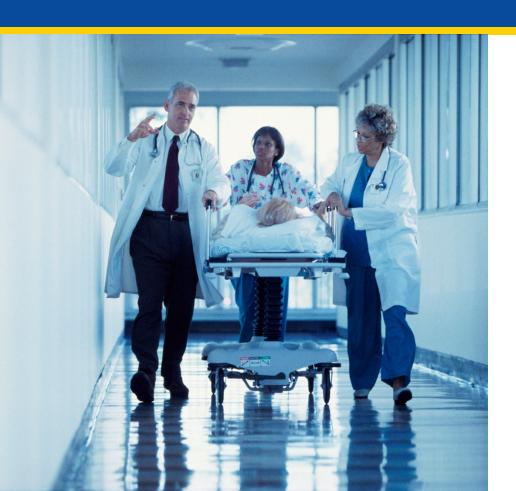




Quality Methodology



Center for Medicare and Medicaid Innovation (CMS Innovation Center)

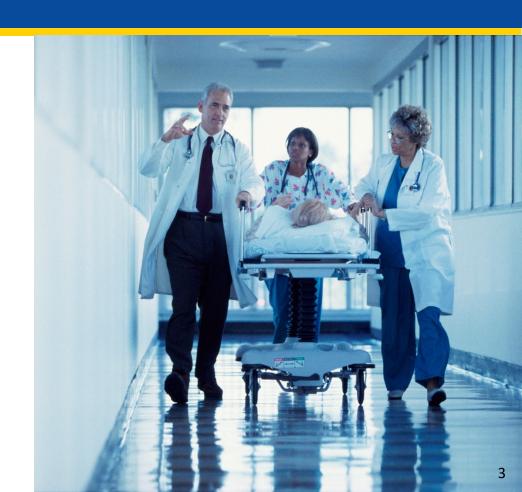
August 2018

Webcast Outline

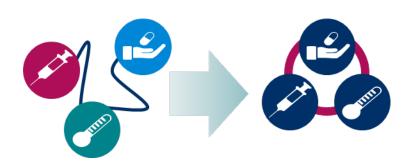
- BPCI Advanced Overview
- Quality Measurement
- Application of Quality Measures
- Summary



BPCI Advanced Overview



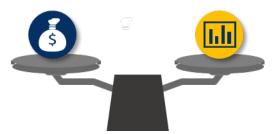
BPCI Advanced Tests a Different Payment Approach



Shifts emphasis from individual services towards a coordinated Clinical Episode



Establishes an "accountable party"



Clinical Episodes are assessed on the quality and cost of care

Why Bundled Clinical Episodes?

Promotes a patient-centered approach to care by:



Employing Clinical Episodes that are clinically intuitive, concrete, and actionable



Applying lessons learned from Bundled Payments for Care Improvement (BPCI) initiative



Providing important Advanced Alternative Payment Model (Advanced APM) and Merit-Based Incentive Payment System (MIPS) APM opportunities for specialty physicians

How is BPCI Advanced Different Than BPCI?



- Streamlined design
 - o One Model, all 90 day episodes
 - Single risk track
 - Payment is tied to performance on clinically relevant quality measures
 - Target Prices are largely set in advance



