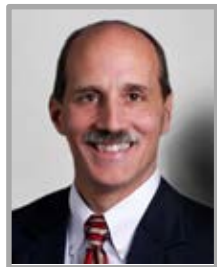




HHVBP and Star Ratings: Updates and Trends









Chris Attaya

VP of Product Strategy

Home Care Alliance of MA

HHVBP and Star Ratings

- Value Based Measures
- Used in decisions by referrers, payers and patients
- Scoring based on Triple Aim
 - Patient Outcomes
 - Patient Satisfaction
 - Cost of Care
- Measures overlap

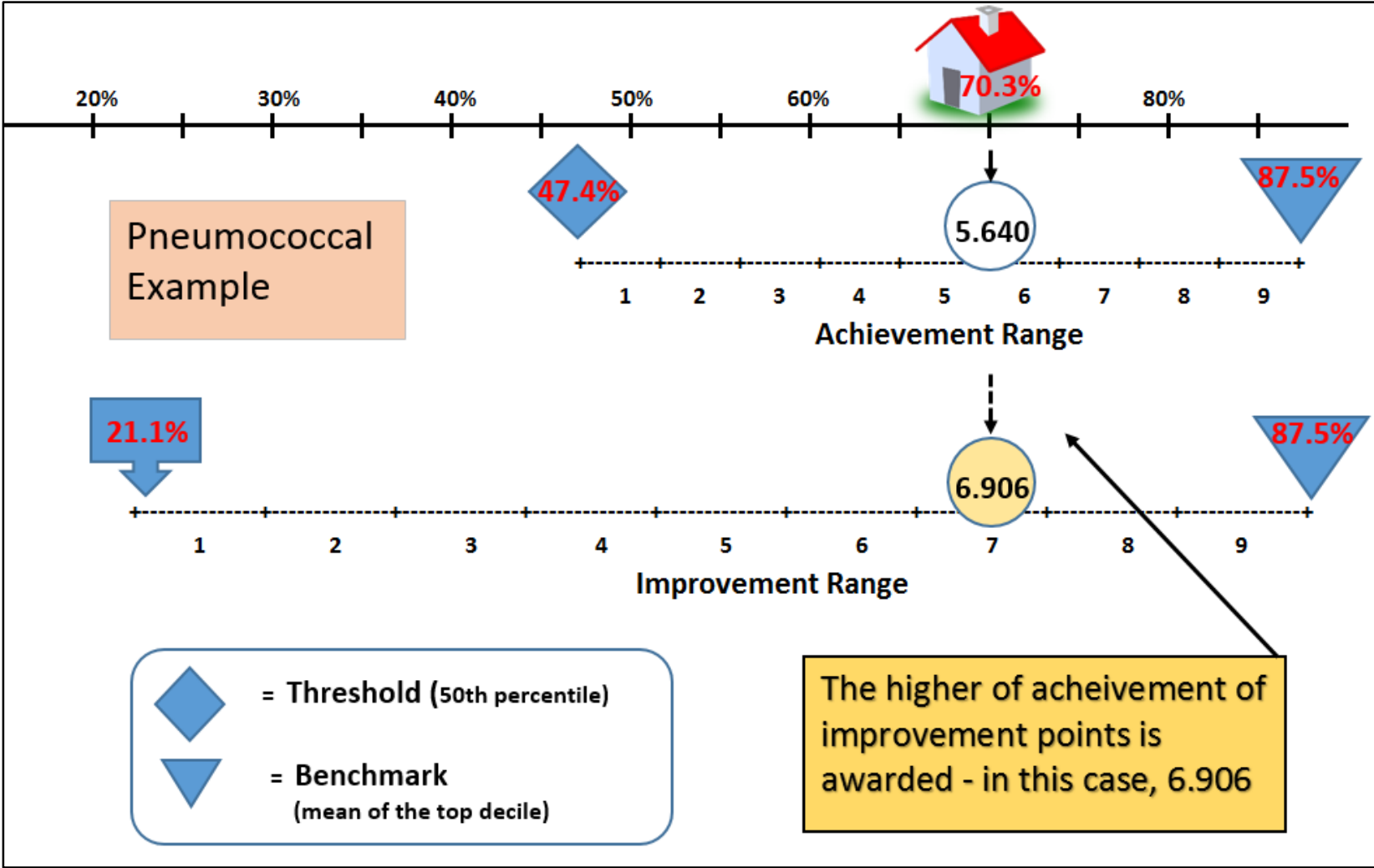
Outcome Measures	Home Health Compare	HHVBP	Star Rating
Improvement: Ambulation	✓	✓ Proposed to eliminate	
Improvement: Bed Transferring	✓	✓ Proposed to eliminate	
Improvement: Bathing	✓	✓ Proposed to eliminate	
Improvement: Management Oral Meds	✓	✓	Proposed to add 
Improvement: Pain	✓	✓	
Improvement: Dyspnea	✓	✓	
60-Day ACH Rate	✓	✓	
60-Day ED Use	✓	✓	
Discharged to Community (OASIS)	Claims-based coming	✓	

Process and HHCAHPS Measures	Home Health Compare	HHVBP	Star Rating
Flu Vaccine	✓ Proposed to eliminate	✓ Proposed to eliminate	Ended Jan 2018
Pneumococcal Vaccine	✓ Proposed to eliminate	✓ Proposed to eliminate	
Drug Education	✓	First and Second Years Only	★ Proposed to eliminate
Timely Initiation of Care	✓		★
HHCAHPS: Communication	✓	✓	★
HHCAHPS: Care of Patients	✓	✓	★
HHCAHPS: Specific Care Issues	✓	✓	★
HHCAHPS: Overall rating	✓	✓	★
HHCAHPS: Recommend	✓	✓	

HHVBP

- 5 year pilot starting with Performance Year in 2016
- Bonus or penalty up to 3% first year then - 5%, 6%, 7%, 8%
- Baseline Year of 2015 used for calculating the median (achievement threshold) and mean of top decile (benchmark)
- Baseline scores are state specific
- For CY 2016/2017 - 17 OASIS/Claims/HHCAHPS measures used along with 3 New Measures
- Up to 10 Points for Achievement and Improvement for each measure – get the higher of the two

