

**Design for *Care Compare*
Nursing Home Five-Star Quality Rating
System:**

Technical Users' Guide

July 2026



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July 2026 Revisions

Consistent with previous revisions, effective with the July 2026 refresh, CMS is implementing an increase to the Quality Measure (QM) rating thresholds, increasing each rating threshold by one-half of the average improvement in QM scores ([QSO 19-08-NH](#)). For the July 2026 refresh, the average improvement was determined from the period of January 2025 – April 2026. The new rating thresholds are shown in Table 5 of this document. Note the point thresholds for individual QMs did not change.

Changes are identified in *red, italicized text*.

April 2026 Revisions

Effective with the April 2026 refresh, the long-stay antipsychotic medication quality measure calculation will be updated to ensure that all residents with a history of schizophrenia are excluded, consistent with established specifications. A subset of these residents was not appropriately excluded from the measure data released in January 2026. This change did not have a significant impact on scores for this measure or quality measure ratings. However, the scoring cut points for this measure will be reset to place providers into deciles using data from 2024Q4-2025Q3.

January 2026 Revisions

Effective with the January 2026 refresh, CMS will replace the existing long-stay antipsychotic medication quality measure with a respecified measure that incorporates Medicare and Medicaid claims data and Medicare Advantage encounter data to supplement MDS data. The scoring cut points for this respecified measure will be set to place providers into 10 equal deciles based on the distribution of providers' performance. Please refer to CMS Memorandum [QSO-25-20-NH REVISED](#) for more information.

July 2025 Revisions

Effective with the July 2025 refresh, CMS is implementing a change to the methodology for calculating the health inspections domain, shifting from using the three most recent standard health inspection surveys to the two most recent standard health inspection surveys to calculate health inspection ratings. CMS will continue to use a three-year lookback period for complaint and infection control inspections. For more details on the updated methodology, please review the “Health Inspection Domain” section of this document.

CMS is updating the risk-adjustment models for the four claims-based measures to add risk adjusters using variables from Section GG (resident's functional ability) in the Minimum Data Set (MDS). To minimize the impact of this change, CMS is revising the thresholds for the claims-based measures to maintain the same distribution by points based on data from the April 2025 refresh.

January 2025 Revisions

Effective with the January 2025 refresh, CMS will unfreeze four quality measures (QMs) that were frozen beginning with the April 2024 refresh. These measures were updated to accommodate recent changes to the Minimum Data Set (MDS). Please refer to the CMS Memorandum [QSO-25-01-NH](#) for more information about these updates. The impacts to these QMs are as follows:

- Percentage of Skilled Nursing Facility (SNF) Residents Who Are At or Above an Expected Ability to Care for Themselves and Move Around at Discharge will replace Percentage of Residents Who Made Improvements in Function (short-stay).
- Percentage of Residents Whose Need for Help with Activities of Daily Living Has Increased (long-stay) will be respecified.
- Percentage of Residents Whose Ability to Walk Independently Worsened (long-stay) will be respecified.
- Percentage of Residents with Pressure Ulcers will replace Percentage of High-Risk Residents with Pressure Ulcers (long-stay).

To address these changes in measure specifications, the scoring cut points for each of these four measures were recalculated to achieve an even distribution across scores. Also, to minimize the potential disruption associated with these changes, the QM rating cut points were adjusted to maintain the same overall distribution.

Previous Versions

Previous versions of the Technical Users' Guide can be found here:

<https://www.cms.gov/medicare/health-safety-standards/certification-compliance/five-star-quality-rating-system-archives>

Introduction

In December 2008, the Centers for Medicare & Medicaid Services (CMS) enhanced its *Nursing Home Compare*¹ public reporting site to include a set of quality ratings for each nursing home that participates in Medicare or Medicaid. The ratings take the form of several “star” ratings for each nursing home. The primary goal of this rating system is to provide residents and their families with an easy way to understand assessment of nursing home quality, making meaningful distinctions between high and low performing nursing homes.

This document provides a comprehensive description of the design for the Nursing Home Five-Star Quality Rating System. This design was developed by CMS with assistance from Abt Global, invaluable advice from leading researchers in the long-term care field who comprise the Technical Expert Panel

¹ Nursing Home Compare was retired on December 1, 2020 and replaced with *Care Compare*, which can be accessed at <https://www.medicare.gov/care-compare/>.

(TEP) for this project, and numerous ideas contributed by consumer and provider groups. All of these organizations and groups have continued to contribute their input as the rating system has been refined and updated to incorporate newly available data. We believe the rating system offers valuable and comprehensible information to consumers based on the best data available. It features an Overall Quality Rating of one to five stars based on nursing home performance on three domains, each of which has its own rating:

- ***Health Inspections - Measures based on outcomes from state health inspections:*** Ratings for the health inspections domain are based on the number, scope, and severity of deficiencies identified during the two most recent annual inspection surveys, as well as findings from the most recent 36 months of complaint investigations and focused infection control surveys. All deficiency findings are weighted by scope and severity. The health inspections rating also takes into account the number of revisits required to ensure that deficiencies identified during health inspection surveys have been corrected.
- ***Staffing - Measures based on nursing home staffing levels and staff turnover:*** Ratings for the staffing domain are based on six measures. This includes three nurse staffing level measures (hours per resident per day) and three measures of staff turnover. The staffing measures are derived from data submitted each quarter through the Payroll-Based Journal (PBJ) System, along with daily resident census derived from Minimum Data Set, Version 3.0 (MDS 3.0) assessments. The nurse staffing level measures are case-mix adjusted based on the distribution of MDS 3.0 assessments by nursing case-mix Groups (CMGs) from the Patient-Driven Payment Model (PDPM) and cover a single quarter. The turnover measures use six consecutive quarters of PBJ data to define annual turnover for nursing staff and administrators.
- ***Quality Measures - Measures based on MDS and claims-based quality measures (QMs):*** Ratings for the quality measures are based on performance on 15 of the QMs that are currently posted on the *Care Compare* website. These include nine long-stay measures and six short-stay measures. Note that not all the quality measures that are reported on *Care Compare* are included in the rating calculations. In addition to an overall quality measure rating, separate QM ratings for short-stay measures and long-stay measures are also reported.

In recognition of the multi-dimensional nature of nursing home quality, *Care Compare* displays ratings for each of these domains along with an overall rating.

A companion document to this Technical Users' Guide (*Nursing Home Compare—Five Star Quality Rating System: Technical Users' Guide—State-Level Cut Point Tables*) provides the data for the state-level cut points for the health inspection star ratings. The data table in the companion document is updated monthly. The cut points for the staffing rating are listed in Table 3 of this Technical Users' Guide, and the cut points for the individual staffing measures included in the staffing rating are in Appendix Table A2. Table 5 provides the cut points for the QM ratings, and the cut points for the individual QMs are in Appendix Table A3.

Methodology for Constructing Ratings

Health Inspection Domain

Nursing homes that participate in the Medicare and/or Medicaid programs have an onsite recertification (standard) “comprehensive” inspection annually *on average*. Inspections are unannounced and are conducted by a team of health care professionals who spend several days in the nursing home to assess whether the nursing home is in compliance with federal requirements. These inspections provide a comprehensive assessment of the nursing home, reviewing facility practice and policies in such areas as resident rights, quality of life, medication management, skin care, resident assessment, nursing home administration, environment, and kitchen/food services. The methodology for constructing the health inspection rating is based on the two most recent recertification surveys for each nursing home, complaint deficiencies during the most recent three-year period, deficiencies cited on focused infection control surveys in the most recent three-year period, and any repeat revisits needed to verify that required corrections have brought the facility back into compliance.

Scoring Rules

CMS calculates a health inspection score based on points assigned to deficiencies identified in each active provider’s two most recent recertification health inspections, as well as on deficiency findings from the most recent three years of complaint inspections and findings from focused infection control surveys.