• Greater focus on physician engagement and learning



• Designated as an Advanced APM under the Quality Payment Program

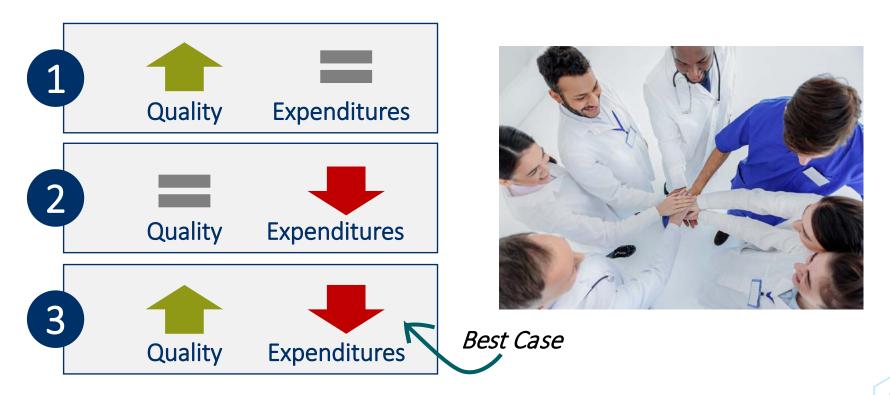


Quality Measurement



The CMS Innovation Center

The Innovation Center tests innovative payment and service delivery models that are intended to reduce expenditures while preserving or enhancing quality.



Premise of Value Value = Expenditures and Quality

- The Positive or Negative Total Reconciliation Amount will be adjusted based on quality performance
- The adjustment is limited to a maximum of 10% in 2018 and 2019



How Does the Quality Payment Program Benefit Clinicians and Patients?

Clinicians

- Streamlines reporting
- Standardizes measures (evidence-based)
- Eliminates duplicative reporting which allows clinicians to spend more time with patients
- Promotes industry
 alignment through multi payer models
- Incentivizes care that focuses on improved quality outcomes

Patients



- Increases access to better care
- Enhances coordination through a patientcentered approach
- Improves results

Quality Measures Correlation to Clinical Episodes Model Years 1 & 2

Quality Measure	Guidance	Applicable Clinical Episode Categories
All-cause Hospital Readmission Measure	NQF #1789 QPP #0458	All Inpatient and Outpatient Clinical Episodes
Advance Care Plan*	NQF #0326 QPP #047	All Inpatient and Outpatient Clinical Episodes
Hospital-Level Risk-Standardized Complication Rate (RSCR) Following Elective Primary Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty (TKA)	NQF #1550	 Double Joint Replacement of the Lower Extremity: MS-DRGs: 461, 462 Major Joint Replacement of the Lower Extremity: MS-DRGs: 469, 470
Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate (RSMR) Following Coronary Artery Bypass Graft Surgery (CABG)	NQF #2558	CABG: MS-DRGs: 231, 232, 233, 234, 235, 236
Excess Days in Acute Care after Hospitalization for Acute Myocardial Infarction (AMI)	NQF #2881	AMI: MS-DRGs: 280, 281, 282
CMS Patient Safety Indicators	NQF #0531	 All Inpatient and Outpatient Clinical Episodes Clinical Episodes The CMS PSI 90 will variably apply to individual clinical episodes. Performance on this measure is specific to the clinical episode. (Only included ones that are available)

^{*}NQF-endorsed at Physician level; others lacking asterisk are endorsed at the Hospital level.

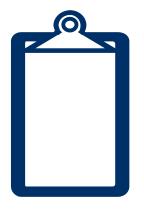
Quality Measures Correlation to Clinical Episodes Model Years 1 & 2

Quality Measure	Guidance	Applicable Clinical Episode Categories
		Back and Neck Except Spinal Fusion (Inpatient and Outpatient) ^[2] MS-DRGs: 518, 519, 520; HCPCS: 62287, 63005, 63011, 63012, 63017, 63030, 63040, 63042, 63045, 63046, 63047, 63056, 63075
	Cervical Spinal Fusion: MS-DRGs: 471, 472, 473	
	Combined Anterior Posterior Spinal Fusion: MS-DRGs: 453, 454, 455	
Perioperative	•	CABG: MS-DRGs: 231, 232, 233, 234, 235, 236
Care: Selection of Prophylactic Antibiotic: First or Second Generation Cephalosporin*	Double Joint Replacement of the Lower Extremity: MS-DRGs: 461, 462	
	Hip and Femur Procedures Except Major Joint: MS-DRGs: 480, 481, 482	
	Lower Extremity and Humerus Procedure Except Hip, Foot, Femur: MS-DRGs: 492, 493, 494	
	Major Bowel Procedure: MS-DRGs: 329, 330, 331	
	Major Joint Replacement of the Lower Extremity: MS-DRGs: 469, 470	
		Major Joint Replacement of the Upper Extremity: MS-DRG: 483
		Cardiac Valve: MS-DRGs: 216, 217, 218, 219, 220, 221, 266, 267

^{*}NQF-endorsed at Physician level; others lacking asterisk are endorsed at the Hospital level.

