

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](#).

NQF #: 1860 NQF Project: Cancer Project
(for Endorsement Maintenance Review) Original Endorsement Date: Most Recent Endorsement Date:
BRIEF MEASURE INFORMATION
De.1 Measure Title: Anti-epidermal growth factor receptor monoclonal antibody therapy not received by metastatic colorectal cancer patients with KRAS gene mutation
Co.1.1 Measure Steward: American Society of Clinical Oncology
De.2 Brief Description of Measure: Percentage of adult patients (aged 18 or over) with metastatic colorectal cancer who have a KRAS gene mutation for whom anti-EGFR monoclonal antibody therapy was not received
2a1.1 Numerator Statement: Anti-EGFR monoclonal antibody therapy not received
2a1.4 Denominator Statement: Adult patients with metastatic colorectal cancer who have a KRAS gene mutation
2a1.8 Denominator Exclusions: Patient transfer to practice after initiation of chemotherapy
1.1 Measure Type: Process 2a1. 25-26 Data Source: Electronic Clinical Data : Electronic Health Record, Electronic Clinical Data : Pharmacy, Paper Records 2a1.33 Level of Analysis: Clinician : Group/Practice, Clinician : Team
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): n/a

STAFF NOTES <i>(issues or questions regarding any criteria)</i>
Comments on Conditions for Consideration:
Is the measure untested? Yes <input type="checkbox"/> No <input type="checkbox"/> If untested, explain how it meets criteria for consideration for time-limited 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 . <i>Measures must be judged to be important to measure and report in order to be evaluated against the remaining criteria. (evaluation criteria)</i>
1a. High Impact: H <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> I <input type="checkbox"/>

NQF #1860 Anti-epidermal growth factor receptor monoclonal antibody therapy not received by metastatic colorectal cancer patients with KRAS gene mutation

(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): Cancer, Cancer : Colorectal

De.5 Cross Cutting Areas (Check all the areas that apply):

1a.1 Demonstrated High Impact Aspect of Healthcare: Affects large numbers, A leading cause of morbidity/mortality, Patient/societal consequences of poor quality, Severity of illness

1a.2 If "Other," please describe:

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

Colorectal cancer is the third most commonly diagnosed cancer in men and women in the U.S., and the third leading cause of cancer death (Ng et al. 2008). In 2008, there will be an estimated 108,070 new cases and 49,960 deaths from colon cancer in the U.S. (Physician Data Query [PDQ] National Cancer Institute [NCI] 2008). Up to 20% of patients with colorectal cancer will present with metastases, with 5-year survival less than 10% (Ng et al. 2008). Supportive care alone provides a median survival of approximately 6 months for patients with metastatic colorectal cancer (Jackson et al. 2008).

Based on growth and aging of the U.S. population, medical expenditures for cancer in the year 2020 are projected to reach at least \$158 billion (in 2010 dollars) — an increase of 27 percent over 2010, according to a National Institutes of Health analysis.

The projections were based on the most recent data available on cancer incidence, survival, and costs of care. In 2010, medical costs associated with cancer were projected to reach \$124.6 billion, with the highest costs associated with breast cancer (\$16.5 billion), followed by colorectal cancer (\$14 billion).

1a.4 Citations for Evidence of High Impact cited in 1a.3: Allegra CJ, et al. American Society of Clinical Oncology Provisional Clinical Opinion: Testing for KRAS Gene Mutations in Patients with Metastatic Colorectal Carcinoma to Predict Response to Anti-Epidermal Growth Factor Receptor Monoclonal Antibody Therapy. April 20, 2009, JCO, Vol. 27, No. 12

Mariotto AB, Yabroff KR, Shao Y, Feuer EJ, and Brown ML. Projections of the Cost of Cancer Care in the United States: 2010-2020. Jan 19, 2011, JNCI, Vol. 103, No. 2

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:

We envision that use of this measure will improve concordance with recommendations for use of anti-EGFR monoclonal antibodies. Clinical trials data show that the benefit of using EGFR inhibitors in treating metastatic colorectal cancer, either as monotherapy or in combination with other treatment regimens, is limited to non-existent in patients with KRAS-mutated tumors. These data strongly suggest that patients with KRAS mutations are better served with other therapies, especially considering the harms and costs of anti-EGFR treatment.

