify and calculate exclusions from the denominator such as definitions, codes with descriptors, and/or specific data collection items/responses)*:
• All patients stating a preference to receive spoken health care in English.
• Patients who leave without being seen.
• Patients who leave against medical advice prior to the initial assessment.

2a1.10 **Stratification Details/Variables** *(All information required to stratify the measure results including the stratification variables, codes with descriptors, definitions, and/or specific data collection items/responses)*:
Measure can be reported in the aggregate or stratified by preferred language. Data in measure can be used to stratify various disparities-related measures, for example: percent of LEP patients who receive all recommended diabetes care, stratified by receipt of language services.

2a1.11 **Risk Adjustment Type** *(Select type. Provide specifications for risk stratification in 2a1.10 and for statistical model in 2a1.13):*  
No risk adjustment or risk stratification  
2a1.12 If "Other," please describe:

2a1.13 **Statistical Risk Model and Variables** *(Name the statistical method - e.g., logistic regression and list all the risk factor variables. Note - risk model development should be addressed in 2b4.)*:
None

2a1.14-16 **Detailed Risk Model Available at Web page URL** *(or attachment). Include coefficients, equations, codes with descriptors, definitions, and/or specific data collection items/responses. Attach documents only if they are not available on a webpage and keep attached file to 5 MB or less. NQF strongly prefers you make documents available at a Web page URL. Please supply login/password if needed:*

See Guidance for Definitions of Rating Scale: H=High; M=Moderate; L=Low; I=Insufficient; NA=Not Applicable
2a1.17-18. **Type of Score:** Rate/proportion

2a1.19 **Interpretation of Score** *(Classifies interpretation of score according to whether better quality is associated with a higher score, a lower score, a score falling within a defined interval, or a passing score): Better quality = Higher score*

2a1.20 **Calculation Algorithm/Measure Logic** *(Describe the calculation of the measure score as an ordered sequence of steps including identifying the target population; exclusions; cases meeting the target process, condition, event, or outcome; aggregating data; risk adjustment; etc.):*

Data calculated as aggregate numerator and denominator, monthly, stratified by language, declined or unavailable.

2a1.21-23 **Calculation Algorithm/Measure Logic Diagram URL or attachment:**
URL

2a1.24 **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):
Measure includes all admissions and visits -- it is not based on a sample or survey.

2a1.25 **Data Source** *(Check all the sources for which the measure is specified and tested). If other, please describe:
Electronic Clinical Data, Electronic Clinical Data : Electronic Health Record, Management Data, Paper Records*

2a1.26 **Data Source/Data Collection Instrument** *(Identify the specific data source/data collection instrument, e.g. name of database, clinical registry, collection instrument, etc.): Hospitals utilized and modified existing clinical documentation resources to collect data and to produce measure results through all 3 collaborative programs (Speaking Together; AF4Q Language Quality Improvement Collaborative; and the AF4Q Hospital Quality Network’s Improving Language Services).

2a1.27-29 **Data Source/data Collection Instrument Reference Web Page URL or Attachment:**
URL

2a1.30-32 **Data Dictionary/Code Table Web Page URL or Attachment:**
URL

2a1.33 **Level of Analysis** *(Check the levels of analysis for which the measure is specified and tested): Clinician : Group/Practice, Facility

2a1.34-35 **Care Setting** *(Check all the settings for which the measure is specified and tested): Ambulatory Care : Clinic/Urgent Care, Hospital/Acute Care Facility

2a2. **Reliability Testing.** *(Reliability testing was conducted with appropriate method, scope, and adequate demonstration of reliability.)*

2a2.1 **Data/Sample** *(Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):*
The measure was pilot tested in one inpatient and in one outpatient care setting in two large metropolitan hospitals October 2006. The measure was used by the 10 grantee hospitals in the Speaking Together National Language Services Collaborative from November 2006 - May 2008. Ten hospitals reported data monthly on 40,000 - 60,000 patients seen in inpatient and ambulatory
care settings. Hospitals ranged in size from 11,500 - 44,000 admissions, included 2 children’s hospitals and were comprised of both academic teaching and non-teaching community hospitals. The measures specifications were revised based on the learning from the Speaking Together Collaborative and input from the participating hospitals.

