

MEASURE INFORMATION FORM

2015 QRURs and the 2017 Value Modifier

2015 MEASURE INFORMATION ABOUT THE PER CAPITA COSTS FOR ALL ATTRIBUTED BENEFICIARIES MEASURE, CALCULATED FOR THE 2017 VALUE-BASED PAYMENT MODIFIER PROGRAM

A. Measure Name

Per Capita Costs for All Attributed Beneficiaries measure

B. Measure Description

The Per Capita Costs for All Attributed Beneficiaries measure is a payment-standardized, annualized, risk-adjusted, and specialty-adjusted¹ measure that evaluates the overall efficiency of care provided to beneficiaries attributed to solo practitioners and groups, as identified by their Medicare Taxpayer Identification Number (TIN).²

C. Rationale

To support the efforts of TINs that are working to efficiently provide high-quality care to their Medicare Fee-for-Service (FFS) beneficiaries, the Per Capita Costs for All Attributed Beneficiaries measure provides meaningful information about the costs associated with delivering care to beneficiaries attributed to TINs.

The Centers for Medicare & Medicaid Services (CMS) uses the Per Capita Costs for All Attributed Beneficiaries measure in combination with the Medicare Spending per Beneficiary (MSPB) and Per Capita Costs For Beneficiaries with Specific Conditions measures to determine each TIN's relative utilization of health care resources. Information on TINs' performance on this measure is included in the 2015 Annual and Mid-Year Quality and Resource Use Reports (QRURs) and used in the calculation of the 2017 Value Modifier.

The information in this document was used to calculate this measure for the 2017 Value Modifier (based on calendar year 2015 data) as shown in the 2015 Annual QRUR. The 2015 Mid-Year QRUR provides a preview of each TIN's performance on this measure based on data from July 1, 2014 to June 30, 2015.

¹ See the descriptions of payment standardization, annualization, risk adjustment, and specialty adjustment in section H for more information.

² See the description of attribution in section H for more information.

D. Measure Outcome (Numerator)

The outcome for this measure is the sum of Medicare Part A and Part B costs for each beneficiary. Costs are payment standardized, annualized, risk adjusted, and specialty adjusted (see the links to additional resources and descriptions of payment standardization, annualization, risk adjustment, and specialty adjustment in section H for more detail on measure construction).³

E. Population Measured (Denominator)

After applying the exclusions outlined in section F, all Medicare beneficiaries who received Medicare-covered services and are attributed to a TIN during the performance period are included in the calculation of the TIN's Per Capita Costs for All Attributed Beneficiaries measure. Beneficiary attribution follows a two-step process (described in section H) that assigns a beneficiary to a single TIN based on the amount of primary care services received and the provider specialties that performed these services.

F. Exclusions

Beneficiaries are excluded from the population measured if they meet any of the following conditions:

- were not enrolled in both Medicare Part A and Part B for every month during the performance period unless part year enrollment was the result of new enrollment or death
- were enrolled in a private Medicare health plan (for example, a Medicare Advantage HMO/PPO or a Medicare private FFS plan) for any month during the performance period
- resided outside the United States, its territories, and its possessions during the performance period

G. Data Collection Approach and Measure Collection

This measure is calculated from Medicare Part A and Part B paid claims for services provided during the performance period that include inpatient hospital; outpatient hospital; skilled nursing facility; home health; hospice; durable medical equipment, prosthetics, orthotics, and supplies (DMEPOS); and Medicare carrier (non-institutional physician/supplier) claims. The measure also uses Medicare beneficiary enrollment data to capture patient characteristics. This measure does not require any additional measure submission by TINs. Medicare Part A and B paid claims are used to attribute beneficiaries to TINs for this measure, as described below. Part D-covered prescription drug costs are not included in the calculation of the Per Capita Costs for All Attributed Beneficiaries.

³ This measure does not have a traditional numerator and denominator like a process of care measure; see risk adjustment and other resources below for more detail on measure construction.

H. Methodological Information and Measure Construction

Measure construction. CMS implements the following three steps to the Per Capita Costs for All Attributed Beneficiaries measure for each TIN: (1) beneficiary costs are payment standardized and annualized, (2) the payment-standardized annualized per capita costs are risk-adjusted, and (3) the payment-standardized, annualized, risk-adjusted, costs are then specialty adjusted. Below is an outline of methodologies used in each step followed by more in-depth discussions of each step.

Payment standardization and annualization methodology for the Per Capita Costs for All Attributed Beneficiaries measure.