- ***Health Inspection Results:*** Points are assigned to individual health deficiencies according to their scope and severity –more serious, widespread deficiencies receive more points, with additional points assigned for substandard quality of care (see Table 1). If the status of the deficiency is “past non-compliance” and the severity is “immediate jeopardy” (i.e., J-, K- or L-level), then points associated with a G- level deficiency are assigned. Note that results from the third most recent recertification health inspection and associated deficiencies are displayed on Care Compare but are not used for health inspection ratings. Citations that are under dispute through the Informal Dispute Resolution (IDR) or Independent IDR processes are also displayed on Care Compare but not included in the health inspection score calculation until the dispute process is finished. Two types of health citations – F731 (Waiver of requirement to provide licensed nurses on a 24-hour basis) and F884 (COVID-19 reporting to the Centers for Disease Control) -- are not considered in the health inspection score calculation (nor are these reported on Care Compare). Additionally, other health citations with a deficiency status code indicating that a waiver has been granted, while displayed on the website, are not included in the health inspection score. Deficiencies from Life Safety surveys are not included in the Five-Star rating calculations. Deficiencies from Federal Comparative Surveys are not reported on *Care Compare* or included in rating calculations, though the results of State Survey Agency determinations made during a Federal Oversight Survey are included.
- ***Repeat Revisits - Number of repeat revisits required to confirm that correction of deficiencies have restored compliance:*** No points are assigned for the first revisit; points are assigned only for the second, third, and fourth revisits and are proportional to the health inspection score for the survey cycle (Table 2). If a provider fails to correct deficiencies by the time of the first revisit, then these additional revisit points are assigned up to 85 percent of the health inspection score for the fourth revisit. CMS’ experience is that providers who fail to demonstrate restored compliance

with safety and quality of care requirements during the first revisit have lower quality of care than other nursing homes. More revisits are associated with more serious quality problems.

Table 1
Health Inspection Score: Weights for Different Types of Deficiencies

Severity	Scope		
	Isolated	Pattern	Widespread
Immediate jeopardy to resident health or safety	J 50 points* (75 points)	K 100 points* (125 points)	L 150 points* (175 points)
Actual harm that is not immediate jeopardy	G 20 points	H 35 points (40 points)	I 45 points (50 points)
No actual harm with potential for more than minimal harm that is not immediate jeopardy	D 4 points	E 8 points	F 16 points (20 points)
No actual harm with potential for minimal harm	A 0 point	B 0 points	C 0 points

Note: Figures in parentheses indicate points for deficiencies that are for substandard quality of care.

Shaded cells denote deficiency scope/severity levels that constitute substandard quality of care. A definition of substandard quality of care can be found here: <https://www.cms.gov/Medicare/Provider-Enrollment-and-Certification/GuidanceforLawsAndRegulations/Nursing-Homes> ('Survey Resources (ZIP)' link in the Downloads section: List-of-Revised_FTags.pdf).

* If the status of the deficiency is "past non-compliance" and the severity is Immediate Jeopardy, then points associated with a 'G-level' deficiency (i.e., 20 points) are assigned.

Source: Centers for Medicare & Medicaid Services

Table 2
Weights for Repeat Revisits

Revisit Number	Noncompliance Points
First	0
Second	50 percent of health inspection score
Third	70 percent of health inspection score
Fourth	85 percent of health inspection score

Note: The health inspection score includes points from deficiencies cited on the standard health inspection, complaint inspections, and infection control inspections during a given survey cycle.

CMS calculates a total weighted health inspection score for each facility (including any repeat revisits). Note that a lower survey score corresponds to fewer deficiencies and revisits, and thus better performance on the health inspection domain. In calculating the total weighted score, more recent surveys are weighted more heavily than earlier surveys. The most recent standard survey (rating cycle 1) is assigned a weighting factor of 3/4, and the second most recent standard survey (rating cycle 2) is assigned a weighted factor of 1/4. The individual weighted scores for each cycle are then summed (after including complaint surveys, focused infection control surveys, and revisit points) to create the total weighted health inspection score for each facility.

Complaint inspections and focused infection control surveys are assigned to a time period based on the 12-month period in which the complaint or infection control survey occurred. Complaint or focused infection control surveys that occurred within the most recent 12 months from when the data are uploaded receive a weighting factor of 3/4; those from 13-36 months ago have a weighting factor of 1/4. There are some deficiencies that appear on both standard and complaint inspections. To avoid potential double-counting, deficiencies that appear on complaint inspections that are conducted within 15 days of a recertification inspection (either prior to or after the recertification inspection) are counted only once. If the scope or severity differs between the two inspections, the highest scope-severity combination is used. Deficiencies cited on focused infection control surveys are treated slightly differently. If two or more infection control inspections cite the same deficiency within a 15-day period, all are included; however, if one or more of these deficiencies was also cited on a recertification survey and/or a complaint inspection within the same 15-day window, only the infection control citations are included. Points from complaint deficiencies and deficiencies cited on infection control surveys from a given period are added to the health inspection score before calculating revisit points, if applicable.

Facilities with only one standard health inspection are considered to have insufficient data to determine a health inspection rating and their rating is set to missing for the health inspection domain. For these facilities, no overall quality rating is assigned, and no ratings are reported for the staffing or QM domains even if data for these domains are available. *Care Compare* will display “Not Available” for these facilities.

Rating Methodology

Health inspections are based on federal regulations, which surveyors implement using national interpretive guidance and a federally specified survey process. Federal staff train state inspectors and oversee state performance. The federal oversight includes quality checks based on a 5 percent sample of the health inspections performed by states, in which federal inspectors either accompany state inspectors or replicate the inspection within 60 days of the state and then compare results. These control systems are designed to improve consistency in the survey process. Nonetheless there remains variation among states in both inspection process and outcomes. Such variation derives from many factors, including:

- ***Survey Management:*** Variation among states in the skill sets of inspectors, supervision of inspectors, and the inspection processes;
- ***State Licensure:*** State licensing laws set forth different expectations for nursing homes and affect the interaction between state enforcement and federal enforcement (for example, a few states conduct many complaint investigations based on state licensure, and issue citations based on state licensure rather than on the federal regulations);
- ***Medicaid Policy:*** Medicaid pays for the largest proportion of long-term care in nursing homes. Nursing home eligibility rules, payment, and other policies in the state-administered Medicaid program may be associated with differences in survey outcomes.

For the above reasons, CMS bases Five-Star quality ratings in the health inspection domain on the relative performance of facilities within a state. This approach helps control for variation among states. CMS determines facility ratings using these criteria:

- The top 10 percent (with the lowest health inspection weighted scores) in each state receive a health inspection rating of five stars.

- The middle 70 percent of facilities receive a rating of two, three, or four stars, with an equal number (approximately 23.33 percent) in each rating category.
- The bottom 20 percent receive a one-star rating.

Rating thresholds are re-calibrated each month so that the distribution of star ratings within states remains relatively constant over time. However, the rating for a given facility is held constant until there is a change in the weighted health inspection score for that facility, regardless of changes in the statewide distribution. Items that could change the health inspection score include the following:

- A new health inspection
- A complaint investigation or focused infection control survey that results in one or more deficiency citations
- A second, third, or fourth revisit
- Resolution of Informal Dispute Resolutions (IDR) or Independent Informal Dispute Resolutions (IIDR) resulting in changes to the scope and/or severity of deficiencies
- The “aging” of complaint and/or focused infection control deficiencies. Specifically, as noted above, findings from complaint and infection control surveys are assigned to a time period based on the 12-month period in which the survey occurred; thus, when a citation from a complaint or infection control survey ages into a different cycle, it receives less weight in the scoring process, resulting in a lower health inspection score and potentially a change in health inspection rating.

In the very rare case that a state or territory has fewer than five facilities upon which to generate the cut points, the national distribution of health inspection scores is used. Cut points for the health inspection ratings can be found in the Cut Point Table in the companion document to this Technical Users’ Guide: Five Star Quality Rating System State-Level Cut Point Tables available in the ‘downloads’ section at:

<https://www.cms.gov/medicare/provider-enrollment-and-certification/certificationandcompliance/fsqrs.html>.