- Hospital A - New York NY; Public hospital; Beds 771; Annual Admissions 26,068; Annual interpreter encounters 58,962; Percent of interpreter encounters in top 5 languages-60% Spanish; 26% Mandarin; 6% Cantonese; 3% Polish; 2% French

- Hospital B - Cambridge MA; Public hospital; Beds 350; Annual Admissions 15,263; Annual interpreter encounters 140,556; Percent of interpreter encounters in top 5 languages-55% Brazilian Portuguese; 24% Spanish; 7% Haitian Creole; 2% Euro Portuguese; 2% Hindi

- Hospital C - Minneapolis MN; Public hospital; Beds 434; Annual Admissions 22,117; Annual interpreter encounters 120,000; Percent of interpreter encounters in top 5 languages-60% Spanish; 12% Somali; 4% Russian; 3% Hmong; 3% Hmong; 1% Laotian

- Hospital D - Phoenix AZ; Non-profit hospital; Beds 285; Annual Admissions 11,712; Annual interpreter encounters 48,043; Percent of interpreter encounters in top 5 languages->99% Spanish

- Hospital E - St. Paul, MN; Non-profit hospital; Beds 399; Annual Admissions 22,827; Annual interpreter encounters 28,887; Percent of interpreter encounters in top 5 languages-50% Spanish; 12% Hmong; 10% Somali; 9% Vietnamese; 4% ASL

- Hospital F – Rochester, NY; Non-profit hospital; Beds 973; Annual Admissions 36,321; Annual interpreter encounters 14,885; Percent of interpreter encounters in top 5 languages-46% Spanish; 35% ASL; 3% Vietnamese; 2% Russian; 2% Arabic

- Hospital G – Seattle, WA; Non-profit hospital; Beds 250; Annual Admissions 11,608; Annual interpreter encounters 40,690; Percent of interpreter encounters in top 5 languages-55% Spanish; 7% Vietnamese; 4% Somali; 4% Russian; 2% Cantonese

- Hospital H – Sacramento, CA; Public hospital; Beds 526; Annual Admissions 27,946; Annual interpreter encounters 65,000; Percent of interpreter encounters in top 5 languages-58% Spanish; 20% Russian; 8% Mien; 5% Hmong; 5% Cantonese

- Hospital I – Worcester, MA; Non-profit hospital; Beds 731; Annual Admissions 44,231; Annual interpreter encounters 59,134; Percent of interpreter encounters in top 5 languages-62% Spanish; 13% Portuguese; 7% Vietnamese; 5% Albanian; 3% ASL

- Hospital J – Ann Arbor, MI; Non-profit hospital; Beds 802; Annual Admissions 42,811; Annual interpreter encounters 21,503; Percent of interpreter encounters in top 5 languages-22% Spanish; 18% Chinese; 14% Japanese; 12% Arabic; 10% Russian.

More than 50,000 LEP patients were included in the Speaking Together collaborative. The measures were subsequently used in two rounds of learning collaboratives as part of the Aligning Forces for Quality project. Nine hospitals participated in the first round and 43 participated in the second. The hospitals in the Aligning Forces for Quality language services quality improvement projects tended to have smaller LEP populations (relative to Speaking Together hospitals). Nevertheless, we estimated that these two additional rounds of collaborative work included a minimum of 25,000 LEP patients.

Through the development phases, pilot testing, testing in the Speaking Together collaborative and the two subsequent rounds of Aligning Forces quality improvement work, the measure proved to be extremely reliable.

2a2.2 Analytic Method (Describe method of reliability testing & rationale):
Development of Interpreter Services Performance Measures
In 2006, the Robert Wood Johnson Foundation funded Speaking Together: National Language Services Network, an 18-month national program aimed at improving the delivery of language services through the use of quality improvement techniques. Ten hospitals were selected through an open, competitive solicitation to participate in the program. The 10 hospitals were: Bellevue Hospital Center (New York, NY); Cambridge

See Guidance for Definitions of Rating Scale: H=High; M=Moderate; L=Low; I=Insufficient; NA=Not Applicable
Health Alliance (Cambridge, MA); Hennepin County Medical Center (Minneapolis, MN); Phoenix Children’s Hospital (Phoenix, AZ); Regions Hospital (St. Paul, MN); The University of Rochester—Strong Memorial Hospital (Rochester, NY); Seattle Children’s Hospital and Medical Center (WA); the University of California Davis Medical Center (Sacramento, CA); the University of Massachusetts Memorial Medical Center (Worcester, MA); and, University of Michigan Health System (Ann Arbor, MI).

Because the field of language services did not have commonly used language performance measures, the Speaking Together National Program Office (NPO) at the George Washington University developed a set of performance measures for language services for use throughout the learning collaborative. As a starting point for measures development for the field, the Speaking Together NPO made an explicit decision to initially focus on signed and spoken interpreter services measures with a plan to develop measures for written (translation) services at a later date. The Speaking Together NPO employed a multi-stage process to identify and develop a set of measures for signed and spoken interpreter services:

Stage 1: Identifying a framework for quality: The Speaking Together NPO used the Institute of Medicine’s (IOM’s) six dimensions of quality, as articulated in Crossing the quality chasm: A new health system for the 21st century, as a framework for developing language service performance measures. These dimensions (safety, timeliness, effectiveness, efficiency, equity, and patient-centeredness) are outlined in Figure 1.