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.]

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]

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

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.**

Quantity: H M L I **Quality:** H M L I **Consistency:** H M L I

Quantity	Quality	Consistency	Does the measure pass subcriterion1c?
M-H	M-H	M-H	Yes <input type="checkbox"/>
L	M-H	M	Yes <input type="checkbox"/> IF additional research unlikely to change conclusion that benefits to patients outweigh harms: otherwise No <input type="checkbox"/>
M-H	L	M-H	Yes <input type="checkbox"/> IF potential benefits to patients clearly outweigh potential harms: otherwise No <input type="checkbox"/>
L-M-H	L-M-H	L	No <input type="checkbox"/>

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):

1c.2-3 Type of Evidence (Check all that apply):

Clinical Practice Guideline, 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):

The body of evidence addresses the relationship between KRAS status in patients with metastatic colorectal cancer who underwent anti-EGFR MoAB therapy, specifically cetuximab or panitumumab, and the outcomes of tumor response, progression-free survival, and overall survival. Patients with and without KRAS mutations to codons 12 and 13 who underwent anti-EGFR MoAb therapy were evaluated with respect to these outcomes in both single-arm and randomized trials

The measure focus is on halting use of anti-EGFR MoAb therapies in patients who will not derive any benefit.

1c.5 Quantity of Studies in the Body of Evidence (Total number of studies, not articles): Ten total studies, five each of single-arm and randomized studies

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): Methodologic quality was judged for the five RCTs reviewed. Four trials were rated “good” quality. The fifth, rated “fair” quality had loss to follow-up >80% and did not maintain comparable groups throughout the trial period.

The evidence described in the RCTs, as well as the five additional single-arm trials is directly relevant to the focus and target population for the proposed measure to reduce use of anti-EGFR MoAbs in patients who will not derive a benefit.

No issues with imprecision were noted in the trials considered, sufficient events were available in the treatment arms. Although the KRAS findings were done as subgroup analyses in the randomized trials, the analyses were sufficiently powered and pre-specified in a statistical analysis prior to knowledge of KRAS status.

1c.7 Consistency of Results across Studies (Summarize the consistency of the magnitude and direction of the effect): Five single-arm studies that have retrospectively analyzed KRAS mutation status and tumor response rate in patients with metastatic colorectal cancer have shown a consistent lack of response to cetuximab or panitumumab in patients with a KRAS mutation.

Two RCTs compared best supportive care versus an anti-EGFR MoAb alone and enrolled patients who had received previously chemotherapy. In both trials, patients from the anti-EGFR MoAb arm had similar response rates (0% and 1.2%), demonstrating a similar magnitude of response and consistent direction. Median progression-free survival in the first trial was 7.4 months and 1.8 months in the second.

The other three RCTs considered first-line therapy of chemotherapy plus or minus an anti-EGFR MoAb. Among those patients with EGFR mutations who received chemotherapy and an anti-EGFR MoAb, response rates were similar: 36.2%, 32.7%, and 8.6%. Response duration among those same patients showed similar patterns (median progression free survival was 7.6, 5.5, and 8.6 months respectively), further demonstrating consistency of findings.

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 data show that the clinical benefit of using EGFR inhibitors in treating metastatic colorectal cancer, either as monotherapy or in combination with other treatment regimens, is limited, at best, in patients with KRAS-mutated tumors. These data strongly suggest that patients with KRAS mutations are better served with other therapies, especially considering the harms of anti-EGFR treatment.

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: n/a

1c.13 Grade Assigned to the Body of Evidence: n/a

1c.14 Summary of Controversy/Contradictory Evidence: No controversy or contradictory evidence reported.

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

BCBSA TEC Assessment. KRAS Mutations and Epidermal Growth Factor Receptor Inhibitor Therapy in Metastatic Colorectal Cancer. January 2009. Assessment Program Volume 23 (6).

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

"If KRAS mutation in codon 12 or 13 is detected, then patients with metastatic colorectal carcinoma should not receive anti-EGFR monoclonal antibody therapy as part of their treatment."