The Per Capita Costs for All Attributed Beneficiaries measure is payment standardized to take into account payment factors that are unrelated to the care provided (such as payments supporting larger Medicare program goals like indirect medical education add-on payments, or geographic variation in Medicare payment policies). This allows for a more equitable comparison across providers. More information on the payment standardization algorithm is available at:

http://www.qualitynet.org/dcs/ContentServer?c=Page&pagename=QnetPublic%2FPage%2FQne tTier4&cid=1228772057350.⁴

In performance year 2015, part year beneficiaries may be attributed to TINs if the reason for their part year enrollment was either that they were new enrolles in Medicare at some time other than the start of the calendar year or they died during the calendar year. In order to ensure valid comparisons between TINs with part year beneficiaries and those without any part year beneficiaries, CMS annualizes the costs of part year beneficiaries before calculating the total per capita cost measures by dividing the total payment standardized costs for each beneficiary for the calendar year by the fraction of the year the beneficiary had both Part A and Part B coverage. For example, if a beneficiary had both Part A and Part B coverage from January through September, died in October, and had total costs over his 9 months of full coverage of \$1,350, then his annualized costs would be equal to \$1,800:

Annualized cost =
$$\$1800 = \frac{\$1350}{\frac{9}{12}}$$

Payment standardization and annualization are implemented using the following steps:

- a. Eliminate payments not directly related to services rendered, such as indirect medical education, and disproportionate share hospital payments to hospitals. This step also excludes incentive or penalty payments as the result of programs such as the Value Modifier and PQRS.
- b. Substitute a national amount for services paid on the basis of state fee schedules.
- c. Adjust outlier payments for differences in area wages.

⁴ The CMS document refers to this process as "price standardization" rather than "payment standardization," but the two terms are equivalent.

d. Annualize standardized costs by dividing costs by the fraction of the year the beneficiary had both Part A and Part B coverage as a result of death or new enrollment.

Risk adjustment methodology for the payment-standardized, annualized Per Capita Costs for All Attributed Beneficiaries measure.

Risk adjustment accounts for beneficiary-level risk factors that can affect medical costs, regardless of the care provided. A TIN's risk-adjusted cost is calculated as the ratio of the TIN's actual annualized payment-standardized, annualized, non–risk-adjusted total per capita cost to its expected annualized payment-standardized total per capita cost multiplied by the average payment-standardized, annualized non–risk-adjusted cost across all beneficiaries who are attributed to a TIN. If a TIN's annualized, payment-standardized, annualized, and risk-adjusted total per capita cost is less than its payment-standardized, annualized, non–risk-adjusted total per capita cost, then the TIN's costs were less than expected given the risk of its attributed beneficiaries.

The measures of beneficiary risk used in the risk-adjustment algorithm are the beneficiary's CMS-HCC risk score and ESRD. To ensure that the model measures the influence of health status (as measured by diagnoses) on the treatment provided (costs incurred), rather than capturing the influence of treatment on a beneficiary's health status, the risk adjustment model uses prior year (2014) risk factors to predict current year (2015) per capita costs. A CMS-HCC risk score of 1 indicates risk associated with expenditures for the average beneficiary nationwide. A beneficiary risk score greater than 1 indicates above average risk and a risk score less than 1 indicates below average risk. For new enrollees without a full year of medical history, the risk Medicare claims medical history, the risk score is based on age, sex, original reason for Medicare entitlement (age or disability), Medicaid enrollment, and medical history. Medicare claims history is assessed using ICD-9 diagnosis codes from Medicare paid claims and spans 79 HCC categories that have related disease characteristics and costs. For more information on risk adjustment, please see the Risk Adjustment Fact Sheet at the following URL: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PhysicianFeedbackProgram/2015-QRUR.html.

Risk adjustment is implemented using the following steps:

- a. Replace the top and bottom 1 percentile of the distribution of beneficiary costs with the 99th and 1st percentile value, respectively, (referred to as Winsorization).
- b. Determine the TIN's expected annualized payment-standardized, total per capita cost based on two risk-adjustment algorithms that account for the age, sex, disability status, CMS hierarchical condition categories (CMS-HCCs)⁵, and end-stage renal disease (ESRD) status of its attributed beneficiaries.
- c. Compute the ratio of the TIN's actual annualized, payment-standardized, total per capita cost to its expected annualized payment-standardized per capita cost.
- d. In order to convert the ratio calculated in step "c." above into a dollar amount, multiply the TIN's actual-to-expected ratio by the average annualized, payment-standardized,

⁵ One algorithm is used for new enrollees and the second is used for all other "continuing" enrollees. Table 1 lists the 79 HCCs included in the community CMS-HCC risk-adjustment model used for continuing enrollees. CMS-HCCs are not included in the new enrollee CMS-HCC risk-adjustment model used for new enrollee beneficiaries.

non-risk-adjusted cost across all beneficiaries attributed to any TIN. The result is the TIN's payment-standardized, annualized, risk-adjusted per capita cost.