Figure 1: IOM Domains of Quality, Adapted for Language Services

Domain Principle
Safe: Avoiding injuries to patients from the language assistance that is intended to help them.
Timely: Reducing waits and sometimes harmful delays for both those who receive and those who give care.
Effective: Providing language services based on scientific knowledge that contribute to all who could benefit, and refraining from providing services to those not likely to benefit.
Efficient: Avoiding waste, including waste of equipment, supplies, ideas, and energy.
Equitable: Providing language assistance that does not vary in quality because of personal characteristics such as language preference, gender, ethnicity, geographic location, and socioeconomic status.
Patient-Centered: Providing language assistance that is respectful of and responsive to individual patient preferences, needs, culture and values, and ensuring that patient values guide all clinical decisions.

Stage 2: Reviewing the relevant literature: The Speaking Together NPO conducted extensive literature searches to support the development of evidence-based measures and identify key quality concerns related to the delivery of language services in hospitals and other health care settings.

Stage 3: Interviewing experts: The Speaking Together NPO interviewed experts in the field of language services and directors of established hospital-based interpreter services programs to help identify issues related to quality of language services and potentially valuable performance measures. For a full listing of the contributors, please see Additional.

Stage 4: Identifying a framework for organizational change: The Speaking Together NPO used Nerenz and Neil’s Performance Measures for Health Care Systems (2001) as a guidepost to look across an organization and identify how care is organized and delivered. Using this framework, we identified components of language and interpreter services that address significant and important quality issues pertinent to the delivery of language services and identified measurable events as potentially valuable performance measures.

Stage 5: Developing the measures: Using the frameworks mentioned above, as well as information from the literature and interviews, the Speaking Together NPO developed a set of 10 draft process measures for review and field testing.

Stage 6: Getting feedback on the draft measures: The Speaking Together NPO assembled a panel of experts in language services, who have contributed greatly to the literature in the field, to review the 10 draft performance measures and evaluate them according to uniform evaluation criteria.

Stage 7: Meeting with clinicians and interpreters services directors: The draft measures were reviewed by an expert panel consisting of medical directors, physician leaders and interpreter services directors who convened in Washington, DC, in September 2006 to review the 10 draft measures and evaluate each according to its importance to quality, feasibility in terms of data collection, clarity and accuracy of description. (For a full listing of the contributors, please see Additional.) The expert panel
recommended the following 5 of the 10 measures for implementation in acute care hospitals and outpatient settings:

- The percent of patients who have been screened for their preferred spoken language.
- The percent of LEP patients receiving initial assessment and discharge instructions from assessed and trained interpreters or from bilingual providers assessed for language proficiency.
- The percent of encounters where the patient wait time for interpreter is 15 minutes or less.
- The percent of time interpreters spend providing medical interpretation in clinical encounters with patients.
- The percent of encounters interpreters wait less than 10 minutes to provide interpreter services to provider and patient.

Stage 8: Field testing the measures: Two hospitals with established language services programs participated in a week-long pilot test of the recommended performance measures, gathering information on the feasibility of data collection, usefulness of data reporting formats, and barriers and challenges associated with successful data collection and submission. (Please note: The two pilot sites were not part of the 10 Speaking Together grantee hospitals.)

Stage 9: Implementing the measures: The 10 Speaking Together grantee hospitals used the measures throughout the 18-month learning collaborative, applying quality improvement methodologies to improve the delivery of interpreter services. The Speaking Together hospitals reported data (stratified by language) on the measures to the NPO monthly for the duration of the 18-month program. Hospitals also provided information about data collection challenges, feedback on the data abstraction instructions, data variables and definitions in monthly reports, at on-site visits with the NPO, during monthly conference calls, and at the 4 collaborative meetings.

Stage 10: Revising and refining data collection specifications: The NPO revised the measures based on the learnings from the Speaking Together collaborative then convened a panel of language services experts to review the measures revisions for clarity and accuracy of descriptions, definitions and abstraction instructions. The panel was comprised of medical directors and quality improvement specialists from 5 Speaking Together hospitals. (For a full listing of the contributors, please see Additional.) Revisions to the 5 measures were largely centered on clarifying numerator and denominator descriptions, clarifying inclusions and exclusions descriptions and defining data elements. The work in this stage has allowed us to standardize the measures and to create standardized technical specifications.

