Calculating CAHPS® Hospice Survey Top-, Middle-, and Bottom-Box Scores, Q2 2015 through Q1 2025 Decedents

This document summarizes the steps that the Centers for Medicare & Medicaid Services (CMS) uses to calculate top-, middle-, and bottom-box CAHPS Hospice Survey measure scores for the original version of the CAHPS Hospice Survey, which was administered to caregivers of patients who died while receiving hospice care between Q2 2015 and Q1 2025. A revised version of the CAHPS Hospice Survey was introduced beginning with Q2 2025 decedents; a document describing scoring methods for the revised survey is available at (https://hospicecahpssurvey.org/en/scoring-and-analysis). As described below, measure scores are calculated for each quarter of data using specifications that correspond to the version of the survey that was administered. Eight quarters of data are used to calculate scores for public reporting. Publicly reported scores are updated quarterly.

Step 1: Data Submission

A hospice's survey vendor submits CAHPS Hospice Survey data to the CAHPS Hospice Survey Data Warehouse.

Step 2: Data Cleaning

CMS cleans the submitted CAHPS Hospice Survey data by removing incomplete surveys and surveys from ineligible respondents. Additionally, if a response to a screener question indicates that the respondent was not eligible to answer subsequent, "dependent" question(s), responses are set to missing for the dependent questions. For example, if the response to Question 15, "While your family member was in hospice care, did he or she have any pain?" is "No," responses for Question 16, "Did your family member get as much help with pain as he or she needed?", are set to missing, even if the respondent provided responses to this question.¹

¹ Two questions (Q20 and Q23) used in composites have tailored non-applicable responses. For example, Q23 asks if the hospice gave the caregiver the training needed to help the family member if he or she had trouble breathing. The tailored non-applicable response is, "I did not need to help my family member with trouble breathing." Tailored non-applicable responses are set to missing and excluded from the denominator when CMS calculates scores. In this manner, those who indicate that the question is not relevant to them are considered non-respondents to the question for the purpose of calculating scores.

Step 3: Calculating Unadjusted Top- and Bottom-Box Scores

CMS calculates the "top-box" and "bottom-box" scores for the questions in the eight CAHPS Hospice Survey measures. The eight measures, and the questions that compose them, are shown in Appendix A of this document.

If a survey respondent does not respond to a question for which he or she is eligible, a score is not calculated for that respondent for that question. With one exception, all responses to questions for which a respondent was eligible are used in the score calculation. The exception is the Training Family to Care for Patient measure; for this measure, the measure score is calculated only among those respondents who indicated that their family member received hospice care at home or in an assisted living facility.²

For all questions, the "top-box" score for each response is calculated as a "100" if the most positive response category(ies) for that question is selected or a "0" otherwise. The "bottom-box" score for each response is calculated as a "100" if the least positive response category(ies) for that question is selected or a "0" otherwise.

Different questions have different response options. Table 1 displays the different response scales and how each response is categorized as "top-box," "middle-box," or "bottom-box."

Table 1. "Top-Box," "Middle-Box," and "Bottom-Box" Score Crosswalk to Response Scales, Q2 2015 through Q1 2025 Decedents

Response Scale	Top-Box	Middle-Box	Bottom-Box
	Response (most positive)	Response	Response (least positive)
Never/Sometimes/Usually/Always	Always	Usually	Never; Sometimes
Never/Sometimes/Usually/Always	Never	Sometimes	Always; Usually
(Question 10 only)*			
No/Yes, Somewhat/Yes, Definitely	Yes, Definitely	Yes, Somewhat	No
Definitely No/Probably	Definitely Yes	Probably Yes	Probably No;
No/Probably Yes/Definitely Yes			Definitely No
Rating 0-10, where 10 is the most	9 or 10	7 or 8	0-6
positive			
Too Little/Right Amount/Too Much**	Right Amount	N/A**	Too Little***

^{*} Question 10 is "While your family member was in hospice care, how often did anyone from the hospice team give you confusing or contradictory information about your family member's condition or care?"

^{**} The response options for this response scale are grouped into top- and bottom-box scores only.

^{***} Prior to Q3 2018, the bottom box for this response scale was defined as 'too little' and 'too much'. Beginning with Q3 2018 decedent data, the bottom box was defined as 'too little;' responses of 'too much' were not included in scoring.

² In the CAHPS Hospice Survey Data Public Use File issued by CMS in December 2016, the national score for Getting Hospice Care Training includes respondents whose family members who received hospice care in <u>all</u> settings.