Specialty adjustment methodology for the payment-standardized, annualized, riskadjusted Per Capita Costs for all Attributed Beneficiaries measure.

Specialty adjustment accounts for TIN-level differences in specialty mix that can affect medical costs, regardless of the care provided. The Per Capita Costs for All Attributed Beneficiaries measure is specialty-adjusted so that TINs can be compared more fairly with their peers. Specialty-adjusted costs for a TIN with a disproportionate number of specialists with high-cost beneficiaries will be lower than the TIN's non–specialty-adjusted costs because the specialists with high-cost beneficiaries will generate expected costs that exceed the average cost across all TINs; similarly, specialty-adjusted costs will be higher than non–specialty-adjusted costs for TINs that have a disproportionate number of specialists with low-cost beneficiaries. For more information on specialty adjustment, please see the Specialty Adjustment Fact Sheet at the following URL: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PhysicianFeedbackProgram/2015-QRUR.html.

The following steps are used in specialty adjustment:

- a. Compute national specialty-specific expected costs by taking a weighted average of all TINs' payment-standardized, annualized, and risk-adjusted costs across all attributed beneficiaries, where the weight for each TIN is calculated as the percent of the TIN's eligible professionals in that specialty, multiplied by the number of the TIN's eligible professionals in that specialty, multiplied by the number of beneficiaries attributed to the TIN.
- b. Compute specialty-adjusted expected costs for the TIN as the weighted average of the national specialty-specific expected costs, where the weight is the percent of the TIN's Part B payments across attributed beneficiaries who were billed by the specialty.
- c. Calculate the ratio of the TIN's payment-standardized, annualized, and risk-adjusted cost to its specialty-adjusted expected cost.
- d. Multiply the TIN's ratio by the average payment-standardized, annualized, non-riskadjusted cost across all beneficiaries who are attributed to a TIN in the performance period to obtain the TIN's specialty-adjusted, annualized, risk-adjusted, paymentstandardized per capita cost.

Attribution. For the Per Capita Costs for All Attributed Beneficiaries measure, beneficiaries are attributed to a single TIN in a two-step process that takes into account the level of primary care services received (as measured by Medicare-allowed charges during the performance period) and the provider specialties that performed these services. Only beneficiaries who received a primary care service during the performance period are considered in attribution. For more information on attribution, please see the Attribution Fact Sheet at the following URL: https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PhysicianFeedbackProgram/2015-QRUR.html.

The following two steps are used to attribute beneficiaries to a TIN for the Per Capita Costs for All Attributed Beneficiaries measure:

- a. A beneficiary is attributed to a TIN in the first step if the beneficiary received more primary care services (as defined in Table 2) from primary care physicians (PCPs)⁶, nurse practitioners (NPs), physician assistants (PAs), and clinical nurse specialists (CNSs) in that TIN than in any other TIN.
- b. If a beneficiary did not receive a primary care service from any PCP, NP, PA, or CNS during the performance period, the beneficiary is attributed to a TIN in the second step if the beneficiary received more primary care services from specialist physicians within the TIN than in any other TIN.

I. For Further Information

More information about the 2015 QRURs and 2017 Value Modifier is available at: <u>https://www.cms.gov/Medicare/Medicare-Fee-for-Service-</u> Payment/PhysicianFeedbackProgram/2015-QRUR.html.

⁶ These specialties are defined using the following CMS specialty codes: general practice (01), family practice (08), internal medicine (11), geriatric medicine (38), nurse practitioner (50), certified clinical nurse specialist (89), and physician assistant (92).

