TO: NQF Members and Public

FR: NQF Staff

RE: Pre-voting review for National Voluntary Consensus Standards for Cost and Resource Use (Cycle 1): A Consensus Report

DA: August 30, 2011

Resource use measures count the frequency of defined health system resources, are broadly applicable and comparable measures of health services counts that are applied to a population or event. This project seeks to endorse cost and resource use measures, which will serve as building blocks for efficiency of care measures and signal the measure development industry of the urgent need to develop measures of efficiency that integrate quality domains with cost and resource use measures. This is NQF's first effort focused on endorsing cost and resource use measures.

Four condition-focused Technical Advisory Panels (TAPs) for pulmonary, cardiovascular and diabetes, bone and joint, and cancer conditions were convened to assist the project's 23-member Steering Committee in making recommendations. In this first review cycle, seventeen measures were evaluated for suitability as voluntary consensus standards for accountability and performance improvement; of those, nine measures were withdrawn by the developer. To date, the Steering Committee has recommended four cost and resource use measures for endorsement.

The draft document, *National Voluntary Consensus Standards for Cost and Resource Use (Cycle 1): A Consensus Report* is posted on the NQF website along with the following additional information:

- measure submission forms; and
- <u>meeting and call summaries</u> from the TAP and Steering Committee's discussions.

In addition to commenting on the recommended measures, we request that comments also be submitted on the "Applying Resource Use Measure Evaluation Criteria" section of the report. Please submit your comments on this section in the "General Comment" section of the commenting tool, including a reference to the page and line number in the report.

Pursuant to section II.A of the Consensus Development Process v. 1.8, this draft document, along with the accompanying material, is being provided to you at this time for purposes of review and comment only and is not intended to be used for voting purposes. You may post your comments and view the comments of others on the <u>NQF website</u>.

NQF Member comments must be submitted no later than 6:00 pm ET, September 28, 2011. Public comments must be submitted no later than 6:00 pm ET, September 21, 2011.

Thank you for your interest in NQF's work. We look forward to your review and comments.

NATIONAL VOLUNTARY CONSENSUS STANDARDS FOR COST AND RESOURCE USE (CYCLE 1): A CONSENSUS REPORT

DRAFT REPORT FOR COMMENTING

AUGUST 30, 2011

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NATIONAL VOLUNTARY CONSENSUS STANDARDS FOR COST AND RESOURCE USE (CYCLE 1): A CONSENSUS REPORT

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36 EXECUTIVE SUMMARY

37 As current health reform efforts focus on expanding coverage, increasing access to care, and reducing costs, it is important to understand how the system uses resources in the context of 38 health outcomes. Combining resource use (or cost) and quality data will enable the system to 39 40 better evaluate efficiency of care. Understanding resource use measurement as a building block 41 of efficiency is a first step toward this goal. For the purposes of this project, resource use measures are defined as broadly applicable and comparable measures of health services counts 42 43 (in terms of units or dollars) that are applied to a population or event (e.g., diagnoses, procedures, or encounters). A resource use measure counts the frequency of defined health 44 system resources; some may further apply a dollar amount (e.g., allowable charges, paid 45 amounts, or standardized prices) to each unit of resource use. 46

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This Consensus Development Process (CDP) project will endorse resource use (or cost) 48 measures that will serve as building blocks for efficiency of care measures and signal the 49 measure development industry of the urgent need to develop resource use and efficiency that 50 integrate quality domains with resource use measures. In applying the Resource Use Measure 51 Evaluation Criteria for the first time, the Technical Advisory Panels (TAPs) and Steering 52 Committee encountered several overarching issues during their discussions and evaluations of 53 the measures. Some issues varied by developer as each developer submitted measures with very 54 distinct approaches. This report reflects the discussion of those issues as well as the measure-55 specific evaluation summaries for four measures reviewed during the first review cycle. A 56 57 subsequent report will address the remaining measures considered during this project and any additional recommendations provided by the Committee. 58

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62	Four measures are recommended for endorsement as voluntary consensus standards suitable for
63	accountability and performance improvement:
64	• (1557) Relative Resource Use for People with Diabetes (RDI) (NCQA)
65	• (1558) Relative Resource Use for People with Cardiovascular Conditions (NCQA)
66	• (1598) Total Resource Use Population-based PMPM Index (HealthPartners)
67	• (1604) Total Cost of Care Population-based PMPM Index (HealthPartners)
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93 BACKGROUND

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The United States' health care expenditures are unmatched by any country in the world.¹ This 95 96 spending, however, has not resulted in better health for Americans. In fact, higher spending has not led to lower mortality, greater patient satisfaction, improvements in access to health care, or 97 higher quality care.^{2,3,4} This phenomenon of high spending with disproportionate outcomes 98 points to a system laden with waste. The contributing factors to this alarming trend are as 99 100 complex as the health care system itself, with physician practice patterns, regional market influences, and access to care as major players. Meanwhile, the United States' health care 101 spending continues to increase at a rate of seven percent per year, and is largely focused on 102 treating acute and chronic illness rather than on preventative care.⁵ 103

104

As ongoing health reform efforts focus on expanding coverage, increasing access to care, and 105 reducing costs, it is important to understand how resources are currently being used in the system 106 in the context of quality, preferably related to health outcomes. The combination of resource use 107 (or cost) and patient quality data will enable the system to better evaluate efficiency of care. 108 109 Several provisions in the Affordable Care Act (ACA), slated to be implemented over the next five years, require using resource use data to further support efforts to move toward a value-110 111 based purchasing (VBP) payment model. One such provision requires the Secretary of Health and Human Services to develop an episode grouper that combines separate but clinically related 112 items and services into an episode of care for an individual.⁶ Additionally, resource use data will 113 also be included on the physician compare website, as well as a physician value modifier that 114 will be used to adjust fee-for-service (FFS) payments by combining physician performance on 115 quality and resources use. While the ACA legislation is focused on the Medicare population, 116 117 understanding resource use measurement as a building block of efficiency, even in the context of commercial-based measures, is a first step toward meeting these goals. 118

119 For the purposes of this project, resource use measures are defined as broadly applicable and 120 comparable measures of health services counts (in terms of units or dollars) that are applied to a population or event (broadly defined to include diagnoses, procedures, or encounters). A 121 resource use measure counts the frequency of defined health system resources; some may further 122 apply a dollar amount (e.g., allowable charges, paid amounts, or standardized prices) to each unit 123 of resource use. Current approaches for measuring resource use range from broadly focused 124 125 measures, such as per capita measures, which address total healthcare spending (or resource use) per person, to those with a more narrow focus, such as measures dealing with the healthcare 126 spending or resource use of an individual procedure (e.g., a hip replacement). 127

This Consensus Development Process (CDP) project, the second phase of a two-phase effort, 128 129 will endorse resource use measures, which will serve as building blocks for efficiency of care measures and signal the measure development industry of the urgent need to develop resource 130 131 use and efficiency measures that integrate quality domains. Phase one, which began in 2009, was aimed at understanding resource use measures and identifying the important attributes to 132 133 consider in their evaluation. During this phase, the current NQF Measure Evaluation Criteria used for the evaluation of quality measures was reviewed and refined by the Resource Use 134 135 Steering Committee to address the unique aspects of resource use measures, resulting in the NQF Resource Use Measure Evaluation Criteria. A single Steering Committee was used across both 136 137 phases of work, with the addition of four Technical Advisory Panels (TAPs) in phase two to assist the Committee in evaluating the measures' clinical and methodological aspects. The CDP 138 project was divided into two review Cycles between which fourteen focus areas were assigned: 139 140

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Cycle 1

Cardiovascular

- Congestive heart failure (CHF)
- Coronary artery disease (CAD)
- Acute myocardial infarction (AMI)

Stroke

Diabetes

Non-condition specific (e.g. per capita-population)

Cycle 2

Pulmonary

- Chronic obstructive pulmonary disease (COPD)
- Asthma
- Pneumonia

Cancer

- Breast cancer
- Colorectal cancer

Bone/Joint

- Hip or knee replacement
- Hip or pelvic fracture
- Low back pain

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- 146 This report reflects the discussion and overarching issues the Committee identified while
- 147 evaluating cost and resource use measures submitted to the project; measure-specific evaluation
- summaries are provided only for a subset of Cycle one measures. A subsequent report will
- address remaining Cycle one measures as well as all Cycle two measures.

150

151 STRATEGIC DIRECTIONS FOR NQF

152 NQF's mission includes three parts: 1) building consensus on national priorities and goals for

153 performance improvement and working in partnership to achieve them; 2) endorsing national

154 consensus standards for measuring and publicly reporting on performance; and 3) promoting the

- attainment of national goals through education and outreach programs. As greater numbers of
- 156 quality measures are developed and brought to NQF for consideration of endorsement, NQF
- 157 must assist stakeholders in measuring "what makes a difference" and addressing what is
- 158 important to achieve the best outcomes for patients and populations.

- Several strategic issues have been identified to guide consideration of candidate consensusstandards:
- 162 DRIVE TOWARD HIGH PERFORMANCE. Over time, the bar of performance expectations
- should be raised to encourage achievement of higher levels of system performance.
- 164 EMPHASIZE COMPOSITES. Composite measures provide much-needed summary information
- pertaining to multiple dimensions of performance and are more comprehensible to patients andconsumers.
- 167 MOVE TOWARD OUTCOME MEASUREMENT. Outcome measures provide information of
- 168 keen interest to consumers and purchasers, and when coupled with healthcare process measures,
- they provide useful and actionable information to providers. Outcome measures also focus
- attention on much-needed system-level improvements because achieving the best patient
- 171 outcomes often requires a carefully designed care process, teamwork, and coordinated action on
- the part of many providers.
- 173 CONSIDER DISPARITIES IN ALL WE DO. Some of the greatest performance gaps relate to
- 174 care of minority populations. Particular attention should be focused on identifying disparities-
- sensitive performance measures and on identifying the most relevant
- 176 race/ethnicity/language/socioeconomic strata for reporting purposes.
- 177 NATIONAL PRIORITIES PARTNERSHIP AND THE NATIONAL QUALITY

178 STRATEGY

- 179 The <u>National Priorities Partnership</u>, a multi-stakeholder collaborative of 48 organizations
- 180 convened by NQF, plays a key role in identifying strategies for achieving national goals for
- 181 quality healthcare and facilitating coordinated, multi-stakeholder action. The Department of
- 182 Health and Human Services has asked the Partnership for its collective, multi-stakeholder input
- 183 on the <u>National Quality Strategy</u> (NQS) framework, which includes three inextricably linked
- 184 domains—better care, affordable care, and healthy people/healthy communities—around which
- priorities, goals, measures, and strategic opportunities for improvement are to be identified
- 186 and/or refined.

187 When the NQS was announced in March 2011, one of the priorities it identified was Making 188 189 Quality Care More Affordable. The resource use measure endorsement process is an important step toward measuring affordable care by evaluating resource use and cost measures. These 190 191 measures can identify opportunities to reduce the rate of growth in health care spending, and when paired with quality measures, can help evaluate the efficiency of the health care system. 192 193 **RELATED NQF WORK** 194 195 This project is NQF's first effort focused on evaluating and endorsing cost and resource use 196 197 measures. In 2009, NQF completed a measurement framework for evaluating efficiency across patient-focused episodes of care. This report, NQF Measurement Framework: Evaluating 198 Efficiency across Patient-Focused Episodes of Care, presents the NQF-endorsed® measurement 199 framework for assessing efficiency, and ultimately value, associated with the care over the 200 course of an episode of illness and sets forth a vision to guide ongoing and future efforts. 201 202 **RESOURCE USE MEASURES IN CONTEXT** 203 204 205 This consensus development process seeks to endorse resource use (or cost) measures as building blocks toward measuring efficiency of care. Efficiency can be defined broadly as the 206 207 resource use (or cost) associated with a specific level of performance with respect to the other five Institute of Medicine (IOM) aims of quality: safety, timeliness, effectiveness, equity, and 208 patient-centeredness.⁷ Resource use measures can also be used to assess value by integrating 209 preference-weighted assessments of the quality and cost performance of a specified stakeholder, 210 such as an individual patient, consumer organization, payer, provider, government, or society.⁸ 211 212 213 As a building block in understanding efficiency and value, NQF supports the using and reporting of resource use measures in the context of quality performance, preferably outcome measures. 214

215 Using resource use measures independent of quality measures does not provide an accurate

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216	assessment of efficiency or value, and may lead to adverse unintended consequences in the
217	health care system.
218	
219	Resource use measures used to assess efficiency and value should be important to measure, have
220	scientifically acceptable properties, and be usable and feasible. Those resource use measures
221	under evaluation in this process should independently meet these endorsement standards. Future
222	efforts will need to evaluate how resource use measures can be paired with appropriate quality
223	measures to assess the healthcare system's efficiency. These efforts should consider quality and
224	resource measure alignment of the underlying population, exclusions, and risk-adjustment,
225	among other measure properties.
226	
227 228	NQF'S CONSENSUS DEVELOPMENT PROCESS
229	NQF's National Voluntary Consensus Standards for Cost and Resource Use project seeks to
230	endorse resource use and cost measures for performance improvement and accountability in the
231	context of quality measures.
232	
233	Evaluating Potential Consensus Standards
234	Candidate consensus standards were solicited through a Call for Measures on January 31, 2011.
235	In the first review cycle, seventeen measures were submitted and evaluated for suitability as
236	voluntary consensus standards for accountability; nine of these were withdrawn by the

237 developer. The measures were evaluated using <u>NQF Resource Use Measure Evaluation Criteria</u>.

