

Elective Outpatient Percutaneous Coronary Intervention (PCI) Measure

Merit-based Incentive Payment System (MIPS): Measure Information Form (MIF)

2025 Performance Period

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1.0 Introduction

This document details the methodology for the Elective Outpatient Percutaneous Coronary Intervention (PCI) measure and should be reviewed along with the Elective Outpatient Percutaneous Coronary Intervention (PCI) Measure Codes List file, which contains the medical codes used in constructing the measure.

1.1 Measure Name

Elective Outpatient Percutaneous Coronary Intervention (PCI) episode-based cost measure

1.2 Measure Description

Episode-based cost measures represent the cost to Medicare for the items and services provided to a patient during an episode of care (“episode”). In all supplemental documentation, “cost” generally means the standardized¹ Medicare allowed amount,² and claims data from Medicare Parts A and B are used to construct the episode-based cost measures.

The Elective Outpatient PCI episode-based cost measure evaluates a clinician’s risk-adjusted cost to Medicare for patients who undergo elective outpatient PCI surgery to place a coronary stent for heart disease during the performance period. The measure score is the clinician’s risk-adjusted cost for the episode group averaged across all episodes attributed to the clinician. This procedural measure includes costs of services that are clinically related to the attributed clinician’s role in managing care during each episode from the clinical event that opens, or “triggers,” the episode through 30 days after the trigger.

1.3 Measure Rationale

PCI procedures are performed in 600,000 patients each year and have the highest aggregate costs of all cardiovascular procedures, totaling about \$10 billion annually.³ The Elective Outpatient PCI episode-based cost measure was selected for development based on input from an expert clinician committee—the Cardiovascular Disease Management Clinical Subcommittee—because of its impact in terms of patient population and clinician coverage, and the opportunity for incentivizing cost-effective, high-quality clinical care in this clinical area. Subsequently, members of the Clinical Subcommittee provided extensive, detailed input on this measure.

¹ Claim payments are standardized to account for differences in Medicare payments for the same service(s) across Medicare providers. Payment standardized costs remove the effect of differences in Medicare payment among health care providers that are the result of differences in regional health care provider expenses measured by hospital wage indexes and geographic price cost indexes (GPCIs) or other payment adjustments such as those for teaching hospitals. For more information, please refer to the “CMS Part A and Part B Price (Payment) Standardization - Basics” and “CMS Part A and Part B Price (Payment) Standardization - Detailed Methods” documents posted on the [CMS Price \(Payment\) Standardization Overview page](https://resdac.org/articles/cms-price-payment-standardization-overview). (<https://resdac.org/articles/cms-price-payment-standardization-overview>).

² Cost is defined by allowed amounts on Medicare claims data, which include both Medicare trust fund payments and any applicable beneficiary deductible and coinsurance amounts.

³ Amin, Amit P., Mark Patterson, John A. House, Helmut Giersiefen, John A. Spertus, Dmitri V. Baklanov, Adnan K. Chhatrwalla et al. "Costs associated with access site and same-day discharge among Medicare beneficiaries undergoing percutaneous coronary intervention: an evaluation of the current percutaneous coronary intervention care pathways in the United States." *JACC: Cardiovascular Interventions* 10, no. 4 (2017): 342-351.

1.4 Measure Numerator

The cost measure numerator is the sum of the ratio of observed to expected⁴ payment-standardized cost to Medicare for all Elective Outpatient PCI episodes attributed to a clinician. This sum is then multiplied by the national average observed episode cost to generate a dollar figure.

1.5 Measure Denominator

The cost measure denominator is the total number of episodes from the Elective Outpatient PCI episode group attributed to a clinician.

1.6 Data Sources

The Elective Outpatient PCI cost measure uses the following data sources:

- Medicare Part A and B claims data from the Common Working File (CWF)
- Enrollment Data Base (EDB)
- Long Term Care Minimum Data Set (LTC MDS)⁵

1.7 Care Settings

Methodologically, the Elective Outpatient PCI cost measure can be triggered based on claims data from: ambulatory/office-based care centers, outpatient (OP) hospitals, and ambulatory surgical centers (ASC).

1.8 Cohort

The cohort for this cost measure consists of patients who are Medicare beneficiaries enrolled in Medicare fee-for-service and who undergo elective outpatient PCI surgery to place a coronary stent for heart disease that triggers an Elective Outpatient PCI episode.

The cohort for this cost measure is also further refined by the definition of the episode group and measure-specific exclusions (refer to Section 4).