Rating Methodology for Facilities with Abuse Citation(s) To make it easier for consumers to identify facilities with instances of non-compliance related to abuse, *Care Compare* includes an icon that identifies facilities that meet either of the following criteria:



- 1) Harm-level abuse citation in the most recent survey cycle: Facilities cited for abuse² where residents were found to be harmed (Scope/Severity of G or higher) on:
 - a. the most recent standard survey, **or**
 - b. on a complaint or focused infection control survey within the past 12 months.
- 2) Repeat abuse citations: Facilities cited for abuse where residents were found to be potentially harmed (Scope/Severity of D or higher) on:
 - a. the most recent standard survey **or**
 - b. on a complaint or focused infection control survey within the past 12 months, **and**

² Note that abuse is identified as having received a deficiency of any of these tags: F600 (Protect each resident from all types of abuse, such as physical, mental, sexual abuse, physical punishment, and neglect by anybody); F602 (Protect each resident from the wrongful use of the resident's belongings or money); F603 (Protect each resident from separation from other residents, his/her room, or confinement to his/her room).

- c. on the previous (i.e., second most recent) standard survey or
- d. on a complaint survey in the prior 12 months (i.e., from 13 to 24 months ago).

Nursing homes that receive the abuse icon have their health inspection rating capped at a maximum of two stars. Due to the methodology used to calculate the overall rating, the best overall rating a facility that receives the abuse icon can have is four stars. The abuse icon (and the cap on the health inspection rating) will be removed as of the first monthly website refresh following when a nursing home no longer meets the abuse icon criteria.

Staffing Domain

There is considerable evidence of a relationship between nursing home staffing levels and resident outcomes. The CMS Staffing Study³, among other research, found a clear association between nurse staffing ratios and nursing home quality of care. There is also a growing body of evidence on the relationship between staff turnover and resident outcomes, with higher turnover associated with poorer quality of care.⁴

The rating for staffing is based on six measures. Detailed specifications for each of these measures is provided below. The six measures are as follows:

- Case-mix adjusted total nursing hours per resident day (registered nurse (RN) + licensed practical nurse (LPN) + nurse aide hours) for a quarter averaged across all days (weekdays and weekends)
- Case-mix adjusted RN hours per resident day for a quarter, averaged across all days (weekdays and weekends)
- Case-mix adjusted total nursing hours per resident day (RN + LPN + nurse aide hours) for a quarter averaged across all weekend days (Saturdays and Sundays)
- The percentage of nursing staff that left the nursing home over a twelve-month period.
- The percentage of RNs that left the nursing home over a twelve-month period.
- The number of administrators that left the nursing home over a twelve-month period.

The source for reported staffing hours is the Payroll-Based Journal (PBJ) system.⁵ These data are submitted quarterly and are due 45 days after the end of each reporting period. Only data submitted and accepted by the deadline are used by CMS for staffing calculations and in the Five-Star Rating System. The resident census is based on a daily resident census measure that is calculated by CMS using MDS assessments.

³ Kramer AM, Fish R. "The Relationship Between Nurse Staffing Levels and the Quality of Nursing Home Care." Chapter 2 in Appropriateness of Minimum Nurse Staffing Ratios in Nursing Homes: Phase II Final Report. Abt Associates, Inc., Winter 2001.

⁴ Zheng Q, Williams CS, Shulman ET, White AJ. Association between staff turnover and nursing home quality - evidence from payroll-based journal data. *Journal of the American Geriatrics Society*. May 2022. doi:10.1111/jgs.17843

⁵ More detailed information about the PBJ system is available at: <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/NursingHomeQualityInits/Staffing-Data-Submission-PBJ.html>

Specifications for the nurse staffing level measures

The specific PBJ job codes that are used in the RN, LPN, and nurse aide hour calculations are:

- RN hours: Includes RN director of nursing (job code 5), registered nurses with administrative duties (job code 6), and registered nurses (job code 7).
- LPN hours: Includes licensed practical/licensed vocational nurses with administrative duties (job code 8) and licensed practical/vocational nurses (job code 9)
- Nurse aide hours: Includes certified nurse aides (job code 10), aides in training (job code 11), and medication aides/technicians (job code 12)

Note that the PBJ staffing data include both facility employees (full-time and part-time) and individuals under an organization (agency) contract or an individual contract. The PBJ staffing data do not include “private duty” nursing staff reimbursed by a resident or his/her family. Also not included are hospice staff and feeding assistants.

The daily resident census, used in the denominator of the reported nurse staffing ratios, is derived from MDS resident assessments and is calculated as follows:

1. Identify the reporting period (quarter) for which the census will be calculated (e.g., CY 2021 Q2: April 1–June 30, 2021).
2. Extract MDS assessment data for all residents of a facility beginning one year prior to the reporting period to identify all residents that *may* reside in the facility (i.e., any resident with an MDS assessment may still reside in the facility). For example, for the CY 2021 Q2 reporting period, extract MDS data from April 1, 2020 through June 30, 2021.
3. Identify discharged/deceased residents using the following criteria:
 - a) If a resident has an MDS Discharge assessment or Death in Facility tracking record, use the date reported on that assessment and assume that the resident no longer resides in the facility as of the date of discharge/death on the last assessment. In the case of discharges, if there is a subsequent admission assessment, then assume that the resident re-entered the nursing home on the entry date indicated on the entry assessment.
 - b) For any resident with an interval of 150 days or more with no assessments, assume the resident no longer resides in the facility as of the 150th day from the last assessment. (This assumption is based on the requirement for facilities to complete MDS assessments on all residents at least quarterly). If no assessment is present, assume the resident was discharged, but the facility did not transmit a Discharge assessment.

For any particular date, residents whose assessments do not meet the criteria in #3 above prior to that date are assumed to reside in the facility. The count of these residents is the census for that particular day.

MDS assessments for a given resident are linked using the Resident Internal ID. The Resident Internal ID is a unique number, assigned by the Internet Quality Improvement and Evaluation System (iQIES), which identifies a resident. The combination of state and Resident Internal ID uniquely identifies a resident. The following MDS items are used to define the Resident Internal ID:

- State ID
- Facility Internal ID

- Social Security Number (SSN)
- Last Name
- First Name
- Date of Birth
- Gender

Therefore, in order to achieve an accurate census, it is imperative that, in addition to having complete assessment data for each resident including Discharge assessment data, residents are assigned correct Resident Internal IDs. To facilitate this, providers must ensure that MDS items, in particular the items indicated above, are entered correctly on each assessment. Providers must also carefully monitor the Final Validation Report, generated upon MDS submission, for any errors. Providers should work with their State RAI Coordinator or State Automation Coordinator to correct any errors that arise during assessment submission. In addition to using their Final Validation Report to validate the file structure and data content of each successful MDS submission, providers can monitor their MDS data using additional reports. There are reports for MDS Census (provides the daily facility census counts and lists the IDs of the residents included in the daily census), Admissions, Discharges, Errors, and Daily Rosters, among others. Full descriptions of these reports are available in the CMS iQIES Reports User Manual at the following link: <https://qtso.cms.gov/software/iqies/reference-manuals>.

The nurse staffing hours reported through PBJ and the daily MDS census are both aggregated (summed) across the quarterly reporting period. The quarterly reported nurse staffing hours per resident day are then calculated by dividing the aggregate reported hours by the aggregate resident census. Only days that have at least one resident are included in the calculations. Total nurse staffing on the weekends is similarly calculated with both the numerator (reported nurse staffing hours) and the denominator (resident census) aggregated (summed) across all weekend days (Saturdays and Sundays) in the quarterly reporting period.