238 Four condition-focused TAPs for pulmonary, cardiovascular and diabetes, bone and joint, and

239 cancer conditions rated each candidate consensus standard according to the subcriteria and

identified strengths and weaknesses to assist the Committee in making recommendations. The

241 23-member, multi-stakeholder Committee evaluated the subcriteria of the non-condition specific

242 measures, provided final evaluations of the four main criteria—importance to measure and

report, scientific acceptability of the measure properties, usability, and feasibility—and made

endorsement recommendations for all measures. Measure developers were available during TAPand Committee discussions to respond to questions and clarify any issues or concerns.

246 Principles for Resource Use Measure Evaluation

247 In Phase one of this project, the Committee defined resource use measures and their constructs to

better understand how to evaluate these measures. For the purposes of this project, resource use

249 measures are defined as broadly applicable and comparable measures of health services counts

250 (units or dollars) applied to a population or event (diagnoses, procedures, or encounters).

251 Resource use measure scores may be expressed as counts, dollars, or even observed-to-expected

ratios. The Committee developed the following principles to frame its subsequent effort to refine

the evaluation criteria for resource use measures:

1. Efficiency is one of the Institute of Medicine (IOM) five quality aims and is a function of resource use and health outcomes: *Efficiency* = fx(resource use, health outcomes)

256 2. Resource use measures are the amount of resources used per population, episode, or257 procedure.

3. Resource use measures are an important building block for measures of efficiency of
care; future measurement efforts should integrate and explicitly incorporate measures of quality,
health outcomes, or appropriateness.

4. The justification for and intended purpose of resource use measures is to examine,understand, and ultimately reduce unnecessary costs in care.

5. There is a continuum of resource use measures (i.e., per capita to per procedure); all types
under consideration for endorsement must meet NQF evaluation criteria for such measures.

265 6. The resource use measure specification and calculation must be explicitly stated and266 transparent so the approach can be deconstructed and implemented in a standard manner.

267 7. Comprehensive measures are preferable, even if combining multiple service categories
268 into one resource use estimate increases complexity; using methodologically sound methods is of
269 paramount importance.

270 8. The final resource use measure or result should be simple and easy for all stakeholders to271 interpret.

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- 9. Methods for combining the component scores influence the interpretation of the measure
 results and must be justified (e.g., averaging across all component scores may obscure low or
 high scores of individual components).
- 275 10. While resource use measure developers may have fundamental differences in approach,276 these principles should apply across all types and approaches.
- 11. NQF considers transparency as key to ensuring the intended audiences understand the
- results and can use them for decision making. Resource use measures are often highly complex,
- with lengthy algorithm decision trees that can make clarity difficult, particularly when some
- components may be only be partially transparent to the user.
- 281

282 Applying the Resource Use Measure Evaluation Criteria

With a working definition of resource use measures and guiding principles in place, the
Committee completed a detailed review of the standard NQF Measure Evaluation Criteria. This
review resulted in the NQF Resource Use Measure Evaluation Criteria, based on the same four
major criteria used to evaluate quality measures - importance, scientific acceptability, usability,
and feasibility - with targeted changes to the subcriteria to address the unique attributes of
resource use measures.

289

290 In applying the Resource Use Measure Evaluation Criteria for the first time, the TAPs and Committee encountered several overarching issues during their discussions and evaluations of 291 the measures. Some issues varied by developer as each developer submitted measures with very 292 distinct approaches. The Committee factored these issues into their ratings and recommendations 293 for multiple measures, recognizing the need to balance the quantity and specificity of 294 information required to adequately evaluate the measure and the burden on the developer to 295 provide this information. These issues are included below in the discussion of each criterion, in 296 297 addition to the summary provided of each individual measure in the evaluation summary table. 298

299 Importance

The importance criterion for resource use measures, like that for quality measures, is aimed at 300 determining the extent to which the focus of the measure (e.g., hip fractures, coronary artery 301 disease) is important to measure and report. For resource use measures, the developers were 302 asked to demonstrate high impact by showing there is variation and opportunities for 303 improvement in the delivery of care for the identified condition. The TAP concluded that the 304 measures submitted were broad and inclusive of high impact conditions. Additional subcriteria 305 306 were tailored specifically for resource use measures. These subcriteria included an evaluation of 307 whether the intent of the measure had been clearly described and whether the resource use service categories selected to measure costs accurately reflected the intent and focus of the 308 measure. All measure submissions were found to be important. 309

310

311 Scientific Acceptability

312 Similar to quality measures, evaluation of the scientific acceptability of resource use measures includes the reviewing of the measure's specifications, reliability and validity testing, and 313 314 approach to addressing disparities. Within the reliability criterion, the completeness, repeatability of the specifications, and the adequacy of the reliability testing methodology and results are 315 316 evaluated. Applying the validity criteria, the Committee was asked to determine whether the specifications reflected the intent of the measure and addressed those areas where there was 317 318 variation, as demonstrated in importance. The validity criterion also includes an assessment of the adequacy of validity testing, exclusions, risk-adjustment, and the identification of meaningful 319 320 differences.

321

322 *Resource Use Specification Modules*

The resource use measure specifications were delineated by five main modules, including: 1) data protocol, 2) measure clinical logic, 3) measure construction logic, 4) adjustments for comparability, and 5) measure reporting. To allow for user flexibility, the developers were permitted to submit measurement steps in the data protocol and reporting modules as specifications or guidelines, or to not submit instructions at all. Specifications are inherent

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measure characteristics that must be fully implemented in order to obtain valid measure results.

329 Guidelines, on the other hand, are suggested approaches from the developer on possible ways to

implement these steps. Evaluation of resource use measure specifications proved to be the most

intensive effort in the review process. The issues identified within each of the specification

- 332 modules have been outlined below.
- 333

334 Data protocol

The data protocol module allows developers to submit instructions and analytic steps for cleaning or aggregating relevant data necessary to implement the specifications and produce valid results. Measure developers submitted the following data protocol information: data preparation, data inclusion criteria, data exclusion criteria and considerations for missing data. Recognizing that not all developers create specifications around these steps, the Committee concluded these items could be submitted as specifications or guidelines, or not submitted at all.

All of the measures submitted use administrative claims as the data source. Administrative
claims offer the benefit of reduced administrative burden for providers and measure
implementers in collecting and reporting data elements. However, variation in coding practices
has the potential to affect the reliability and validity of any measure that relies on administrative
and claims data alone, including resource use measures. This may be particularly true for entities
providing care under capitated financial arrangements that may capture fewer diagnostic and
procedural codes per record than those operating under traditional FFS arrangements.

Accountable entities may outsource services through pharmacy benefit managers (PBMs) or behavioral/mental health carve-outs, which may result in incomplete or missing pharmacy or behavioral/mental health data. These entities can outsource administration of outpatient prescription drug benefits to PBMs.⁹ Carve out arrangements allow accountable entities to separate behavioral/mental health insurance benefits by contracting with a third party to manage care and/or the insurance risk for patients requiring these services.¹⁰ The Committee agreed that total resource use for entities that do not receive member claim information from carve-out

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357	pharmacy and behavioral/mental health services may not be comparable to resource use for those
358	that do not outsource these services. In this instance, interpreting the overall costs for a patient
359	across health plans with and without carve-out arrangements would be misleading.
360	
361	However, entities without member claims data from their carve-out arrangements can be flagged
362	for comparison with entities with similar missing benefit information. Because resource use
363	measures allow claims to be assigned to resource use categories (i.e. laboratory and imaging),
364	these categories can be used to compare costs across entities even when outsourcing
365	arrangements are present. For example, comparing laboratory costs or imaging costs across
366	entities within a total per-capita resource use measure would be informative even when
367	pharmacy data are not available.
368	
369	Clinical logic
370	Evaluation of the measure clinical logic included steps to identify the condition or event of
371	interest and any clustering of diagnoses or procedures. This evaluation included examining the
372	clinical topic area and determining whether or not the measure accounts for co-morbid
373	conditions, disease interactions, clinical hierarchies, clinical severity levels, and concurrency of
374	clinical events.
375	
376	The complexity of the submitted measure specifications made evaluating the measure's clinical
377	logic challenging. For example, measure developers designed various methodologies to assign
378	patients to a severity level; however, due to complex algorithms, specific details and code lists
379	used to determine the assignment of patients to severity categories were difficult to interpret.
380	
381	Exclusions were a focus during evaluation of the resource use measure's clinical logic. Although
382	the creation of homogenous populations enables comparability, measure developers should
383	ensure that measure exclusions do not allow for complications from poor care to drive patients
384	out of the episode, thus rewarding entities that provide inadequate care. For example, a biased

measure score may be created by excluding patients with acute myocardial infarction (AMI) who
are discharged from a skilled nursing facility or excluding patients who are not discharged alive.

Finally, resource use measures that seek to create more homogenous patient populations are often limited by the ability of administrative claims data to accurately assess patient health status and severity. For example, measure submitted did not have the ability to differentiate between community-acquired and healthcare-acquired pneumonia. Measures submitted also were not able to identify staging information to assess the severity of a cancer diagnosis.

393

394 *Construction logic*

The measure construction logic evaluation included a review of the steps used to cluster, group, 395 or assign claims beyond those associated with the measure's clinical logic and an assessment of 396 how the various components of the measure (episode logic, clinical logic, risk-adjustment) work 397 together. Measures were evaluated to determine if the temporal parameters including trigger and 398 termination rules are appropriate for the clinical logic specified within the measure. For example, 399 400 the Committee evaluated the post-hospitalization period in an episode of AMI to ensure it was appropriate for the measure's intent, level of analysis, attribution approach and statistical 401 properties. 402

403

404 For measures that were specified at the individual or group practice level, the Committee was particularly interested in the reliability and validity testing. The Committee expected developers 405 406 to demonstrate statistical differences at sample sizes that would be observed in individual and group practices. Further, attribution of the measure to the individual or group practice level was 407 408 discussed at length, focusing on the appropriateness and generalizability of the attribution approach. While sample size and attribution could be submitted as guidelines, the Committee 409 agreed that these testing results contribute to the measure's scientific acceptability at these levels 410 of analysis. 411

Measures that were submitted as a part of an episode grouper were more difficult to evaluate 413 since the assignment of claims into the episode, comorbidities and interactions, clinical 414 415 hierarchies, and the handling of concurrent of clinical events were a function of a grouper system. Measures submitted to this project were evaluated as standalone measures of resource 416 use; however, the construction logic within episode grouper-based approaches include claim 417 assignment decisions, or tie-breaker logic, which is not always clear when evaluating single 418 419 measures or resource use. Tie-breaker logic is a mechanism to determine how a claim or record is assigned to an episode if it is eligible for assignment to multiple episodes. For example, if a 420 patient fills a prescription that could be mapped to multiple open episodes, tie breaking logic 421 could be used to determine how this cost would be assigned. Additional work is needed to 422 determine specific evaluation criteria for episode grouper systems. 423

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Adjustments for comparability

A measure's result can be influenced by confounding external factors that can impact the
measure score. Measure developers submitted steps to adjust the measure to increase
comparability. These adjustments include risk-adjustment, stratification approach, and the
costing method used within the measure.