⁴ Expected costs refer to costs predicted by the risk adjustment model. For more information on expected costs and risk adjustment, please refer to Section 4.5.

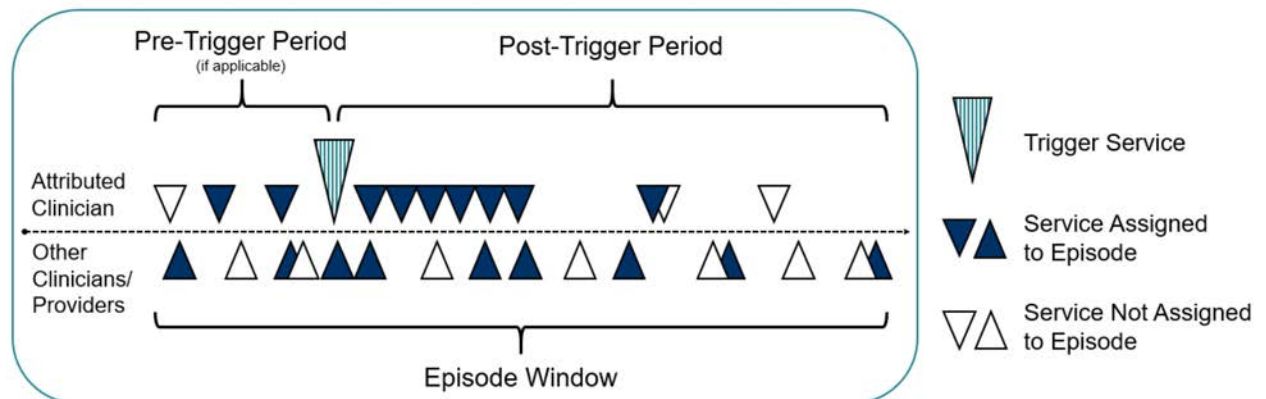
⁵ For information on how LTC MDS data are used in risk adjustment, please refer to Section 4.5.

2.0 Methodology Steps

There are 2 overarching processes in calculating episode-based cost measure scores: episode construction (Steps 1-3) and measure calculation (Steps 4-6). This section provides a brief one-page summary of these processes for the Elective Outpatient PCI cost measure. Section 4 describes the processes in detail.

1. **Trigger and define an episode:** Episodes are defined by billing codes that open, or “trigger,” an episode. The episode window starts on the day of the trigger and ends 30 days after the trigger.
2. **Attribute the episode to a clinician:** For this procedural episode group, an attributed clinician is any clinician who bills a trigger code for the episode group on the day of the procedure.
3. **Assign costs to the episode and calculate the episode observed cost:** Clinically related services occurring during the episode window are assigned to the episode. The cost of the assigned services is summed to determine each episode’s standardized observed cost.

Figure 1. Diagram Showing an Example of a Constructed Episode



4. **Exclude episodes:** Exclusions remove unique groups of patients from cost measure calculation in cases where it may be impractical and unfair to compare the costs of caring for these patients to the costs of caring for the cohort at large.
5. **Calculate expected costs for risk adjustment:** Risk adjustment aims to isolate variation in clinician costs to only the costs that clinicians can reasonably influence (e.g., accounting for patient age, comorbidities and other factors). A regression analysis is run using the risk adjustment variables as covariates to estimate the expected cost of each episode. Then, statistical techniques are applied to reduce the effect of extreme outliers on measure scores.
6. **Calculate the measure score:** For each episode, the ratio of standardized total observed cost (from Step 3) to risk-adjusted expected cost (from Step 5) is calculated and averaged across all of a clinician’s or clinician group’s attributed episodes to obtain the average episode cost ratio. The average episode cost ratio is multiplied by the national average observed episode cost to generate a dollar figure for the cost measure score.

3.0 Measure Specifications Quick Reference

This section provides a quick, at-a-glance reference for the Elective Outpatient PCI episode-based cost measure specifications. More details on each component can be found in Section 4, and the full list of codes and logic used to define each component can be found within the Measure Codes List file.

Episode Window: During what time period are costs measured?

Pre-Trigger Window: 0 days

Post-Trigger Window: 30 days

Triggers: Patients receiving what medical care are included in the measure?

- Procedure code indicating elective percutaneous coronary intervention (Current Procedural Terminology / Healthcare Common Procedure Coding System [CPT/HCPCS] 92920, 92921, 92928, 92929, 92933, 92934, 92937, 92938, 92943, 92944, C9600, C9601, C9602, C9603, C9604, C9605, C9606, C9607, C9608)

Service Assignment: Which clinically related costs are included in the measure?

