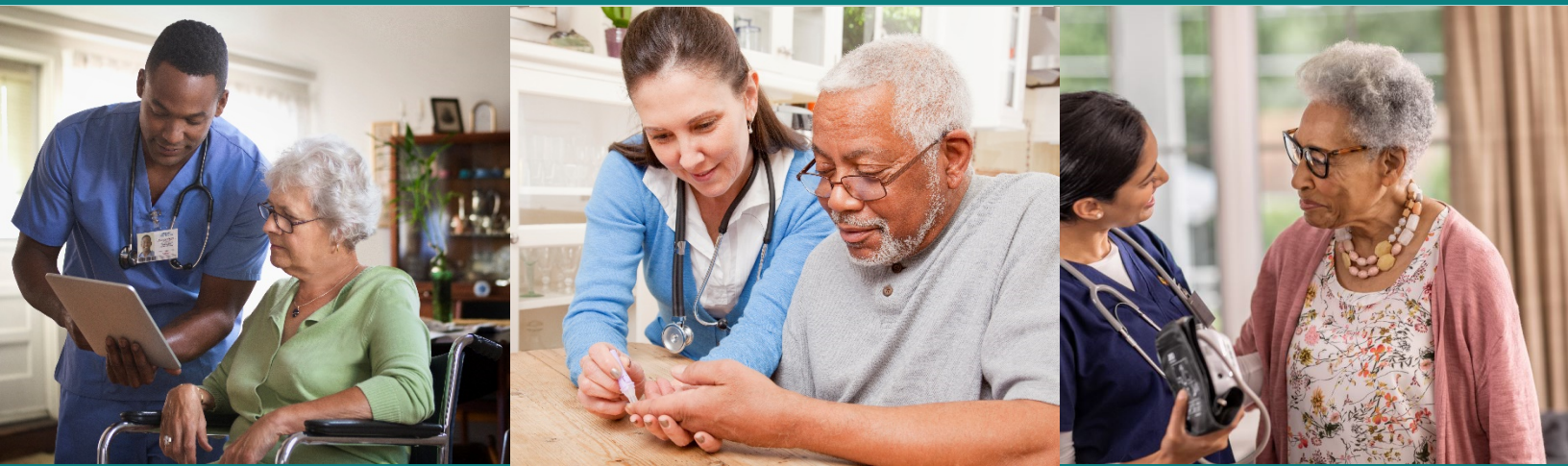


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EXPANDED HOME HEALTH VALUE-BASED PURCHASING (HHVBP) MODEL

# How Care Points Become the Total Performance Score (TPS)



August 2022

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## Introduction

Beginning January 1, 2022, the Centers for Medicare & Medicaid Services (CMS) launched the expanded [Home Health Value-Based Purchasing \(HHVBP\) Model](#). The expanded HHVBP Model incentivizes all competing Medicare-certified home health agencies (HHAs) receiving payment from CMS in the 50 states, District of Columbia, and U.S. territories to provide higher-quality and more efficient care within the Medicare Home Health Prospective Payment System (HH PPS).

In the expanded HHVBP Model, performance is measured through the Total Performance Score (TPS). The TPS is a numeric score ranging from zero (0) to 100, awarded to each competing HHA based on the weighted “care points”<sup>1</sup> earned on the quality measures for which sufficient data are available for the HHA.<sup>2</sup> CMS provides HHAs with their TPS through performance feedback reports (i.e., Interim Performance Reports (IPRs), Annual Performance Reports (APRs)). Payment adjustment amounts under the expanded HHVBP Model are based on each HHA’s TPS.

**Total Performance Score (TPS)** is the numeric score awarded to each qualifying HHA based on the weighted sum of the performance scores for each applicable measure. CMS determines the TPS by weighting and summing the higher of that HHA’s achievement or improvement score for each applicable measure. A qualifying HHA will receive a numeric score ranging from zero (0) to 100.

This resource reviews the steps used for TPS calculation. It is the second of three (3) resources in a series that focuses on methods for care points, total performance scoring, and payment adjustment. The resources in this series include:

1. *“How Measure Performance Becomes Care Points”* – on-demand video
2. *“How Care Points Become the Total Performance Score (TPS)”* – on-demand video and this written resource
3. *“How the Total Performance Score (TPS) Becomes the Final Payment Adjustment”* – on-demand video and written resource

These resources are available on the [Expanded HHVBP Model webpage](#).

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<sup>1</sup> Care points are the higher of achievement points or improvement points for each measure on the Interim Performance Report (IPR) and Annual Performance Report (APR).