430

Risk-adjustment methodologies varied considerably across measure developers. A combination 431 432 of the complexity and a varying degree of transparency of the risk-adjustment approach made evaluating the methods challenging. The experts agreed that the details on the performance of 433 risk models were vital to determining the model's adequacy; specifically, how the presence of 434 certain claims drive categorization into different risk categories and the risk model's goodness-435 436 of-fit. Of the various methodologies reviewed, none were considered to be superior. A Society of Actuaries report shared with the Committee comparing various risk-adjustment methodologies 437 [e.g., Hierarchical Clinical Categories (HCC), Adjusted Clinical Groups (ACG), Episode-risk-438 group (ERG)] was informative; however, more research and guidance on the appropriateness of 439 440 the models for specific applications are needed.

Stratification can be a mechanism to create homogenous risk populations; however, similar to the concern that exclusions may remove patients out of an episode inappropriately, measure developers need to ensure that the risk stratification approach does not allow for complications from poor care to drive patients into a higher risk stratum, thus rewarding entities who provide inadequate care. For example, for patients with coronary artery disease (CAD), creating risk strata based on subsequent revascularization has this potential for adverse consequences.

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The developers were asked to specify a costing method to apply to the measure. For the 449 measures submitted, the costing approaches were either specified for the actual amount paid (i.e., 450 cost of care measures) or for standardized prices (i.e., resource use measure). Standardized 451 pricing allows users to compare the use and intensity of health services while holding actual paid 452 amounts constant. The Committee was divided on the utility of cost of care measures, as both 453 approaches could be appropriate for different applications. Resource use measures that apply 454 standardized prices allow for comparison of resource use units across regions and markets, while 455 actual prices allow for comparison of prices paid which are often influenced by regional market 456 conditions. The Committee found that an individual measure that allows both standardized and 457 actual costing approaches has limited utility because differences in the measure score could be 458 459 attributed to either to differences in resource use or differences in pricing and regional market conditions. Including both costing approaches within the same measure could 460 461 reduce comparability and limit the user's ability to identify the source of variation. 462 463 Finally, measures submitted to this project spanned various levels of measurement analysis, from

regional, to health plan, to individual provider. Measures specified at a higher level of
measurement (i.e., health plan or regional) allowed for a comprehensive view of health service
resource use by measuring all costs for a person across settings and providers. The burden of
adjusting for comparability was lower for measures at the health plan level than it was for
measures seeking to evaluate individual providers. When measures were specified at the
individual provider level, and to a lesser extent at the group practice level, the Committee

engaged in a more detailed evaluation of the risk- adjustment approach and minimum samplesize to ensure that the measures produced a reliable score.

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473 Reporting

The reporting module includes steps for attribution, peer grouping, defining outliers and thresholds, sample size requirements, and benchmarking. These reporting steps could be submitted as measure specifications or guidelines, or could be left to the user's discretion. Specifications limit user options and flexibility and must be strictly adhered to, whereas guidelines are well thought-out guidance to users, which allow for user flexibility.

479

While sample size considerations could be submitted as guidelines or specifications in the 480 reporting module, the Committee found that sample size was also relevant to the discussion of 481 other modules and reliability and validity testing. In order to evaluate the number of patients 482 required for a measure to demonstrate meaningful and statistically significant differences, the 483 Committee encouraged measure developers to provide simulations and sensitivity analyses 484 during the evaluation. When measures were specified at the individual provider level, 485 confidence intervals need to be presented, especially when displaying information with small 486 sample sizes. The use of confidence intervals allows the user to assess the estimated range of the 487 measure score and true differences in provider performance. 488

489

Outliers were handled at both the episode and/or the claim level. During data preparation, high 490 outlier claims were generally subject to a statistical technique used to limit the effect of extreme 491 values and the effect of spurious outliers, known as *winsorization*.¹¹ Low cost claims were either 492 493 winsorized or, more typically, were removed from measure analysis. Winsorization often sets outliers to a percentile of data; for example, all outliers above the 95th percentile are set to the 494 value at the 95th percentile. Developers who chose to remove low-cost episodes indicated they 495 496 took this approach because these episodes were likely to be incomplete and thus have the 497 potential to skew the results. The Committee requested additional details from the developers on the effect of the winsorization and exclusion at the claim and episode-level on the measure score. 498

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The experts noted that detailed listing and analysis of high-cost outliers could be useful fortargeted improvement activities.

501

As part of the reporting module, the attribution approach could also be submitted as measure 502 guidelines or specifications, or left to the user to define. The attribution approach is distinct from 503 the level of analysis in that the level of analysis is the unit in which the measure has been tested 504 505 and specified, while the attribution approach determines how the costs or resources are assigned to a provider, group of providers, health plan or region. Regardless of the approach submitted, 506 the Committee agreed that it should reasonably allow for the accountable entity to affect the 507 resource use of the patient. For example, if the attribution approach assigns a patient to the 508 primary care provider (PCP) based on one evaluation and management (E/M) visit, the approach 509 should not assign all of the previous hospitalization costs during the measurement year before the 510 patient's first visit to this PCP. Proper consideration should be given to how the timing of 511 patient encounters impacts the attribution rules and potential for unfair assignment of costs to 512 providers. Lack of consideration for these types of factors creates the potential for unintended 513 consequences of providers "gaming the system" to avoid attribution of extraneous costs to their 514 profile for new patients with whom they have had limited contact. 515

516

517 Approach to disparities

518 Identifying and measuring disparities in care delivery is of critical importance to understanding variations in cost and improving quality. Gender and age were the most common factors 519 520 accounted for in the stratification for disparities in the measures reviewed. The lack of information on race and ethnicity in commercial administrative data limited the ability of the 521 522 resource use measures under evaluation to reflect disparities accurately in the results. Additional efforts should be pursued to capture this information more systematically. The Committee was 523 unable to assess the measure's ability to identify disparities based on underlying limitations in 524 the data. Measures were evaluated based on their ability to stratify if the underlying data 525 526 included information on race and ethnicity.

527	
528	Reliability and Validity testing
529	The next component to evaluating a measure's scientific acceptability is determining whether the
530	measure testing approach and results demonstrate that the measure is reliable and valid.
531	Reliability testing should demonstrate that the measure results are repeatable, producing the
532	same results a high proportion of the time when assessed in the same population in the same time
533	period, and/or that the measure score is precise. Validity testing must demonstrate that the
534	measure data elements are correct and/or that the measure score correctly reflects the cost of care
535	or resources provided, adequately distinguishing high and low resource use. If face validity is
536	the only validity addressed, it must be assessed systematically. Reliability and validity testing
537	can be demonstrated at the measure score or the data element level.
538	
539	Data element reliability
540	Discussion of data element reliability was limited since resource use measures often relied on
541	administrative claims data. Administrative claims provide accessible information on the
542	processes of care and can generally be obtained as a byproduct of the care process. However,
543	claims data provide only limited clinical information and lack granularity in determining patient
544	health severity. Further, claims data are subject to variation in coding processes by the
545	accountable entities. While these concerns are valid, the Committee agreed that they span
546	measures of quality and resource use and are not limited the measures currently under
547	evaluation.
548	
549	Measure score reliability
550	Measure developers also performed varying levels of reliability assessments at the measure score
551	level. Low levels of measure score reliability assessments depended on changes in measure

552 specifications on the outcome variable (e.g., total resource use) to demonstrate measure score 553 reliability. Higher levels of reliability assessments compared parallel development of episode

554 grouper software and SAS using the exact same specifications. In some cases, reliability

555	demonstrated match rates of over more 99.9 percent. Developers whose measures have been in
556	use were able to demonstrate the stability of the observed/expected results (O/E) over time.
557	
558	The Committee suggested other robust methodologies that could be used to demonstrate a high
559	level of reliability, including O/E ratio by accountable entities and conditions over time, to
560	demonstrate score stability. These measures can also be tested using two independent
561	programmers performing the same tasks to evaluate determine if the results are similar.
562	Additional methods could include signal-to-noise ratio analysis using Analysis of Variance
563	(ANOVA) or Intra-class Correlation Coefficient to demonstrate measure score reliability.
564	
565	Data element validity
566	The validity testing submitted at the data element level was often weak, as there were no
567	comparisons to other independent claims databases or other authoritative data sources. In
568	addition to other claims databases, a comparison of the distribution of important variables to the
569	literature would provide a more robust assessment of the validity of the data elements used.
570	
571	With the exception of developers who require regular data audits to ensure data integrity, the
572	measure submissions generally contained weak evidence of data integrity checks (i.e., percentage
573	of missing values, missing diagnosis codes, or inconsistent dates). However, developers often
574	provided guidelines for data preparation and missing data in the data protocol module.
575	
576	Most measures submitted to the project were tested in large administrative claims databases
577	representative of the target population. The Committee noted one exception in which a hip
578	fracture measure was tested in a population with an age distribution outside of the age range in
579	which the condition was most prevalent. The TAP agreed this testing approach calls to question
580	the validity (and in fact the importance) of the measure as it has been tested and used to measure
581	costs in a population where this condition is not high impact, and has limited clinical relevance.
582	
583	

584 *Measure score validity*

Validity testing at the measure score level often relied on face validity that the measure score 585 586 was valid based on clinical review and empirical results. The measure score, however, was often not validated by correlating measure scores with other valid indicators, or by showing that the 587 score produces different results when applied to subgroups known to have differences in 588 resource use, as a more complex validity testing approach would demonstrate. Developers often 589 590 demonstrated face validity by describing the distribution of measure score results, outlier status and type of service. While the Committee accepted this as a minimum threshold for 591 demonstrating validity, they suggested more robust methods, including correlating the measure 592 score with other valid indicators, should be applied in future iterations and testing. 593 594

595 Usability

The focus of the usability criteria is to determine whether the measure results are usable for the intended audience. This includes an evaluation of whether the measure is currently in use and the results are being reported for performance improvement and accountability purposes, and whether the results are considered meaningful and useful. For resource use measures, usability also includes the evaluation of whether it has been demonstrated that the measure construct and its components (e.g., risk-adjustment methodology, clinical logic) can be deconstructed to enable transparency and understanding.

603

Resource use measures presented some specific challenges to applying the concepts identified 604 within the usability criterion. For example, the issue of accountability is a charged one. No 605 consensus existed as to who the intended audience of these measures should be: purchasers, the 606 607 public at large (consumers), health plans, and health plan members, are all likely users of this 608 information. It was noted that for the public at large, extra effort would be required to make the reporting of these measure results as clear as possible. This clarity is the focus of consumer-609 oriented organizations that share data such as these. There was agreement that these measures 610 should not be reported alone, but in the context of quality measures. 611

Another challenge the TAPs and Committees encountered was differentiating between usability
and usefulness and determining whether a measure is inherently usable because it is in use. For
measures not currently in use, they questioned how usefulness should be demonstrated since
there is a lack of knowledge of the practical application of the measure.

616

The Committee also questioned the usability of measures that are embedded in a complexepisode-grouper system in which each individual measure's logic is interwoven and tied to the

logic of another measure, which may not be under evaluation. They struggled with how to

620 evaluate the usability of a single measure without evaluating the entire grouper system.

621

The final overarching issue identified within the usability criteria relates to transparency. Many 622 of the TAP and Committee members expressed concern over the complexity of certain 623 methodologies used and questioned whether this complexity masks these measure's ability to be 624 transparent. Difficulty understanding how the risk-adjustment, severity level assignments, and 625 episode logic work together in a measure may make it difficult for a physician, for example, to 626 627 completely understand completely which of his or her patients have been included in the costs attributed to them and how the complexity of the patient population has been accounted for in 628 those costs. Some Committee members argued that this lack of transparency and understanding 629 of the construction logic affects the ability of the reported measure score to be used and may 630 631 limit the physician or health plan from identifying how and where to improve scores. Committee members also questioned whether there should be an expectation that these complex measures 632 633 would require an investment of time to be interpreted and understood. It was pointed out, however, that by using the resource use service categories identified within the measure, action 634 635 could be taken using the categories in which high costs were most evident (e.g., imaging, outpatient visits). 636

637 Feasibility

638 The feasibility criterion focuses on the extent to which the measure can be implemented with 639 undue burden and identifies any barriers to implementation. The feasibility subcriteria used to 640 evaluate the resource use measures are identical to those used to evaluate quality measures.