Quality Measures Submission

- The Five Inpatient Quality Reporting Measures will be calculated by CMS from Administrative Claims (#1789; #1550; #2558; #2881; #0531).
- The Perioperative Care (#0268) measure will be calculated from MIPS QCDR submission.
- The Advance Care Plan (#0326) will be calculated based on submitted claims, from ANY Physician or Advanced Practice Provider (regardless of BPCI Advanced participation) for the episode time period and nine months prior.
- Performance data is calculated based on Calendar Year data beginning with CY 2019.

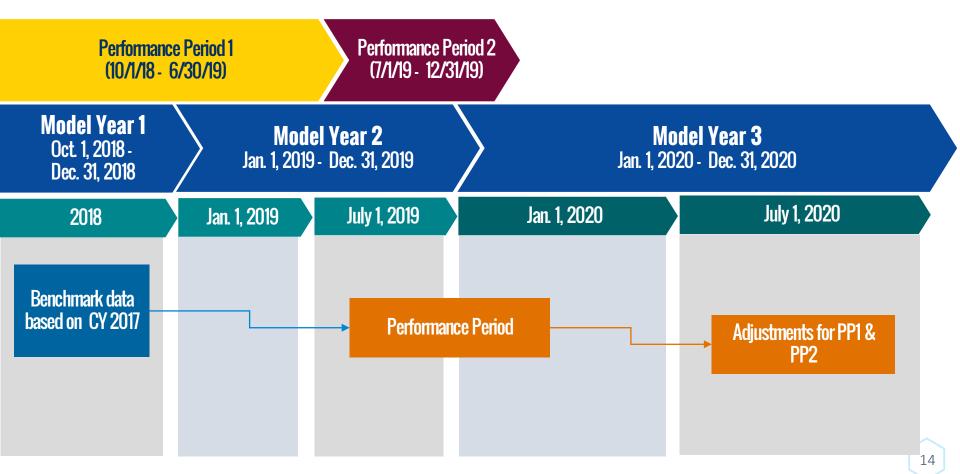






Quality Data Timeline

• The first two Performance Periods are a staggered approach where quality performance is accrued but not initially applied



Quality Measures: Model Years 3 – 6

Will include claims-based measures through 2020

Additional measures with varying reporting mechanisms may be added thereafter

CMS Plans to Refine Measures for Model Year 3 (2020)

The Innovation Center is working with clinicians to refine the quality measures aligned with the model.

Aspirational Goals:





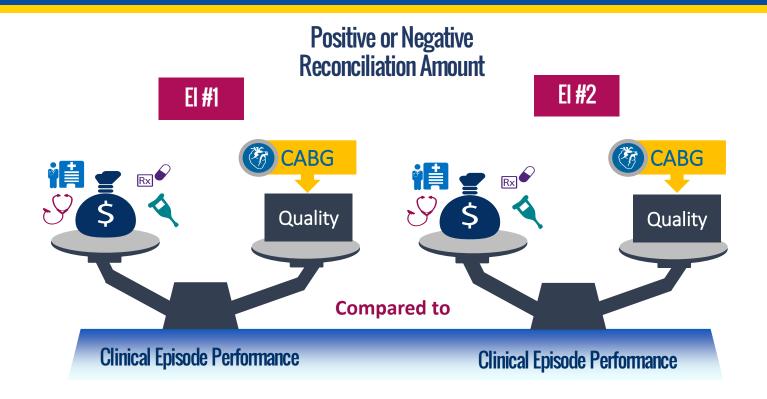
- Measures should be evidence based and have a clear relationship to quality;
- Measure sets should be timely, actionable, and should reflect care delivered within the model;
- Measure selection should minimize participant burden;
- Data are readily available for incorporation into the model.