To calculate the unadjusted "top-box" score for each hospice, the numerator is the number of respondents who selected the most positive response category(ies) for that question and the denominator is the total number of respondents to that question. To calculate the unadjusted "bottom-box" score for each hospice, the numerator is the number of respondents who selected the least positive response category(ies) for that question and the denominator is the number of total respondents to that question.³

However, official scores are adjusted for mode of survey administration and case mix (see steps 4 and 5).

Step 4: Adjusting for Mode of Survey Administration

CMS applies survey mode adjustment to adjust responses for the effect of mode of survey administration.

For Q2 2015 through Q1 2025 decedents, hospices participating in national implementation of the CAHPS Hospice Survey could choose from one of three modes of survey administration: Mail Only, Telephone Only, or Mixed Mode (mail with telephone follow-up). CMS conducted a randomized mode experiment in 2015 to assess the effect of mode on response rates and response patterns, and to determine whether survey mode adjustments were needed to fairly compare CAHPS Hospice Survey results for hospices that used different modes of data collection. The experiment found significant effects of survey mode on responses to several outcomes; therefore, to ensure fair comparisons across hospices, CAHPS Hospice Survey scores must be adjusted for mode of survey administration, which can affect scores but is not related to quality of hospice care.

In making mode adjustments, it is necessary to choose one mode as a reference point. One can then interpret all adjusted scores from all modes as if respondents had been surveyed in the reference mode. For Q2 2015 through Q1 2025 decedents, the Telephone Only mode is used as the reference mode; thus, surveys conducted using the Telephone Only mode are not adjusted further for mode. Surveys conducted using the other two modes (Mail Only and Mixed mode) are adjusted according to the difference in mode effects between that mode and the Telephone Only mode, as estimated through linear regression in the 2015 CAHPS Hospice Survey Mode Experiment. For Mixed mode, there is a single adjustment regardless of whether an individual responded by mail or phone (i.e., the adjustment is for the overall administration mode, not the mode in which the individual responds).

³ Bottom-box scores are calculated differently for the Emotional and Spiritual Support measure because the three questions that compose that measure have response options Too Little/Right Amount/Too Much, for which no middle-box score is defined. The calculation of the bottom-box scores for these questions and the overall composite measure parallels the method for calculating middle-box scores for all other measures (described in steps 7 and 8 below).

The mode effects for top-box scores for each question are derived from the coefficients for the dummy variables for mode in models regressing the top-box score on two mode dummy variables (one for each mode, with Telephone Only as the reference), dummy variables for hospice, and case-mix adjustors. These coefficients estimate the remaining difference between Telephone Only mode and each of the other modes after case-mix adjustment. The mode adjustments are equal to -1 times the coefficients. The use of Telephone Only mode as the reference mode does not indicate that this mode is preferable to other approved modes in any way. Mode adjustments for bottom-box scores are derived in similar fashion for all questions except those with response options Too Little/Right Amount/Too Much, for which no middle-box score is defined.

Appendix B of this document presents the mode adjustments derived from the 2015 CAHPS Hospice Survey Mode Experiment for each CAHPS Hospice Survey question relative to the Telephone Only mode for top- and bottom-box scoring. As an example, suppose a respondent surveyed using the Mail Only mode selects "Definitely Yes" for the Willing to Recommend this Hospice question and thus receives a top-box score of "100." This score would be adjusted to 99.47% (i.e., 100% - 0.53%) in order to account for the fact that 99.47% is the corresponding expected score for that question had the survey been conducted in Telephone Only mode.

Step 5: Adjusting for Case Mix

To ensure that comparisons between hospices reflect differences in performance rather than differences in patient and/or caregiver characteristics, CMS adjusts responses for "case mix" (i.e., variations of such characteristics across hospices). The case-mix adjustment model includes the following variables:

- response percentile (calculated by ranking lag time—that is, days between death and survey response—among respondents for each hospice in each quarter, then dividing by total sample size)
- decedent age
- payer for hospice care
- primary diagnosis
- length of final episode of hospice care
- respondent age
- respondent education
- relationship of decedent to caregiver
- language

The CAHPS Hospice Survey website (https://hospicecahpssurvey.org/en/scoring-and-analysis) presents more information regarding case-mix adjustment, including the case-mix adjustment factors for each CAHPS Hospice Survey measure for each quarter. Top-box and bottom-box scores are case-mix adjusted for all questions except for those with response options Too Little/Right Amount/Too Much, for which only top-box scores are case-mix-adjusted (since

bottom-box scores for these questions are calculated as 100 – top-box score, as described in step 7).