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Because all of the resource use measures submitted to this project solely rely solely on the use of 641 administrative claims data, the subcriteria evaluating the availability of required data via 642 electronic sources and whether the data are routinely generated required very little discussion. 643 The remaining feasibility subcriteria, however, illuminated some important issues related to the 644 implementing of resource use measures, which often use very complex, sophisticated 645 methodologies to risk adjust and determine episode logic, for example. This issue of complexity 646 for the implementer (and for the users of the results) was discussed at length by the TAPs and the 647 Committee during their evaluation of susceptibility to errors and inaccuracies. Some members 648 expressed concern that the complexity of the methodologies lends itself to user error, most likely 649 on behalf of the programmer who would develop the code to run the measures. This issue may be 650 mitigated by the purchase of a product that is pre- programmed to implement the measure with 651 imported data or the submission of data to an organization that audits, computes the measure, 652 and reports the information back to the user. 653

654

Additionally, having been in use in the market place by health plans and purchasers for many 655 years, these measures often use some proprietary component or are imbedded in sophisticated 656 proprietary products. For product lines that include large episode-grouping tools encompassing 657 many conditions, a user would be required to purchase some or parts of a product suite to run a 658 single episode for diabetes, for example. For this reason, the feasibility of implementing an 659 660 individual clinical episode may be very limited. The Committee expressed concern that the financial burden on a practice or system to purchase these products could be very significant, 661 662 thus creating a barrier to measuring resource use applying NQF-endorsed standards.

663

664 Similar Measures

In phase one of this resource use measurement project, the Committee agreed that since this is NQF's first effort focused on evaluating resource use measures, identifying "best-in-class" and requiring harmonization among resource use measures was premature. While the Committee would forgo the selection of "best-in-class" measures, they would discuss the merits of and justify the recommendation for similar measures and discuss potential ways in which

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670	harmonization amon	ng related and	similar measures	might be achieved	In the context of resource
0/0	narmonization amor	ing related and	similar measures	might be demeved.	In the context of resource

- use measures, similar measures are defined as the same measure types (e.g., per episode, per
- 672 capita) measuring the same costs/resources (e.g., actual cost vs. standard prices, resource service
- categories) in the same population (e.g., patients with diabetes). The Committee will discuss all
- related and similar measures and potential for harmonization of resource use measures at the
- 675 conclusion of the cycle two review process once all endorsement recommendations are complete.
- 676

677 RECOMMENDATIONS FOR ENDORSEMENT

This report presents the results of the evaluation of four measures considered under NQF's CDP.

680 Candidate Consensus Standards Recommended for Endorsement

- Four measures are recommended for endorsement as voluntary consensus standards suitable for
- accountability and performance improvement.
- 683
- The evaluation summary tables follow the list of measures and summarize the results of the
- TAP's and Committee's evaluation of and voting on the candidate consensus standards that were
- recommended for endorsement. Hyperlinks are provided from each summary table to the
- detailed measure specifications. To access the meeting transcripts and recordings in which these
- 688 measures are discussed, refer to the <u>project web page</u>.
- 689
- 690 The Committee recommended the following candidate consensus standards for endorsement:
- 691 Diabetes
- 693 Cardiovascular
- 694 (1558) Relative Resource Use for People with Cardiovascular Conditions (NCQA)......29

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- 697 *Non-Condition Specific*
- 698 (1598) Total Resource Use Population-based PMPM Index (HealthPartners)......31
- 699 (1604) Total Cost of Care Population-based PMPM Index (HealthPartners)......35
- 700

701 Evaluation Summary—Candidate Consensus Standards Recommended for

702 Endorsement

1557: Relative Resource Use for People with Diabetes
Description: The risk-adjusted relative resource use by health plan members 18-75 years of age who were identified as having diabetes
(type 1 and type 2) during the measurement year.
Resource Use Measure Type: Per capita (population- or patient-based)
Data Source: Administrative claims
Resource Use Service Category: Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management;
Inpatient services: Procedures and surgeries; Inpatient services: Imaging and diagnostic; Inpatient services: Lab services; Inpatient
services: Admissions/discharges; Ambulatory services: Outpatient facility services; Ambulatory services: Emergency Department;
Ambulatory services: Pharmacy; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries;
Ambulatory services: Imaging and diagnostic; Ambulatory services: Lab services
Care Setting: Ambulatory Care: Clinic/Urgent Care; Ambulatory Care: Clinician Office; Hospital/Acute Care Facility; Imaging Facility;
Laboratory; Pharmacy
Level of Analysis: Health Plan; Integrated Delivery System; Population: National; Population: Regional
Measure Developer: National Committee for Quality Assurance (NCQA)
Committee Recommendation for Endorsement: Y-17; N-0; Abstain-1
If applicable, Conditions/Questions for Developer and Developer response:
In relation to criterion 2a.1, provide information on which maternity codes are included.
In relation to criterion 2b.3, provide rationale for excluding patients >75 years old.
TAP Evaluation:
1. Importance to Measure and Report:
1a.High Impact: H-9, M-0, L-0, I-0, N/A-0
TAP Discussion: Developer provided sufficient evidence and support.
1b. Resource use/cost problems: H- 9, M-0, L-0, I-0, N/A-0
TAP Discussion: Developer provided sufficient evidence and support.
1c. Purpose clearly described: H- 8, M-1, L-0, I-0, N/A-0
<i>TAP Discussion:</i> Developer provided sufficient evidence and support. 1d. Resource use service categories consistent and representative: H- 7, M-2, L-0, I-0, N/A-0
TAP Discussion: The resource use service categories were sufficient. Overall Importance: Y-17, N-0
Committee Discussion: While the measure is deemed important, the Committee pointed out the resources accounted for in the measure do not include important services provided to diabetic patients, including care coordination, and education by nurses and
nutritionists. These services are typically not billed, services and so they are often left out of the cost calculations for measures using
administrative claims data. This type of measurement is possible, but NCQA does not generally have access to this level of specificity in
the data only at the utilization level.
TAP Evaluation
2. Scientific Acceptability of Measure Properties:
2a1. Well defined/precise specifications: H- 8, M-0, L-0, I-0
<i>TAP Discussion:</i> The TAP had concerns about how are changing codes are handled. It was stated that this is very difficult to manage
in all measures. Concern was also expressed related to adjusting away patients with lots of claims; conditions such as HIV and active
cancer are excluded (this adjustment is made every year with a one year lag).
The intent of this measure is to capture all costs for a diabetic patient, including services that may not be related to a diabetes diagnosis.

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1557: Relative Resource Use for People with Diabetes
While counting all costs does add some noise to the measure, there is evidence that diabetics stay in hospital longer, even for stays triggered by non-diabetes related events. With a minimum sample size of 400, this measure has been specified for use at the health plan level; not for use at the physician attribution level. TAP had concerns as to why conditions that are proven to be related to diabetes complications are not included, for example, amputations, ESRD, etc. The TAP wanted clarification on whether pregnancy/maternity
codes were included in this measure.
2a2. Reliability testing: H- 9, M-0, L-0, I-0, N/A-0
TAP Discussion: Reliability testing was acceptable.
2b1. Specifications consistent with resource use/cost problem: H- 5, M-4, L-0, I-0, N/A-0
TAP Discussion: Measure captures all costs for a diabetes patient.
2b2. Validity testing: H- 5, M-4, L-0, I-0, N/A-0
TAP Discussion: Adequate validity testing information provided.
2b3. Exclusions: H- 6, M-3, L-0 ,I-0, N/A-0
TAP Discussion: The TAP expressed concern over the age limit criteria; Age 75 may be too low.
2b4. Risk-adjustment : H- 9, M-0, L-0, I-0, N/A-0
TAP Discussion: Measure uses HCC's for the risk-adjustment. The TAP agrees this is acceptable methodology.
2b5. Identification of statistically significant/meaningful differences: H-9, M-0, L-0, I-0,N/A-0
TAP Discussion: Minimum sample size at 400 allows for increased statistical stability.
2b6. Multiple data sources: H- 0, M-0, L-0 , I-0, N-9, N/A-0
TAP Discussion: N/A
2c. Stratification for disparities: H- 2, M-5, L-1, I-0,N-, N/A-0 TAP Discussion: Can only be stratified only for age, gender and region, as with most of the measures submitted.
Overall Scientifically Acceptable: Yes [Y-18; N-0 (Committee Vote)]
Committee Discussion: There was acknowledgement that certain types of claims and clinicians are invisible in these types of
measures because administrative claims data does not capture all resource use or recognize the resources used by of all types of
clinicians. The Committee also pointed out that a broad scope of cost codes are going to be important, and the thinking about measuring
resources should be expanded beyond intermediate care and consider home health costs, skilled nursing facilities, etc. There was
discussion on the use of the standardized pricing tables and how they are applied within the measures. These pricing tables are now
publicly available on the NCQA website and can be used by anyone for their own purposes. A number of resources have been used to
develop the tables, including the Medicare fee schedule and data from thousands of pharmacy prescriptions.
The TAP identified concern over the exclusion of patients over the age of 75 identified by the TAP. The TAP also identified concern over
the mandatory exclusions for active cancer, transplantation, ESRD, and HIV that are applied to all NCQA measures, but are particularly
relevant to the diabetes population. The developers are going back to re-examine these exclusions for future versions of the measure.
The final concern the Committee addressed related to the logic of truncation scheme. In order to avoid a small proportion of members
driving up the standardized costs, the developers identified cap levels at which members would be capped and truncated once costs
reach that high level; however, they are not excluded. This also prevents skewing of the results. The timeframes used in the measure
logic were in attempt to focus on a group of patients who are not newly diagnosed.
TAP Evaluation:
3. Usability: 3a. Measure performance results are publicly reported: H- 9, M-0 , L-0 , I-0, N/A-0
<i>TAP Discussion:</i> Measure is currently in use by large number of health plans.
3b. Measure results are meaningful/useful for accountability and quality improvement: H- 8, M-1 ,L-0 , I-0, N/A-0
<i>TAP Discussion:</i> Accountability mechanism sufficient.
3c. Data and results can be decomposed for transparency and understanding: H- 8, M-1, L-0, I-0, N/A-0
TAP Discussion: Specifications adequate for transparency.
3d. Harmonized or justification for differences: N/A
<i>TAP Discussion:</i> Developers were not asked to harmonize prior to submissions. Harmonization may come up as the set of measures
move through the CDP process.
Overall Usability: H-12; M-6; L-0; I-0
Committee Discussion: The Committee did not identify any additional issues for this criterion.

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	1557: Relative Resource Use for People with Diabetes
	TAP Evaluation:
	4. Feasibility:
	4a. Data elements routinely generated during care process: H- 9, M-0, L-0, I-0, N/A-0
	TAP Discussion: Measures rely on administrative data.
	4b. Data elements available electronically: H- 9, M-0, L-0 , I-0, N/A-0
	TAP Discussion: Administrative data are in electronic format.
	4c. Susceptibility to inaccuracies/ unintended consequences identified: H- 6,M-3, L-0, I-0, N/A-0
	TAP Discussion: Users of NCQA are subject to a data audit process. Susceptibility to errors/inaccuracies is low.
	4d. Data collection strategy can be implemented: H- 9, M-0, L-0 , I-0, N/A-0
	TAP Discussion: Barriers to use are low.
	Overall Feasibility: H-11; M-7; L-0; I-0
	Committee Discussion: There were no additional concerns identified by the Committee.
3	
	1558 Relative Resource Use for People with Cardiovascular Conditions
	Description: The risk-adjusted relative resource use by health plan members with specific cardiovascular conditions during the
	measurement year.
	·····

Resource Use Type: Per capita (population- or patient-based)

Data Type: Administrative claims; Electronic Clinical Data: Electronic Health Record; Electronic Clinical Data: Imaging/Diagnostic Study; Electronic Clinical Data: Laboratory; Electronic Clinical Data: Pharmacy; Paper Records

Resource Use Service Category: Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management; Inpatient services: Procedures and surgeries; Inpatient services: Lab services; Inpatient services: Admissions/discharges; Ambulatory services: Outpatient facility services; Ambulatory services: Emergency Department; Ambulatory services: Pharmacy; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries; Ambulatory services: Imaging and diagnostic; Ambulatory services: Lab services

Care Setting: Administrative claims, Cardiovascular: Cardiovascular; Electronic Clinical Data : Electronic Health Record; Electronic Clinical Data: Imaging/Diagnostic Study; Population Health: Population Health

Level of Analysis: Administrative claims: Administrative claims, Cardiovascular; Electronic Clinical Data : Electronic Health Record; Electronic Clinical Data: Imaging/Diagnostic Study, Population Health

Measure Developer: National Committee for Quality Assurance (NCQA), 1100 13th Street NW, STE 1000, Washington, DC, 20005 Committee Recommendation for Endorsement: Y-13; N-3; Abstain-1

TAP Conditions/Questions for Developer:

- 1. Are other conditions similar to Coronary Artery Disease included, such as ischemic heart disease?
- 2. How does the stratification discern between high- and low -risk patients?
- 3. What is the time frame for exclusions?
- 4. How would a provider know how to improve based on the report?