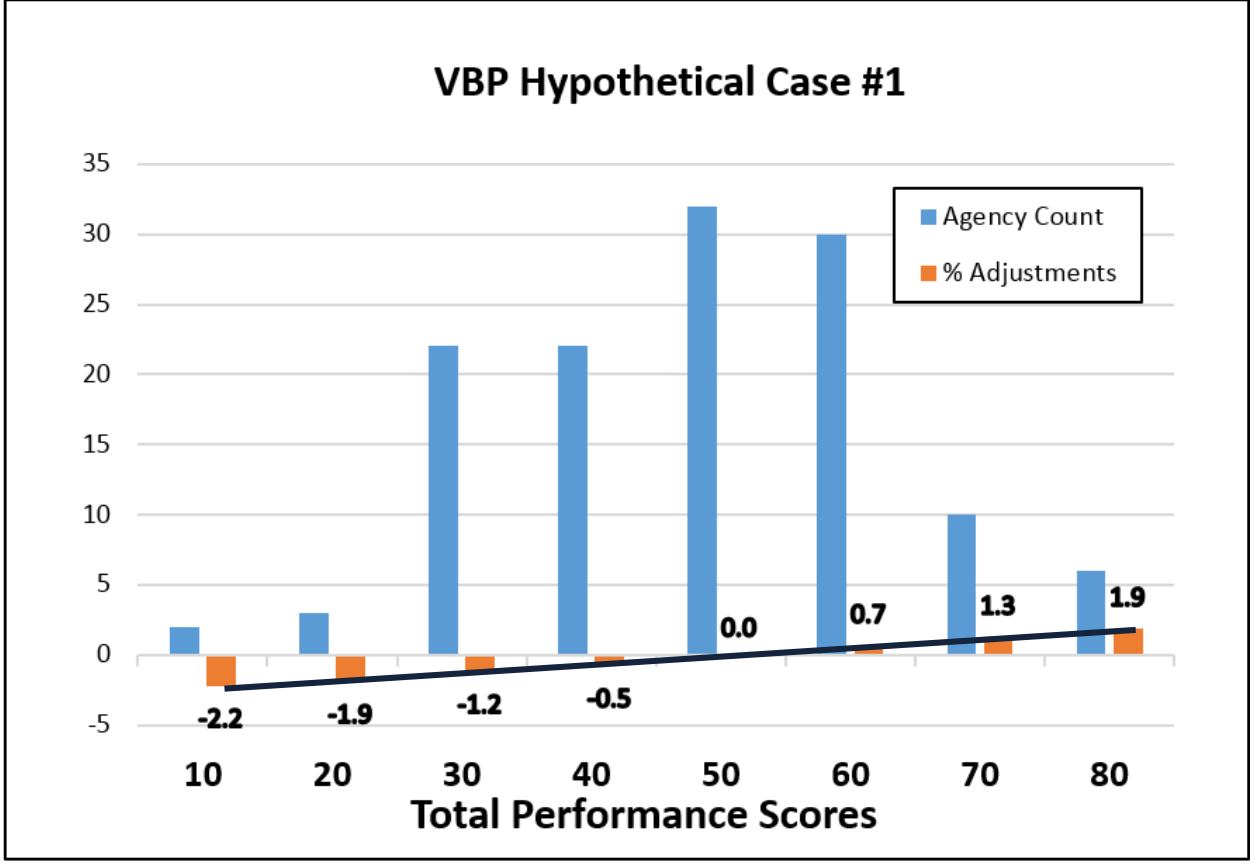
HHVBP Example



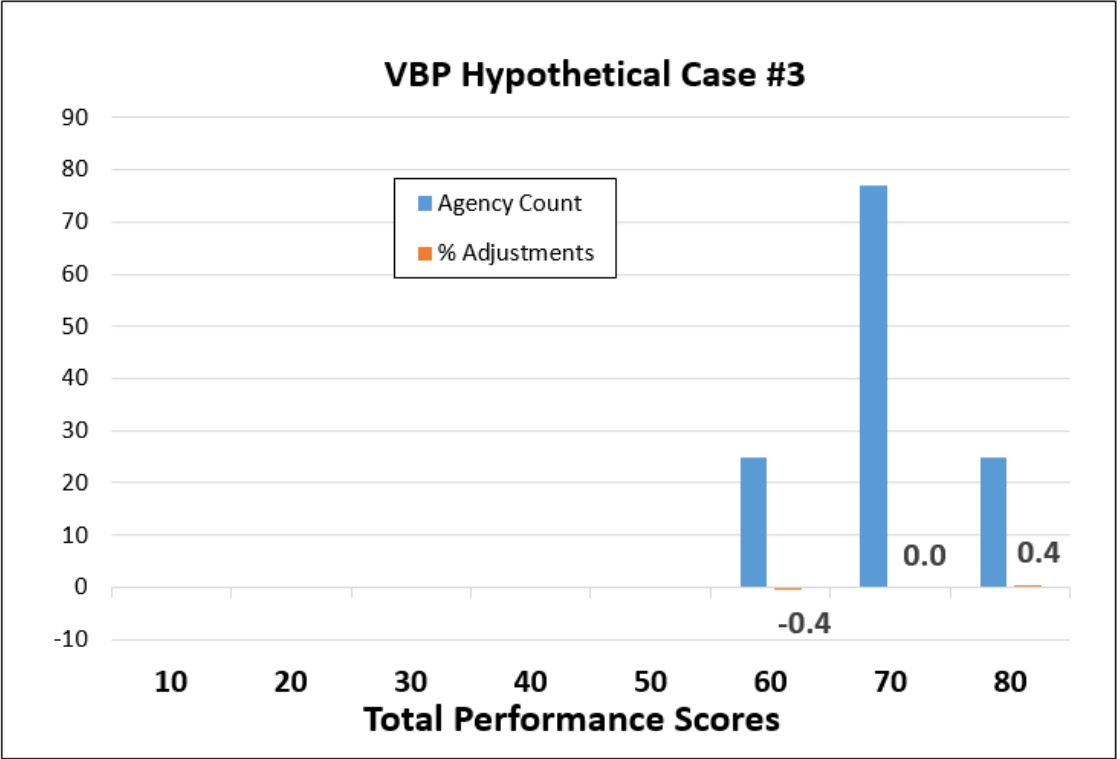
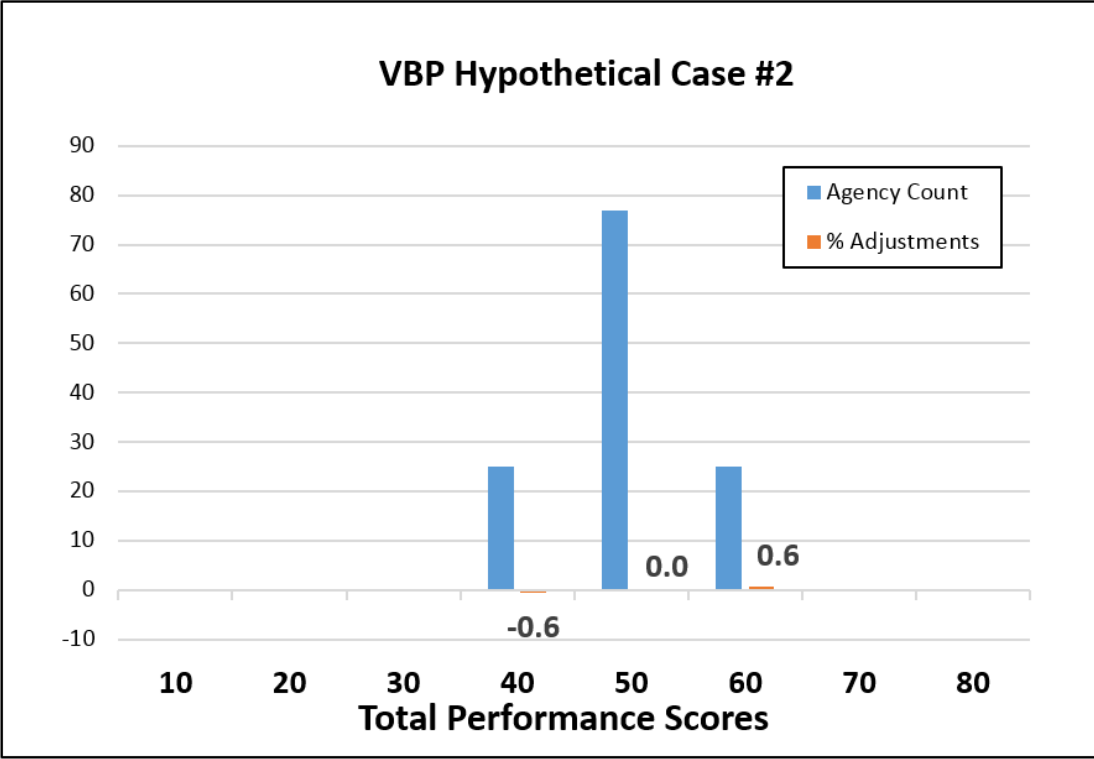
Total Performance Scoring (TPS)