Assigned services generally fall within the following clinical themes:

- Complications (which includes neurological, renal, vascular, and infectious complications)
- Myocardial Infarction or Coronary Revascularization
- Non-Invasive Cardiac Testing
- Other Cardiovascular Admissions / ED Visits
- Services Related to Bleeding

Risk Adjustors: Which risk factors are accounted for in the risk adjustment model?

- Standard risk adjustors, including comorbidities captured by 86 Hierarchical Condition Category (HCC) codes that map with thousands of ICD-10-CM diagnosis codes, interaction variables accounting for a range of comorbidities, patient age category, patient disability status, patient end-stage renal disease (ESRD) status, and recent use of institutional long-term care.
- Measure-specific risk adjustors including anemia, recent cardiac arrest, prior PCI, pulmonary hypertension, and valve disease.
- For the full list of standard and measure-specific risk adjustment variables, please reference the “RA” and “RA_Details” tabs of the Measure Codes List file.

Exclusions: Which populations are excluded from measure calculation?

- Standard exclusions to ensure data completeness:
 - The patient has a primary payer other than Medicare for any time overlapping the episode window or 120-day lookback period prior to the trigger day.
 - The patient was not enrolled in Medicare Parts A and B for the entirety of the lookback period plus episode window, or was enrolled in Part C for any part of the lookback plus episode window.
 - No main clinician is attributed the episode.
 - The patient’s date of birth is missing.
 - The patient’s death date occurred before the episode ended.
 - The episode trigger claim was not performed in an ambulatory/office-based care, OP hospital, or ASC setting based on its place of service.
- Measure-specific exclusions including recent hospitalization for ST-Elevation Myocardial Infarction (STEMI), patients with new cardiac device implantation, and patients with history of intracranial hemorrhage or cerebral infarction. For the full list of measure-specific exclusions, please reference the “Exclusions” and “Exclusions_Details” tabs of the Measure Codes List file.

4.0 Detailed Measure Methodology

This section contains the technical details for the 2 overarching processes in calculating episode-based cost measure scores in more detail: Sections 4.1 through 4.3 describe episode construction and Sections 4.4 through 4.6 describe measure calculation.

4.1 Trigger and Define an Episode

Elective Outpatient PCI episodes are defined by Current Procedural Terminology / Healthcare Common Procedure Coding System (CPT/HCPCS) codes on Part B Physician/Supplier (Carrier) claims that open, or trigger, an episode. For the codes and logic relevant to this section please refer to the “Triggers” tab(s) in the Elective Outpatient PCI Measure Codes List.

The steps for defining an episode for the Elective Outpatient PCI episode group are as follows:

- **Identify** Part B Physician/Supplier claim lines with positive standardized payment that have a trigger code.
- **Trigger** an episode if all the following conditions are met for an identified Part B Physician/Supplier claim line:
 - It was billed by a clinician of a specialty that is eligible for MIPS.
 - It does not have a post-operative modifier code.⁶
 - It is the highest cost claim line across all claim lines identified in the above bullets and that have any Elective Outpatient PCI trigger code billed for the patient on that day.
- **Establish** the episode window as follows:
 - Establish the episode trigger date as the expense date of the trigger claim line identified in the "Trigger an episode" bullet above.
 - Establish the episode start date as the episode trigger date.
 - Establish the episode end date as 30 days after the episode trigger date.

4.2 Attribute Episodes to a Clinician

Once an episode has been triggered and defined, it is attributed to one or more clinicians of a specialty that is eligible for MIPS. Clinicians are identified by Taxpayer Identification Number (TIN) and National Provider Identifier (NPI) pairs (TIN-NPI), and clinician groups are identified by TIN. Only clinicians of a specialty that is eligible for MIPS or clinician groups where the triggering clinician is of a specialty that is eligible for MIPS are attributed episodes. For codes relevant to this section, please refer to the “Attribution” tab of the Elective Outpatient PCI Measure Codes List.

The steps for attributing an Elective Outpatient PCI episode are as follows:

- **Identify** claim lines with positive standardized payment for any trigger codes that occur on the episode trigger day.
- **Designate** a TIN-NPI as a main clinician if the following conditions are met:
 - No assistant modifier code is found on one or more claim lines billed by the clinician.
 - No exclusion modifier code is found on the same claim line.
- **Designate** a TIN-NPI as an assistant clinician if the following conditions are met:
 - The TIN-NPI was not designated as a main clinician.
 - An assistant modifier code is found.