Developer Response:

703

- This measure is based on the HEDIS measure, covering both acute and sub-acute, ischemic heart disease, cardiovascular unspecified, angina, atherosclerosis of extremity, etc. CAD-related codes diverged into family history, etc. The measure does not try to account for anything other than what CAD is described as in the code set. The developer is going to look into including code sets that are non -CAD -specific for non-traditional patients.
- 2. In terms of stratification for the risk-adjustment, it is dependent on the number of comorbidities. Section 10.1 includes additional information on the risk -adjustment methods, identifies based on qualifying and HCC rankings.
- 3. The time frames align with the eligible population period; patients are looked at a year prior to the measurement year and are looked at the year prior to and during the eligibility period.
- 4. The reports are divided up by resource categories; user would need to look into measure specifications, which are fairly broad. Committee Follow-up:
 - Has this type of risk -adjustment model been validated in the past? HCC are well validated. RTI evaluated this in April 2011, and it continues to be a valid stratification method.
 - The Committee wanted additional follow-up on the time period for eligibility for risk-adjustment/ exclusions.

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If Applicable, Questions to the Committee: N/A
TAP Evaluation:
1.Importance to Measure and Report
1a.High Impact: H-5; M-0; L-0; I-0
TAP Discussion: The TAP agreed that this subcriterion has been met.
1b. Resource use/cost problems: H-5; M-0; L-0; I-0
TAP Discussion: The TAP agreed this subcriterion has been met and is supported by the evidence.
1c. Purpose clearly described: H-3; M-3; L-0; I-0
TAP Discussion: Inclusion criteria for this measure are very broad – PCI and CABG, but not other codes are associated with chronic
conditions. It would be difficult for this measure to be actionable by an individual provider because of the broad nature of the category.
The costs of carotid disease are included in the category. It does capture costs, but there is the issue of which costs are incorporated
and which costs are not. Given the broad category, the calculation of costs is difficult for a user to understand. This measure covers all
costs across all procedures and excludes those who were screened and had plaque in their carotid paired equally as with those with
PCIs and that early detection may become a preponderance of those grouped in cardiovascular disease.
1d. Resource use service categories consistent and representative: H-2; M-3; L-0; I-0
<i>TAP Discussion:</i> The TAP agreed that this subcriterion has been met.
Overall Importance: Y-14; N-1; Abstain-1
Committee Discussion: There were no additional concerns identified by the Committee for this criterion.
TAP Evaluation:
2.Scientific Acceptability of Measure Properties:
2a. Reliability:
2a1. Well- defined/precise specifications: H-2; M-1; L-1, I-0
<i>TAP Discussion:</i> The specifications don't consider the cost; rather, they use what RVUs would be, i.e., the actual resource use versus
the cost. The Committee believed this to be a relevant way to approach the measure, as each grouping and person is stratified
according to risk. It is unclear which risk-adjustment is used for each patient. This measure is calculated by using databases from
insurers, up to age 75, and only reports only on organizations with more than 400 people in the measure. This measure is restricted in
use for larger groups.
2a2. Reliability testing: H-2; H-2; L-0; I-0
TAP Discussion: The reliability testing uses data from 15 months. The results are consistent with other models.
2b. Validity:
2b1. Specifications consistent with resource use/cost problem: H-1; M-2; L-2; I-0
TAP Discussion: Discussion similar to 2a1. It is unclear which risk-adjustment is used for which patient.
2b2. Validity testing: H-2; L-0; I-0
TAP Discussion: NCQA publicly reported the results annually and continues to publicly report publicly. The costs are standardized and
are good measures of the resources being used. There is a track record of data being clean, including resource use not what was
actually charged.
2b3. Exclusions: H-1; M-2; L-1; I-1
TAP Discussion: The measure is unclear regarding the time period for exclusions.
2b4. Risk-adjustment: H-1; M-2; L-1; I-0
TAP Discussion: It is difficult to discern what is included in risk -adjustment criteria. Unclear how stratification is working and if the
groups produced is are legitimate.
2b5. Identification of statistically significant/meaningful differences:
TAP Discussion: The Committee has agreed this subcriterion has been met.
2b6. Multiple data sources: H-1; M-4; L-0; I-0; N/A-0
TAP Discussion: N/A
2c. Stratification for disparities: H-0; M-4; L-0; I-0; N/A-1
TAP Discussion: This measure stratifies for age and gender.
Overall Scientifically Acceptable : Yes [Y-13; N-4 (Committee Vote)]
Committee Discussion: Submission form level of analysis check boxes need to be fixed to show only health plan level. Concerns with
comparing like plans (e.g., Medicaid to Medicaid plans). The measure submitted must be used at health plan level, as the Committee
was very uncomfortable with using measure at physician or group level. Developer acknowledged that there has been testing of the
measure at the group practice level; however, it was only tested with over 400 patients. The Committee was interested in the exclusions
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for end stage renal disease (ESRD). The Committee was concerned with the peer group comparison of "like	plans" because there mig
be correlations with socioeconomic status (SES) across plans. Further, the Committee was concerned over t	he appropriateness of
excluding patients who are >75 years old.	
The risk -adjustment model used in this measure includes HCCs where risk-adjustment takes into account the	rosourco uso from within
the measurement year. The Committee agreed that a better title for the measure might be "Measure of Patien	nts with Chronic Cardiac
Conditions."	
While the Committee was concerned with the level of measurement, the developer clarified that it would only	be used at population leve
and reported with quality measures. Purchasers and health plan representatives agreed that this measure wo	uld be useful.
TAP Evaluation:	
3. Usability:	
5	
3a. Measure performance results are publicly reported: H-3; M-1; L-0; I-0	
TAP Discussion: This measure has been utilized for a short amount of time (since 2007); it is difficult to asse	ess if the manner in which
hey are reporting is useful.	
3b. Measure results are meaningful/useful for accountability and quality improvement: H-2; M-1; L-1; I-	0
TAP Discussion: There is no data on how consumers are utilizing the data and making changes based on th	
what would or would not affect the score and change practices in the long run. The measure would rate fairly	
may not be extremely useful for accountability as it's it is not easily interpreted.	
3c. Data and results can be decomposed for transparency and understanding: H-2; M-1; L-1; I-0	
TAP Discussion: The measure is very broad and it's unclear how providers can change behavior.	
3d. Harmonized or justification for differences: N/A	
TAP Discussion: N/A	
Overall Usability: H-6; M-9; L-2; I-0	
Committee Discussion: TAP was comfortable with the measure since it has been in use for 5 years (with for	rus arouns) It expressed
concern over how the results will be used for consumers. The breakdown within the service categories was for	
information than the overall score. There are currently 800 out of 1100 plans reporting RRU/quality measures	
health plans as outliers.	
The Committee was not as concerned with "carve -outs" since pharmacy costs are reported separately from r	
interest in how to make this kind of data could be meaningful for consumers as well. The developer clarified t	hat the major users are
employer groups and business groups, and it helps to inform their decisions for the following year. However, s	skepticism had been
expressed regarding the usability at the plan level.	1
TAP Evaluation	
4. Feasibility:	
4a. Data elements routinely generated during care process: H-4; M-0; L-0; I-0	
TAP Discussion: All administrative data is generated as a byproduct of care.	
4b. Data elements available electronically: H-4; M-0; L-0; I-0	
TAP Discussion: All data is available electronically.	
4c. Susceptibility to inaccuracies/ unintended consequences identified: H-1; M-4; L-0; I-0	
TAP Discussion: This subcriterion has been met.	
4d. Data collection strategy can be implemented: H-4; M-0; L-0; I-0	
TAP Discussion: This subcriterion has been met.	
Overall Feasibility: H-7; M-6; L-3; I-1	
Committee Discussion:	
The developer explained that health plans calculate observed measure scores but NCQA calculates the expe	cted for the final measure
score. The Committee was interested in how carve-outs and capitated arrangements were addressed. Data	
Bull Bull	
reported out into each service categories with pharmacy benefits measured separately.	

705

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1598 Total Resource Use Population-based PMPM Index

Description: Total cost of care reflects a mix of complicated factors such as patient illness burden, service utilization, and negotiated prices. Separating out and reporting the resource use index along with the total cost of care index provides a more complete picture of population- based drivers of health care costs. Total Cost Index (TCI) is a measure of a primary care provider's risk-adjusted cost

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effectiveness at managing the population for which they care for. TCI includes all costs associated with treating members, including professional, facility inpatient and outpatient, pharmacy, lab, radiology, ancillary, and behavioral health services. The Resource Use Index (RUI) is an underlying risk-adjusted measure of the frequency and intensity of services utilized to manage a provider group's patients. Resource use includes all resources associated with treating members, including professional, facility inpatient and outpatient, pharmacy, lab, radiology, ancillary, and behavioral health services.

Resource Use Type: Per capita (population- or patient-based)

Data Type: Administrative claims, other

Resource Use Service Category: Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management; Inpatient services: Procedures and surgeries; Inpatient services: Imaging and diagnostic; Inpatient services: Lab services; Inpatient services: Admissions/discharges; Inpatient services: Labor (hours, FTE, etc.); Ambulatory services: Outpatient facility services; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries; Ambulatory services: Imaging and diagnostic; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries; Ambulatory services: Imaging and diagnostic; Ambulatory services: Lab services; Ambulatory services: Labor (hours, FTE, etc.); Durable Medical Equipment (DME)

Care Setting: Ambulatory Care: Ambulatory Surgery Center (ASC); Ambulatory Care: Clinic/Urgent Care; Ambulatory Care: Clinician Office; Behavioral Health/Psychiatric: Inpatient; Behavioral Health/Psychiatric: Outpatient; Dialysis Facility

Level of Analysis: Clinician: Group/Practice; Population: Community

Measure Developer: HealthPartners, 8170 33rd Avenue South, PO Box 1309, Bloomington, Minnesota, 55425

Committee Recommendation for Endorsement: Recommended for Endorsement: Y-11 ; N-6

Committee Questions for Developer:

- 1. The measure's resource use index relies on total care relative resource use categories, which are constructed so they are additive across various sites of care and then add in pharmacy data. How was this done?
- 2. Are the data distorted due to billed charges?
- 3. What is the attributable population in this measure?
- 4. How are variables in geographic location accounted for?
- 5. This measure is restricted to commercial, under -65 -years -of -age population. Is there anything that prohibits its use in the Medicare population?
- 6. Do users have to use the ACG software for risk-adjustment?

Developer Responses:

- 1. Health Partners relies on sector- specific relative value units, the billed charges across the sectors of care are used to build relativity. The payments are then appropriately adjusted. Final quality checks for thresholds are then performed. This method will eventually be patented and shared with the community.
- 2. The measure uses billed charges controls for confounding variables. The measure uses the billed amount to allow for the claims (the most standard piece of information), then goes across the different components and applies the discount rate. The adjustment factor is for the paid/billed ratios.
- 3. The attributable populations (which are scalable to different units of analysis) are PPO and HMO. Look at practice specialty of physician and claims history and attribute patients to the clinic with the majority of visits.
- 4. Depending on the application and the user, the measure can be flexible and usable across different locations. In the market there are multiple hospitals with different price points. Cost points may be consistent; however, the price they charge may be different. Actual paid (allowable inclusive liability) amount is used in the measure; the billed amount is used only to gauge the relativity (e.g., inpatient to outpatient services).
- 5. HealthPartners is a largely commercial-based health plan, so they do not have access to Medicare data. Theoretically, if these claims were available in the database, one would be able to use it.
- 6. Users are not required to use the ACG software for risk-adjustment. Any risk- adjustment methodology may be used, as long as all methods are comparable (see Society of Actuaries report). Health Partners has a history of working with ACG software and have tested the measure using the ACG risk adjuster. They have specified the measure to be used at the group level with the risk- adjustment methodology developed by Johns Hopkins, and if it is NQF-endorsed, it would be endorsed only at the group level for use with this specific software.