Application of Quality Measures



Quality Measure Performance



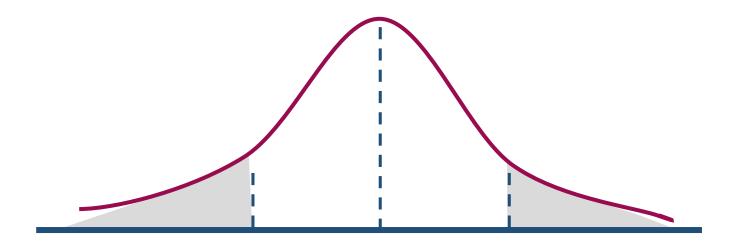
Clinician Tip



- Not all of the measures apply to all of the Clinical Episodes.
- Quality measure performance is only compared across the same clinical episodes.

Quality Measures Assessed by Clinical Episode

- Performance is relative to peers
- For each Quality Measure, raw data is converted into scaled scores using deciles



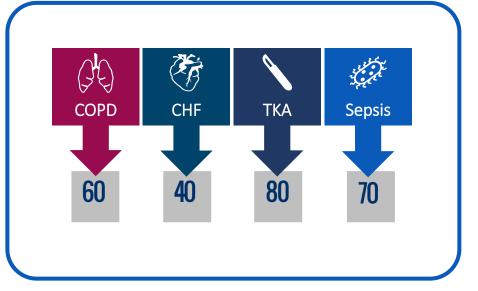
Clinical Episode Quality Scores are Combined into a Composite Quality Score (CQS)

Composite Quality Score is Calculated at the Episode Initiator Level

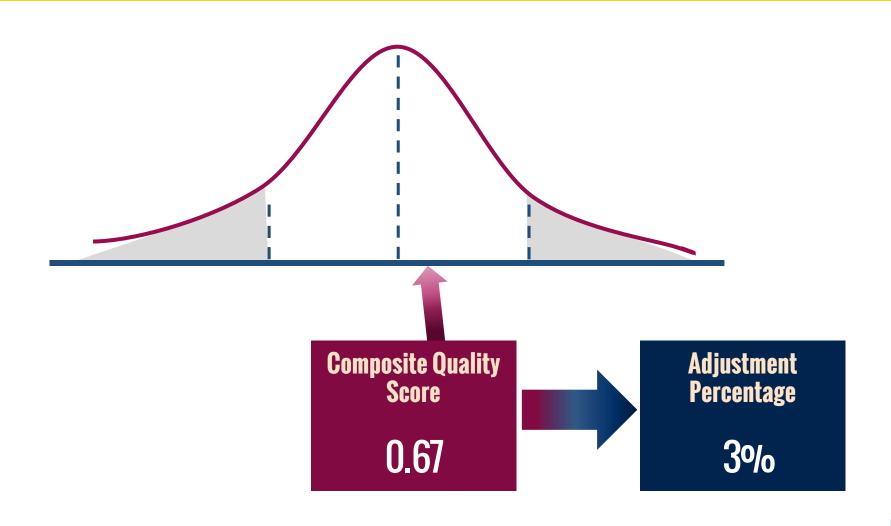
Episode Initiator (PGP/ACH)

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Quality Score is Calculated at the Clinical Episode Level



Composite Quality Score (CQS) Converted to CQS Adjustment Percentage





Application of Quality Measures





For each Quality Measure, convert raw data into scaled scores based on national cohort comparison by decile. Apply minimum observation rule to each measure for each Episode Initiator, replacing missing values with 50th percentile values



For each Quality Measure, convert raw data into scaled scores based on national cohort comparison by decile. Apply minimum observation rule to each measure for each Episode Initiator, replacing missing values with 50th percentile values