Aligning Forces for Quality: Language Quality Improvement Collaborative
From July 2009-October 2010, the measures were used in the Aligning Forces for Quality Language Quality Improvement Collaborative (LQIC). As in Speaking Together, the LQIC hospitals reported monthly data, stratified by language, on the measures to the NPO. Hospitals also provided information about data collection challenges, feedback on the data abstraction instructions, data variables and definitions in monthly reports, at on-site visits with the NPO, during monthly conference calls, and at 2 collaborative meetings. The 9 LQIC hospitals were: Beaumont Hospitals (Royal Oak, MI); Central Maine Medical Center (Lewiston, ME); Cincinnati Children’s Hospital (Cincinnati, OH); Harborview Medical Center (Seattle, WA); Mercy Hospital—State Street Campus (Portland, ME); Oakwood Hospital & Medical Center (Dearborn, MI); St. Joseph Hospital (Eureka, CA); St. Joseph Mercy Oakland—Trinity Health (Pontiac, MI); and, Valley Medical Center (Renton, WA).

The proposed measure is currently being used as part of a quality improvement Hospital Quality Network within the Aligning Forces for Quality program. Forty-three hospitals are participating in the language improvement component of the program.

References:


## 2a2.3 Testing Results

(Repeatability statistics, assessment of adequacy in the context of norms for the test conducted)

In the Speaking Together program, this measure proved to be challenging for the hospitals and performance was highly variable across participants. The majority of the hospitals showed improvement (defined as an increase of five percentage points or more from the first quarter of 2007 to the first quarter of 2008) in their ability to provide appropriate language services to patients who needed them at initial assessment and discharge. Several hospitals worked for months to be able to track performance on this measure, an indication that even experienced and sophisticated language services programs have trouble determining whether patients who need language services actually receive them.

The six hospitals that showed improvement on the measure used a combination of strategies, including consistent and conscientious documentation efforts, interactions with clinic and unit nurses, physicians and other staff, targeted education efforts by the language services team and clearly articulated support from executive leadership. At one hospital, performance nearly doubled over each quarter and by the end of the collaborative, performance on the measure was over 80 percent at this hospital. Performance scores decreased for at least some period of time at five hospitals. Because this was not a result of language services or interpreter staffing changes, it is likely that the decrease reflected better measurement of actual delivery of services.

Hospitals also tracked performance across languages to determine whether patients who needed language services in Spanish, for example, were as likely to get those services as patients needing language services in Vietnamese, Haitian Creole, or any other language commonly spoken by patients at the hospitals. One hospital provided language services at initial assessment and discharge for approximately 38 percent of Spanish-speaking patients, 15 percent of Chinese-speaking patients and 25 percent of patients speaking “other” languages at the beginning of the project. By the end of the collaborative, 71%, 85%, and 46% of these patients, respectively, received services at initial assessment and discharge. These improvements were the result of strategic efforts by the hospital to target one language and one clinic at a time, and to use data as evidence to clinicians and the rest of the project team that their interventions were successful.

### 2b. VALIDITY

**Validity, Testing, including all Threats to Validity:**

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#### 2b1.1 Describe how the measure specifications (measure focus, target population, and exclusions) are consistent with the evidence cited in support of the measure focus (criterion 1c) and identify any differences from the evidence:

The proposed measure has been tested across different types of hospitals, with variation in types of language services programs and with various complements of clinical and non-clinical staff. It is focused exclusively on patients with limited English proficiency. The measure inclusion criteria for the denominator are broad and include all patients who have ever indicated a preference to receive their health care in a language other than English. The numerator includes all categories of language services delivery that are supported in the evidence and considered adequate for providing adequate, high quality and safe language services. The measure has high face validity. Hospital staff who have reported on the measure view it as measuring precisely what it intends to measure -- that is, the percent of patients who indicate a preference for health care in a language other than English who actually receive the language service at initial assessment and discharge. The proposed measure has been accepted as part of the AHRQ National Measures Clearinghouse and has been used in three rounds of quality improvement work in inpatient and outpatient settings. The proposed measure also has strong construct validity and is consistent with data collection processes related to delivery of language services (based on volume of services and total patients served).

#### 2b2. Validity Testing

(Validity testing was conducted with appropriate method, scope, and adequate demonstration of validity.)