⁶ Post-operative modifier codes indicate that a clinician billing the service was not involved in the main procedure but was involved in the post-operative care for that procedure, and as such the post-operative clinician would not be responsible for the trigger.

- No exclusion modifier code is found.
- **Attribute** an episode to any TIN-NPI designated as a main or assistant clinician.
- **Attribute** episodes to the TIN by aggregating all episodes attributed to NPIs that bill to that TIN. If the same episode is attributed to more than one NPI within a TIN, the episode is attributed only once to that TIN.

Future attribution rules may benefit from the implementation of patient relationship categories⁷ and codes.⁸ As required by Section 101(f) of the Medicare Access and CHIP Reauthorization Act of 2015 (MACRA), CMS will consider how to incorporate the patient relationship categories into episode-based cost measurement methodology as clinicians and billing experts gain experience with them.⁹

4.3 Assign Costs to an Episode and Calculate Total Observed Episode Cost

Services, and their Medicare costs, are assigned to an episode only when clinically related to the attributed clinician's role in managing patient care during the episode. Assigned services may include treatment and diagnostic services, ancillary items, services directly related to treatment, and those furnished as a consequence of care (e.g., complications, readmissions, unplanned care, and emergency department visits). Unrelated services are not assigned to the episode. For example, the cost of care for a chronic condition that occurs during the episode but is not related to the clinical management of the patient relative to the elective outpatient PCI surgery would not be assigned.

To ensure that only clinically related services are included, services during the episode window are assigned to the episode based on a series of service assignment rules, which are listed in the "Service_Assignment" tab of the Elective Outpatient PCI Measure Codes List file.

For the Elective Outpatient PCI episode group, only services performed in the following service categories are considered for assignment to the episode costs:

- Emergency Department (ED)
- Outpatient (OP) Facility and Clinician Services
- Inpatient (IP) - Medical
- IP - Surgical
- Inpatient Rehabilitation Facility (IRF) - Medical
- Durable Medical Equipment, Prosthetics, Orthotics, and Supplies (DME)
- Home Health (HH)

⁷ The MACRA Patient Relationship Categories aim to distinguish the relationship and responsibility of a clinician with a patient at the time of furnishing an item or service, thereby facilitating the attribution of patients and episodes to one or more clinicians for purposes of measure score calculations. For more information on Patient Relationship Categories, please refer to the [Patient Relationship Categories and codes operational list](https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/CMS-Patient-Relationship-Categories-and-Codes.pdf). (<https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/Value-Based-Programs/MACRA-MIPS-and-APMs/CMS-Patient-Relationship-Categories-and-Codes.pdf>)

⁸ The MACRA Patient Relationship Codes are Healthcare Common Procedure Coding System (HCPCS) Level II modifier codes that clinicians report on claims to identify their patient relationship category. For the Patient Relationship Codes, please refer to [Table 27 of the CY 2018 Physician Fee Schedule final rule](https://www.federalregister.gov/d/2017-23953/p-2203). (<https://www.federalregister.gov/d/2017-23953/p-2203>)

⁹ For more information on the Patient Relationship Categories and Codes, please download the [Patient Relationship Categories and Codes FAQ](https://qpp-cm-prod-content.s3.amazonaws.com/uploads/236/Patient-Relationship-Categories-and-Codes-webinar-FAQ.pdf). (<https://qpp-cm-prod-content.s3.amazonaws.com/uploads/236/Patient-Relationship-Categories-and-Codes-webinar-FAQ.pdf>)

In addition to service category, service assignment rules may be modified based on the service category in which the service is performed, as listed above. Service assignment rules may also be defined based on specific (i) service information alone or service information combined with diagnosis information, (ii) prior incidence of service, and/or (iii) the timing of the service, as detailed below.

