



# VBP Impact Analysis FFY 2027 Program

3<sup>rd</sup> Quarter 2025 Data Update | Version 1

## Analysis Description

The Value-Based Purchasing (VBP) Impact Analysis is intended to provide hospitals with an estimate of the potential impact of the federal fiscal year (FFY) 2027 Medicare inpatient hospital VBP program. This analysis is based on publicly available quality data and program rules established by the Centers for Medicare and Medicaid Services (CMS).

The reports included in this analysis estimate VBP scores, impacts, scoring trends, and provide full details on how the points and scores for each VBP measure and domain are calculated.

A report that compares actual FFY 2025 and FFY 2026 program performance to estimated FFY 2027 program performance is also included. For the FFY 2025 VBP program, the performance period for COMP-HIP-KNEE measure is impacted by the extraordinary circumstances exception granted by CMS in response to the COVID-19 public health emergency, so no claims data or chart-abstracted data reflecting services provided January 1, 2020–June 30, 2020 will be used in the calculations for VBP.

Actual VBP program performance data for the FFY 2025 program is from the 4th quarter 2024 Care Compare update. Program performance data for FFY 2026 is limited to adjustment factors published by CMS in the FFY 2026 Inpatient Prospective Payment System (IPPS) Table 16-B, therefore domain and measure impacts are not calculated. Additional FFY 2026 program data is expected to be published in the 4th quarter 2025 Care Compare update.

For the FFY 2025 program, hospital performance for all measures, with the exception of the Mortality and Complications of the Hip and Knee measures, were evaluated during January 2019 - December 2019 and January 2023 - December 2023; the Mortality measures were evaluated during July 2015 - June 2018 and July 2020 - June 2023; the Complications of the Hip and Knee measure was evaluated during April 2015 - March 2018 and April 2020 - March 2023.

For the FFY 2026 program, hospital performance for all measures, with the exception of the Mortality and Complications of the Hip and Knee measures, were evaluated during January 2022 - December 2022 and January 2024 - December 2024; the Mortality measures were evaluated during July 2016 - June 2019 and July 2021 - June 2024; the Complications of the Hip and Knee measure was evaluated during April 2016 - March 2019 and July 2021 - March 2024.

Beginning with the FFY 2027 program, CMS will not score hospitals on the Staff Response or Care Transition dimensions of the HCAHPS survey.

The analysis of the FFY 2027 program does not use the actual data CMS will use to calculate final VBP scores and Medicare inpatient payment redistributions. This data will not be publicly available until on or around the date that the official program is implemented.

Estimated FFY 2027 VBP scores, FFY 2027 adjustment factors, and FFY 2027 dollar impacts in this analysis may differ slightly from analyses provided by other organizations due to differences in data source and analytic methods.

The Performance Scorecard tab includes reports that break down estimated impacts by domain and measure. Overall contribution amounts are distributed to each domain by weight. A hospital's VBP payment (contribution amount × slope × total performance score) is then distributed the same way. Estimated domain impacts are calculated by comparing the contribution amount and the VBP payment amount. Measure contribution amounts are determined by dividing the domain level contribution amounts by the number of scored measures in each domain. Measure VBP payments are then determined by taking this contribution value and multiplying by the measure score divided by ten to convert the score into a percentage. As with the domain level, impacts are then estimated by comparing the overall contribution amounts and VBP earnings. Please note that the impacts provided in this report are heavily dependent on the VBP slope, which is based on national performance levels. Although changes to measure VBP scores for FFY 2027 will affect these estimates, the relative size of the estimated impacts compared to the contribution amounts are dependent on the final slope determined for the VBP program.

The filters on the left panel on the Performance Scorecard can be used to select a program year for the measure impact graph and a domain for the measure impact graph and table below.

When a measure or domain is missing or blank, it represents that either no data is available, or the hospital does not meet case count requirements.

## Data Sources

To measure hospital performance, this analysis utilizes data provided by CMS on the Care Compare website at <https://www.medicare.gov/care-compare/>.

In general, historical data from Care Compare are used for the VBP baseline periods and the most recent data from Care Compare are used for the VBP performance periods. In some cases, the data periods analyzed between this analysis and the actual program match; in others, the best available proxy is used.