Committee Conditions:

1. The Committee determined there were actually two measures of cost described within the measure submission as presented: resource use index and a total cost index. There was some discussion about which should be evaluated for the purposes of this project or whether the measures should be considered as a pair. Because this project is not accepting paired measures, the Committee has agreed to evaluate the resource use index, which appears to be most

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 The measure calculations for costing within the measure may be used independently, however, they are better used in partnership with one another. The developer agreed to separate the specifications and resubmit a separate measure for total cost (#1604). Please note: NOF endorses the measures only for the populations in which it was tested. Limportance to Measure and Report La High Impact: H-15, M-2, L-1, Ho, N/A-0 Committee Discussion: This measure is considered highly important and relates to NPP/national goals. D. Resource use/cost problems: H-13, M-3, L-0, I-1, N/A-1 Committee Discussion: This measure does not explain much as an isolated measure. However, it does inform providers of areas where there is overuse or underuse; given the fact of that overuse and waste is an issue, there is a place for this in the resource use project. C. Purpose clearly described: H-12, M-5, L-1, I-0, N/A-0 Committee Discussion: This criterion has been met because the measure is targeting an area known to have variation, and relevant service categories, and the objective has been clearly described. Resource use service categories consistent and representative: H-12, M-6, L-0, I-0, N/A-0 Committee Discussion: This criterion has been met. The supporting information provided by the measure developer also helps to demonstrate this. A. Reliability: Zeitentific Acceptability of Measure Properties: Reliability: Reliability: Mell- defined/precise specifications: H-5, M-8, L-4, H-0, N/A-0 Committee Discussion: HealthPartners (HP) uses regional and national data; there is a great deal of actionable data at this level. It may be difficult to be implemented in other systems. Since this is appulation measure, it is missing whether or not people are described on anindividual basis and then lied to a region, making it difficut
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sample with replacement, this simulates the reliability and is a very common methodology. The developers found a very small range of
change in the sample population; this has some variability in respect to the sample. It's important to note that NQF does not require
developers use a certain type of methodology. The analysis has been done at the provider level and depicts the measure to be reliable
2b. Validity:
2b1. Specifications consistent with resource use/cost problem: Committee Discussion: This section appeared to be sufficient and meets the criterion. This measure evolution patients who have not
Committee Discussion: This section appeared to be sufficient and meets the criterion. This measure excludes patients who have not had a primary care visit; however, within the system this may be giving all the information needed to feed back to providers on how the
are using services.
NQF REVIEW DRAFT—DO NOT CITE OR QUOTE
NQF MEMBER comments due September 28, 2011, 6:00 PM ET; PUBLIC comments due September 21, 2011 by 6:00 PM ET

2b2. Validity testing: H-5, M-8, L-2, I-1, N/A-0

Committee Discussion: Adequate sample size, large area, 19 providers across approximately 200 hospitals. Health Partners (HP) has nearly 7,000 members who are Medicare/Medicaid recipients. HP has about 700,000 total members within the marketplace area (including CMS data/commercial data), and the non-user rate is around 9%. Roughly 50% of the data presented in the validity sample comes from commercial data. Because this measure has only been tested only in a commercial population, it will be NQF endorsed only in a commercial population. Peer group averaging can serve as a benchmark, if that is a sufficient measure in all markets. Within a commercial network and scheme, it may work; however, how these will be used it is not clear how these will be utilized. The validity was obtained in terms of the risk -adjusted and the non-risk adjusted values. One would anticipate the values between expected and observed would be close - values of 0.98 for non-risk adjusted to actual money spent. After the measure risk-adjustment was applied, this correlation went down to 0.215. When the correlation is restricted to different places, they look at the correlation between total resource use to the risk adjusted methods. There were a number of test performed and they show the direction of the correlation, which was high in this case.

2b3. Exclusions: H-6, M-8, L-1, I-2, N/A-0

Committee Discussion: This measure excludes sub-populations that haven't had primary care visits. The measure also excludes "never users" and "super users" by truncating them out. The group-oriented market may exclude those outside the group. HP has not seen this as a problem, as there is a low non-user rate. The bulk of members are attributed in this model through primary care, a smaller percentage only see a specialist. Those who are over the age of 65 are excluded.

2b4. Risk-adjustment: H-5, M-9, L-0, I-3, N/A-0

Committee Discussion: Health Partners uses the 9.0 version of the ACG risk-adjustment method developed by Johns Hopkins, the most recent 9.0 version and they HP has a long-standing market history of using this product. HP relied heavily on a study conducted by the Society of Actuaries that concluded a number of commercially available risk-adjustment methodologies are satisfactory for this purpose. The risk-adjustment was tested and demonstrated to be effective. It is significant to note for consumers that a user ID and password is necessary to access the site. The Johns Hopkins software is proprietary; however, Hopkins has recently announced the software to be free of charge to health insurance exchanges. For the ordinary user, the software is available for a fee based on a scale from large to small organizations, non-profits, etc. CMS offers an open -source risk -adjustment tool, the Hierarchical Condition Categories (HCCs).

2b5. Identification of statistically significant/meaningful differences: H-7, M-6, L-1, I-3, N/A-0

Committee Discussion: The Committee believes that this sub criterion has been met.

2b6. Multiple data sources: N/A

Committee Discussion: N/A

2c. Stratification for disparities: N/A

Committee Discussion: N/A

2. Overall Scientifically Acceptable: Yes [Y-13, N-4 (Committee Vote)]

3. Usability:

3a. Measure performance results are publicly reported: H-5, M-5, L-2, I-2, N/A-2

Committee Discussion: The data is publicly reported, but it's difficult to find on the Health Partners website. Currently the measure is used for benefit design and transparency; there are plans for community collaborations in the future.

3b. Measure results are meaningful/useful for accountability and quality improvement: H-3, M-9, L-3, I-1, N/A-2

Committee Discussion: The Committee discussed the issue that publicly reported measures may not have the same value for quality improvement. This measure is being reported out to the public at large, as well as to members of Health Partners, and has been for quite some time. During the three-year NQF maintenance review this criterion would be looked at even further to see how the measure has progressed. This is a fairly complicated measure for the public, in that the methodology may not be fully understandable to the average person. It must be communicated that more resource use does not necessarily mean *better* service. For resource use, it may be up to those producing the consumer reports on may need to be the ones determining how to present it to the public in the most understandable way.

3c. Data and results can be decomposed for transparency and understanding: H-3, M-8, L-4, I-2

Committee Discussion: On the Health Partners website, they have converted the results to dollar signs. This calculation is available to the public at large. There have also been focus groups conducted in order to gauge the clarity of the information available online. It may be difficult to decipher differences in providers and resource use; at some point there is the issue of hierarchical modeling and how to devise low -volume providers by evaluating the measure itself occurs. To some extent, the issue is raised are whether the measure is useful to the public because it does not explain the quality of care or outcome relating to resource use. 3d. Harmonized or justification for differences: N/A

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Committee Discussion: This measure is based on data that is generated as a byproduct of care. The Committee believes this criterion

4b. Data elements available electronically: H-13, M-0, L-1, I-3, N/A-0 Committee Discussion: These measures are all available via electronic sources. The Committee believes this criterion has been met. 4c. Susceptibility to inaccuracies/ unintended consequences identified: H-4, M-8, L-3, I-2, N/A-0 *Committee Discussion*: This measure has met the criteria for inaccuracies and unintended consequences. Third- party administrators can work together to match up their coding; this would not be a barrier for these measures. There is a great deal of regulatory variation that can be applied to self-insured entities, and runs the risk of measuring smaller percentages of practices. 4d. Data collection strategy can be implemented: H-5, M-5, L-4, I-2, N/A-0 Committee Discussion: The Committee believes this sub criterion has been met. 4. Overall Feasibility: H-7, M-7, L-1, I-1, N/A-0 706 1604 Total Cost of Care Population-Based PMPM Index Description: Total Cost of Care reflects a mix of complicated factors such as patient illness burden, service utilization, and negotiated prices. Total Cost Index (TCI) is a measure of a primary care provider's risk-adjusted cost effectiveness at managing the population they care for. TCI includes all costs associated with treating members, including professional, facility inpatient and outpatient, pharmacy, lab, radiology, ancillary, and behavioral health services. A Total Cost of Care Index when viewed together with a resource use measure provides a more complete picture of population-based drivers of healthcare costs. Resource Use Type: Cost/resource use Data Type: Administrative claims Resource Use Service Category: Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management; Inpatient services: Procedures and surgeries; Inpatient services: Imaging and diagnostic; Inpatient services: Lab services; Inpatient services: Admissions/discharges; Inpatient services: Labor (hours, FTE, etc.); Ambulatory services: Outpatient facility services; Ambulatory services: Emergency Department; Ambulatory services: Pharmacy; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries; Ambulatory services: Imaging and diagnostic; Ambulatory services: Lab services; Ambulatory services: Labor (hours, FTE, etc.); Durable Medical Equipment (DME) Care Setting: Ambulatory Care: Ambulatory Surgery Center (ASC); Ambulatory Care: Clinic/Urgent Care; Ambulatory Care: Clinician Office; Behavioral Health/Psychiatric: Inpatient; Behavioral Health/Psychiatric: Outpatient; Dialysis Facility; Emergency Medical Services/Ambulance; Home Health; Hospice; Hospital/Acute Care Facility; Imaging Facility; Laboratory; Pharmacy; Post-Acute/Long Term Care Facility: Nursing Home/Skilled Nursing Facility; Post-Acute/Long Term Care Facility: Rehabilitation Level of Analysis: Clinician: Group/Practice; Population: Community Measure Developer: HealthPartners, 8170 33rd Avenue South, PO Box 1309, Bloomington, Minnesota, 55425 Committee Recommendation for Endorsement: Recommended for Endorsement: Y-9 ; N-8, Abstain- 1 Committee Conditions/Questions for Developer: 1. What tools are used to collect patient satisfaction information? 2. In this measure it appears the total cost measure is reduced to an index and then compared to a peer group. Is it correct that any variations in input costs should be factored into that peer group comparison?

- 3. How are regional comparisons made between regions with very different cost/payment structures?
- 4. Are the actual prices based on what the plan has paid or what has been billed?
- 5. Have you tested this measure within a system that uses behavioral or pharmacy carve-outs?
- 6. When the costs per member per month (PMPM) are calculated, is this the average premium they are paying for the carve-out for every member in the group specific, or is it adjusted to reflect it?
- 7. What is the numerator for this measure?
- 8. Is this measure only valid only for comparing costs within the same well-defined population?
- 9. How does the use of the attribution guideline impact the calculation of the total cost index?

Developer Response:

Committee Discussion: N/A

4. Feasibility:

has been met.

3. Overall Usability: H-3, M-11, L-2, I-1, N/A-0

4a. Data elements routinely generated during care process: H-9, M-1, L-3, I-0, N/A-4