**Data/Sample**

(Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):

Participants in the Speaking Together collaborative were interviewed throughout the learning network about their progress with the performance measures, including the proposed measures. All participants viewed the proposed measure as accurately reflecting the effectiveness of language services delivery, although they found that it was initially a challenging measure since the data required for the measure was generally not collected prior to their participation in the learning network. Ten hospitals participated in Speaking Together and reported performance for more than 50,000 patients with limited English proficiency. Hospitals reported on a monthly basis over an 18-month period, beginning November 2006. Participating hospitals selected a minimum of two sites or services within their system (e.g., medical/surgical floor, ambulatory clinic, emergency department) for quality improvement work on the proposed measure. Participants were required to collect information on all LEP patients within those sites or services. Hospitals ranged in size from 11,500 - 44,000 admissions, included 2 children’s hospitals and were comprised of both academic teaching and non-teaching community hospitals.
2b2.2 Analytic Method (Describe method of validity testing and rationale; if face validity, describe systematic assessment):
As indicated above, the proposed measure has strong face validity. The measure was developed after a thorough review of the literature, structured interviews with providers of language services in hospitals and health systems (generally directors of interpreter services) as well as the clinical staff who worked with interpreters (generally directors of ambulatory services or other service lines). We convened an expert panel of interpreter services and ambulatory service directors using a Delphi panel to systematically review the proposed measure on specific review criteria. We pilot tested the measure, as approved by the expert panel, in one large acute care hospital with substantial numbers of staff interpreters and high demand for language services and a children’s hospital with similar characteristics. No substantial changes to the proposed measure were required following the pilot test. We used the proposed measure throughout the Speaking Together learning network. Following the Speaking Together learning network, we convened representatives from our initial expert panel as well as some Speaking Together participants to review the validity, usefulness and adequacy of the proposed measure. The group strongly supported the use of the proposed measure with no substantive modifications.

2b2.3 Testing Results (Statistical results, assessment of adequacy in the context of norms for the test conducted; if face validity, describe results of systematic assessment):
We did not conduct statistical tests of the adequacy of the measure.

POTENTIAL THREATS TO VALIDITY. (All potential threats to validity were appropriately tested with adequate results.)

2b3. Measure Exclusions. (Exclusions were supported by the clinical evidence in 1c or appropriately tested with results demonstrating the need to specify them.)

2b3.1 Data/Sample for analysis of exclusions (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):
The only measure exclusions are the following:
1. Patients stating a preference to receive health in English. However, if during the health care encounter either the patient or the provider determined that language-related communication barrier occurred, that patient would be redetermined to “prefer” the use of an interpreter. Patients who were LEP who refused interpreters were included in the measure and reflected a small percentage of the patients who needed language services but did not receive them.
2. Patients who left the health care encounter before an initial assessment was initiated. For emergency department patients, this included patients who left without being seen.
All other patients who indicated that they had a preference for health care in a language other than English were included in the measure.

2b3.2 Analytic Method (Describe type of analysis and rationale for examining exclusions, including exclusion related to patient preference):
Only LEP patients who did not participate in an initial assessment (who left prior to this taking place) were excluded from the measure. No analysis was done on these patients for the purposes of the proposed measure or language services delivery. The hospitals routinely track this group of patients for other quality and safety concerns.

2b3.3 Results (Provide statistical results for analysis of exclusions, e.g., frequency, variability, sensitivity analyses):
No statistical analysis was performed for an analysis of exclusions.

2b4. Risk Adjustment Strategy. (For outcome measures, adjustment for differences in case mix (severity) across measured entities was appropriately tested with adequate results.)

2b4.1 Data/Sample (Description of the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):
No risk adjustment was performed. It is a process measure with a target of 100 percent of patients meeting the eligibility criteria receiving the service.

2b4.2 Analytic Method (Describe methods and rationale for development and testing of risk model or risk stratification including selection of factors/variables):
No risk adjustment was used. However, performance on the measure was stratified by language of the patient. The measure worked well in terms of language stratification and allowed hospitals to determine whether different language groups were more or less likely to receive language services. This enabled hospitals to customize their quality improvement strategies to meet the
2b5.3 Testing Results (Statistical risk model: Provide quantitative assessment of relative contribution of model risk factors; risk model performance metrics including cross-validation discrimination and calibration statistics, calibration curve and risk decile plot, and assessment of adequacy in the context of norms for risk models. Risk stratification: Provide quantitative assessment of relationship of risk factors to the outcome and differences in outcomes among the strata):

No need for risk-adjustment. This is a process measure that applies to all patients who indicate a preference for health care in a language other than English. Health care organizations may deliver language services differently depending on availability of services, patient/provider preferences, or characteristics of the encounter. For example, in-person interpreters may be used for discussions about end-of-life care, while telephone interpreters may be used for follow-up office visits. The measure does not differentiate or risk adjust between modes of interpretation or severity of the situation. The measure may be stratified by various patient or service characteristics, including severity, reason for encounter, location (e.g., ED, specific clinic, hospital floor or service, etc).

2b5. Identification of Meaningful Differences in Performance. (The performance measure scores were appropriately analyzed and discriminated meaningful differences in quality.)