The FFY 2027 VBP program will assess hospital performance using measures grouped into four domains:

- Person and Community Engagement
- Clinical Outcomes
- Safety
- Efficiency and Cost Reduction

The table below describes, by measure and by domain, the time periods analyzed in this analysis compared to the exact time periods that will be evaluated under the actual FFY 2027 program.

**This Analysis Compared to the Actual VBP Program**

FFY 2027 Program

■ Baseline Period Quality Data  
■ Performance Period Quality Data

	2017	2018	2019	2020	2021	2022	2023	2024	2025
This Analysis							Person and Community Engagement and Safety	Person and Community Engagement and Safety	
		Mortality Measures*		Excluded#		Mortality Measures			
		THA/TKA		Excluded#					
		THA/TKA		Excluded#					
						Efficiency			
						Efficiency			
Actual Program							Person and Community Engagement, Safety, and Efficiency		Person and Community Engagement, Safety, and Efficiency
		Mortality Measures		Excluded#		Mortality Measures			
		THA/TKA		Excluded#		THA/TKA			

#These periods are impacted by the extraordinary circumstances exception granted by CMS in response to the public health emergency so no claims data or chart-abstracted data reflecting services provided January 1, 2020 - June 30, 2020 will be used in calculations for the VBP Program.

\*The Care Compare update for these measures includes an end date of 12/31/2019.

The Care Compare quarterly releases that correspond with the measure collection periods described in the above table are as follows:

- Baseline Periods:
  - 2<sup>nd</sup> quarter 2021 update: Clinical Outcomes
  - 4<sup>th</sup> quarter 2022 update: Efficiency
  - 3<sup>rd</sup> quarter 2024 update: Person and Community Engagement; Safety
- Performance Periods:
  - 2<sup>nd</sup> quarter 2022 update: Hospital-Level Total Hip Arthroplasty/Total Knee Arthroplasty (THA/TKA)
  - 4<sup>th</sup> quarter 2022 update: Efficiency
  - 2<sup>nd</sup> quarter 2025 update: Mortality
  - 3<sup>rd</sup> quarter 2025 update: Person and Community Engagement and Safety

The national performance standards and periods that will be used to evaluate hospital performance were finalized by CMS in the IPPS FFY 2025 final rule pages 69404–69407 at <https://www.govinfo.gov/content/pkg/FR-2024-08-28/pdf/2024-17021.pdf>

The national performance standards for the Medicare Spending per Beneficiary (MSPB) measure are calculated based on hospital performance scores during the performance period analyzed. CMS will establish the official FFY 2027 national performance standards for this measure based on data from the actual performance period. The actual national performance standards for this measure will differ from the standards estimated in this analysis.

The THA/TKA measure updated with 2<sup>nd</sup> quarter 2023 and 2<sup>nd</sup> quarter 2024 Care Compare uses the modified methodology adopted in the FFY 2024 IPPS final rule. This methodology will not be used for VBP until the FFY 2030 program, and therefore an older update of THA/TKA is used in this analysis.

The MSPB measure updated with 4<sup>th</sup> quarter 2023 and 4<sup>th</sup> quarter 2024 Care Compare uses the modified methodology adopted in the FFY 2024 IPPS final rule. This methodology will not be used for VBP until the FFY 2028 program, and therefore an older update of MSPB is used in this analysis.

Hospitals are only eligible for the VBP program if they are currently eligible for, and adequately participate in, the Inpatient Quality Reporting program.

Estimated VBP program contributions and payouts for FFY 2025 and FFY 2026 are based on Medicare inpatient operating payments calculated from hospital payment data provided by CMS in the FFY 2025 IPPS interim final rule and FFY 2026 IPPS final rule impact files, respectively. FFY 2027 payment data are calculated by applying factors to the estimated FFY 2026 IPPS payments based on the FFY 2026 IPPS Final Rule.

By law, the VBP program only impacts area wage adjusted operating inpatient payments and does not apply to capital, outlier, indirect medical education, disproportionate share hospital, or Readmissions Reduction Program adjustments. Sole Community Hospitals contribute to the VBP program based on their federal rate calculation, regardless of whether they are actually paid based on a hospital-specific rate. Medicare Dependent Hospitals contribute to the VBP Program based on the blended rate if they are eligible to be paid at that rate; otherwise, the contribution is based on their federal rate calculation.