1c.17 Clinical Practice Guideline Citation: Allegra, CJ et al. American Society of Clinical Oncology Provisional Clinical Opinion: Testing for KRAS Gene Mutations in Patients With Metastatic Colorectal Carcinoma to Predict Response to Anti-Epidermal Growth Factor Receptor Monoclonal Antibody Therapy. Journal of Clinical Oncology 2009, 27(12): 2091.

1c.18 National Guideline Clearinghouse or other URL:

<http://www.asco.org/ASCOv2/Practice+%26+Guidelines/Guidelines/Clinical+Practice+Guidelines/American+Society+of+Clinical+Oncology+Provisional+Clinical+Opinion%3A+Testing+for+KRAS+Gene+Mutations+in+Patients+with+Metastatic+Colorectal+Carcinoma+to+Predict+Response+to+Anti-Epidermal+Growth+Factor+Receptor+Monoclonal+Antibody+Therapy>

1c.19 Grading of Strength of Guideline Recommendation. Has the recommendation been graded? **Yes**

1c.20 If guideline recommendation graded, identify the entity that graded the evidence including balance of representation and any disclosures regarding bias: The guideline panel, selected and charged by the ASCO Health Services Committee, and charged with evaluating the evidence and developing recommendations assessed the recommendations. The panel includes six content experts and a patient representative. Panel membership was chosen in accordance with ASCO's Conflict of Interest Management Procedures for Clinical Practice Guidelines ("COI Procedures"). The COI Procedures call for the majority of panel members to have no relationships with companies potentially affected by the guideline, and generally require panel cochairs to be free from relationships with affected companies. The guideline was approved by a unanimous vote of (1) the ad hoc panel members (2); the HSC leadership (Past-Chair, Chair, Chair-Elect, and selected content experts) and selected content experts drawn from the HSC membership; and (3) a subset of the ASCO Board (Past-President, President, President-Elect) and selected content experts drawn from the Board membership and appointed at the discretion of the President.

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

1c.22 If other, identify and describe the grading scale with definitions: A narrative description of the recommendation strength is included.

1c.23 Grade Assigned to the Recommendation: n/a

1c.24 Rationale for Using this Guideline Over Others: This guideline is based on a systematic review of the literature and formal of evaluating evidence and developing recommendations. The same recommendation is included in guidelines from the European Society of Medical Oncology and the National Comprehensive Cancer Network.

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: High 1c.27 Consistency: High

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.

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? **No**

S.2 If yes, provide web page URL:

2a. RELIABILITY. Precise Specifications and Reliability Testing: H M L I

2a1. Precise Measure Specifications. (The measure specifications precise and unambiguous.)

2a1.1 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):

Anti-EGFR monoclonal antibody therapy not received

2a1.2 Numerator Time Window (The time period in which the target process, condition, event, or outcome is eligible for inclusion):

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):
Anti-EGFR monoclonal antibody therapy = No Anti-EGFR monoclonal antibody therapy received

2a1.4 Denominator Statement (Brief, narrative description of the target population being measured):
Adult patients with metastatic colorectal cancer who have a KRAS gene mutation

2a1.5 Target Population Category (Check all the populations for which the measure is specified and tested if any): **Adult/Elderly Care**

2a1.6 Denominator Time Window (The time period in which cases are eligible for inclusion):
None specified; should be specific to the periodicity of analysis

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):

Age at diagnosis greater than or equal to 18 years
And
2 or more encounters at the reporting site
And
Colon or rectal cancer diagnosis (153.x, 154.0, 154.0, 154.1, 154.8)
And
Presence of metastatic disease documented
And
KRAS gene mutation detected

Definitions

Encounter = new patient visit (CPT 99201 -99205) or established patient (CPT 99211-99215), not consult (CPT 99241-99245 office consult or inpatient consult CPT 99251-99255)

2a1.8 Denominator Exclusions (Brief narrative description of exclusions from the target population):
Patient transfer to practice after initiation of chemotherapy

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):

n/a

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):

n/a

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.):

n/a

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:

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.):

This measure is a proportion with exclusions; thus, the calculation algorithm is: [Patients meeting the numerator/\(Patients in the denominator – Patients with valid exclusions\) x 100](#)

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

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):

[QOPI sampling methodology: sequentially select patients diagnosed in the past 2 years with an invasive malignancy, and who have had at least 2 encounters at the practice site in the preceding 6 months, until all patients are included or target abstraction sample sizes are met. Target sample size is based on the number of full-time physician full time equivalents . Details can be found at <http://qopi.asco.org>.](#)