- Services may be assigned to the episode based on the following service information combinations:
 - High level service code alone
 - High level service code combined with first 3 digits of the International Classification of Diseases – 10th Revision diagnosis code (3-digit ICD-10 diagnosis code)
 - High level service code combined with full ICD-10 diagnosis code
 - High level service code combined with more specific service code
 - High level service code combined with more specific service code and with 3-digit ICD-10 diagnosis code
 - High level service code combined with more specific service code and with full ICD-10 diagnosis code
- Assigned services may be further refined by prior incidence of service or diagnosis:
 - Services may be assigned unconditionally (regardless of prior incidence of the service in patient's recent claims history).
 - Services may be assigned if newly occurring.
 - Services may be assigned in combination with a diagnosis if the service is newly occurring.
 - Services may be assigned in combination with a diagnosis if the diagnosis is newly occurring.
 - Services may be assigned in combination with a diagnosis if either the service OR the diagnosis are newly occurring.
 - Services may be assigned in combination with a diagnosis if both the service AND the diagnosis are newly occurring.
- Services as defined by the applicable combinations and incidence options above may be assigned with only specific timing:
 - Services may be assigned based on whether or not the service occurs before the trigger (in the pre-trigger window) and/or after the trigger (in the post-trigger window).
 - Services may be assigned only if they occur within a particular number of days from the trigger within the episode window, and services may be assigned for a period shorter than the full duration of the episode window.

The steps for assigning costs are as follows:

- **Identify** all services on claims with positive standardized payment that occur within the episode window.
- **Assign** identified services to the episode based on the types of service assignment rules described above.
- **Assign** all claims with trigger codes occurring during the trigger day/stay.
- **Assign** all physician claims and DME claims occurring during the concurrent IP stay as applicable.
- **Assign** all IP evaluation and management (E/M) claims during IP stays in the post-trigger window assigned to episode as applicable.
- **Sum** standardized Medicare allowed amounts for all claims assigned to each episode to obtain the standardized total observed episode cost.

Service Assignment Example

- Clinician A performs elective outpatient PCI surgery for Patient K. This service triggers an Elective Outpatient PCI episode, which is attributed to Clinician A.
- Clinician B provides a follow-up echocardiogram, which is considered a clinically related service, during the episode window.
- Because follow-up echocardiogram during the episode window is considered to be clinically related to the initial elective outpatient PCI surgery, the cost of the follow-up echocardiogram will be assigned to Clinician A's Elective Outpatient PCI episode.

4.4 Exclude Episodes

Before measure calculation, episode exclusions are applied to remove certain episodes from measure score calculation. Certain exclusions are applied across all procedural episode groups, and other exclusions are specific to this measure, based on consideration of the clinical characteristics of a homogenous patient cohort. The measure-specific exclusions are listed in the “Exclusions” and “Exclusions_Details” tabs in the Elective Outpatient PCI Measure Codes List file.

The steps for episode exclusion are as follows:

- **Exclude** episodes from measure calculation if:
 - The patient has a primary payer other than Medicare for any time overlapping the episode window or 120-day lookback period prior to the trigger day.
 - The patient was not enrolled in Medicare Parts A and B for the entirety of the lookback period plus episode window, or was enrolled in Part C for any part of the lookback plus episode window.
 - No main clinician is attributed the episode.
 - The patient's date of birth is missing.
 - The patient's death date occurred before the episode ended.
 - The episode trigger claim was not performed in an ambulatory/office-based care, OP hospital, or ASC setting based on its place of service.
- **Apply** measure-specific exclusions, which check the patient's Medicare claims history for certain billing codes (as specified in the Measure Codes List file) that indicate the presence of a particular procedure, condition, or characteristic.

4.5 Estimate Expected Costs through Risk Adjustment

Risk adjustment is used to estimate expected episode costs in recognition of the different levels of care patients may require due to comorbidities, disability, age, and other risk factors. The risk adjustment model includes variables from the CMS Hierarchical Condition Category Version 24 (CMS-HCC V24) 2021 Risk Adjustment Model,¹⁰ as well as other standard risk adjustors (e.g., patient age) and variables for clinical factors that may be outside the attributed clinician's reasonable influence. A full list of risk adjustment variables can be found in the “RA” and “RA_Details” tabs of the Elective Outpatient PCI Measure Codes List file.

Steps for defining risk adjustment variables and estimating the risk adjustment model are as follows:

- **Define** HCC and episode group-specific risk adjustors using service and diagnosis information found on the patient's Medicare claims history in the 120-day period prior to

¹⁰ CMS uses an HCC risk adjustment model to calculate risk scores. The HCC model ranks diagnoses into categories that represent conditions with similar cost patterns. Higher categories represent higher predicted healthcare costs, resulting in higher risk scores. The 86 HCC codes included in the CMS-HCC V24 model are mapped to thousands of ICD-10-CM diagnosis codes.

the episode trigger day (or the timing specified in the "RA_Details" tab of the Measure Codes List file) for certain billing codes that indicate the presence of a procedure, condition, or characteristic.