CMS uses a set of exclusion criteria to identify facilities with highly improbable PBJ staffing data and nurse staffing levels are not reported for these facilities (“Not Available” is displayed on the *Care Compare* website). Some of these nursing homes will also not receive a staffing rating; however, some will receive a one-star staffing rating due to scoring exceptions. The exclusion criteria are as follows:

- Total nurse staffing (job codes 5-12), aggregated over all days in the quarter with at least one resident, is zero (0 hours per resident per day).⁶
- Total nurse staffing (job codes 5-12), aggregated over all weekend days in the quarter with at least one resident, is zero (0 hours per resident per day).
- Total nurse staffing (job codes 5-12), aggregated over all days in the quarter with at least one resident, is excessively high (>12 hours per resident day).
- Total nurse staffing (job codes 5-12), aggregated over all weekend days in the quarter with at least one resident, is excessively high (>12 hours per resident day).
- Nurse aide staffing (job codes 10-12), aggregated over all days in the quarter with at least one resident, is excessively high (>5.25 hours per resident day).

⁶ Note that, prior to January 2022, nursing homes with total nurse staffing < 1.5 hours per resident day were excluded.

- Nurse aide staffing (job codes 10-12), aggregated over all weekend days in the quarter with at least one resident, is excessively high (>5.25 hours per resident day).

Case-Mix Adjustment

CMS adjusts the reported staffing ratios for case-mix, using the nursing Case-mix Groups (CMGs) and corresponding nursing Case-mix Indexes (CMIs) from the Patient-Driven Payment Model (PDPM)⁷. There are 25 nursing CMGs under the PDPM. The nursing CMIs⁸ are shown in Table A1. CMS calculates “case-mix hours”⁹ based on the distribution of nursing CMGs within each facility, PDPM nursing CMIs, and the reported national average staffing level.

CMS calculates case-mix adjusted hours per resident day for each facility for each staff type using this formula:

$$\text{Hours}_{\text{Adjusted}} = (\text{Hours}_{\text{Reported}} / \text{Hours}_{\text{Case-Mix}}) * \text{Hours}_{\text{National Average Case-Mix}}$$

The reported hours are those reported by the facility through PBJ as described above. National average hours for a given staff type represent the national mean of case-mix hours across all facilities active on the last day of the quarter that submitted valid nurse staffing data for the quarter. The National Average Hours are updated every quarter and will be available in the State US Averages table in the Provider Data Catalog on CMS.gov (<https://data.cms.gov/provider-data/>).

The case-mix values for each nursing home are based on the daily distribution of residents by PDPM nursing CMG in the quarter covered by the PBJ reported staffing and CMIs (see Table A1). Specifically, case-mix nurse staffing hours per resident day for a given nursing home are calculated as follows:

- 1) The MDS is used to assign a PDPM nursing CMG to each resident for each day in the quarter. The method is similar to that used for calculating the daily MDS census and is described below.
- 2) This information is aggregated to generate a count of residents in each of the 25 PDPM nursing CMGs in the nursing home for each day in the quarter. Nursing CMGs that are not represented on a given day are assigned a count of zero. Residents for whom there is insufficient MDS information to assign a nursing CMG are not included.
- 3) Weighted by the number of resident-days in each nursing CMG, the average Nursing CMI in the quarter is calculated for each nursing home. More specifically, it is calculated by dividing a nursing home’s aggregate nursing CMIs across nursing CMGs by the number of resident-days in the quarter.
- 4) Similarly, a national weighted-average nursing CMI is calculated using data from all nursing homes.
- 5) For each nursing home, a relative nursing CMI ratio is calculated as the ratio of its weighted-average nursing CMI to the national weighted-average nursing CMI.

⁷ <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/SNFPPS/PDPM>

⁸ These CMI values are based on the Fiscal Year 2024 Skilled Nursing Facility Prospective Payment System Final Rule (CMS – 1779-F, available at: <https://www.federalregister.gov/documents/2023/08/07/2023-16249/medicare-program-prospective-payment-system-and-consolidated-billing-for-skilled-nursing-facilities>)

⁹ Note that the term “case-mix hours” replaces the term “expected hours” that was used prior to April 2019.

- 6) For each nursing home, its case-mix staffing hours per resident day is calculated as:

$$\text{Case-mix hours (total nursing, RN, or weekend) per resident day} = \text{facility nursing CMI ratio} \times \text{national mean of reported hours per resident day}$$

To determine the number of residents in each PDPM Nursing CMG for each day of the quarter for each nursing home, the same algorithm is used as that used to generate the daily MDS census (with slight adjustment to count PDPM nursing CMGs specifically, instead of just counting residents):

- 1) Identify the reporting period (quarter) for which the PDPM nursing CMGs will be collected (e.g., CY 2024 Q1: January 1–March 31, 2024).
- 2) Extract MDS assessment data (including PDPM Nursing CMGs) for all residents of a facility beginning one year prior to the reporting period to identify all residents that may reside in the nursing home (i.e., any resident with an MDS assessment may still reside in the nursing home). For example, for the CY 2024 Q1 reporting period, MDS data from January 1, 2023 through March 31, 2024 were extracted.
- 3) Identify discharged/deceased residents using the following criteria:
 - a) If a resident has an MDS Discharge assessment or Death in Facility tracking record, use the date reported on that assessment and assume that the resident no longer resides in the nursing home as of the date of discharge/death on the last assessment. In the case of discharges, if there is a subsequent admission assessment, then assume that the resident re-entered the nursing home on the entry date indicated on the admission assessment.
 - b) For any resident with an interval of 150 days or more with no MDS assessments, assume the resident no longer resides in the nursing home as of the 150th day from the last assessment. (This assumption is based on the requirement for facilities to complete MDS assessments on all residents at least quarterly). If no assessment is present, it is assumed the resident was discharged, but the nursing home did not transmit a Discharge assessment.

For any particular date, residents whose assessments do not meet the criteria in #3 above prior to that date are assumed to reside in the nursing home. The PDPM nursing CMG assigned to those residents on their most recent assessments as of that date are used to determine the PDPM nursing CMG distribution for that nursing home on that date. The calculations of “case-mix”, “reported”, and “national average” hours are made separately for RNs and for all nursing staff (both for the full week and for weekends). Adjusted hours are also calculated for both groups using the formula provided earlier in this section.

A downloadable file that contains the “case-mix”, “reported” and “adjusted” hours used in the staffing calculations is included in the nursing home provider information data table available in the Provider Data Catalog on CMS.gov (<https://data.cms.gov/provider-data/>).

Specifications for Staff Turnover Measures

Three staff turnover measures are reported on the *Care Compare* website and included in the staffing rating: total nurse, registered nurse (RN), and nursing home administrator turnover.

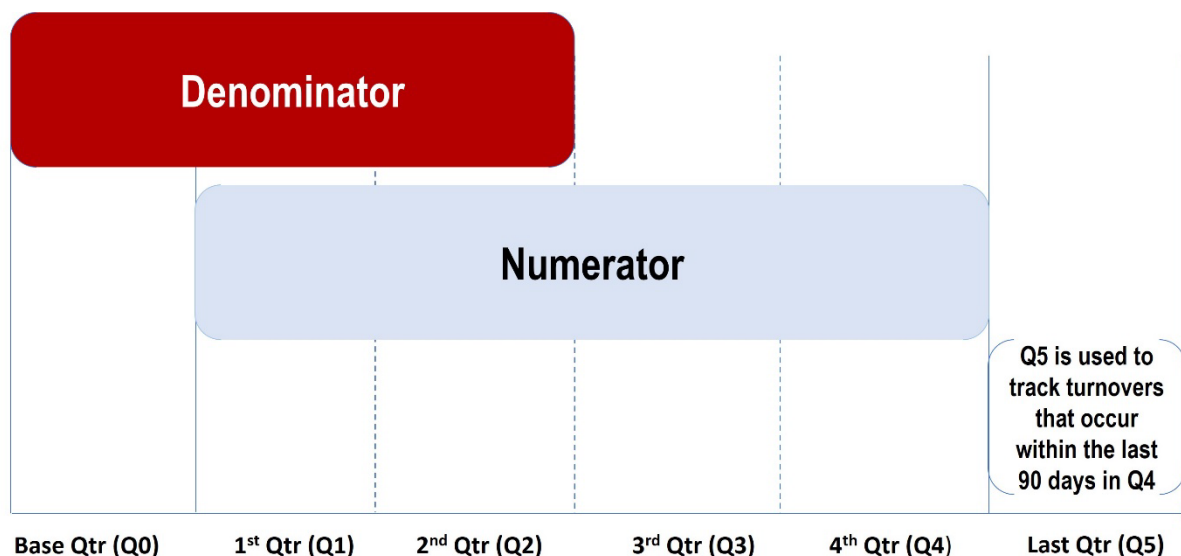
The turnover measures are derived based on data from the Centers for Medicare and Medicaid Services (CMS) Payroll-Based Journal (PBJ) System. Using data submitted through PBJ, annual turnover measures for RNs, total nurses (RNs, licensed practical/licensed vocational nurses (LPNs), and nurse aides), and nursing home administrators are constructed. The PBJ job codes included in turnover