<sup>2</sup> For details on quality measures, care points calculation, cohort definitions, performance reports, and other expanded HHVBP Model terms, see the [Expanded HHVBP Model webpage](#).

## Overview

The calculation of TPS is based on care points, HHA cohort assignment, and expanded HHVBP Model quality measure weights. The TPS, in addition to the factors used in calculation, are reported to HHAs in quarterly IPRs and APRs.

TPS calculations use care points for up to 12 quality measures. If an HHA does not have sufficient data to generate care points for at least five (5) of the 12 measures, a TPS will not be calculated. These HHAs will still receive IPRs and are eligible to compete for payment adjustments in the future.

The steps used for TPS calculation are:

1. Apply measure weights to produce weighted measure points for each applicable measure.
2. Sum weighted measure points to calculate the TPS.

These steps are presented in detail below.

## Total Performance Score (TPS) Calculation

### STEP 1. APPLY MEASURE WEIGHTS TO PRODUCE WEIGHTED MEASURE POINTS

Measure weights are specific to each quality measure category and to individual measures within a category. Measure weights are redistributed proportionally when one or more categories of measures or measures within a category are not applicable (e.g., due to having insufficient data to report a measure or measure category).<sup>3</sup> **Exhibit 1** provides a measure weight table used under various measure reporting scenarios. The columns indicate the following scenarios for availability of applicable measures:

- All measure categories (all measures)
- OASIS-based and claims-based measures only (no HHCAHPS)
- OASIS-based and HHCAHPS survey-based measures only (no claims)
- OASIS-based measures only (neither claims nor HHCAHPS)

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<sup>3</sup> For more information on data required to calculate the TPS, see the “Frequently Asked Questions (FAQs)” and the “Expanded HHVBP Model Guide” available on the [Expanded HHVBP Model webpage](#).

**Exhibit 1. Measure Weighting and Re-Weighting for the Expanded HHVBP Model**

Measure Category	Quality Measures	Measure Reporting Scenarios			
		All Measures	No HHAHPS	No Claims	No Claims or HHAHPS
OASIS-based Measures	Discharged to Community	5.83	8.33	8.97	16.67
	Improvement in Dyspnea	5.83	8.33	8.97	16.67
	Improvement in Management of Oral Medications	5.83	8.33	8.97	16.67
	Total Normalized Composite (TNC) Change in Mobility	8.75	12.50	13.46	25.00
	Total Normalized Composite (TNC) Change in Self-Care	8.75	12.50	13.46	25.00
	<b>Total for OASIS-based Measures</b>	<b>35.00</b>	<b>50.00</b>	<b>53.85</b>	<b>100.00</b>
Claims-based Measures	Acute Care Hospitalizations	26.25	37.50	0.00	0.00
	Emergency Department Use Without Hospitalization	8.75	12.50	0.00	0.00
	<b>Total for Claims-based Measures</b>	<b>35.00</b>	<b>50.00</b>	<b>0.00</b>	<b>0.00</b>
HHAHPS Survey-based Measure Components	Care of Patients	6.00	0.00	9.23	0.00
	Communications Between Providers and Patients	6.00	0.00	9.23	0.00
	Specific Care Issues	6.00	0.00	9.23	0.00
	Overall Rating of Home Health Care	6.00	0.00	9.23	0.00
	Willingness to Recommend the Agency	6.00	0.00	9.23	0.00
	<b>Total for HHAHPS Survey-based Measure Components</b>	<b>30.00</b>	<b>0.00</b>	<b>46.15</b>	<b>0.00</b>
<b>Total for all Measure Categories</b>		<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

**WEIGHTED MEASURE POINTS – APPLIES TO ALL REPORTED MEASURES AND REPORTING SCENARIOS**

For each competing HHA, and for each applicable measure, measure weights are applied using the following formula:

$$\left( \frac{\text{Care Points}}{\text{Maximum Possible Care Points}} \right) \times \text{Measure Weight} = \text{Weighted Measure Points}$$

10 is the maximum possible number of care points for all measures in the expanded HHVBP Model.

**REVISED MEASURE WEIGHT (RMW) – APPLIES ONLY WHEN SOME MEASURES WITHIN A CATEGORY ARE NOT REPORTED**

If one (1) or more (but not all) measures within a category are not reported due to having insufficient data, the following formula is applied to calculate a revised measure weight (RMW). RMWs are displayed as measure weights in performance reports and treated as measure weights in all calculations. In all cases where a TPS is calculated, measure weights across all categories sum to 100.

$$\text{Original Measure Weight} \times \frac{\text{Sum of All Measure Weights within the Category}}{\text{Sum of Measure Weights for Reported Measures within the Category}} = \text{RMW}$$

Below is an illustrative example for calculating the RMW.