- 17 OASIS/HHCAHPS/Claims based measures are used in the TPS unless an agency does not have 20 or more episodes per measure - Accounts for 90% of the score
- Three New Measures account for the 10% of the score
- If an HHA does not meet this threshold to generate scores on five or more of the Clinical Quality of Care, Outcome and Efficiency, and Person and Caregiver-Centered Experience measures, no payment adjustment will be made
- Bonus and Penalties are based on the relative position of your TPS scores to the other providers in your cohort (large or small)

TPS Scoring – Linear Exchange Function



TPS Examples



Recent Changes in HHVBP

- CY 2018 Final Rule
 - Change the HHCAHPS to 40 completed surveys versus 20
 - Removed Drug Education from measure list starting in CY 2018 (third performance year)
 - Four of the nine states have both small and larger volume cohorts (NE, IA, FL, MA)
- CY 2016 first year performance was not finalized until October 2018 when the final rule was issued
- Uncertainty in knowing how to budget for your bonus/penalty

CY 2019 Proposed Rule - HHVBP

- Removing 5 OASIS measures from the applicable measures
 - Influenza Immunization Received for Current Flu Season
 - Pneumococcal Polysaccharide Vaccine Ever Received
 - Improvement in Ambulation-Locomotion
 - Improvement in Bed Transferring
 - Improvement in Bathing
- Adding two new “Composite” measures (risk adjusted)
 - Total Normalized Composite Change in Self-Care (6 outcomes)
 - Grooming, Bathing, Upper and Lower Dressing, Toileting Hygiene, Eating
 - Total Normalized Composite Change in Mobility (3 outcomes)
 - Toilet Transferring, Bed Transferring, Ambulation

CY 2019 Proposed Rule – HHVBP (Cont.)

- Composite Scoring Steps

1. Calculate absolute change score for each OASIS item (based on change between Start of Care(SOC)/Resumption of Care (ROC) and discharge) used to compute the Total Normalized Composite Change in Self-Care (6 items) or Total Normalized Composite Change in Mobility (3 items) measures.
2. Normalize scores based on maximum change possible for each OASIS item (which varies across different items).
3. Total score for Total Normalized Composite Change in Self-Care or Total Normalized Composite Change in Mobility is calculated by summing the normalized scores for the items in the measure.
4. The prediction models are applied at the episode level to create a specific predicted value for the composite measure for each episode of care.
5. These episode level predicted values are averaged to compute a national predicted value and an HHA predicted value.

$$\text{HHA Risk Adjusted} = \text{HHA Observed} + \text{National Predicted} - \text{HHA Predicted}$$

CY 2019 Proposed Rule – HHVBP (Cont.)

- Weighting the measure scores for 90% of the TPS
 - 35% for the OASIS-based measures (6 outcomes)
 - 35% for the Claims-based measures (2 outcomes)
 - 75% 60-Day Hospitalization, 25% ED use without Hospitalization
 - 30% for the HHCAHPS measures (5 outcomes)
 - Weighting will be adjusted within each category for measures not meeting the reporting threshold
 - The two composites will be weighted as if 3 measures (15 points each)
- Reducing the maximum points for Improvement from 10 points to 9 points (13.5 points for the composite measures)

Quality of Patient Care (QoPC) Star Ratings

- Beginning in July 2015, the QoPC Star Ratings were introduced on the Home Health Compare website
- CMS Stated Goals
 - Displays of stars are an efficient, familiar, consumer-centric way to communicate relative performance (visual shortcut)
 - Format addresses the barrier of innumeracy, i.e. it is not necessary to understand or interpret the numbers behind the stars to understand and use them
 - Star Ratings are an important tool for empowering consumers, encouraging providers to strive for higher levels of quality, and driving overall health system improvement

Summary of Current Methodology

- For each of the 9 (8 as of Jan 2018) measures, ranks all agencies based on score and assign into 10 equally-sized groups (deciles).
- Adjust (or not adjust) the HHA's initial individual measure rating to help distinguish scores that are different from the national median based on a statistical test
- For each agency, average the adjusted ratings across all measures (at least five needed) and round to the nearest 0.5
- Assign ratings from 1 to 5 in half-star increments

Who gets a Star Rating?

All Medicare certified HHAs are eligible to receive a Star Rating, but there are several requirements that must be met in order to receive a score.

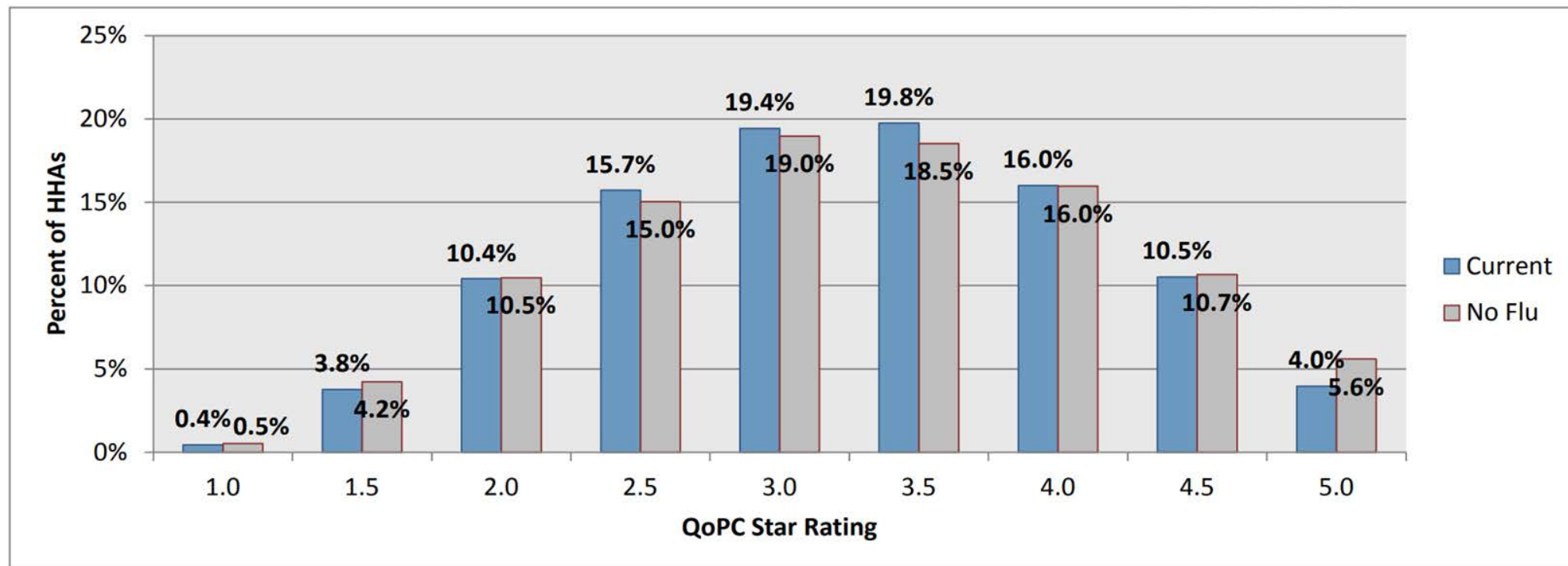
- Completed episodes start with an SOC or ROC assessment and end with a DC assessment. Episodes must have a discharge date within the 12-month reporting period regardless of admission date
- To get an Overall Star Rating, at least 5 of the 8 quality measures must have 20 or more completed quality episodes
- HHAs that are new (< 6 months old) will not have Star Ratings reported
- For April 2018, 8,901 providers had Star Ratings posted on HHC