measures for RNs and total nurses are consistent with those used for the staffing level measures reported on the [Medicare.gov Care Compare website](https://www.medicare.gov/care-compare). Specifically, below are the definitions that are used for the staff types included in the turnover measures:

- RNs: Includes RN director of nursing (job code 5), RNs with administrative duties (job code 6), and RNs (job code 7)
- Total Nurses: Includes RN director of nursing (job code 5), RNs with administrative duties (job code 6), RNs (job code 7), LPNs with administrative duties (job code 8), LPNs (job code 9), certified nurse aides (job code 10), aides in training (job code 11), and medication aides/technicians (job code 12)
- Nursing home administrators (job code 1)

Note that the calculation of the annual turnover measures requires six consecutive quarters of PBJ data (See Figure 1). Data from a baseline quarter (prior to the first quarter covered by the turnover measures) along with the first two quarters covered by the turnover measures are used for identifying employees who are eligible to be included in the turnover measure. Data from the quarter after the four-quarter period covered by the turnover measures are used to identify the gaps in days worked in the last 90 days of the fourth quarter used for the turnover measure.

Figure 1: Time Period Used for Calculating Turnover Measures



Staff turnover measures are constructed using the daily staffing information submitted through the PBJ system. Turnover is identified based on gaps in days worked, allowing the creation of a turnover measure that is defined the same way across all nursing homes and that does not depend on termination dates reported by nursing homes. Individuals are identified based on the employee system ID and nursing home identifiers in the PBJ data.

- **Denominator:** The turnover measures include only individuals who work at least 120 hours in the 90-day period starting from the first workday observed across the baseline quarter (the quarter prior to the first quarter used in the turnover calculation) and the first two quarters used in the turnover calculation. For example, the turnover calculation for calendar year 2021 includes in the denominator, individuals who worked 120 or more hours in the 90-day period with the first

workday of the 90-day period occurring in 2020Q4-2021Q2 (October 1, 2020 through June 30, 2021). This specification excludes individuals who work infrequently (e.g., occasionally covering shifts at a nursing home). Note that both regular employees and agency staff are included in the turnover measure if they work sufficient hours to be eligible for the denominator.

- **Numerator:** Individuals who no longer work at the nursing home are defined as eligible individuals who have a period of at least 90 consecutive days in which they do not work at all. The 90-day gap must start during the period covered by the turnover measure. This lengthy period without any reported work hours suggests that the individual is no longer working at the nursing home. For example, the numerator for turnover in 2023 includes eligible employees who had a 90-day gap that started anytime during the year. The turnover date is defined as the last workday prior to the start of the 90-day gap. Note that data from the quarter after the period covered by the turnover measure are required to identify gaps that start within 90 days of the end of the period covered by the turnover measure. For example, data from 2024Q1 are used to identify 90-day gaps that started between October 3, 2023 and December 31, 2023.

Note that individuals who return to the nursing home after a gap of more than 90 days can have multiple ‘employment spells’ used in the turnover calculation if they meet the eligibility requirement for subsequent employment spell(s). Essentially, they are treated as new employees.

- **Exclusions:** Several types of nursing-home level exclusion criteria are applied:
 - Nursing homes that failed to submit staffing data or submitted data that are considered invalid (using the current exclusion rules for the staffing domain) for one or more of the quarters used to calculate the turnover measures are excluded (see staffing domain section above for more details). Turnover measures will not be reported until the quarter(s) with missing or invalid data are no longer included in the turnover measure calculation period (six quarters). Additionally, if a nursing home has no resident census information (derived from MDS assessments and needed for the calculation of staffing levels), the nursing home is excluded. These are the same exclusion rules used for the nurse staffing measures described above. Additionally, nursing homes are excluded if they failed an audit of the PBJ staffing data for a reason that would impact turnover calculations for one of the covered quarters.
 - Nursing homes are excluded from the total nurse staffing and RN turnover measures if they have fewer than five eligible nurses (RNs, LPNs, and nurse aides) in the denominator. The purpose of this exclusion rule is to increase the stability of the turnover measures. Note that for the nursing home administrator turnover measure, the minimum requirement is one eligible administrator since most nursing homes have only one nursing home administrator.
 - For the total nurse staffing and RN turnover measures, nursing homes with 100 percent daily total nurse staffing turnover for any day in the six quarter period on which there were at least five eligible nurse staff are excluded. 100 percent daily turnover is typically the result of changes in the employee IDs used by nursing homes. Since gaps in days worked are identified based on the employee and nursing home IDs reported in the PBJ data, a change in employee IDs can result in a 100 percent turnover rate on a particular day (i.e., the day that the nursing home started using the new identifier), which reflects the change in the employee IDs and not actual staff turnover.

- For the administrator turnover measure, nursing homes that submitted no administrator data for one or more of the six required quarters are excluded.
- For the administrator turnover measure, nursing homes that submitted PBJ data suggesting an erroneously high number of administrators are excluded. Specifically, if a nursing home reports administrator hours (job code 1) for five or more individuals (based on employee IDs) on four or more days for one or more of the six required quarters, the administrator turnover measure will be excluded.
- **Turnover calculation:** Annual turnover measures are constructed. For the total nurse and RN turnover measures, the annual turnover percentage is calculated using this formula:

(Total number of employment spells that ended in turnover)/(Total number of eligible employment spells)

Using this specification, the maximum turnover rate is 100 percent.

Nursing home administrator turnover is measured as the total number of administrators that left the nursing home during the period covered by the turnover measures.

Scoring Rules for the Staffing Measures

Points are assigned to each of the six staffing measures. For five of the measures (all except administrator turnover), the points are determined based on deciles. For the staffing level measures, more points are assigned for higher case-mix adjusted staffing levels. For the turnover measures, more points are assigned for lower turnover. Weights for the measures (maximum possible points) are as follows:

- For **case-mix adjusted total nurse staffing** and **case-mix adjusted RN staffing**, a maximum of 100 points is assigned. Nursing homes are grouped into deciles based on the national distribution of each measure. Nursing homes in the lowest decile receive 10 points. Points are increased in 10-point increments so that nursing homes in the highest decile receive 100 points.
- For **case-mix adjusted total nurse staffing on the weekends**, a maximum of 50 points is assigned. Nursing homes are grouped into deciles based on the national distribution of each measure. Nursing homes in the lowest decile receive 5 points. Points are increased in 5-point increments so that nursing homes in the highest decile receive 50 points.
- For **total nurse turnover** and **RN turnover**, a maximum of 50 points is assigned. Nursing homes are grouped into deciles based on the national distribution of each measure. Nursing homes in the decile with the highest turnover receive 5 points. Points are increased in 5-point increments so that nursing homes in the decile with the lowest turnover receive 50 points.
- For **administrator turnover**, a maximum of 30 points is assigned. Nursing homes with no administrator departures during the measurement period receive 30 points; nursing homes with one administrator departure receive 25 points; and nursing homes with two or more administrator departures during the annual measurement period receive 10 points.