Step 6: Calculating Composite Measure Scores from Question Scores

Steps 1 through 5 result in mode- and case-mix adjusted top-box hospice-level scores for each question and bottom-box scores for all questions except those with response options Too Little/Right Amount/Too Much. For single-question measures, the hospice-level top-box and bottom-box measure scores are simply equal to the adjusted question score calculated in Step 5. For all multi-question measures except Emotional and Spiritual Support, the hospice-level top-and bottom-box scores are calculated as the average of the hospice-level top- and bottom-box scores, respectively, for the questions that compose the measure. Bottom-box scores are calculated differently for the Emotional and Spiritual Support measure, as described in step 7.

Step 7: Calculating Top-Box and Bottom-Box Mean Scores for Each Hospice, State, and for All Hospices Nationwide

Steps 1 through 6 are conducted separately for each of the quarters of data included in a given reporting period.

For each CAHPS Hospice Survey measure, CMS calculates a mean top-box score for each hospice using a weighted average of top-box scores across all quarters of data in the reporting period. Specifically, for each hospice, each quarter is weighted according to the number of decedents/caregivers responding for that score. A mean bottom-box score is calculated for each measure (except the Emotional and Spiritual Support composite) in a similar way. For the Emotional and Spiritual Support composite, CMS calculates a mean bottom-box score as 100 – top-box score. Top-box measure scores are calculated and publicly reported for hospices that had a minimum of 30 completed questionnaires during the reporting period.

CMS also calculates state and national averages for each measure in the reporting period by averaging measure scores across all hospices that had a minimum of 30 completed questionnaires during that reporting period.

Scores are rounded to the nearest whole number on a 0-100 scale, using normal rounding rules.

Step 8: Calculating Middle-Box Mean Scores for Each Hospice, State, and for All Hospices Nationwide

For each CAHPS Hospice Survey measure (except Emotional and Spiritual Support, for which there is no middle-box score), CMS calculates a middle-box score for each hospice as 100 – top-box score – bottom-box score.

CMS also calculates state and national average middle-box scores for each measure (except Emotional and Spiritual Support) as 100 – state or national average of top-box scores – state or national average of bottom-box scores.

Appendix A. CAHPS Hospice Survey Measures and Questions from Original Survey, Q2 2015 through Q1 2025 Decedents

Composite and question

Communication with Family

- How often did the hospice team listen carefully to you when you talked with them about problems with your family member's hospice care?
- While your family member was in hospice care, how often did the hospice team listen carefully to you?
- While your family member was in hospice care, how often did the hospice team explain things in a way that was easy to understand?
- While your family member was in hospice care, how often did the hospice team keep you informed about your family member's condition?
- While your family member was in hospice care, how often did the hospice team keep you informed about when they would arrive to care for your family member?
- While your family member was in hospice care, how often did anyone from the hospice team give you confusing or contradictory information about your family member's condition or care?

Getting Timely Help

- Q7 While your family member was in hospice care, when you or your family member asked for help from the hospice team, how often did you get help as soon as you needed it?
- Q5 How often did you get the help you needed from the hospice team during evenings, weekends, or holidays?

Treating Patient with Respect

- While your family member was in hospice care, how often did the hospice team treat your family member with dignity and respect?
- While your family member was in hospice care, how often did you feel that the hospice team really cared about your family member?

Emotional and Spiritual Support

- Q38 In the weeks after your family member died, how much emotional support did you get from the hospice team?
- While your family member was in hospice care, how much emotional support did you get from the hospice team?
- Q36 Support for religious or spiritual beliefs includes talking, praying, quiet time, or other ways of meeting your religious or spiritual needs. While your family member was in hospice care, how much support for your religious and spiritual beliefs did you get from the hospice team?

Composite and question (cont'd)

Help for Pain and Symptoms

- Q27 How often did your family member receive the help he or she needed from the hospice team for feelings of anxiety or sadness?
- Q25 How often did your family member get the help he or she needed for trouble with constipation?
- Q22 How often did your family member get the help he or she needed for trouble breathing?
- Q16 Did your family member get as much help with pain as he or she needed?

Training Family to Care for Patient

- Q23 Did the hospice team give you the training you needed about how to help your family member if he or she had trouble breathing?
- Q19 Did the hospice team give you enough training about what side effects to watch for from pain medicine?
- Q29 Did the hospice team give you the training you needed about what to do if your family member became restless or agitated?
- Q20 Did the hospice team give you the training you needed about if and when to give more pain medicine to your family member?
- Q18 Side effects of pain medicine include things like sleepiness. Did any member of the hospice team discuss side effects of pain medicine with you or your family member?