Step 2

Roll up scaled quality points into a quality score at the Clinical Episode level

Step 1

For each Quality Measure, convert raw data into scaled scores based on national cohort comparison by decile. Apply minimum observation rule to each measure for each Episode Initiator, replacing missing values with 50th percentile values

Step 2

Roll up scaled quality points into a quality score at the Clinical Episode level

Step 3

Roll up quality scores from individual Clinical Episodes into a Composite Quality Score at the Episode Initiator level

Step 1

For each Quality Measure, convert raw data into scaled scores based on national cohort comparison by decile. Apply minimum observation rule to each measure for each Episode Initiator, replacing missing values with 50th percentile values

Step 2

Roll up scaled quality points into a quality score at the Clinical Episode level

Step 3

Roll up quality scores from individual Clinical Episodes into a Composite Quality Score at the Episode Initiator level

Step 4

Assign each Episode Initiator a CQS Adjustment Amount

Payment Adjustment for Quality (Continued)

Step 5

For each Episode Initiator, multiply the Total Positive/Negative Reconciliation Amount by the corresponding CQS Adjustment Amount to find the Net Payment Reconciliation Amount or Repayment Amount for Non-Convener Participants.

Payment Adjustment for Quality (Continued)

Step 5

For each Episode Initiator, multiply the Total Positive/Negative Reconciliation Amount by the corresponding CQS Adjustment Amount to find the Net Payment Reconciliation Amount or Repayment Amount for Non-Convener Participants.

Step 6 For Convener Participants: Combine Net Payment Reconciliation Amounts or Repayment Amounts for Episode Initiators.

Payment Adjustment for Quality (Continued)

Step 5

For each Episode Initiator, multiply the Total Positive/Negative Reconciliation Amount by the corresponding CQS Adjustment Amount to find the Net Payment Reconciliation Amount or Repayment Amount for Non-Convener Participants.

Step 6 For Convener Participants: Combine Net Payment Reconciliation Amounts or Repayment Amounts for Episode Initiators.

Step 7 Finalize Net Payment Reconciliation Amount or Repayment Amount, notify Participant

Step 1: Scale Quality Scores by Decile

• For each Quality Measure, convert raw data into scaled scores based on national cohort comparison by decile.



Quality Measure	Actual Score	Percentile	Scaled Score
All Cause Readmission	20	48	50
Advanced Care plan	89	61	60
CMS Patient Safety Indicators	78	40	40
RSMR CABG	1.5	72	70
Perioperative Antibiotic	50	50	50

Step 2: Combine Scaled Quality Measure Scores into a Quality Score by Clinical Episode



Quality Measure	Scaled Score
All Cause Readmission	50
Advanced Care Plan	60
CMS Patient Safety Indicators	40
RSMR CABG	70
Perioperative Antibiotic	50

Quality Score 54

Scaled Quality Measure scores are combined for each Clinical Episode into a Quality Score

- Measures are weighted equally
- Quality Score is the mean of individual Quality Measure scores

Step 3: Individual Clinical Episode Quality Scores calculated as a Composite Quality Score

CORE Quality Measures

- 1. All Cause Readmission
- 2. Advanced Care Plan
- CMS Patient Safety Indicators

CE Specific Quality Measures

- 1. RSMR CABG
- Perioperative Antibiotic

EI #1: ACH



- All Cause Readmission
- 2. Advanced Care Plan
- 3. CMS Patient
 Safety
 Indicators



- All Cause
 Readmission
- 2. Advanced Care Plan
- 3. CMS Patient Safety Indicators
- 4. RSMR CABG
- 5. Perioperative Antibiotic

Step 3, Continued: Clinical Episode Quality Scores calculated as a Composite Quality Score



CHF

(n = 30)

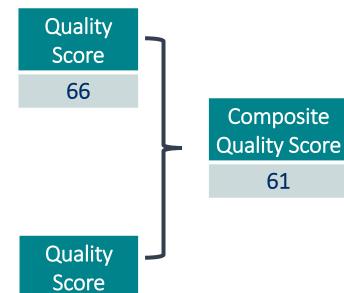
Quality Measure	Scaled Score
All Cause Readmission	40
Advanced Care plan	90
CMS Patient Safety Indicators	70