Changes in QoPC Star Ratings

- CY 2018 Final Rule (April 2018 HHC)
 - Removed Flu Vaccinations
 - Differences across states regulations regarding transporting and administering vaccinations
 - No exclusion made for patients who were offered the vaccination or cannot receive due to contraindications
 - Did not add Emergent Care without Hospitalizations
 - Concerns surrounding attribution issues to the measure e.g. patients / families could voluntarily go to ED
 - Physician may refer to ED without informing/including HHA in decision for patient
- CMS ODF Proposal for CY 2019
 - Removing Drug Education
 - Adding Improvement in Oral Medications

Distribution of QoPC Star Ratings

- October 2017: 9,194 HHAs (76.6%) reporting with average rating of 3.25
- Remove Flu: 9,147 HHAs (76.2%) reporting with average rating of 3.27



Impact of Algorithm Change

- Agencies with high Flu scores will possibly see a reduction in their star ratings
- Agencies with low Flu scores may possibly see an increase in their star ratings
- It will depend on your adjusted rating average and how close that score is to being rounded up or down
- 40.7% of the star ratings released in April 2018 changed from those reported on in Jan 2018 with just over half (54.2%) improving across the two periods

Nine measures are now Eight - Example

1	Initial Decile Rating	Process Measures		Outcome Measures				60-Day Hospitalizations	
		Timely Initiation of Care	Drug Education All Meds	Improvement in Ambulation	Improvement in Bed Trf	Improvement in Bathing	Improvement in Pain		Improvement in Dyspnea
	High/Low Better (+/-)	+	+	+	+	+	+	-	
2	0.5	0.0-81.6	0.0-90.0	0.0-52.1	0.0-45.0	0.0-51.9	0.0-49.6	0.0-42.7	20.6-100.0
3	1.0	81.7-87.7	90.1-94.7	52.2-59.7	45.1-54.2	52.0-61.7	49.7-60.0	42.8-55.9	18.7-20.5
4	1.5	87.8-91.0	94.8-96.6	59.8-64.6	54.3-59.9	61.8-67.0	60.1-65.8	56.0-63.4	17.6-18.6
5	2.0	91.1-93.2	96.7-97.8	64.7-67.9	60.0-64.1	67.1-70.5	65.9-70.0	63.5-68.5	16.6-17.5
6	2.5	93.3-94.8	97.9-98.5	68.0-70.6	64.2-67.3	70.6-73.3	70.1-73.8	68.6-72.5	15.8-16.5
7	3.0	94.9-96.1	98.6-99.1	70.7-73.0	67.4-70.2	73.4-76.2	73.9-77.6	72.6-75.9	15.0-15.7
8	3.5	96.2-97.1	99.2-99.5	73.1-75.5	70.3-72.9	76.3-79.2	77.7-81.6	76.0-79.1	13.9-14.9
9	4.0	97.2-98.0	99.6-99.8	75.6-78.7	73.0-76.2	79.3-82.7	81.7-86.3	79.2-82.6	12.7-13.8
10	4.5	98.1-99.0	99.9-99.9	78.8-83.8	76.3-81.3	82.8-87.8	86.4-93.3	82.7-87.2	10.9-12.6
11	5.0	99.1-100.0	100.0-100.0	83.9-100.0	81.4-100.0	87.9-100.0	93.4-100.0	87.3-100.0	0.0-10.8

12	Your HHA Score	88.9	98.7	66.7	66.4	71.5	75.1	81.9	14.4
13	Your Initial Decile Rating	1.5	3.0	2.0	2.5	2.5	3.0	4.0	3.5

14	Your Number of Cases (N)	1,446	1,446	1,158	1,099	1,163	798	487	958
15	National (All HHA) Median	94.9	98.6	70.7	67.3	73.3	73.9	72.5	15.7
16	Your Statistical Test Probability Value (p-value)	0.000	0.448	0.002	0.257	0.093	0.241	0.000	0.145
17	Your Statistical Test Results (Is the p-value ≤ 0.050?)	Yes	No	Yes	No	No	No	Yes	No

18	Your HHA Adjusted Rating	1.5	3.0	2.0	2.5	2.5	3.0	4.0	3.0
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19	Your Average Adjusted Rating	2.6875
20	Your Average Adjusted Rating Rounded	2.5

Final Step: Convert Your Average Adjusted Rating Rounded (Line 20) to the 1.0 to 5.0 star scale as shown below.

21	Your Overall Star Rating (1.0 to 5.0)		
	Average Adjusted Rating Rounded	Overall HHC Star Rating	% of CCNs with Rating (10/2017)
	4.5 and 5.0	(5.0) ★★★★★	3.99%
	4.0	(4.5) ★★★★★	10.62%
	3.5	(4.0) ★★★★★	16.14%
	3.0	(3.5) ★★★★★	19.80%
	2.5	(3.0) ☆☆☆☆	19.48%
	2.0	(2.5) ★★★★★	15.58%
	1.5	(2.0) ★★★★★	10.29%
	1.0	(1.5) ★★★★★	3.68%
	0.5	(1.0) ★★★★★	0.44%

HHCAHPS Star Ratings

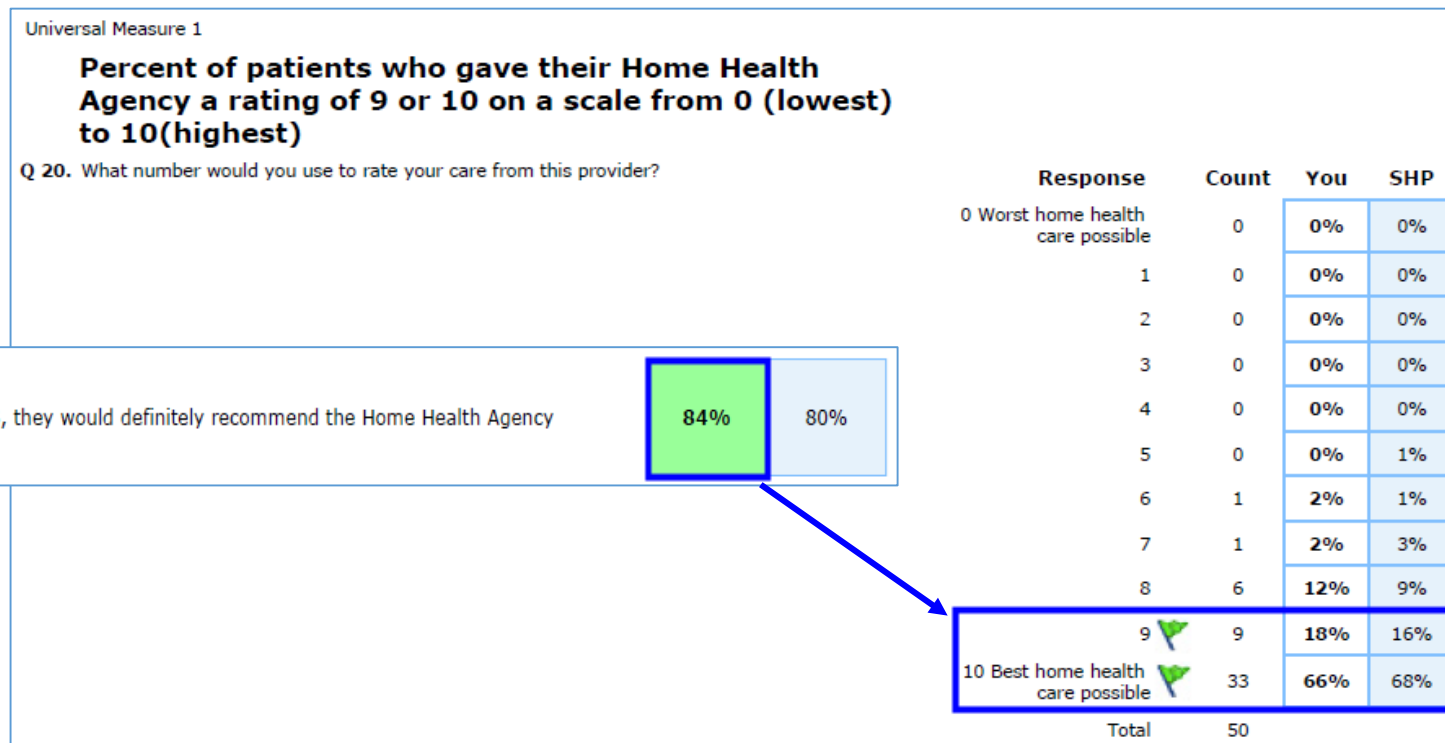
- CMS published the first round of HHCAHPS Star Ratings in January 2016
- HHAs must have at least 40 completed surveys over the four-quarter reporting period to receive HHCAHPS Star Ratings
- Four of the five publicly reported HHCAHPS measures are included in the Star Rating calculation:
 - Composite: Care of Patients
 - Composite: Communication Between Providers and Patients
 - Composite: Specific Care Issues
 - Universal: Overall Rating of Care Provided by the HHA
- Each of these measures is individually rated, and a “Summary” rating is also calculated