VBP trends and ranks for the FFY 2027 program year are based on hospital performance from the current and historical Care Compare updates. The trending of current estimates is intended to show how estimated VBP scores for each domain and the VBP total performance score (TPS) change over time as well as how those scores compare to hospitals in the state and the nation. A hospital with VBP scores that are not improving at a rate comparable to or better than those of the nation may have scores that are improving but lose ground overall under the program.

## VBP Scoring and Impact Estimates

This analysis uses CMS-defined formulas for calculating VBP points for each measure under each domain. CMS has established the following formulas to calculate VBP points:

$$\text{Achievement Points (all program measures)} = 9 \times \left[ \frac{\text{Performance Period Score} - \text{Achievement Threshold}}{\text{Benchmark} - \text{Achievement Threshold}} \right] + 0.5$$

$$\text{Improvement Points (all program measures)} = 10 \times \left[ \frac{\text{Performance Period Score} - \text{Achievement Threshold}}{\text{Benchmark} - \text{Achievement Threshold}} \right] - 0.5$$

$$\text{Final Points (all program measures)} = \text{Higher of Achievement and Improvement}$$

$$\text{Final Points (SSI measure)} = \left[ \frac{\text{Final Point}_{\text{HAI3}} \times \text{Predicted Infection}_{\text{HAI3}} + \text{Final Points}_{\text{HAI4}} \times \text{Predicted Infection}_{\text{HAI4}}}{\text{Predicted Infection}_{\text{HAI3}} + \text{Predicted Infection}_{\text{HAI4}}} \right]$$

$$\text{Consistency Points (person and comm. engagement)} = [20 \times \text{Lowest Measure Consistency Points Multiplier}] - 0.5$$

$$\text{Consistency Points Multiplier (person and comm. engagement)} = \left[ \frac{\text{Performance Period Score} - \text{Floor}}{\text{Achievement Threshold} - \text{Floor}} \right]$$

The following describes the minimum requirements for measure scoring (other exclusionary criteria apply):

- Person and Community Engagement — 100 surveys
- Clinical Outcomes — 25 cases
- Safety — one predicted infection
- Efficiency and Cost Reduction — 25 cases.

The filter on the left side of the Score Calculation tab can be used to select a domain in which to view the calculation of measure and domain scores.

Case counts in this analysis are adjusted where possible to reflect the shortened performance period due to the COVID-19 pandemic.

If a hospital has insufficient data in the performance period, the measure is not scored. If a hospital has insufficient data in the baseline period, but usable data for the performance period, only the hospital's achievement points may be scored (no improvement points). The various reports in this analysis state when the necessary data to calculate VBP points are lacking.

The Affordable Care Act requires the VBP program to be calculated as budget neutral, such that all funds contributed to the program by hospitals are paid out during the same period. As previously discussed, the VBP program is funded with 2.0% of hospitals' Medicare IPPS area wage adjusted operating dollars.

For each hospital, once the final points are calculated for each individual measure, overall domain scores are then calculated for each of the program's domains (person and community engagement, safety, clinical outcomes, and efficiency). The overall domain scores are then combined to calculate a TPS for each hospital. The TPS serves as the basis for determining hospitals' VBP payments (or gain/loss) under the program. CMS is required to assign weights to each domain when calculating the TPS.

The following describes how overall domain scores will be calculated and how domains will be weighted to calculate each hospital's TPS for the FFY 2027 program:

- Calculating Overall Domain Scores (all domains): For each domain, the overall domain score is the sum of the final points earned for the domain divided by the maximum possible points for all useable measures in the domain. Hospitals must have a minimum of 100 HCAHPS surveys to obtain a Person and Community Engagement Domain score; two useable measures to obtain a Clinical Outcomes Domain score; two useable measures to obtain a Safety Domain score; and one useable measure to obtain an Efficiency and Cost Reduction Domain score.
- Domain Weighting and Calculating a TPS: The following weights will be applied to each domain to estimate each hospital's TPS under the FFY 2027 program:
  - Person and Community Engagement: 25%
  - Clinical Outcomes: 25%
  - Safety: 25%
  - Efficiency and Cost Reduction: 25%

Hospitals only need domain scores in three out of the four domains to be included in the program, and the TPS will be reweighted proportionately to the scored domains.

$$\text{Rewighted Domain Weight} = \text{Original Domain Weight} \times \frac{1}{\text{Sum of Remaining Domain Weights}}$$

Once a TPS is calculated, CMS applies a linear payment exchange function to redistribute inpatient payments based on each hospital's performance under the VBP program. The linear exchange function is the formula for a line that will start at 0% payment for a TPS of 0% and will end at some percentage (x%) for a TPS of 100%. The x% is based on the slope of the line and will be determined using the national distribution of TPSs, such that the sum of all hospitals' VBP payments will equal the amount of dollars contributed to the program.