[Alternate sampling methodology: Include all eligible patients \(i.e., 100% sample\).](#)

2a1.25 Data Source (Check all the sources for which the measure is specified and tested). If other, please describe: [Electronic Clinical Data : Electronic Health Record, Electronic Clinical Data : Pharmacy, 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.): [QOPI data are entered via a case report form accessed via a secure web portal. The case report form includes logic and data validation.](#)

2a1.27-29 Data Source/data Collection Instrument Reference Web Page URL or Attachment: [URL <http://qopi.asco/org/>](#)

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

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

2a1.34-35 Care Setting (Check all the settings for which the measure is specified and tested): [Ambulatory Care : Clinician Office](#)

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):

2010-2011 audit: QOPI practices applying for the QOPI Certification Program are required to submit copies of documentation from 3-5 records which were previously abstracted. Trained ASCO auditors randomly select records within each domain for audit. Agreement at the data element level is documented. 426 audited records from 130 practices were complete in November 2011 and included in the concordance analysis.

2a2.2 Analytic Method (Describe method of reliability testing & rationale):

2010-2011 audit: Agreement data from 426 records were imported into a formatted data table for analysis. First, agreement data were used to calculate concordance at the data element level. Second, by applying the measure analytic calculation, concordance at the measure level was calculated.

2a2.3 Testing Results (Reliability statistics, assessment of adequacy in the context of norms for the test conducted):

2010-2011 audit: measure level concordance 90% (valid N=145 records)

2b. VALIDITY. Validity, Testing, including all Threats to Validity: H M L I

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:**

Measure specifications are consistent with the evidence cited. Members of the ASCO guideline development panel participated in measure development to ensure consistency.

2b2. Validity Testing. (Validity testing was conducted with appropriate method, scope, and adequate demonstration of validity.)

2b2.1 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):

2b2.2 Analytic Method (Describe method of validity testing and rationale; if face validity, describe systematic assessment):

In 2009, an ASCO steering group comprised of medical oncologists, health services researchers, and quality experts undertook an iterative, criteria-based assessment process to identify QOPI measures that are appropriate for use for accountability measurement. This measure was selected as appropriate for accountability.

Face validity of the measure score was assessed via survey of experts involved in ASCO committees in 2011. The survey explicitly asked whether the scores obtained from the measure as specified will provide an accurate reflection of quality and can be used to distinguish good and poor quality.

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):

Face validity survey results revealed that 82% of respondents 'strongly agree' or 'agree' that this measure provides an accurate reflection of quality and can be used to distinguish good and poor quality.

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):

n/a

2b3.2 Analytic Method (Describe type of analysis and rationale for examining exclusions, including exclusion related to patient preference):

n/a

2b3.3 Results (Provide statistical results for analysis of exclusions, e.g., frequency, variability, sensitivity analyses):

na/

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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):

n/a

2b4.2 Analytic Method (Describe methods and rationale for development and testing of risk model or risk stratification including selection of factors/variables):

n/a

2b4.3 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):

n/a

2b4.4 If outcome or resource use measure is not risk adjusted, provide rationale and analyses to justify lack of adjustment: n/a

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):

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

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):

This measure has been implemented in QOPI for several years. In this self-selected group of oncology practitioners committed to quality assessment and improvement, concordance with this measure has been high overall; however, a proportion of practices (new and experienced) continue to demonstrate sub-optimal variation.

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):

n/a

2b6.2 Analytic Method (Describe methods and rationale for testing comparability of scores produced by the different data sources specified in the measure):

n/a

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):

n/a

2c. Disparities in Care: H M L I NA (If applicable, the measure specifications allow identification of disparities.)