HHCAHPS Scoring Methodology

- All 5 measures currently on HHC utilize “Top Box” scoring methodology
- A Top Box score takes the total number responses that are identified as positive or “Top Box” responses divided by the total number of surveys in the period
- The HHCAHPS Star Rating calculation uses a very different methodology called “Linearized Scoring”
- Individual survey responses are converted into linear scores on a 0-to-100 point scale
- The linear score for each answer changes based on the number of different response options for the question

Top Box Scoring

Example: $(33+9) / 50 = 84\%$



Linearized Scoring

Score 0: $0 \times 0 = 0$

Score 1: $0 \times 10 = 0$

Score 2: $0 \times 20 = 0$

Score 3: $0 \times 30 = 0$

Score 4: $0 \times 40 = 0$

Score 5: $0 \times 50 = 0$

Score 6: $1 \times 60 = 60$



Score 7: $1 \times 70 = 70$

Score 8: $6 \times 80 = 480$

Score 9: $9 \times 90 = 810$

Score 10: $33 \times 100 = 3,300$

Total Score: 4,720

Response	Count	You	SHP
0 Worst home health care possible	0	0%	0%
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	1%
6	1	2%	1%
7	1	2%	3%
8	6	12%	9%
9 	9	18%	16%
10 Best home health care possible 	33	66%	68%
Total	50		

4,720 / 50 responses = 94.4%

HHCAHPS Patient Mix Adjustment

- Similar to risk adjustment for HHC Outcomes, patient mix adjustment is intended to level the playing field among HHAs by adjusting for patient characteristics that can affect response tendencies
- Some of these data elements come from information supplied by the HHA and some come from the patient survey.
- Patient Mix Adjustment Factors:
 - HHA: Age: 18–49, 50–64, 65–74 (reference group), 75–84, 85+
 - SURVEY: Education: < grade 8, some HS, HS grad or GED (reference), Some College, College grad +
 - SURVEY: Self-reported overall health status: Excellent, Very Good, Good (Reference), Fair, Poor
 - SURVEY: Self-reported mental/emotional status: Excellent/Very Good, Good (Reference), Fair/Poor
 - HHA: Diagnoses: Schizophrenia, Dementia
 - SURVEY: Patient lives alone
 - SURVEY: Survey answered by proxy
 - HHA: Language in which the survey was completed

Cut Points

- The cut points for star rating assignments are derived from the range of individual measure Star Ratings using a Clustering Algorithm
- With the updates to HHC each quarter, the cut points are recalculated and made available to HHAs along with their Preview Report

October 2014 through September 2015

Measure	1 Star	2 Star	3 Star	4 Star	5 Star
Overall Rating of Care	< 90	≥ 90 to 91	≥ 92 to 94	≥ 95 to 96	≥ 97
Care of Patients Composite	< 88	≥ 88 to 91	≥ 92 to 93	≥ 94 to 95	≥ 96
Communications between Providers and Patients Composite	< 87	≥ 87 to 90	≥ 91 to 92	≥ 93 to 94	≥ 95
Specific Care Issues Composite	< 74	≥ 74 to 81	≥ 82 to 86	≥ 87 to 90	≥ 91

October 2016 through September 2017

Measure	1 Star	2 Star	3 Star	4 Star	5 Star
Overall Rating of Care	< 88	88 to 91	92 to 94	95 to 96	≥ 97
Care of Patients Composite	< 89	89 to 92	93 to 94	95 to 96	≥ 97
Communications between Providers and Patients Composite	< 86	86 to 89	90 to 91	92 to 94	≥ 95
Specific Care Issues Composite	< 75	75 to 78	79 to 82	83 to 86	≥ 87

HHCAHPS Scores HHC CY 2017

	Number of CCNs			
	Jan-17	Apr-17	Jul-17	Oct-17
5 Stars	1,007	1,034	1,522	542
4 Stars	2,399	2,363	2,191	2,129
3 Stars	1,740	1,572	1,307	2,098
2 Stars	565	682	633	768
1 Star	79	102	66	182
No rating	6,268	6,247	6,082	6,022
Total	12,058	12,000	11,801	11,741

	Percent of CCN's			
	Jan-17	Apr-17	Jul-17	Oct-17
5 Stars	8.4%	8.6%	12.9%	4.6%
4 Stars	19.9%	19.7%	18.6%	18.1%
3 Stars	14.4%	13.1%	11.1%	17.9%
2 Stars	4.7%	5.7%	5.4%	6.5%
1 Star	0.7%	0.9%	0.6%	1.6%
No rating	52.0%	52.1%	51.5%	51.3%
Total	100.0%	100.0%	100.0%	100.0%

Source: CMS Home Health Compare

HHCAHPS Nuances

- No changes proposed since inception
- Clustering algorithm has led to uneven shifts in Star Ratings
- Adjusted HHCAHPS scores are rounded to the nearest whole number prior to clustering
- Clustering identifies star groups that maximize differences between groups and minimize differences within groups
- There are no predetermined quotas on the number of HHAs that would be included in any star category
- Same method is used for the CMS Part C and Part D Star Ratings programs and HCAHPS

What is my target?