The filter on the bottom left of the Performance Scorecard can be used to select a program year to view the linear exchange function graph.

For FFY 2027, each hospital's VBP payment percentage will equal its TPS multiplied by 3.5123 (under the linear exchange payment function, this is the calculated slope of the line using the most currently available data that will redistribute all VBP contributions based on hospital performance under the VBP program). The estimated slope is expected to decrease over time. Traditionally, hospital performance improves as more recent data becomes available and more time elapses between the data used for the baseline period and the performance period.

# VBP Program Analysis – Data Dictionary

Version 1

## Measure Score Calculation

$$\text{Adjusted Cases} = \text{Measure Casex} \times \frac{\text{Number of Months in Proxy Data Period}}{\text{Number of Months in Actual Data Period}}$$

$$\text{Consistency Points Multiplier (person and comm. engagement)} = \left[ \frac{\text{Performance Period Score} - \text{Floor}}{\text{Achievement Threshold} - \text{Floor}} \right]$$

$$\text{Consistency Points (person and comm. engagement)} = [20 \times \text{Lowest Measure Consistency Points Multiplier}] - 0.5$$

$$\text{Achievement Points (all program measures)} = 9 \times \left[ \frac{\text{Performance Period Score} - \text{Achievement Threshold}}{\text{Benchmark} - \text{Achievement Threshold}} \right] + 0.5$$

$$\text{Improvement Points (all program measures)} = 10 \times \left[ \frac{\text{Performance Period Score} - \text{Achievement Threshold}}{\text{Benchmark} - \text{Achievement Threshold}} \right] - 0.5$$

$$\text{Final Points (SSI measure)} = \left[ \frac{\text{Final Point}_{\text{HAI3}} \times \text{Predicted Infection}_{\text{HAI3}} + \text{Final Points}_{\text{HAI4}} \times \text{Predicted Infection}_{\text{HAI4}}}{\text{Predicted Infection}_{\text{HAI3}} + \text{Predicted Infection}_{\text{HAI4}}} \right]$$

Final Points = Higher of Achievement or Improvement Points

## Domain Score Calculation

$$\text{Domain Score} = \frac{\sum \text{Final Points Earned}}{\text{Maximum Points Possible}}$$

$$\text{Reweighted Domain Weight} = \frac{\text{Original Domain Weight}}{\sum \text{Scored Domain Weights}}$$

Weighted Domain Score = Unweighted Domain Score x Reweighted Domain Weight

## Estimated Impacts

Estimated Base Operating Revenue = Most recent estimated total revenue adjusted by an update factor as needed

Contribution = Estimated Base Operating Revenue x 2.0%

$$\text{TPS} = \sum (\text{Unweighted Domain Score} \times \text{Reweighted Domain Weight})$$

Pre-Slope Payment = Contribution x TPS

$$\text{Slope} = \frac{\sum \text{Eligible Hospitals Contributions}}{\sum \text{Eligible Hospitals Pre-Slope Payment}}$$

$$\text{VBP Payment Percentage} = \text{TPS} \times \text{Slope}$$

$$\text{VBP Payment} = \text{Contribution} \times \text{VBP Payment Percentage}$$

$$\text{Adjustment Factor} = 1 + [(2.0\% \times \text{VBP Payment Percentage}) - 2.0\%]$$

$$\text{Impact Percentage} = (2.0\% \times \text{VBP Payment Percentage}) - 2.0\%$$

$$\text{VBP Impact} = \text{VBP Contribution} - \text{VBP Payment}$$

### Other

$$\text{Measure Impact} = \frac{\left( \text{Contribution} \times \text{Slope} \times \text{Reweighted Domain Weight} \times \frac{\text{Final Points}}{10} \right) - \left( \text{Contribution} \times \text{Reweighted Domain Weight} \right)}{\text{Count of Scored Measures in Domain}}$$

$$\text{Domain Impact} = \left( \text{Contribution} \times \text{Unweighted Domain Score} \times \text{Reweighted Domain Weight} \times \text{Slope} \right) - \left( \text{Contribution} \times \text{Reweighted Domain Weight} \right)$$