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1.	HealthPartners historically used a health plan -specific survey, but in the Minnesota community, they use Minnesota		
2.	Community Measurement in the Minnesota community. Benchmarking is done based on the plan average, so the variation for a health plan, for example, would be among the groups		
۷.	within the plan.		
3.	Comparisons between regions would be based on the ability to access an adequate data set, the type of attribution model that		
	has been used employed by the measure user of the measure, and the business application of the measure (e.g., use by		
	consumers or internal benchmarking).		
4.	The measure counts what the plan is paying, plus the member liability (i.e., member co-pay).		
5.	Medical and pharmacy PMPM costs are calculated separately and then added together. However, in the HealthPartners		
	system there are no carve-outs for behavioral health. For systems that do have behavioral and pharmacy carve-outs, it is		
6.	recommended that the user is consistent in how these data are cleaned and used in the measure. For pharmacy costs, for example, the numerator would be the plan and plus the member co-pay, with the denominator being		
0.	only those with the pharmacy benefit, thus accounting for the carve-out. Members impacted affected by the carve-out are not		
	left out of the measure, but are examined separately with medical and behavioral together. They are accounted for at the		
	aggregate level.		
7.	Total costs for patients in the group (100% of services), regardless of attribution rules.		
8.	It is possible to compare across these groups, but the measure would be used to show a cost differential. The user would then		
	have the option of using a geographic adjuster to account for these differences in business applications.		
9.	Attribution does not impact the calculation of the index.		
	tance to Measure and Report		
	Impact: H-15, M-2, L-1, I-0, N/A-0		
	ttee Discussion: The Committee agrees this criterion was adequately met.		
	ource use/cost problems: H-14, M-4, L-0, I-0, N/A-0		
	ttee Discussion: The Committee agrees this criterion was adequately met.		
	pose clearly described: H-11, M-7, L-0, I-0, N/A-0 ttee Discussion: The Committee agrees this criterion was adequately met.		
	ource use service categories consistent and representative: H-11, M-7, L-0, I-0, N/A-0		
	<i>ttee Discussion:</i> The Committee agrees this criterion was adequately met.		
1.0vera	II Importance: Y- 18, N-0		
	tific Acceptability of Measure Properties:		
2a. Reli			
	ell- defined/precise specifications: H-5, M-8, L-4, I-1, N/A-0		
	ttee Discussion: There was concern that whether the total cost PMPM measurement for a health plan is useful, because it does		
	standardized prices, it does not seem to be generalizable to different populations outside of the geographical region in which it is		
	hile geographic adjusters are available for helping to address regional differences, it should not be up to the user to figure this		
	g with the many other factors that contribute to the PMPM resource use/costs in a community. There was disagreement among		
	mittee on whether the lack of nationally comparability and potential limited use for this measure conflicts with the intent of		
	ment. While some believe endorsed measures should be generalizable for various regions and markets, others believe it is		
	nd acceptable to have a measure endorsed for use within the context of a region for comparisons. There are some systems,		
	lans, and consumers that are interested in knowing actual costs. For example, there are many health systems are looking for this		
	neasure; particularly in California, for Medicare and commercial population ACO's, actual costs for total cost of care are of great This measure provides real economic information that resource use measures that use standardized prices do not give		
information that will guide people's choices. If, for example, from an ACO's perspective, adjusting is undesirable, the actual total cost to			
the system is of interest for accountability purposes. The Committee and developers also acknowledged that all endorsed measures are not useful for every region and population.			
	liability testing: H-10, M-4, L-4, I-0, N/A-0		
	<i>Committee Discussion:</i> An analysis of the reliability testing was conducted by the NQF statistical consultant and shared with the		
	tee. His analysis was based on bootstrapping simulations restricted to each provider group; this was done three times in each		
year of data for each provider group. They used a variation simulation and compared its results to the observed variability to measure			
the signal-to-noise ratio. In addition, they compared how the ratios changed over time by provider, demonstrating insignificant			
	ces. The reliability testing was deemed accepted and demonstrated a high level of measure score reliability.		
Overall	Reliability: H-8, M-6, L-4, I-0, N/A-0		

2b. Validity:

2b1. Specifications consistent with resource use/cost problem: H-4, M-5, L-9, I-0, N/A-0

Committee Discussion: Committee members expressed a great deal of concern about the primary care attribution guideline submitted for this measure. Attribution instructions could be submitted as well thought- out guidelines, allowing for user flexibility to use the method outlined, or another method that suits the user's specific application while still enabling the use of the core measure specifications that have been validated. Developers also had the option of submitting attribution instructions as specifications, which require the user to apply the method specified in order to fully implement the measure fully. The attribution approach for this measure was submitted as guidelines. Within the context of these attribution guidelines, there were concerns with the inclusion of inpatient costs to the total cost, but the attribution model attributes based on outpatient resource use. For example, a doctor could be held responsible for a patient's inpatient stay before ever seeing the patient in an outpatient visit. There were concerns about how the use of this type of model might affect practice and potentially incentivize providers not to take on new patients who haven't have not seen a PCP. Another concern with the attribution guideline is accounting for care managed primarily by a specialist, since the guideline attributes to primary care providers (PCPs). Within the HealthPartners system 75% of its users use PCPs; this is not the case for many other areas in the country. Finally, within this attribution approach, non-users of the system are not attributed. This measure can be used in conjunction with measure 1598, which is specified in the exact same manner but uses standardized pricing. When used together the difference between the actual and standardized prices can be used to reflect differences in regional pricing.

Secondary to the concerns around the attribution guideline, is the level of analysis, which includes the physician group level. A physician group is defined by the developer as 2 or more physicians, with a recommended minimum of 600 patients in the sample.

The Committee voted on this criterion with the understanding that the attribution approach was submitted as a guideline. **2b2. Validity testing:** H-7, M-5, L-5, I-0, N/A-0

Committee Discussion: The NQF Statistical Consultant conducted an analysis of the validity testing and shared it with the Committee. The validity testing sought to demonstrate face validity. Testing was conducted on provider groups, not for individual providers. As previously mentioned, the recommended minimum sample size is 600 patients. The Committee There expressed concern expressed about how would this measure operate for groups with only 2 -3 physicians.

2b3. Exclusions: H-3, M-6, L-9, I-0

Committee Discussion: Patients that who do not have a PCP are excluded from the denominator. The Committee expressed concern with this exclusion, as members who seek care from a specialist may be using resources within the system, but those resources are not counted in the total cost. This brings concerns that there may be potential for "gaming the system" using this measure—a system's total cost may appear lower if most of its care is provided by specialist. The issue of pharmacy carve-outs and how they are handled in this measure were also were discussed relevant to this criterion.

2b4. Risk-adjustment: H-7, M-7, L-2, I-2, N/A-0

Committee Discussion: This measure uses ACG's to risk adjust. It is a widely known and accepted methodology developed and maintained by a John's Hopkins group. The use of the ACG risk adjuster is open to the public for a fee based on the type of user. Fees associated with the using of the adjuster are discussed below in Feasibility criterion 4d. Adjustment in the underlying populations also has also been applied. The NQF Statistical Consultant conducted an analysis of the risk -adjustment model was conducted by the NQF statistical consultant and shared it with the Committee. The risk- adjustment model was included in a correlation analysis with the physician total cost index (TCI) and the observed actual costs, and which demonstrated that the risk -adjustment model adequately accounts for variation, lowering the correlation between the TCI and actual costs.

2b5. Identification of statistically significant/meaningful differences: H-7, M-5, L-2, I-4

Committee Discussion: Most Committee members agreed the measure adequately demonstrated this criterion. Others believed that given the concerns with the exclusions, focus on primary care encounters, validity testing at the group level only, and comparisons across regions, the ability to determine statistically significant differences is unclear.

2b6. Multiple data sources: N/A

Committee Discussion: N/A

Overall Validity: H-4, M-6, L-7, I-0, N/A-0

2c. Stratification for disparities: H-1, M-8, L-3, I-7, N/A-0

Committee Discussion: Due to the limitations in the administrative claims data to capture race and ethnicity, it is difficult to assess how they might be accounted for in the measure. However, if the data were available, the Committee agrees the measure is constructed such that it would be able to report stratified data. The HealthPartners system does collect race and language information and is working on eliminating disparities in its system; however, this measure has not been stratified to report on disparities at this time.

2.Overall Scientifically Acceptable: Yes [Y-9, N-10 (Committee Vote)]

3. Usability:

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3a. Measure performance results are publicly reported: H-9, M-7, L-0, I-0, N/A-0
Committee Discussion: Measure is currently in use in the Minnesota region.
3b. Measure results are meaningful/useful for accountability and quality improvement: H-4, M-8, L-4, I-0, N/A-0
Committee Discussion: The Committee's discussion of the generalizability and comparability of the measure geographically and
across varied patient populations also applies to the utility of this type of data for accountability and for the intended audiences. See
discussion in 2a1, 2b1, and 2b2.
3c. Data and results can be decomposed for transparency and understanding: H-7, M-6, L-3, I-0, N/A-0
<i>Committee Discussion:</i> Behavioral health and pharmacy carve- outs are a concern. Comparisons should not be made between entities with carve- outs and those without.
3d. Harmonized or justification for differences: N/A
Discussion: N/A
3.Overall Usability: H-6, M-7, L-2, I-0, N/A-0
4. Feasibility:
4. Leasibility. 4a. Data elements routinely generated during care process: H-11, M-7, L-0, I-0, N/A-0
<i>Committee Discussion</i> : The Committee agreed this criterion has been adequately demonstrated as this measure uses administrative
claims data, which are generated as a byproduct of care delivery.
4b. Data elements available electronically: H-11, M-6, L-1, I-0, N/A-0
<i>Committee Discussion</i> : The Committee agreed this criterion has been adequately demonstrated, as this measure uses administrative
claims data, which are available electronically. Due to the issue of carve-outs, however, not all data are available electronically (i.e;
pharmacy data).
4c. Susceptibility to inaccuracies/ unintended consequences identified: H-4, M-6, L-8, I-0, N/A-0
Committee Discussion: The committee suggested a title change to indicate this measure should only be used for measuring costs in
the in primary care setting. Setting the threshold of a visit with the PCP should be more than 1 visit (HP responded nonusers can be
brought into play at the health plan level).
4d. Data collection strategy can be implemented: H-0, M-13, L-3, I-0, N/A-0
Committee Discussion: Consideration of pricing table. Carve- outs an issue
4. Overall Feasibility: H-3, M-8, L-7, I-0, N/A-0

707

708 WITHDRAWN BY DEVELOPER

- The measures listed below were withdrawn from the Cycle one review process by the developers
- 710 for further refinement and testing.
- 711
- (1570) Acute Myocardial Infarction Episode-of-Care for 30 Days Following Onset
- 713 (ABMS)
- (1571) Acute Myocardial Infarction Episode-of-Care for Post-Acute Period (days 31 365) (ABMS)
- (1572) Episode of Care for Management of Chronic Coronary Artery Disease (ABMS)
- (1573) Episode of Care for Management of coronary Artery Disease Post Re-
- 718 Vascularization (ABMS)
- (1574) Episode of Care for Management of Chronic Congestive Heart Failure over a 12
 month period (ABMS)

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721		• (1575) Episode of Care for Management of Post-Hospitalization Chronic Congestive
722		Heart Failure over a 4 Month Period (ABMS)
723		• (1576) Episode of Care for Patients with Diabetes over a One Year Period (ABMS)
724		• (1593) ETG Based Acute Myocardial Infarction (AMI) Resource Use Measure (Ingenix)
725		• (1596) ETG Based Stroke Resource Use Measure (Ingenix)
726		
727	AD	DDITIONAL RECOMMENDATIONS
728	Re	commendations and further guidance from the Committee on the applying of the endorsed
729	me	asures and future resource use measurement efforts will be discussed in a subsequent report
730	for	Cycle two of this project.
731	NOTES	
732 733 734	1.	Catlin A, et al., National Health Spending in 2006: A Year of Change for Prescription Drugs, Health Affairs. 2008; 27(1):14–29.
735 736 737	2.	Banks J, et al., Disease and disadvantage in the United States and in England, Journal of the American Medical Association. 2006; 295(17):2037–2045.
738 739	3.	Hoyert DL, et al., Annual summary of vital statistics: 2004; Pediatrics 2006; 117(1):168–183.
740 741 742	4.	Weiss JE, Mushinski M., International mortality rates and life expectancy: selected countries, Statistical Bulletin—Metropolitan Life Insurance Company. 1999; 80(1):13–21.
742 743 744	5.	Catlin A, et al.
745 746 747	6.	CMS Grouper Episode for Medicare. Federal Business Opportunities. Obtained from: https://www.fbo.gov/index?s=opportunity&mode=form&id=452b7af0f5752ba0c444853793e 8024d&tab=core&_cview=1. Last Accessed August 2011.
748 749	7.	Institute of Medicine (IOM), Crossing the Quality Chasm: A New Health Systems for the 21 st Century, Washington, DC: National Academies Press; 2001.
750 751 752	8.	AQA Principles of "Efficiency" Measures April 2006. Available from: <u>http://www.aqaalliance.org/performancewg.htm</u> . Last accessed August 2011.
752 753 754	9.	Atlas, R. F., The role of PBMs in implementing the Medicare prescription drug benefit. Health Affairs. 2004; Jul-Dec; Suppl Web Exclusives: W4-504-15. Review.
		NQF REVIEW DRAFT—DO NOT CITE OR QUOTE

755 756	 Grazier, K. L. and L. L. Eselius., Mental health carve-outs: Effects and implications. Medical Care Research and Review. 1999; 56 (suppl 2): 37.
757 758	 Hasings, C., Mosteller, F., Tukey, J.W., Winsor, C.P. Low moments for small samples: a comparative study of order statistics. <u>Annals of Mathematical Statistics</u>. 1947; 18, 413–426.
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780 APPENDIX A—SPECIFICATIONS FOR COST AND RESOURCE USE MEASURES 781 2011 (Cycle 1)

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- 783 The following tables present the detailed measure specifications for the recommended consensus
- standards. All information presented here has been derived directly from the measure developers
- 785 without modification or alteration (except where measure developers agreed to such
- modifications) and is current as of August 15, 2011. All proposed voluntary consensus standards
- are open source, meaning they are fully accessible and disclosed.
- 788 Diabetes
- 790 *Cardiovascular*
- 791 (1558) Relative Resource Use for People with Cardiovascular Conditions (NCQA)......42
- 792 Non-Condition Specific