2b5.1 Data/Sample (Describe the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):

The measure was used from November 2006-February 2008 by 10 hospitals and health systems in seven states. Four public and six non-profit hospitals, including two children’s hospitals, were included in the collaborative. The 10 hospitals differed in terms of their size, scope of language services program, and geographic location in the country. All of the participating hospitals had relatively robust language services programs as a requirement for participation. At the time of the program, the hospital with the largest language services program reported a total of 63 FTE for language services staff and over 140,000 interpreter encounters annually; the smallest language services program reported eight FTE staff for language services and approximately 40,000 interpreter encounters annually. In all but one hospital, Spanish was the most common language spoken by LEP patients. Many of the hospitals had substantial numbers of patients speaking Mandarin, Portuguese, Haitian Creole, Somali, Hmong, Arabic, Russian, and Cantonese. Most also had sizeable patient populations who communicated using American Sign Language, which was included among languages requiring effective quality improvement interventions.

2b5.2 Analytic Method (Describe methods and rationale to identify statistically significant and practically/meaningfully differences in performance):

Six hospitals demonstrated improvement on the proposed measure, which we defined as an increase of five percentage points or more from the first quarter of 2007 (when data was sufficiently robust to reflect language services delivery activity) to the first quarter of 2008. Median performance on the measure was 34% in the first quarter of 2007 compared to 53% in the first quarter of 2008. The change was not significantly significant and reflect substantial variability across the 10 hospitals. At one hospital, performance on the measure nearly doubled over each quarter and by the end of the collaborative, performance was over 80 at this hospital. Performance scores on the measure decreased for at least some period of time at five hospitals, which we believe was a result of better measurement of actual delivery of services.

2b5.3 Results (Provide measure performance results/scores, e.g., distribution by quartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance):

All of the hospitals spent the first quarter or two of the project developing systems to report performance on the proposed measure, with four not reporting on the measure until the second quarter. At the second quarter (Q1 2007), hospital performance ranged from approximately 8% to 90% on the measure. By the end of the collaborative (Q1 2008), performance ranged from 28% to 93%, with five hospitals clustering around 62-93 percent and five clustering around 30-40 percent. The majority of hospitals showed improvement on the measure, although half had some period of performance during which performance declined.

2b6. Comparability of Multiple Data Sources/Methods. (If specified for more than one data source, the various approaches result in comparable scores.)

2b6.1 Data/Sample (Describe the data or sample including number of measured entities; number of patients; dates of data; if a sample, characteristics of the entities included):
Hospitals selected at least two sites or services for this measure. All patients who met the eligibility criteria who received care at those sites were included in the measure.

2b6.2 Analytic Method (Describe methods and rationale for testing comparability of scores produced by the different data sources specified in the measure):
Rates were calculated for each participating hospital by quarter/year. All hospital scores were available to all hospitals in the collaborative -- no additional testing for comparability of scores was conducted.

2b6.3 Testing Results (Provide statistical results, e.g., correlation statistics, comparison of rankings; assessment of adequacy in the context of norms for the test conducted):
Performance within the collaborative was highly transparent, with hospitals able to view other hospitals' performance to allow them to learn strategies and techniques from more successful performers. No additional statistical analyses were conducted.

2c. Disparities in Care:  

2c.1 If measure is stratified for disparities, provide stratified results (Scores by stratified categories/cohorts): We also tracked performance across languages to determine whether patients who needed language services in Spanish, for example, were as likely to get those services as patients needing language services in Vietnamese, Haitian Creole, or any other language commonly spoken by patients at the hospitals. At one hospital, for example, performance on this measure was 38% for Spanish-speaking patients, 15% for Chinese-speaking patients, and 25% of patients speaking other languages. By the end of the collaborative, 71%, 85% and 46% percent of these patients, respectively, received services at initial assessment and discharge.

2c.2 If disparities have been reported/identified (e.g., in 1b), but measure is not specified to detect disparities, please explain:
Measure is designed to report/identify disparities.

2.1-2.3 Supplemental Testing Methodology Information:

Steering Committee: Overall, was the criterion, Scientific Acceptability of Measure Properties, met? (Reliability and Validity must be rated moderate or high)  Yes[] No[]
Provide rationale based on specific subcriteria:
If the Committee votes No, STOP

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)

C.1 Intended Purpose/Use (Check all the purposes and/or uses for which the measure is intended): Public Reporting, Quality Improvement (Internal to the specific organization), Regulatory and Accreditation Programs

3.1 Current Use (Check all that apply; for any that are checked, provide the specific program information in the following questions): Quality Improvement with Benchmarking (external benchmarking to multiple organizations), Quality Improvement (Internal to the specific organization)

3a. Usefulness for Public Reporting:  

3a.1. Use in Public Reporting - disclosure of performance results to the public at large (If used in a public reporting program, provide name of program(s), locations, Web page URL(s)). If not publicly reported in a national or community program, state the reason AND plans to achieve public reporting, potential reporting programs or commitments, and timeline, e.g., within 3 years of endorsement:  [For Maintenance – If not publicly reported, describe progress made toward achieving disclosure of performance results to the public at large and expected date for public reporting; provide rationale why continued endorsement should be
The measure is not publicly reported. Endorsement from NQF could establish a common platform for public reporting as a quality measure.