(n = 20)

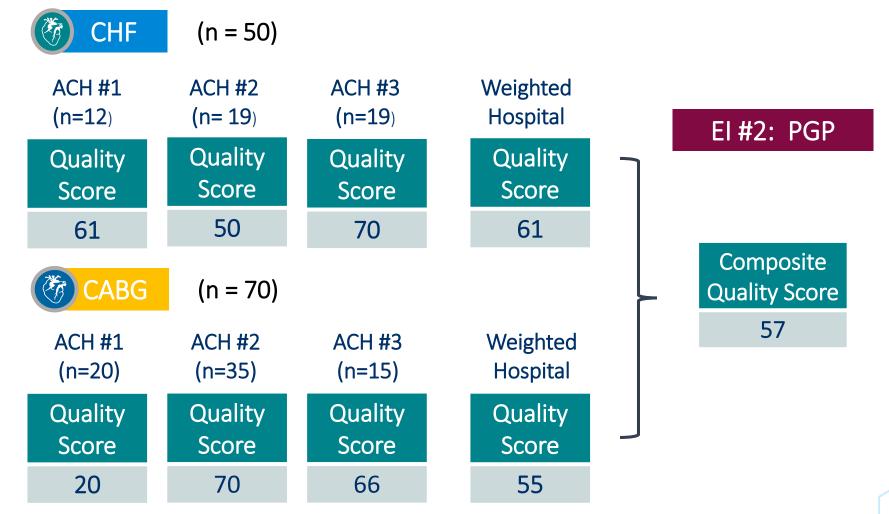
Quality Measure	Scaled Score	
All Cause Readmission	50	
Advanced Care plan	60	
CMS Patient Safety Indicators	40	
RSMR CABG	70	
Perioperative Antibiotic	50	