The cut points for each of the staffing measures are based on the national distribution of the measures including data through the first calendar quarter of 2024. These cut points are listed in Appendix Table A2.

For the turnover measures, nursing homes that fail to submit staffing data or submit erroneous data for one or more of the quarters used in the turnover calculation will receive the lowest score possible for the corresponding turnover measures (5 points for total nurse and RN turnover; 10 points for administrator

turnover). This scoring rule applies to all the turnover exclusions listed above except exclusions due to fewer than five eligible nurses or no eligible administrators.

Rating Methodology

Once points are assigned for each of the six staffing measures, these points are summed to provide a total staffing score for each nursing home. There is a maximum of 380 possible points. No staffing rating is assigned to nursing homes with reported nurse staffing levels for the quarter that are considered invalid according to the staffing level exclusion rules described previously. However, if a nursing home has valid data for the nurse staffing level measures but is missing scores for one or more of the turnover measures, a rating will be assigned based on the staffing level measures and any available turnover measures. These nursing homes will have a maximum possible score of less than 380 points; thus, their staffing score is rescaled according to the following formula:

Total staffing points for available measures X (380/maximum possible points based on available measures)

Note that this formula rescales a nursing home's score so that the rescaled score has a maximum of 380 points and is equivalent to assigning the nursing home's average points on the available measures to the measures that are missing. Also note that rescaling is not applicable to turnover measures that were assigned the lowest score possible because of missing or erroneous staffing data. After any necessary rescaling, the staffing rating is assigned based on the point thresholds shown in Table 3.

Table 3
Point Ranges for the Staffing Rating (maximum possible score = 380 points)

1 star	2 stars	3 stars	4 stars	5 stars
< 155	155 - 204	205 - 254	255 - 319	320 - 380

Note: These cut points are applied after any necessary rescaling of the staffing score to have a maximum possible value of 380 points. The rescaled score is rounded to the nearest integer. Cut points for each of the six measures that contribute to the total staffing Score are shown in Appendix Table A2.

Scoring Exceptions

The following are exceptions to the scoring rules (described previously) for assigning the staffing rating:

- Providers that fail to submit any staffing data by the required deadline will receive a one-star staffing rating for the quarter.
- Providers that submit staffing data indicating that there were four or more days in the quarter with no RN staffing hours (job codes 5-7) on days when there were one or more residents in the nursing home will receive a one-star staffing rating for the quarter.
- CMS conducts audits of nursing homes to verify the data submitted and to ensure accuracy. Facilities that fail to respond to these audits and those for which the audit identifies significant discrepancies between the hours reported and the hours verified will receive a one-star staffing rating for three months from the time at which the deadline to respond to audit requests passes or discrepancies are identified. If repeat audits identify the same discrepancy, the timeframe for the staffing rating downgrade may be extended.

Quality Measure Domain

A set of quality measures (QMs) has been developed from Minimum Data Set (MDS) and Medicare claims data to describe the quality of care provided in nursing homes. These measures address a broad range of function and health status indicators. Most nursing homes will have three QM ratings—an overall QM rating, a long-stay QM rating, and a short-stay QM rating. For nursing homes that have only long-stay or only short-stay QMs, the overall QM rating is equal to their long-stay or short-stay QM rating. QM ratings are based on performance on a subset of 10 MDS-based QMs and five measures that are created using Medicare claims. These measures were selected for use in the rating system based on their validity and reliability, the extent to which nursing home practice may affect the measures, statistical performance, and the importance of the measures.

Measures for Long-Stay residents (defined as residents who are in the nursing home for greater than 100 days) that are derived from MDS assessments:

- Percentage of long-stay residents whose need for help with daily activities has increased
- Percentage of long-stay residents whose ability to walk independently worsened
- Percentage of long-stay residents with pressure ulcers
- Percentage of long-stay residents who have or had a catheter inserted and left in their bladder
- Percentage of long-stay residents with a urinary tract infection
- Percentage of long-stay residents experiencing one or more falls with major injury
- Percentage of long-stay residents who got an antipsychotic medication

Measures for Long-Stay residents that are derived from claims data:

- Number of hospitalizations per 1,000 long-stay resident days
- Number of outpatient emergency department (ED) visits per 1,000 long-stay resident days

Measures for Short-Stay residents that are derived from MDS assessments:

- Percentage of Skilled Nursing Facility (SNF) residents who are at or above an expected ability to care for themselves and move around at discharge (discharge function score)
- Percentage of Skilled Nursing Facility (SNF) residents with pressure ulcers/pressure injuries that are new or worsened
- Percentage of short-stay residents who got antipsychotic medication for the first time

Measures for Short-Stay residents that are derived from claims data:

- Percentage of short-stay residents who were re-hospitalized after a nursing home admission
- Percentage of short-stay residents who have had an outpatient emergency department (ED) visit
- Rate of successful return to home and community from a SNF

Table 4 contains more detailed information on these measures. Technical specifications for all of the measures are available in the downloads section at <https://www.cms.gov/medicare/quality/nursing-home-improvement/quality-measures>.

Values for five of the MDS-based QMs (Percentage of long-stay residents whose ability to walk independently, Percentage of long-stay residents with pressure ulcers, Percentage of long-stay residents who have or had a catheter inserted and left in their bladder, Percentage of SNF residents who are at or above an expected ability to care for themselves and move around at discharge, and Percentage of SNF residents with pressure ulcers/pressure injuries that are new or worsened) are risk adjusted, using resident-level covariates that adjust for resident factors associated with differences in the performance on the QM. For example, the catheter risk-adjustment model takes into account whether or not residents had bowel incontinence or pressure sores on the prior assessment. All of the claims-based measures are risk adjusted. Risk-adjustment for the hospitalization and ED visit measures incorporates items from Medicare enrollment data and Part A claims and information from the first MDS assessment associated with the nursing home stay. Risk adjustment for the rate of successful return to home and community from a SNF measure uses data derived from Medicare enrollment data and Part A claims. The risk-adjustment methodology is described in more detail in the technical specification documents referenced above. CMS calculates ratings for the QM domain using the **four** most recent quarters for which data are available (except the rate of successful return to home and community from a SNF that uses a two-year period). The time period specifications were selected to increase the number of assessments available for calculating the QM rating. This increases the stability of estimates and reduces the amount of missing data. The adjusted four-quarter QM values for each of the MDS-based QMs used in the five-star algorithm, except the short-stay pressure ulcer/injury measure and the short-stay discharge function score measure, are computed as follows:

$$QM_{4Quarter} = [(QM_{Q1} * D_{Q1}) + (QM_{Q2} * D_{Q2}) + (QM_{Q3} * D_{Q3}) + (QM_{Q4} * D_{Q4})] / (D_{Q1} + D_{Q2} + D_{Q3} + D_{Q4})$$

Where QM_{Q1} , QM_{Q2} , QM_{Q3} , and QM_{Q4} correspond to the adjusted QM values for the four most recent quarters and D_{Q1} , D_{Q2} , and D_{Q3} D_{Q4} are the denominators (number of eligible residents for the particular QM) for the same four quarters.

Values for the claims-based measures, the short-stay pressure ulcer/pressure injury measure, and the short-stay discharge function score measure are calculated in a similar manner, except that the data used to calculate the measures use a full year (or two years) of data rather than being broken out separately by quarter.

Table 4 Quality Measures Used in the Five-Star Quality Measure Rating Calculation

Measure	Comments
MDS Long-Stay Measures	
Percentage of residents whose ability to walk independently worsened	This measure reports the percentage of long-stay residents who experienced a decline in independence of locomotion during the target period. Loss of independence in locomotion increases risks of hospitalization, pressure ulcers, falls, musculoskeletal disorders, pneumonia, circulatory problems, constipation and reduced quality of life.