Wayne Gretzky Quote:

“I skate to where the puck is going to be, not where it has been”



HHC Comparing Scores over time

All Agencies	12 month ending			
Outcome Measure	Jun-14	Jun-15	Jun-16	Jun-17
Improvement: Ambulation	63.0	64.3	69.0	73.2
Improvement: Transferring	58.0	59.8	65.6	71.0
Improvement: Bathing	68.0	69.0	72.6	75.9
Improvement: Management Oral Meds	52.0	54.0	58.7	63.4
Improvement: Pain	68.0	68.5	72.5	76.4
Improvement: Dyspnea	65.0	67.1	71.1	75.3
60-Day ACH Rate	16.0	16.0	16.3	15.9
60-Day ED Use	12.0	12.3	12.5	12.9

% Change Y over Y		
Jun-15	Jun-16	Jun-17
2.1%	7.3%	6.1%
3.1%	9.7%	8.2%
1.5%	5.2%	4.5%
3.8%	8.7%	8.0%
0.7%	5.8%	5.4%
3.2%	6.0%	5.9%
0.0%	1.9%	-2.5%
2.5%	1.6%	3.2%

Massachusetts Agencies	12 month ending			
Outcome Measure	Jun-14	Jun-15	Jun-16	Jun-17
Improvement: Ambulation	65.0	66.8	70.2	74.2
Improvement: Transferring	62.0	63.8	68.4	73.7
Improvement: Bathing	68.0	69.6	71.7	75.1
Improvement: Management Oral Meds	56.0	57.8	60.2	64.8
Improvement: Pain	71.0	71.6	73.7	76.7
Improvement: Dyspnea	68.0	68.7	71.4	74.7
60-Day ACH Rate	16.0	16.8	17.4	17.1
60-Day ED Use	12.0	12.2	12.4	12.5

% Change Y over Y		
Jun-15	Jun-16	Jun-17
2.8%	5.1%	5.7%
2.9%	7.2%	7.7%
2.4%	3.0%	4.7%
3.2%	4.2%	7.6%
0.8%	2.9%	4.1%
1.0%	3.9%	4.6%
5.0%	3.6%	-1.7%
1.7%	1.6%	0.8%

Source: CMS Home Health Compare

HHC Comparing Scores over time

All Agencies	12 month ending			
Process and HHCAHPS Measures	Jun-14	Jun-15	Jun-16	Jun-17
Flu Vaccine	72.0	70.3	74.0	77.6
Pneumococcal Vaccine	72.0	71.5	77.1	80.6
Drug Education	93.0	94.3	96.8	97.9
Timely Initiation of Care	92.0	91.9	92.9	93.7
HHCAHPS: Communication	85.0	85.0	85.0	85.0
HHCAHPS: Care of Patients	88.0	88.0	88.0	88.0
HHCAHPS: Specific Care Issues	84.0	84.0	83.0	83.0
HHCAHPS: Overall rating	84.0	84.0	84.0	84.0
HHCAHPS: Recommend	79.0	79.0	78.0	78.0

% Change Y over Y		
Jun-15	Jun-16	Jun-17
-2.4%	5.3%	4.9%
-0.7%	7.8%	4.5%
1.4%	2.7%	1.1%
-0.1%	1.1%	0.9%
0.0%	0.0%	0.0%
0.0%	0.0%	0.0%
0.0%	-1.2%	0.0%
0.0%	0.0%	0.0%
0.0%	-1.3%	0.0%

Massachusetts Agencies	12 month ending			
Process and HHCAHPS Measures	Jun-14	Jun-15	Jun-16	Jun-17
Flu Vaccine	75.0	72.2	74.4	76.8
Pneumococcal Vaccine	72.0	71.4	78.4	80.7
Drug Education	96.0	96.4	97.6	98.4
Timely Initiation of Care	94.0	94.0	94.5	94.3
HHCAHPS: Communication	86.0	85.0	85.0	85.0
HHCAHPS: Care of Patients	88.0	88.0	89.0	88.0
HHCAHPS: Specific Care Issues	84.0	84.0	84.0	85.0
HHCAHPS: Overall rating	85.0	84.0	85.0	84.0
HHCAHPS: Recommend	82.0	80.0	81.0	80.0

% Change Y over Y		
Jun-15	Jun-16	Jun-17
-3.7%	3.0%	3.2%
-0.8%	9.8%	2.9%
0.4%	1.2%	0.8%
0.0%	0.5%	-0.2%
-1.2%	0.0%	0.0%
0.0%	1.1%	-1.1%
0.0%	0.0%	1.2%
-1.2%	1.2%	-1.2%
-2.4%	1.3%	-1.2%

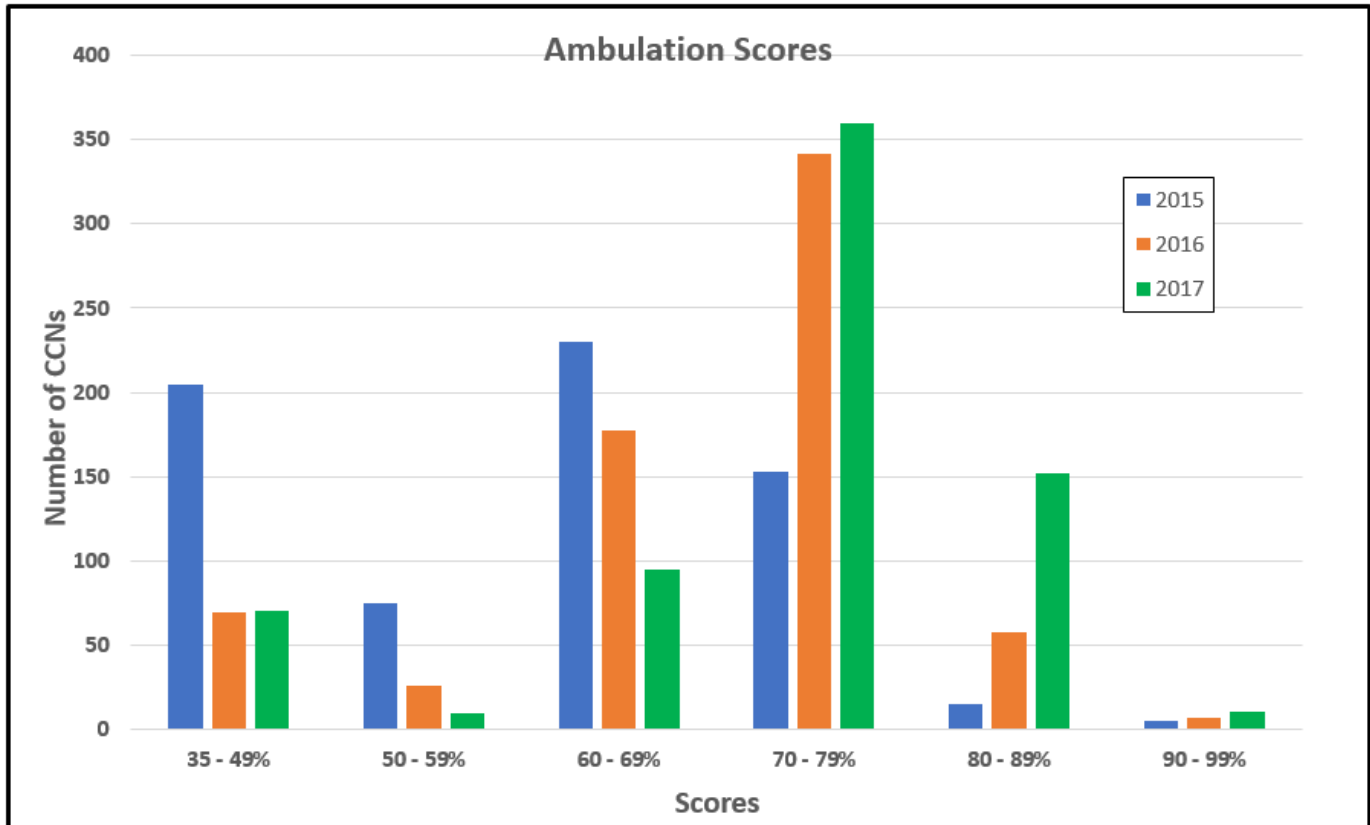
Source: CMS Home Health Compare

Trending Scores - Considerations

- Trend provides important information, especially:
 - “Leading indicators” for your future performance
 - Insight into how your peers are changing and how that impacts your
 - TPS percentile ranking and payment impact
 - Star Ratings
 - Home Health Compare public reporting
 - Supports the view of where you need your scores to be in the future
 - Accessing real-time quality scores are important in managing your quality improvement programs