2c.1 If measure is stratified for disparities, provide stratified results (Scores by stratified categories/cohorts): n/a

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

explain:

n/a

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): Professional Certification or Recognition Program, Public Reporting, Quality Improvement (Internal to the specific organization), Quality Improvement with Benchmarking (external benchmarking to multiple organizations)

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: H M L I

(The measure is meaningful, understandable and useful 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 considered.]**

n/a

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: **Members of the Alliance of Dedicated Cancer Centers (ADCC), an organization whose members are PPS-exempt cancer centers, independently reviewed this measure and support its use for public reporting. The ADCC agrees that the measure is supported by the current literature, is important to measure, and reflects excellence in patient care.**

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): **An ASCO steering group comprised of medical oncologists, health services researchers, and quality experts undertook an iterative, criteria-based assessment process to identify QOPI measures that are appropriate for the QOPI Certification Program. The QOPI Certification Program is a practice-level certification program based on exemplary performance against QOPI measures, compliance with standards for chemotherapy safety, and a rigorous site visit. <http://qopi.asco.org/certification>**

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].

This measure has been used in ASCO's Quality Oncology Practice Initiative (QOPI) since 2009. QOPI is a medical oncology practice improvement initiative that was launched nationally in 2006. Registered practices can participate in QOPI data submission rounds twice per year. Abstracted data are submitted via a secure web portal. Reports generated at the close of data collection rounds provide practice-specific and national aggregate data. About 750 diverse oncology practices across the country are registered for the QOPI program. During each round of QOPI data collection within the past year, approximately 250 practices submitted about 25,000 patient records.

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:

QOPI is a program developed by and for medical oncologists to inform their quality improvement. Diverse committees (including quality committees and relevant guideline panels) and member groups select measurement areas and contribute to measure development. One of the explicit criteria for review of concepts for measure development and implementation in QOPI is whether the reported data will be meaningful, understandable, and useful for practice-based QI.

This measure has been implemented in QOPI since 2009; data have been submitted over 8 rounds by hundreds of practice sites from thousands of patient records. QOPI measures are reviewed twice per year by committee experts to determine whether updates or 'sunsetting' are needed. All participating QOPI practices are surveyed twice per year with specific questions regarding abstraction feasibility and usefulness of reported measures. Data availability, interpretation, or other abstraction issues received via the QOPI HelpDesk are logged, organized, and analyzed. Ad hoc feedback is welcomed and received. QOPI participating practices convene yearly at ASCO's Annual Meeting to inform the program and its measures.

These formal and informal mechanisms for input from QOPI member practices provide evidence regarding the meaningfulness of QOPI measures for quality improvement. The measure is easy to interpret and understand; it is backed by strong evidence, and represents a clear, actionable target for improvement if a practice notes a gap.

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, Coded by someone other than person obtaining original information (e.g., DRG, ICD-9 codes on claims), Abstracted from a record by someone other than person obtaining original information (e.g., chart abstraction for quality measure or registry)

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: Electronic sources of all data elements are not always 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:

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

A.2 Please check if either of the following apply (regarding proprietary measures): [Proprietary measure](#)

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):

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):

CONTACT INFORMATION

Co.1 Measure Steward (Intellectual Property Owner): [American Society of Clinical Oncology, 2318 Mill Road, Suite 800, Alexandria, Virginia, 22314](#)

Co.2 Point of Contact: [Thomas, Murray, Tom.Murray@asco.org, 571-483-1641-](#)

Co.3 Measure Developer if different from Measure Steward: [American Society of Clinical Oncology, 2318 Mill Road, Suite 800, Alexandria, Virginia, 22314](#)

Co.4 Point of Contact: [Thomas, Murray, Tom.Murray@asco.org, 571-483-1641-](#)

NQF #1860 Anti-epidermal growth factor receptor monoclonal antibody therapy not received by metastatic colorectal cancer patients with KRAS gene mutation

Co.5 Submitter: [Thomas, Murray, Tom.Murray@asco.org, 571-483-1641-, American Society of Clinical Oncology](#)

Co.6 Additional organizations that sponsored/participated in measure development:

Co.7 Public Contact: [Thomas, Murray, Tom.Murray@asco.org, 571-483-1641-, American Society of Clinical Oncology](#)

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.

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:

Measure Developer/Steward Updates and Ongoing Maintenance

Ad.3 Year the measure was first released:

Ad.4 Month and Year of most recent revision:

Ad.5 What is your frequency for review/update of this measure?

Ad.6 When is the next scheduled review/update for this measure?

Ad.7 Copyright statement:

Ad.8 Disclaimers:

Ad.9 Additional Information/Comments:

Date of Submission (MM/DD/YY): [01/13/2012](#)