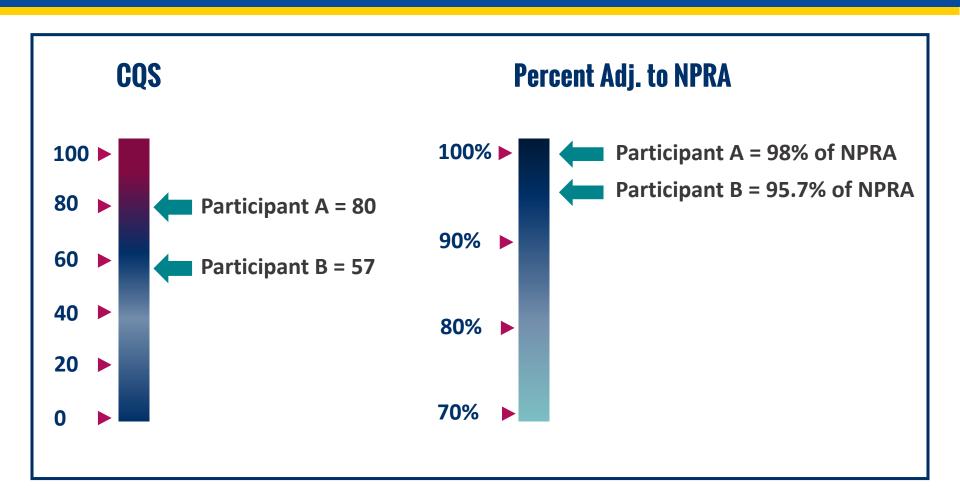


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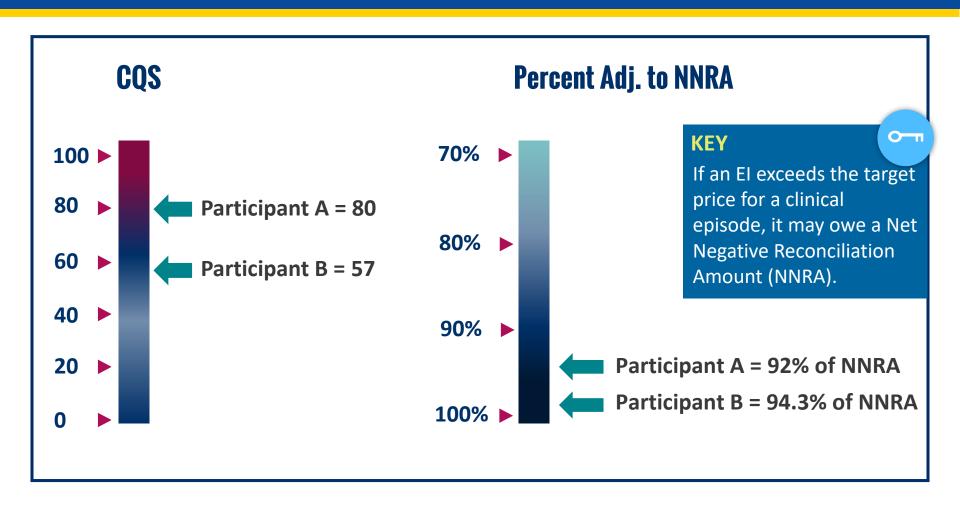
Step 3, Continued: Clinical Episode Quality Scores calculated as a Composite Quality Score



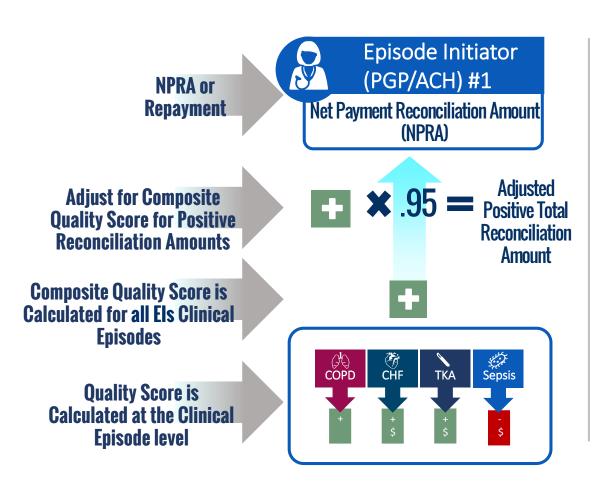
Step 4: Assign a CQS Adjustment Amount

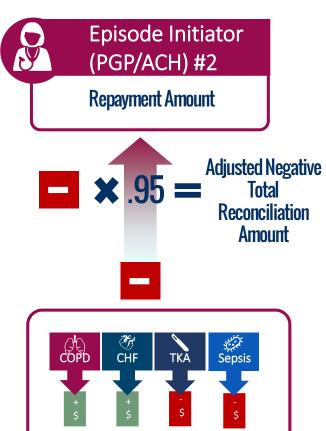


Step 4 Continued: Assign a CQS Adjustment Amount



Step 5: Quality Performance Adjustments for Non-Convener Participant (PGP or ACH)





Step 6: For Convener Participant, Combine Multiple Episode Initiators

CONVENER PARTICIPANT \$30K Net Payment Reconciliation Amount (NPRA) NPRA or Repayment **Adjusted Positive Total Adjusted Negative Total Adjust for Composite Quality Score Reconciliation Amount Reconciliation Amount** for Positive Reconciliation Amounts \$52K \$22K **Composite Quality Score is Calculated** for all Clinical Episodes Episode Initiator (PGP/ACH) #1 Episode Initiator (PGP/ACH) #2 CHF Ç^IÇ) COPD COPD CHF **Quality Score is Calculated at** the Clinical Episode level



Summary



Summary

- BPCI Advanced is a new voluntary Advanced APM and MIPS APM (beginning in 2019)
- Successful Participants (quality, expenditures) may receive additional payments in the form of NPRA
- All measures are derived from administrative claims for Model Years 1 & 2 (2018 & 2019)
- Future Model Years may include different measures drawn from multiple sources



Thank You