Changes in VBP States (Examples)

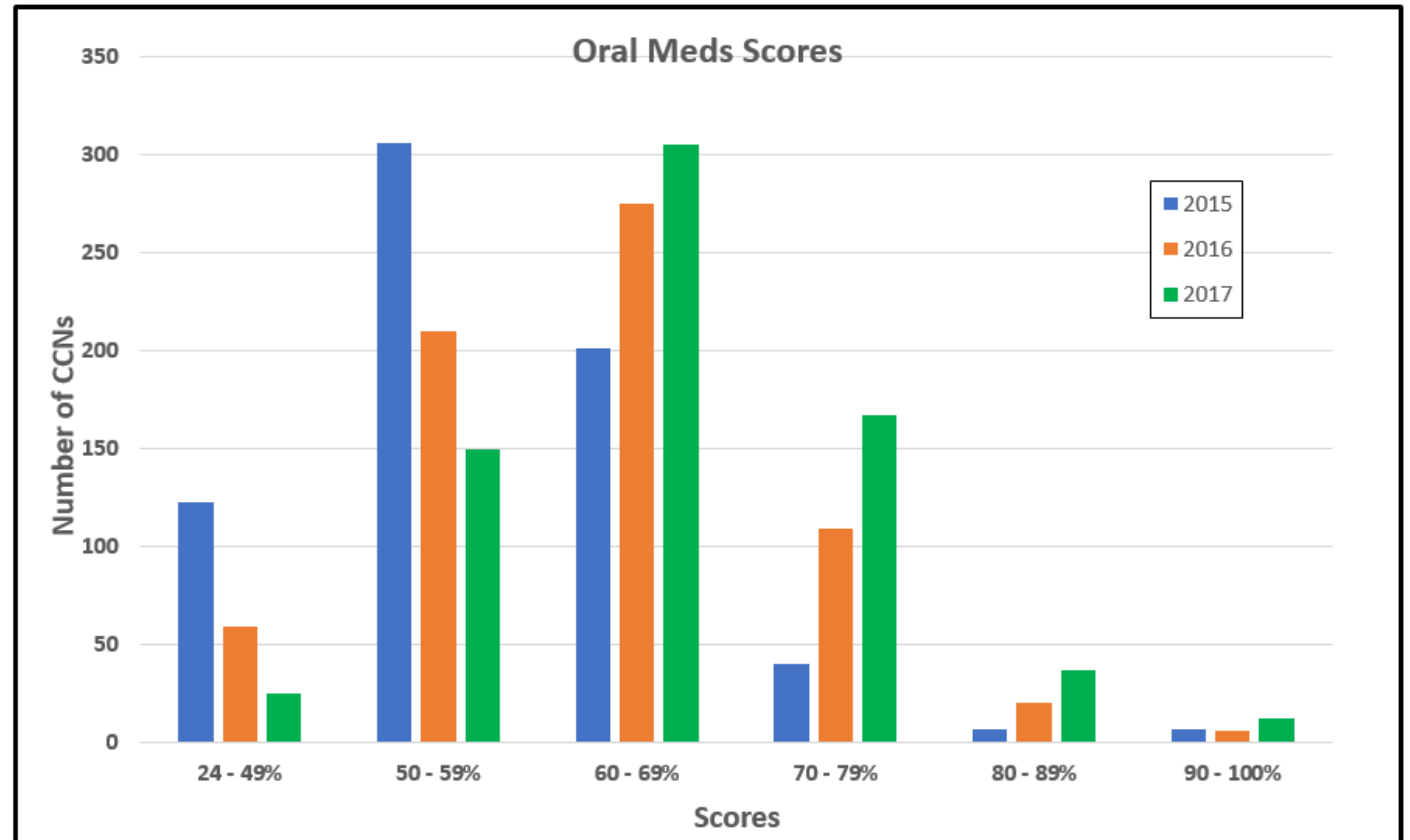
- 12 months ending December



Source: SHP National Database

Changes in VBP States (Examples)

- 12 months ending December



Source: SHP National Database

Year over Year HHVBP Measures (same agencies)

HHVBP Measure	VBP States			Non-VBP States			Massachusetts		
	CY 2016	CY 2017	Change	CY 2016	CY 2017	Change	CY 2016	CY 2017	Change
Ambulation	72.5%	76.2%	3.7%	71.0%	74.7%	3.7%	69.3%	74.4%	5.1%
Bed Transferring	70.1%	73.0%	2.9%	67.9%	70.7%	2.8%	68.7%	71.1%	2.4%
Bathing Improved	77.3%	80.5%	3.2%	75.9%	78.2%	2.3%	72.5%	76.6%	4.1%
Dyspnea	76.7%	80.0%	3.3%	74.2%	77.4%	3.2%	73.4%	77.2%	3.8%
Oral Meds	62.6%	66.4%	3.8%	61.4%	64.7%	3.3%	59.9%	64.3%	4.4%
Pain	76.6%	80.5%	3.9%	74.9%	78.1%	3.2%	74.8%	79.8%	5.0%
Discharge to Community	72.8%	73.1%	0.3%	70.9%	71.3%	0.4%	68.0%	69.8%	1.8%
Flu	79.4%	80.3%	0.9%	79.8%	81.5%	1.7%	78.0%	79.3%	1.2%
Drug Education	98.1%	98.7%	0.6%	97.9%	98.7%	0.8%	98.4%	98.6%	0.2%
PPV	82.4%	82.6%	0.2%	83.8%	85.1%	1.3%	79.6%	80.8%	1.2%
Hospitalizations (+ Improved)	15.1%	15.5%	-0.4%	15.5%	15.6%	-0.1%	16.1%	16.2%	0.1%
Composite 1 (Care of Patients)	88.8%	88.8%	0.0%	88.5%	88.5%	0.0%	88.2%	88.8%	0.5%
Composite 2 (Communications)	86.1%	86.2%	0.1%	86.0%	85.9%	-0.1%	85.8%	86.1%	0.3%
Composite 3 (Specific Care)	82.7%	82.7%	0.0%	83.4%	83.1%	-0.3%	84.7%	84.1%	-0.6%
Universal 1 (Overall Rating)	84.0%	83.9%	-0.1%	83.8%	83.7%	-0.1%	84.3%	84.2%	-0.1%
Universal 2 (Recommend)	79.4%	79.1%	-0.3%	78.9%	78.6%	-0.3%	81.1%	81.4%	0.3%