- **Define** other risk adjustors that rely upon Medicare beneficiary enrollment and assessment data as follows:
 - Identify patients who are originally “Disabled without ESRD” or “Disabled with ESRD” using the original reason for joining Medicare field in the Medicare beneficiary EDB.
 - Identify patients with ESRD if their enrollment indicates ESRD coverage, ESRD dialysis, or kidney transplant in the Medicare beneficiary EDB in the lookback period.
 - Identify patients who have spent at least 90 days in a long-term care institution without having been discharged to the community for 14 days, based on LTC MDS assessment data, during the lookback period.
- **Drop** risk adjustors that are defined for less than 15 episodes nationally to avoid using very small samples.
- **Categorize** patients into age ranges using their date of birth information in the Medicare beneficiary EDB. If an age range has a cell count less than 15, collapse this in the next adjacent age range category towards the reference category (65-69).
- **Run** an ordinary least squares (OLS) regression model to estimate the relationship between all the risk adjustment variables and the dependent variable, the standardized observed episode cost, to obtain the risk-adjusted expected episode cost.
- **Winsorize**¹¹ expected costs as follows.
 - Assign the value of the 0.5th percentile to all expected episode costs below the 0.5th percentile.
 - Renormalize¹² values by multiplying each episode's winsorized expected cost by the average expected cost, and dividing the resultant value by the average winsorized expected cost.
- **Exclude**¹³ episodes with outliers as follows.
 - Calculate each episode's residual as the difference between the re-normalized, winsorized expected cost computed above and the observed cost.
 - Exclude episodes with residuals below the 1st percentile or above the 99th percentile of the residual distribution.
 - Renormalize the resultant expected cost values by multiplying each episode's winsorized expected costs after excluding outliers by the average standardized observed cost after excluding outliers, and dividing by the average winsorized expected cost after excluding outliers.

¹¹ Winsorization aims to limit the effects of extreme values on expected costs. Winsorization is a statistical transformation that limits extreme values in data to reduce the effect of possible outliers. Winsorization of the lower end of the distribution (i.e., bottom coding) involves setting extremely low predicted values below a predetermined limit to be equal to that predetermined limit.

¹² Renormalization is performed after adjustments are made to the episode's expected cost, such as bottom-coding or residual outlier exclusion. This process multiplies the adjusted values by a scalar ratio to ensure that the resulting average is equal to the average of the original value.

¹³ This step excludes episodes based on outlier residual values from the calculation and renormalizes the resultant values to maintain a consistent average episode cost level.

4.6 Calculate Measure Scores

Measure scores are calculated for a TIN or TIN-NPI as follows:

- Calculate the ratio of observed to expected episode cost for each episode attributed to the clinician/clinician group.
- Calculate the average ratio of observed to expected episode cost across the total number of episodes attributed to the clinician/clinician group.
- Multiply the average ratio of observed to expected episode cost by the national average observed episode cost to generate a dollar figure representing risk-adjusted average episode cost.

The clinician-level or clinician group practice-level risk-adjusted cost for any attributed clinician (or clinician group practice) “j” can be represented mathematically as:

$$Measure\ Score_j = \left(\frac{1}{n_j} \sum_{i \in I_j} \frac{Y_{ij}}{\hat{Y}_{ij}} \right) \left(\frac{1}{n} \sum_J \sum_{i \in \{I_j\}} Y_{ij} \right)$$

where:

Y_{ij}	is the standardized payment for episode i and attributed clinician (or clinician group practice) j
\hat{Y}_{ij}	is the expected standardized payment for episode i and clinician (or clinician group practice) j , as predicted from risk adjustment
n_j	is the number of episodes for clinician (or clinician group practice) j
n	is the total number of TIN/TIN-NPI attributed episodes nationally
$i \in \{I_j\}$	is all episodes i in the set of episodes attributed to clinician (or clinician group practice) j

A diagram demonstrating a visual depiction of an example measure calculation can be found in Appendix A.

A lower measure score indicates that the observed episode costs are lower than or similar to expected costs for the care provided for the particular patients and episodes included in the calculation, whereas a higher measure score indicates that the observed episode costs are higher than expected for the care provided for the particular patients and episodes included in the calculation.

Appendix A. Measure Calculation Example

The diagram below provides an illustrated example of measure calculation, using an example measure where the clinician has only 4 attributed episodes for demonstration purposes. For more details on measure calculation, please refer to Section 4.6.

Figure A-1. Episode-Based Cost Measure Calculation Example