EXAMPLE: If an HHA had applicable measures in all categories but had insufficient data to report the Improvement in Dyspnea and TNC Self-Care measures, there will be a revision made to the measure weights for the other measures in the OASIS-based Measure category.

- Because the HHA has applicable measures in all measure categories, the measures weights found in the *All Measures* column of Exhibit 1 will apply to this example.
  - From this column, the original measure weights for the reported OASIS-based measures for which the HHA does have sufficient data are:
    - Discharge to Community: **5.83**
    - Improvement in Management of Oral Medications: **5.83**
    - TNC Change in Mobility: **8.75**
- The sum of these Measure Weights is: **20.41**
- From the same column, the sum of all measure weights within the OASIS-based Measure category is **35.00**
  - To calculate the RMW for each measure with insufficient data, apply the RMW formula above.
    - RMW Discharge to Community:  $5.83 \times (35.00/20.41) = \mathbf{10.00}$
    - RMW Improvement in Management of Oral Medications:  $5.83 \times (35.00/20.41) = \mathbf{10.00}$
    - RMW TNC Change in Mobility:  $8.75 \times (35.00/20.41) = \mathbf{15.00}$

*Note: The sum of the RMWs equals the sum of all measure weights for the OASIS-based Measure category.*

## STEP 2. SUM WEIGHTED MEASURE POINTS TO PRODUCE TPS

Each HHA with at least five (5) and up to 12 applicable measures is assigned a TPS, which is the sum of the HHA's weighted measure:

$$\text{Sum of Weighted Measure Points} = \text{TPS}$$

Below is an illustrative example for calculating the TPS.

This example is taken from the Measure Scorecard tab of a sample APR. Weighted measure points for the 12 quality measures are shown in the *Your HHA's Weighted Measure Points* column.

Measure Scorecard				
Measure	Your HHA's Care Points	Maximum Possible Points	Measure Weight [a]	Your HHA's Weighted Measure Points [b]
<b>OASIS-based Measures</b>				
Discharged to Community	6.561	10.000	5.833	3.827
Improvement in Dyspnea	4.373	10.000	5.833	2.551
Improvement in Management of Oral Medications	4.037	10.000	5.833	2.355
Total Normalized Composite (TNC) Change in Mobility	6.214	10.000	8.750	5.437
Total Normalized Composite (TNC) Change in Self-Care	5.977	10.000	8.750	5.230
<b>Sum of OASIS-based Measures</b>	<b>27.162</b>	<b>50.000</b>	<b>35.000</b>	<b>19.400</b>
<b>Claims-based Measures</b>				
Acute Care Hospitalizations	1.251	10.000	26.250	3.284
Emergency Department Use Without Hospitalization	0.000	10.000	8.750	0.000
<b>Sum of Claims-based Measures</b>	<b>1.251</b>	<b>20.000</b>	<b>35.000</b>	<b>3.284</b>
<b>HHCAHPS Survey-based Measure Components</b>				
Care of Patients	0.000	10.000	6.000	0.000
Communications Between Providers and Patients	1.192	10.000	6.000	0.715
Specific Care Issues	0.000	10.000	6.000	0.000
Overall Rating of Home Health Care	0.000	10.000	6.000	0.000
Willingness to Recommend the Agency	0.020	10.000	6.000	0.012
<b>Sum of HHCAHPS Survey-based Measure Components</b>	<b>1.212</b>	<b>50.000</b>	<b>30.000</b>	<b>0.727</b>
<b>Sum of All Measures</b>	<b>29.625</b>	<b>120.000</b>	<b>100.000</b>	<b>23.411</b>

The footnote [b] describes the calculation of the weighted measure points: Your HHA's Weighted Measure Points are calculated by dividing Your HHA's Care Points by the Maximum Possible Points and multiplying by the Measure Weight. The totals for each measure category are computed by summing across the individual measures within the measure category.

The sum of the 12 quality measures (23.411) is shown in the last row of the *Your HHA's Weighted Measure Points* column; this sum is the TPS.

Each competing HHA will receive their HHA-specific care points, weighted measure points, and TPS, in addition to descriptive statistics for the respective cohort, on the expanded HHVBP Model performance feedback reports (i.e., IPR and APR).

For questions about the content of the expanded HHVBP Model IPR and APR, email the HHVBP Help Desk at [HHVBPquestions@lewin.com](mailto:HHVBPquestions@lewin.com).