The results of the collaborative and the proposed measure can be viewed in the following publicly available publications:


3a.2 Provide a rationale for why the measure performance results are meaningful, understandable, and useful for public reporting. If usefulness was demonstrated (e.g., focus group, cognitive testing), describe the data, method, and results: The measure is at the very core of an organization’s ability to provide high-quality and safe care to its patients. It is not sufficient for a health care organization to provide language services; organizations must understand, track and improve upon their ability to provide language services to individual patients at critical points in the health care experience. Merely “having” interpreter services capacity does not mean that all patients who need these services are receiving them.

As part of the Speaking Together program, we commissioned a series of focus groups with patients at the participating hospitals. On average, 3 focus groups were held with different language groups who used or would potentially use language services to facilitate their communication with the participating health care organization. Patients clearly indicated that they recognize the need for high quality language services and that they understand that their care and safety are compromised without these services. They identified barriers to receiving these services at all of the hospitals.

3.2 Use for other Accountability Functions (payment, certification, accreditation). If used in a public accountability program, provide name of program(s), locations, Web page URL(s): The Joint Commissions Standards for Patient Provider Communication

http://www.jointcommission.org/assets/1/6/ARoadmapforHospitalsfinalversion727.pdf

3b. Usefulness for Quality Improvement: H□ M□ L□ I□ (The measure is meaningful, understandable and useful for quality improvement.)

3b.1. Use in QI. If used in quality improvement program, provide name of program(s), locations, Web page URL(s):

For Maintenance – If not used for QI, indicate the reasons and describe progress toward using performance results for improvement.

Organizations were able to use the measures to improve the delivery of interpreter services to LEP populations. Across 3 collaboratives/learning networks (Speaking Together; Aligning Forces for Quality Language Quality Improvement Collaborative; and the Aligning Forces for Quality Language Hospital Quality Network Improving Language Services program) organizations have used the measures and results to better identify patients needing services and identify the organization’s true demand for services; measure progress towards delivery of services; and use measures to identify waste and streamline systems.

Results are documented in:


3b.2. Provide rationale for why the measure performance results are meaningful, understandable, and useful for quality improvement. If usefulness was demonstrated (e.g., QI initiative), describe the data, method and results:

Organizations were able to use the measures to improve the delivery of interpreter services to LEP populations. Across 3 collaboratives/learning networks (Speaking Together; Aligning Forces for Quality Language Quality Improvement Collaborative; and the Aligning Forces for Quality Language Hospital Quality Network Improving Language Services program), organizations have used the measure and results to determine whether they are responding effectively to the demand for language services. Organizations use the measure to identify gaps in care and highlight quality and safety concerns related to communication between patients and clinicians.

Overall, to what extent was the criterion, Usability, met?  H □ M □ L □ I □

Provide rationale based on specific subcriteria:

4. FEASIBILITY

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

4a. Data Generated as a Byproduct of Care Processes: H □ M □ L □ I □

4a.1-2 How are the data elements needed to compute measure scores generated? (Check all that apply). Data used in the measure are: generated by and used by healthcare personnel during the provision of care, e.g., blood pressure, lab value, medical condition, Abstracted from a record by someone other than person obtaining original information (e.g., chart abstraction for quality measure or registry), Other Qualifications of persons providing the interpreter service are available through the organizations human resources departments and or language services departments.

4b. Electronic Sources: H □ M □ L □ I □

4b.1 Are the data elements needed for the measure as specified available electronically (Elements that are needed to compute measure scores are in defined, computer-readable fields): Some data elements are in electronic sources

4b.2 If ALL data elements are not from electronic sources, specify a credible, near-term path to electronic capture, OR provide a rationale for using other than electronic sources: Organizations have built specific screens and fields to collect the data in existing electronic records and have transferred these new screens and fields when upgrading existing electronic systems. Organizations have used paper methods to collect data variables until electronic methods are available. Knowing whether an LEP patient received interpreted care is a quality of care and patient safety issue where paper collection is warranted until electronic systems are available.