Rating of this Hospice

Using any number from 0 to 10, where 0 is the worst hospice care possible and 10 is the best hospice care possible, what number would you use to rate your family member's hospice care?

Willing to Recommend this Hospice

Q40 Would you recommend this hospice to your friends and family?

Appendix B. Mode Adjustments for Top- and Bottom-Box Scores for Original CAHPS Hospice Survey (Telephone Only as Reference Mode), Q2 2015 through Q1 2025 Decedents

needed from the hospice team during evenings, weekends, or holidays? While your family member was in hospice care, how often did the hospice team keep you informed about when they would arrive to care for your family member was in hospice care, when you or your family member asked for help from the hospice team, how often did you get help as soon as you needed it? Q8 While your family member was in hospice care, how often did he hospice team explain things in a way that was easy to understand? Q9 While your family member was in hospice care, how often did the hospice team keep you informed about your family member se condition? Q10 While your family member was in hospice care, how often did anyone from the hospice team give you confusing or contradictory information about your family member was in hospice care, how often did the hospice team feel you confusing or contradictory information about your family member was in hospice care, how often did the hospice team feel you confusing or contradictory information about your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did the hospice team treat your family member was in hospice care, how often did you feel that the hospice team really cared about your family member?	tom-Box Mode ustment
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	0.93
	0.10
Bid your raining moment get as maden	0.77

Question Number	Survey Question	Survey Mode	Top-Box Mode Adjustment	Bottom-Box Mode Adjustment
Q18	Side effects of pain medicine include	Mixed	-2.38	2.80
	things like sleepiness. Did any member of the hospice team discuss side effects of pain medicine with you or your family member?	Mail	-0.25	3.01
Q19	Did the hospice team give you the	Mixed	-2.71	1.66
	training you needed about what side effects to watch for from pain medicine?	Mail	-4.13	4.21
Q20	Did the hospice team give you the	Mixed	-0.21	0.15
	training you needed about if and when to give more pain medicine to your family member?	Mail	-1.12	0.31
Q22	How often did your family member	Mixed	1.28	-1.06
	get the help he or she needed for trouble breathing?	Mail	-0.83	2.05
Q23	Did the hospice team give you enough	Mixed	1.26	-0.69
	training about how to help your family member if he or she had trouble breathing?	Mail	-3.46	1.72
Q25	How often did your family member	Mixed	-0.39	-0.84
Q23	get the help he or she needed for trouble with constipation?	Mail	-0.97	1.04
Q27	How often did your family member	Mixed	-2.38	2.56
	receive the help he or she needed <u>from</u> the hospice team for feelings of anxiety or sadness?	Mail	-4.24	5.24
Q29	Did the hospice team give you the	Mixed	-3.26	2.43
	training you needed about what to do if your family member became restless or agitated?	Mail	-5.53	3.51
Q35	While your family member was in	Mixed	-1.72	0.77
	hospice care, how often did the	Mixed		
	hospice team listen carefully to you?	Mail	-2.27	2.56
beliefs includes talking, pray time, or other ways of meeting religious or spiritual needs. Very your family member was in leare, how much support for your fligious and spiritual beliefs.	Support for religious or spiritual beliefs includes talking, praying, quiet	Mixed	-2.72 / -2.69	N/A
	religious or spiritual needs. While your family member was in hospice care, how much support for your religious and spiritual beliefs did you get from the hospice team? *	Mail	-3.67 / -3.70	N/A
Q37	While your family member was in	Mixed	-0.91 / -0.77	N/A
	hospice care, how much emotional support did you get from the hospice team? *	Mail	-1.09 / -0.98	N/A
Q38	In the weeks after your family	Mixed	-3.18 / -3.31	N/A
	member died, how much emotional support did you get from the hospice team? *	Mail	-3.24 / -3.61	N/A

Question Number	Survey Question	Survey Mode	Top-Box Mode Adjustment	Bottom-Box Mode Adjustment
Q39		Mixed	-2.76	0.12
where 0 is the worst hospice care possible and 10 is the best hospice care possible, what number would you use to rate your family member's hospice care?	Mail	-3.89	0.46	
Would you recommend this hospice t your friends and family?	Mixed	-1.28	-0.02	
	your friends and family?	Mail	-0.53	0.89

^{*}Prior to Q3 2018, the bottom box for this response scale was defined as 'too little' and 'too much.' Beginning with Q3 2018 decedent data, the bottom box was defined as 'too little;' responses of 'too much' were not included in scoring. The first number represents the mode adjustment in scoring prior to Q3 2018; the second number (following the slash) represents the mode adjustment beginning in Q3 2018.