- 795

	1557: Relative Resource Use for People with Diabetes (RDI)
Steward	National Committee for Quality Assurance (NCQA), 1100 13th Street NW, STE 1000, Washington, District Of Columbia, 20005
Description	The risk-adjusted relative resource use by health plan members 18-75 years of age who were identified as having diabetes (type 1 and type 2) during the measurement year.
Resource Use Measure Type	Per capita (population- or patient-based)
Data Source	Administrative claims, Electronic Clinical Data, Electronic Clinical Data : Electronic Health Record, Electronic Clinical Data : Imaging/Diagnostic Study, Electronic Clinical Data : Laboratory, Electronic Clinical Data : Pharmacy, Electronic Clinical Data : Registry, Paper Records NCQA collects HEDIS RRU data directly from Health Plan Organizations and Preferred Provider Organizations via a data submission portal - the Interactive Data Submission System (IDSS).). RRU measures use NCQA's standardized prices and NCQA collects data with only the standardized prices applied.
Level of Analysis	Specifications: Clinician : Group/Practice, Clinician : Individual, Clinician : Team, Facility, Health Plan, Integrated Delivery System, Population : Community, Population : County or City, Population : National, Population : Regional, Population : states
Costing Method	RRU measures use NCQA's standardized prices. The organization does not report prices based on its contracts and fee schedules, rather it applies a standard price to each service, multiplies it by the number of

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	1557: Relative Resource Use for People with Diabetes (RDI)
	units of service and reports the resulting standard cost. Using this approach protects proprietary fee schedules and contracts while supporting equitable measure comparison across organizations and across regions without requiring adjustment for levels of service payment.
Tested Population	Commercial; Medicaid; Medicare
Resource Use Service Categories	Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management; Inpatient services: Procedures and surgeries; Inpatient services: Imaging and diagnostic; Inpatient services: Lab services; Inpatient services: Admissions/discharges; Ambulatory services: Outpatient facility services; Ambulatory services: Emergency Department; Ambulatory services: Pharmacy; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries; Ambulatory services: Imaging and diagnostic; Ambulatory services: Lab services
Attribution Approach	Specifications: Using administrative claims data submitted by all organizations, NCQA estimates the expected RRU amounts for each clinical condition for each organization. RRU index amounts are based on the ratio of observed to expected amounts. Results can be assessed at an overall basis, across all members and major clinical conditions, by service category or for a member cohort within a condition. Relative resource use is calculated at the plan-level and no attribution of resource use is made below this level. Attribution of resource use to a particular NCQA submission is based on the product line and reporting type of the plan that the member was enrolled in as of the end of the measure year.

796 797

	1558: Relative Resource Use for People with Cardiovascular Conditions
Steward	National Committee for Quality Assurance (NCQA), 1100 13th Street NW, STE 1000, Washington, District Of Columbia, 20005
Description	The risk-adjusted relative resource use by health plan members with specific cardiovascular conditions during the measurement year.
Resource Use Measure Type	Per capita (population- or patient-based)
Data Source	Administrative claims, Electronic Clinical Data, Electronic Clinical Data : Electronic Health Record, Electronic Clinical Data : Imaging/Diagnostic Study, Electronic Clinical Data : Laboratory, Electronic Clinical Data : Pharmacy, Paper Records NCQA collects HEDIS RRU data directly from Health Plan Organizations and Preferred Provider Organizations via a data submission portal - the Interactive Data Submission System (IDSS). RRU measures use NCQA's standardized prices and NCQA collects data with only the standardized prices applied.
Level of Analysis	Specifications: Clinician : Group/Practice, Health Plan, Integrated Delivery System, Population : National, Population : Regional
Costing Method	RRU measures use NCQA's standardized prices. The organization does not report prices based on its contracts and fee schedules, rather it applies a standard price to each service, multiplies it by the number of units of service and reports the resulting standard cost. Using this approach protects proprietary fee schedules and contracts while supporting equitable measure comparison across organizations and across regions without requiring adjustment for levels of service payment.
Tested Population	Commercial; Medicaid; Medicare
Resource Use Service Categories	Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management; Inpatient services: Procedures and surgeries; Inpatient services: Imaging and diagnostic; Inpatient services: Lab services; Inpatient services: Admissions/discharges; Ambulatory services: Outpatient facility services;

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	1558: Relative Resource Use for People with Cardiovascular Conditions
	Ambulatory services: Emergency Department; Ambulatory services: Pharmacy; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries; Ambulatory services: Imaging and diagnostic; Ambulatory services: Lab services
Attribution Approach	Specifications: Using administrative claims data submitted by all organizations, NCQA estimates the expected RRU amounts for each clinical condition for each organization. RRU index amounts are based on the ratio of observed to expected amounts. Results can be assessed at an overall basis, across all members and major clinical conditions, by service category or for a member cohort within a condition. Relative resource use is calculated at the plan-level and no attribution of resource use is made below this level. Attribution of resource use to a particular NCQA submission is based on the product line and reporting type of the plan that the member was enrolled in as of the end of the measure year.

798 799

	1598: Total Resource Use Population-based PMPM Index
Steward	HealthPartners, 8170 33rd Avenue South, PO Box 1309, Bloomington, MN, 55425
Description	The Resource Use Index (RUI) is a risk adjusted measure of the frequency and intensity of services utilized to manage a provider group's patients. Resource use includes all resources associated with treating members including professional, facility inpatient and outpatient, pharmacy, lab, radiology, ancillary and behavioral health services.
Resource Use Measure Type	Per capita (population- or patient-based)
Data Source	Administrative claims, Other: Users administrative claims data base, Risk-adjustment Tool, Johns Hopkins ACG System Version 9.0, Standardized costing code table, Total Care Relative Resource Values (TCRRV) specification provided
Level of Analysis	Clinician : Group/Practice; Population : Community
Costing Method	Description: The Total Care Relative Resource Values (TCRRVs) are a grand linear scale of relative values designed to evaluate resource use across all types of medical services, procedures and places of service. The values are independent of price and can be used to evaluate providers, hospitals, physicians and health plans against their peers on their efficiency of resource use in treating like conditions. General Overview of Application: The TCRRVs are applied at the procedure level for each component of care with the exception of inpatient, which is applied at the full admission level. There is a TCRRV lookup table for each component of care where each claim's procedure is matched with the corresponding value. The TCRRV weights that are applied to the claim is tested for accuracy and a total TCRRV is calculated. The final step is to calibrate the total TCRRVs to the paid ratio between components of care using the paid adjustment factor. <u>http://www.healthpartners.com/files/56500.pdf</u> OR <u>www.healthpartners.com/tcoc</u> .
Tested Population	Commercial
Resource Use Service Categories	Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management; Inpatient services: Procedures and surgeries; Inpatient services: Imaging and diagnostic; Inpatient services: Lab services; Inpatient services: Admissions/discharges; Inpatient services: Labor (hours, FTE, etc.); Ambulatory services: Outpatient facility services; Ambulatory services: Emergency Department; Ambulatory services: Pharmacy; Ambulatory services: Evaluation and management; Ambulatory services: Procedures and surgeries; Ambulatory services: Labor (hours, FTE, etc.); Durable Medical Equipment (DME)

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	1598: Total Resource Use Population-based PMPM Index
Attribution Approach	Guidelines: To determine which members to include in the Total Resource Use measure, there are several options available depending upon your business purpose and unit of measure. If the unit of measure is an entire health plan or employer group, all members will be included in the Total Resource Use measure. If the unit of measure is a provider and members are required to select a primary care provider, we recommend using the member selected provider.
	When the member is not required to select a primary care provider, we recommend the use of an attribution algorithm to identify the member's primary care provider. The measure was tested using this methodology.

800 801

	1604: Total Cost of Care Population-based PMPM Index
Steward	HealthPartners, 8170 33rd Avenue South, PO Box 1309, Bloomington, MN, 55425
Description	Total Cost of Care reflects a mix of complicated factors such as patient illness burden, service utilization and negotiated prices.
Resource Use Measure Type	Per capita (population- or patient-based)
Data Source	Administrative claims, Other: Users administrative claims data base, Risk-adjustment Tool, Johns Hopkins ACG System Version 9.0,
Level of Analysis	Guideline: Clinician : Group/Practice, Population : Community
Costing Method	The Total Cost of Care considers 100% of health care services in the Total Cost Index and is calculated on a risk-adjusted paid per member per month basis as well benchmarked to a peer group. The paid amount (i.e., allowed) is inclusive of both plan and member liability.
Tested Population	Commercial
Resource Use Service Categories	Inpatient services: Inpatient facility services; Inpatient services: Evaluation and management; Inpatient services: Procedures and surgeries; Inpatient services: Imaging and diagnostic; Inpatient services: Lab services; Inpatient services: Admissions/discharges; Inpatient services: Labor (hours, FTE, etc.); Ambulatory services: Outpatient facility services; Ambulatory services: Emergency Department; Ambulatory services: Pharmacy; Ambulatory services: Evaluation and management; Ambulatory services: Pharmacy; Ambulatory services: Imaging and diagnostic; Ambulatory services: Ambulatory services: Lab services: Lab services: Lab services: Imaging and diagnostic; Ambulatory services: Lab services; Ambulatory services; Ambulato
Attribution Approach	Guidelines: To determine which members to include in the Total Resource Use measure, there are several options available depending upon your business purpose and unit of measure. If the unit of measure is an entire health plan or employer group, all members will be included in the Total Resource Use measure. If the unit of measure is a provider and members are required to select a primary care provider, we recommend using the member selected provider. When the member is not required to select a primary care provider, we recommend the use of an attribution algorithm to identify the member's primary care provider. The measure was tested using this methodology.

802

803	APPENDIX B—COMMITTEE
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935 APPENDIX D—RESOURCE USE MEASUREMENT TERMS

936 The following resource use measurement terms have been defined based on their use in the 937 context of this project and are important to understanding the concepts in this report. Attribution- identifying and assigning of a responsible provider or entity (e.g., health plan) for 938 the care delivered for an episode or population. 939 940 941 Benchmarking - the process of comparing the performance of accountable entities with that of their peers or with external best practice results. In developing comparative estimates, results 942 should be risk adjusted for patient-level attributes to support the valid comparisons of these 943 accountable entitles. 944 945 **Carve-outs** - the outsourcing of services, such as behavioral health or pharmacy claims, to 946 947 specialty health plans or claims processing entities or organizations. 948 949 **Clinical hierarchy** - an arrangement of clinical conditions that are ranked according to severity, 950 as "high," "below," or "at the same level." For example, if a patient has COPD and develops bronchitis, COPD would be assigned a greater weight than bronchitis. 951 952 953 **Exclusion criteria** - criteria applied before a measure is tested in order to remove any individuals with conditions that may skew the final measure score. 954 955 **Peer groups** - the ways in which resource use measures ensure providers and health plans are 956 compared to similar providers and health plans. 957 958 959 Per capita measure – counts all services provided to a person within a specific population, regardless of condition or encounters with system. 960 961 **Per episode measure** - counts resources based on bundles of services that are part of a 962 963 distinctive event provided by one or multiple entities (e.g., health services provided associated with an event or series of events for acute myocardial infarction) 964 965 966 **Resource use service categories** - categories of resource units or services provided care for a patient or population. Resource units are generally are identified through claims data and 967 grouped into categories with similar types of claims (e.g., x-rays grouped into imaging category). 968 969 Categories are generally are and measured in terms of dollars, but also can also include resources not captured on a claim (e.g., nursing hours). 970 971 972 **Risk-adjustment** - a corrective approach designed to reduce any negative or positive consequences associated with caring for patients of higher or lower health risk or propensity to 973 require health services. 974 975

- 976 Severity levels pre-determined levels of acuity used to rank and assign patients based on an
 977 assessment of the aggregate of their conditions/diagnosis codes.
- 978
- Standardized pricing pre-established uniform price for a service, typically based on historical
 price, replacement cost, or an analysis of completion in the market; removes variation in resource
 costs due to differences in negotiated prices or geographic differences based on labor or other
- 982 input costs.
- 983
- 984 **Stratification** division of a population or resource services into distinct, independent strata, or 985 groups of similar data, anothing analysis of the specific subgroups. This type of adjustment can
- 985 groups of similar data, enabling analysis of the specific subgroups. This type of adjustment can 986 be used to show where disparities exist or where there is a need to expose differences in results.
- 987