4c. Susceptibility to Inaccuracies, Errors, or Unintended Consequences: H □ M □ L □ I □

4c.1 Identify susceptibility to inaccuracies, errors, or unintended consequences of the measurement identified during testing and/or operational use and strategies to prevent, minimize, or detect. If audited, provide results: The measure is straightforward and instructions were provided in group settings and 1:1 on the rationale for the measures, specific variables, definitions and calculation of the measure. A detailed specifications manual was created.

4d. Data Collection Strategy/Implementation: H □ M □ L □ I □

A.2 Please check if either of the following apply (regarding proprietary measures):

4d.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 and frequency of data collection, sampling, patient confidentiality, time and cost of data collection, other feasibility/implementation issues (e.g., fees for use of proprietary measures): These are new data collection and not required for any other programs. However, The Joint Commission’s recent Patient Provider Communications Standard addresses demonstrating whether a patient's language needs were met during hospitalization. Organizations need to collaborate with clinicians and with information technology departments to create fields for collecting and for generating reports on how measure performance. Organizations report a large amount of time to collect and report the data in the beginning and once systems are in place, minimal time is needed as it is collected / documented during the provision of care.

Overall, to what extent was the criterion, Feasibility, met? H □ M □ L □ I □
Provide rationale based on specific subcriteria:

OVERALL SUITABILITY FOR ENDORSEMENT

Does the measure meet all the NQF criteria for endorsement? Yes ☐ No ☐

Rationale:

If the Committee votes No, STOP.
If the Committee votes Yes, the final recommendation is contingent on comparison to related and competing measures.

5. COMPARISON TO RELATED AND COMPETING MEASURES

If a measure meets the above criteria and there are endorsed or new related measures (either the same measure focus or the same target population) or competing measures (both the same measure focus and the same target population), the measures are compared to address harmonization and/or selection of the best measure before a final recommendation is made.

5.1 If there are related measures (either same measure focus or target population) or competing measures (both the same measure focus and same target population), list the NQF # and title of all related and/or competing measures:

5a. Harmonization

5a.1 If this measure has EITHER the same measure focus OR the same target population as NQF-endorsed measure(s): Are the measure specifications completely harmonized?

5a.2 If the measure specifications are not completely harmonized, identify the differences, rationale, and impact on interpretability and data collection burden:

5b. Competing Measure(s)

5b.1 If this measure has both the same measure focus and the same target population as NQF-endorsed measure(s): Describe why this measure is superior to competing measures (e.g., a more valid or efficient way to measure quality); OR provide a rationale for the additive value of endorsing an additional measure. (Provide analyses when possible):

N/A

CONTACT INFORMATION

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Co.6 Additional organizations that sponsored/participated in measure development:
Stage 8: Interpreter Measures Field Test Hospitals

Boston Medical Center
Children's Hospital of Philadelphia

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NQF #1821 L2: Patients receiving language services supported by qualified language services providers

Washington University School of Public Health and Health Services

ADDITIONAL INFORMATION

Workgroup/Expert Panel involved in measure development
Ad.1 Provide a list of sponsoring organizations and workgroup/panel members’ names and organizations. Describe the members’ role in measure development.

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Stage 7: Interpreter Measures

Speaking Together: Expert Clinicians and Interpreter Service Directors

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Boston, MA

Rochelle Ayala, M.D.
Memorial Healthcare System
Hollywood, FL
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<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>City, State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sang-ick Chang, M.D.</td>
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<td>Anita Hunt</td>
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<td>Loretta Saint-Louis, PhD</td>
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<td>Somerville, MA</td>
</tr>
<tr>
<td>Ad.2 If adapted, provide title of original measure, NQF # if endorsed, and measure steward. Briefly describe the reasons for adapting the original measure and any work with the original measure steward:</td>
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<th>Measure Developer/Steward Updates and Ongoing Maintenance</th>
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</table>

| Ad.3 Year the measure was first released: | 2006 |
| Ad.4 Month and Year of most recent revision: | 08, 2009 |
| Ad.5 What is your frequency for review/update of this measure? | Annual |
| Ad.6 When is the next scheduled review/update for this measure? | 06, 2012 |

| Ad.7 Copyright statement: | © 2009 Department of Health Policy, George Washington University School of Public Health and Health Services. |

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<th>Ad.8 Disclaimers:</th>
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| Ad.9 Additional Information/Comments: | The measures were accepted for the NQMC Web site and are at http://www.qualitymeasures.ahrq.gov/about/inclusion-criteria.aspx. This NQMC summary was completed by ECRI Institute on May 17, 2010. The information was verified by the measure developer on July 2, 2010. |

| Date of Submission (MM/DD/YY): | 01/17/2012 |