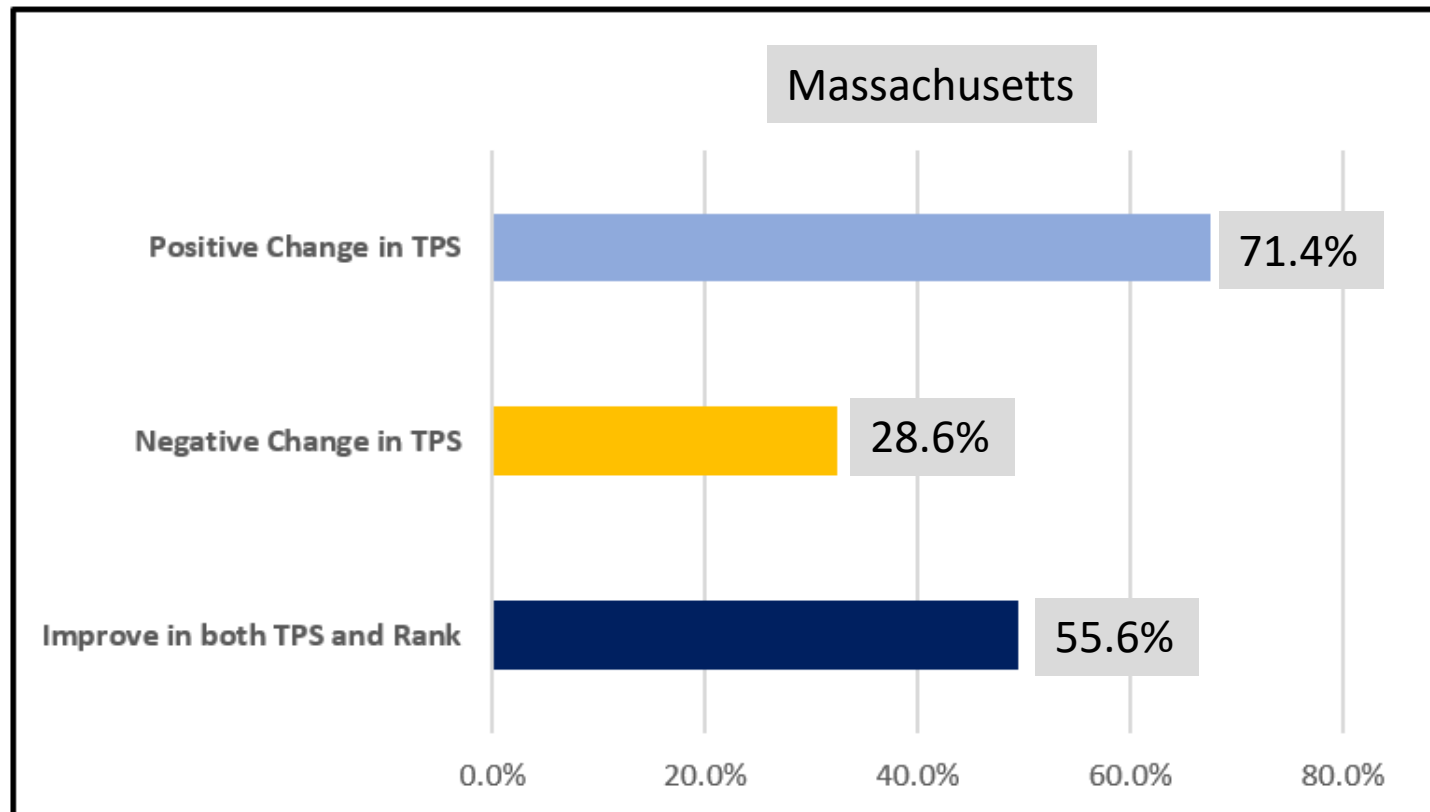
Source: SHP National Database

HHVBP TPS Scores

States	Avg Dec 2016	Avg Dec 2017	% Chg
9 VBP	47.1	51.5	9.3%
VBP CCN #	679	696	
Non-VBP	44.0	48.6	10.5%
Non-VBP CCN #	2,114	2,278	
Arizona	47.6	53.0	11.3%
Florida	40.2	43.8	9.0%
Iowa	56.0	58.6	4.6%
Massachusetts	48.4	52.0	7.4%
Maryland	55.5	57.3	3.2%
Nebraska	48.9	48.5	-0.8%
North Carolina	49.0	56.5	15.3%
Tennessee	50.9	55.2	8.4%
Washington	54.4	59.0	8.5%

Measure Trends – VBP States TPS Scores

- Changes in TPS scores Dec 2016 to Dec 2017



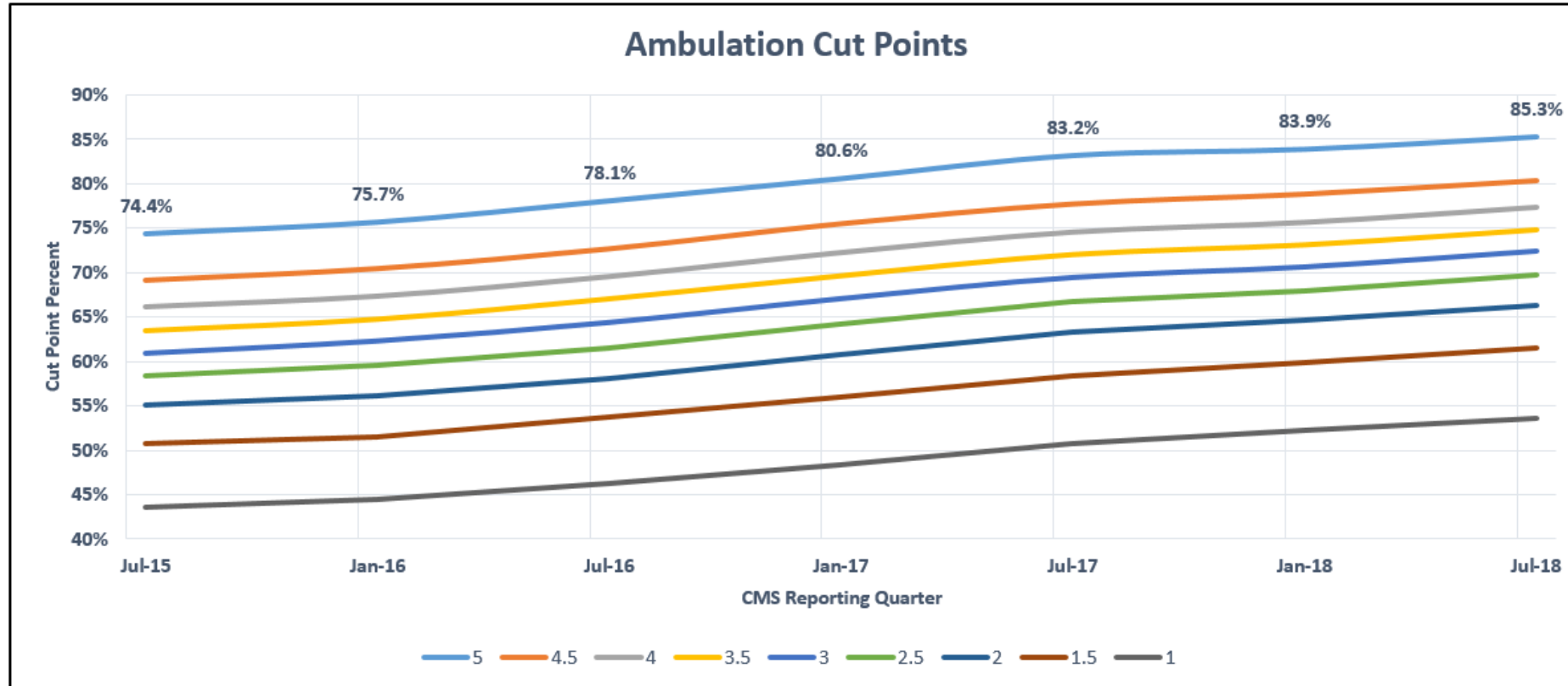
Source: SHP National Database

Percentile Ranking

- The **percentile rank** of a score is the percentage of scores in its frequency distribution that are equal to or lower than it. For example, a test score that is greater than 75% of the scores of people taking the test is said to be at the 75th **percentile**, where 75 is the **percentile rank**. (Wikipedia)
- Measure averages are just that – an average of all the scores in a sample
- For Star Ratings and VBP, the target needs to be based on a percentile goal otherwise you may miss your goal

SHP Percentile Ranking							
	50%	60%	70%	75%	80%	85%	90%
Ambulation	75.2%	76.8%	78.7%	79.8%	80.9%	82.2%	84.5%

Setting your target



Questions?

Thank You for Attending!

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HHVBP and Star Ratings: Updates and Trends

Home Care Alliance of MA