J. Tables

Table 1. Hierarchical condition categories included in the CMS-HCC risk-adjustment model

HCC number and brief description of disease/condition	
HCC1 = HIV/AIDS	HCC75 = Coma, Brain Compression/Anoxic Damage
HCC2 = Septicemia/Shock	HCC77 = Respirator Dependence/Tracheostomy Status
HCC5 = Opportunistic Infections	HCC78 = Respiratory Arrest
HCC7 = Metastatic Cancer and Acute Leukemia	HCC79 = Cardio-Respiratory Failure and Shock
HCC8 = Lung, Upper Digestive Tract, and Other Severe Cancers	HCC80 = Congestive Heart Failure
HCC9 = Lymphatic, Head and Neck, Brain, and Other Major Cancers	HCC81 = Acute Myocardial Infarction
HCC10 = Breast, Prostate, Colorectal, and Other Cancers and Tumors	HCC82 = Unstable Angina and Other Acute Ischemic Heart Disease
HCC15 = Diabetes with Renal or Peripheral Circulatory Manifestation	HCC83 = Angina Pectoris/Old Myocardial Infarction
HCC16 = Diabetes with Neurologic or Other Specified Manifestation	HCC92 = Specified Heart Arrhythmias
HCC17 = Diabetes with Acute Complications	HCC95 = Cerebral Hemorrhage
HCC18 = Diabetes with Ophthalmologic or Unspecified Manifestation	HCC96 = Ischemic or Unspecified Stroke
HCC19 = Diabetes without Complication	HCC100 = Hemiplegia/Hemiparesis
HCC21 = Protein-Calorie Malnutrition	HCC101 = Cerebral Palsy and Other Paralytic Syndromes
HCC25 = End-Stage Liver Disease	HCC104 = Vascular Disease with Complications
HCC26 = Cirrhosis of Liver	HCC105 = Vascular Disease
HCC27 = Chronic Hepatitis	HCC107 = Cystic Fibrosis
HCC31 = Intestinal Obstruction/Perforation	HCC108 = Chronic Obstructive Pulmonary Disease
HCC32 = Pancreatic Disease	HCC111 = Aspiration and Specified Bacterial Pneumonias
HCC33 = Inflammatory Bowel Disease	HCC112 = Pneumococcal Pneumonia, Emphysema, Lung Abscess
HCC37 = Bone/Joint/Muscle Infections/Necrosis	HCC119 = Proliferative Diabetic Retinopathy and Vitreous Hemorrhage
HCC38 = Rheumatoid Arthritis and Inflammatory Connective Tissue Disease	HCC130 = Dialysis Status
HCC44 = Severe Hematological Disorders	HCC131 = Renal Failure
HCC45 = Disorders of Immunity	HCC132 = Nephritis
HCC51 = Drug/Alcohol Psychosis	HCC148 = Decubitus Ulcer of Skin
HCC52 = Drug/Alcohol Dependence	HCC149 = Chronic Ulcer of Skin, Except Decubitus
HCC54 = Schizophrenia	HCC150 = Extensive Third-Degree Burns
HCC55 = Major Depressive, Bipolar, and Paranoid Disorders	HCC154 = Severe Head Injury
HCC67 = Quadriplegia, Other Extensive Paralysis	HCC155 = Major Head Injury
HCC68 = Paraplegia	HCC157 = Vertebral Fractures Without Spinal Cord Injury
HCC69 = Spinal Cord Disorders/Injuries	HCC158 = Hip Fracture/Dislocation
HCC70 = Muscular Dystrophy	HCC161 = Traumatic Amputation
HCC71 = Polyneuropathy	HCC164 = Major Complications of Medical Care and Trauma
HCC72 = Multiple Sclerosis	HCC174 = Major Organ Transplant Status
HCC73 = Parkinson's and Huntington's Diseases	HCC176 = Artificial Openings for Feeding or Elimination
HCC74 = Seizure Disorders and Convulsions	HCC177 = Amputation Status, Lower Limb/Amputation Complications

HCPCS codes **Brief description** 99201-99205 New patient, office, or other outpatient visit 99211-99215 Established patient, office, or other outpatient visit 99304-99306 New patient, nursing facility care 99307-99310 Established patient, nursing facility care 99315-99316 Established patient, discharge day management service 99318 Established patient, other nursing facility service 99324-99328 New patient, domiciliary or rest home visit 99334-99337 Established patient, domiciliary or rest home visit Established patient, physician supervision of patient (patient not present) in home, 99339-99340 domiciliary, or rest home 99341-99345 New patient, home visit 99347-99350 Established patient, home visit G0402 Initial Medicare visit G0438 Annual wellness visit, initial G0439 Annual wellness visit, subsequent G0463 Hospital outpatient clinic visit (Electing Teaching Amendment hospitals only) Note: Labels are approximate. For more details, see the American Medical Association's Current Procedural

Table 2. Healthcare Common Procedure Coding System (HCPCS) primary care service codes

Note: Labels are approximate. For more details, see the American Medical Association's Current Procedural Terminology and the CMS website (http://www.cms.gov/Medicare/Coding/HCPCSReleaseCodeSets/HCPCS Quarterly Update.html).