Table 4 Quality Measures Used in the Five-Star Quality Measure Rating Calculation

Measure	Comments
Percentage of residents whose need for help with daily activities has increased	This measure reports the percentage of long-stay residents whose need for help with late-loss Activities of Daily Living (ADLs) has increased when compared to the prior assessment. This is a change measure that reflects worsening performance on at least two late loss ADLs by one functional level or on one late loss ADL by more than one functional level compared to the prior assessment. The late loss ADLs are bed mobility, transfer, eating, and toileting.
Percentage of residents with pressure ulcers	This measure captures the percentage of long-stay residents with Stage II-IV or unstageable pressure ulcers.
Percentage of residents who have/had a catheter inserted and left in their bladder	This measure reports the percentage of residents who have had an indwelling catheter in the last seven days. Indwelling catheter use may result in complications, like urinary tract or blood infections, physical injury, skin problems, bladder stones, or blood in the urine.
Percentage of residents with a urinary tract infection	This measure reports the percentage of long-stay residents who have had a urinary tract infection within the past 30 days.
Percentage of residents experiencing one or more falls with major injury	This measure reports the percentage of long-stay residents who have experienced one or more falls with major injury reported in the target period or look-back period (one full calendar year).
Percentage of residents who got an antipsychotic medication	This measure reports the percentage of long-stay residents who are receiving antipsychotic drugs in the target period. Reducing the rate of antipsychotic medication use has been the focus of several CMS initiatives. Note that this measure was respecified in January 2026 to include Medicare and Medicaid claims and encounter data, in addition to MDS data.
Claims-Based Long-Stay Measures	
Number of hospitalizations per 1,000 resident days	This measures the number of unplanned inpatient admissions or outpatient observation stays that occurred among long-stay residents of a nursing home during a one-year period, expressed as the number of unplanned hospitalizations for every 1,000 days that the long-stay residents were admitted to the nursing home.
Number of outpatient emergency department (ED) visits per 1,000 resident days	This measures the number of outpatient ED visits that occurred among long-stay residents of a nursing home during a one-year period, expressed as the number of outpatient ED visits for every 1,000 days that the long-stay residents were admitted to the nursing home.
MDS Short-Stay Measures	
Percentage of SNF residents who are at or above an expected ability to care for themselves and move around at discharge	This measure reports the percentage of short-stay residents who are at or above an expected ability to care for themselves and move around at discharge.

Table 4 Quality Measures Used in the Five-Star Quality Measure Rating Calculation

Measure	Comments
Percentage of SNF residents with pressure ulcers/pressure injuries that are new or worsened	This measure captures the percentage of short-stay residents with pressure ulcers that are new or whose existing pressure ulcers worsened during their stay in the SNF and includes unstageable ulcers.
Percentage of residents who antipsychotic medication for the first time	This measure reports the percentage of short-stay residents who are receiving an antipsychotic medication during the target period but not on their initial assessment.
Claims-Based Short-Stay Measures	
Percentage of short-stay residents who were re-hospitalized after a nursing home admission	This measure reports the percentage of all new admissions or readmissions to a nursing home from a hospital where the resident was re-admitted to a hospital for an inpatient or observation stay within 30 days of entry or reentry.
Percentage of short-stay residents who have had an outpatient emergency department (ED) visit	This measure reports the percentage of all new admissions or readmissions to a nursing home from a hospital where the resident had an outpatient ED visit (i.e., an ED visit not resulting in an inpatient hospital admission) within 30 days of entry or reentry.
Rate of successful return to home and community from a SNF	This measure reports the rate at which residents returned to home and community with no unplanned hospitalizations and no deaths in the 31 days following discharge from the SNF.

Missing Data and Imputation

MDS-based measures are reported if the measure can be calculated for at least 20 residents' assessments (summed across **four** quarters of data to enhance measurement stability) for both the long- and short-stay QMs. The short-stay claims-based measures are reported if the measure can be calculated for at least 20 nursing home stays over the course of the year. The long-stay claims-based measures are reported if the measure can be calculated for at least 20 nursing home stays over the course of the year.

For facilities with missing data or an inadequate denominator size for one or more QMs meeting the criteria described below, all available data from the nursing home are used. The remaining assessments (or stays) are imputed to get the nursing home to the minimum required sample size of 20. Missing values are imputed based on the statewide average for the measure. For example, if a nursing home had actual data for 12 resident assessments, the data for those 12 assessments would be used and the remaining eight assessments would be imputed using the state average to get to the minimum sample size required to include the measure in the scoring for the QM rating. The imputation strategy for the missing values depends on the pattern of missing data.

- For facilities that have an adequate denominator size for at least five of the nine long-stay QMs, values are imputed for the long-stay measures with fewer than 20 assessments or residents as described above. Points are then assigned for all nine long-stay QMs according to the scoring rules described below.
- For facilities that have an adequate denominator size for at least four of the six short-stay QMs, values are imputed for the short-stay measures with smaller denominators as described above. Points are then assigned for all six short-stay QMs according to the scoring rules described below.

- For facilities that do not have an adequate denominator size for at least five long-stay QMs but that have an adequate denominator size for four or more short-stay QMs, the QM rating is based on the short-stay measures only. Values for the missing long-stay QMs are not imputed. No long-stay QM rating is reported, and no long-stay measures are used in determining the overall QM rating.
- Similarly, for facilities that do not have an adequate denominator size for at least four short-stay QMs but that have an adequate denominator size for five or more long-stay QMs, the QM rating is based on the long-stay measures only. Values for the missing short-stay QMs are not imputed. No short-stay QM rating is reported, and no short-stay measures are used in determining the overall QM rating.

Note that while values are imputed according to the rules described above for the purposes of assigning points for the QM score, data for QMs that use imputed data are not reported on the *Care Compare* website nor included in the downloadable databases available at <https://data.cms.gov/provider-data/>. QM values are publicly reported only for providers meeting the minimum denominator requirements prior to any imputation.¹⁰

Scoring Rules for the Individual QMs

Two different sets of weights are used for assigning QM points to individual QMs. Some measures have a maximum score of 150 points while the maximum number of points for other measures is 100. The weight for each measure was determined based on the opportunity for nursing homes to improve on the measure and the clinical significance of the measure based on expert feedback. For measures that have a maximum score of 150 points, the points are determined based on deciles. Quintiles are used for measures that have a maximum score of 100 points. For all measures, points are calculated based on performance relative to the national distribution of the measure. Points are assigned after any needed imputation of individual QM values, with the points determined using this methodology:

- For long-stay ADL worsening, long-stay antipsychotic medication, long-stay mobility decline, the two claims-based long-stay measures, the short-stay discharge function score measure, and the three claims-based short-stay measures: nursing homes are grouped into deciles based on the national distribution of the QM. Nursing homes in the lowest performing decile receive 15 points for the measure. Points are increased in 15-point intervals for each decile so that nursing homes in the highest performing decile receive 150 points.
- For long-stay pressure ulcer, long-stay catheter, long-stay urinary tract infections, long-stay falls, short-stay pressure ulcer/pressure injury, and short-stay antipsychotic medication: nursing homes are grouped into quintiles based on the national distribution of the QM. The quintiles are assigned 20 points for the lowest performing quintile, 100 points for the highest performing quintile, and 40, 60 or 80 points for the second, third and fourth quintiles, respectively.
- For two 100-point measures that have more than 20 percent of nursing homes with a QM value of 0 (short-stay pressure ulcers/injuries and short-stay antipsychotic measures), all nursing homes with a QM value of 0 are awarded 100 points, and the remaining nursing homes are divided to maintain as close to even quintiles as possible.

¹⁰ Note that for the rate of successful return to home and community from a SNF, the minimum sample size for publicly reporting the measure is 25.

Note that, for all of the measures, the groupings are based on the national distribution of the QMs, prior to any imputation. The points associated with each individual QM are listed in Appendix Table A3. The footnote of Appendix Table A3 describes the data collection periods used for setting the cut points for each measure.

Quality Measures with a maximum score of 150 points:

Long-stay

Percentage of residents whose need for help with daily activities increased
Percentage of residents who received an antipsychotic medication
Percentage of residents whose ability to walk independently worsened
Number of hospitalizations per 1,000 resident days
Number of outpatient emergency department (ED) visits per 1,000 resident days

Short-stay

Percentage of SNF residents who are at or above an expected ability to care for themselves and move around at discharge
Rate of successful return to home and community from a SNF
Percentage of short-stay residents who were re-hospitalized after a nursing home admission
Percentage of short-stay residents who have had an outpatient emergency department (ED) visit

Quality Measures with maximum score of 100 points:

Long-stay

Percentage of residents experiencing one or more falls with major injury
Percentage of residents with pressure ulcers
Percentage of residents with a urinary tract infection
Percentage of residents who have or had a catheter inserted and left in their bladder

Short-stay

Percentage of residents who got an antipsychotic medication for the first time
Percentage of SNF residents with pressure ulcers/pressure injuries that are new or worsened

Scoring Exceptions

CMS conducts audits of schizophrenia coding in the MDS. Facilities that have coding inaccuracies identified through these audits have their QM ratings adjusted as follows:

- The overall QM and long-stay QM ratings are downgraded to one star for six months (Note that this drops the facility's overall star rating by one star). For months 7-12, the facility will receive the minimum number of points for the long-stay antipsychotic QM.
- The short-stay QM rating is suppressed for six months.
- The long-stay antipsychotic QM is suppressed for 12 months.

Note: The lifting of the downgrade and/or suppression at the timeframes above are subject to CMS verifying the issues have been corrected.

For facilities that admit miscoding after being notified by CMS that the facility will be audited, but prior to the start of the audit, CMS will consider a lesser action related to their star ratings than those listed above, such as suppression of the QM ratings (rather than downgrade).

Rating Methodology

After any needed imputation for individual QMs, points are summed across all of the long-stay QMs, all of short-stay QMs, as well as across all QMs based upon the scoring rules described above to create a long-stay QM score, a short-stay QM score, and a total QM score for each nursing home. The long-stay QM score ranges between 155 and 1,150. Due to differences in number of measures and weights, the *unadjusted* short-stay QM score has a maximum of 800 points. So that the long- and short-stay measures can count equally in the calculation of the total QM score, an adjustment factor of 1,150/800 is applied to the unadjusted total short-stay score. After applying this adjustment, the adjusted short-stay score ranges from 144 to 1,150.¹¹ The total overall QM score, which sums the total long-stay score and the total adjusted short-stay score, ranges between 299 and 2,300.

Facilities that receive an overall QM rating are in one of the following categories:

- They have points for all of the QMs.
- They have points for only the nine long-stay QMs (long-stay facilities).
- They have points for only the six short-stay QMs (short-stay facilities).
- They do not have sufficient data for either the long-stay or the short-stay QMs. No QM ratings are generated for these nursing homes.

Once the long-stay, short-stay, and overall QM scores are computed for each nursing home as described above, a long-stay QM rating is assigned to nursing homes that have long-stay QM scores; a short-stay QM rating is assigned to nursing homes that have short-stay QM scores, and an overall QM star rating is assigned using the methodology previously described using the point thresholds shown in Table 5. CMS plans to raise these thresholds every six months by 50% of the increase in scores over that time period.

Table 5
Point Ranges for the QM Ratings (as of *July 2026*)

QM Rating	Long-Stay QM Rating Thresholds	Short-Stay QM Rating Thresholds	Overall QM Rating Thresholds
★	155– 484	144– 442	299– 927
★★	485 – 589	443 – 530	928 – 1,120
★★★	590 – 667	531 – 631	1,121 – 1,299
★★★★	668 – 766	632 – 726	1,300 – 1,493
★★★★★	767 –1,150	727 –1,150	1,494 –2,300

Note: the short-stay QM rating thresholds are based on the adjusted scores (after applying the factor of 1,150/800 to the unadjusted scores)

¹¹ The unadjusted total short-stay score ranges from 100 to 800.

Overall Nursing Home Rating (Composite Measure)

Based on the star ratings for the health inspection domain, the staffing domain and the quality measure domain, CMS assigns the overall Five-Star rating in three steps:

Step 1: Start with the health inspection rating.

Step 2: Add one star to the Step 1 result if the staffing rating is five stars; subtract one star if the staffing rating is one star. The overall rating cannot be more than five stars or less than one star.

Step 3: Add one star to the Step 2 result if the quality measure rating is five stars; subtract one star if the quality measure rating is one star. The overall rating cannot be more than five stars or less than one star.

Note: If the health inspection rating is one star, then the overall rating cannot be upgraded by more than one star based on the staffing and quality measure ratings.

The rationale for limiting star rating upgrades is that the staffing and quality measure domains should not significantly outweigh the rating from actual onsite visits from trained surveyors who may have found very serious quality of care problems. Since the health inspection rating is heavily weighted toward the most recent findings, a health inspection rating of one star reflects both a serious and recent finding.

The method for determining the overall nursing home rating does not assign specific weights to the health inspection, staffing, and QM domains. The health inspection rating is the most important dimension in determining the overall rating; however, depending on the performance on the staffing and QM domains, the overall rating for a nursing home may be increased or decreased by up to two stars.

If a nursing home has no health inspection rating, then no overall rating is assigned. If a nursing home has no health inspection rating because it is too new to have two standard surveys, then no ratings for any domain are displayed.

Special Focus Facilities

Nursing homes that are current participants in the Special Focus Facility (SFF) program will not be assigned overall ratings or ratings in any domain. A yellow warning sign is displayed instead of the overall rating and “Not Available” is displayed in place of the ratings for all other domains.



Change in Nursing Home Rating

Facilities may see a change in their overall rating for a number of reasons. Since the overall rating is based on three individual domains, a change in any one of the domains can affect the overall rating. Any new data for a nursing home could potentially change a star rating domain.

Health inspection rating changes: Events that could change the health inspection score include:

- A new health inspection.
- New complaint deficiencies.
- New focused infection control survey deficiencies.

- A second, third, or fourth revisit.
- Resolution of Informal Dispute Resolutions (IDR) or Independent Informal Dispute Resolutions (IIDR) resulting in changes to the scope and/or severity of deficiencies.
- The “aging” of complaint and focused infection control survey deficiencies. Another reason the health inspection data (and therefore the rating) for a nursing home may change is the “aging” of one or more complaint or focused infection control survey deficiencies. Specifically, these citations are assigned to a time period based on the 12-month period in which the complaint investigation or focused infection control survey occurred. Thus, when a complaint or focused infection control survey deficiency ages into a prior period, it receives less weight in the scoring process and thus the weighted health inspection score may change and be compared to the state distribution at that time.
- If a nursing home newly qualifies for the abuse icon, the health inspection rating is capped at two stars, and this may cause a change in the overall rating. Similarly, when a nursing home no longer qualifies for the abuse icon, the health inspection rating may change.

Health inspection data will be included as soon as they become part of the CMS database. The timing for this can vary by state and depends on having the complete survey package for the State Survey Agency to upload to the national database. Additional inspection data may be added to the database at any time because of complaint investigations, outcomes of revisits, Informal Dispute Resolutions (IDR), or Independent Informal Dispute Resolutions (IIDR). These data may not be added in the same cycle as the standard inspection data.

Since the cut-points between star categories for the health inspection rating are based on percentile distributions that are not fixed, those cut-points may vary slightly depending on the current nursing home distribution in the database. However, while the cut-points for the health inspection ratings may change from month to month, the rating for a given facility is held constant until there is a change in the weighted health inspection score for that nursing home.

Staffing rating changes: PBJ staffing data are reported quarterly, so new staffing measures and ratings are calculated and posted quarterly. Changes in a nursing home’s staffing measure or rating may be due to differences in the number of hours submitted for staff, changes in the daily census, changes in resident case-mix from the previous quarter, or changes in staff turnover. Additionally, the audit process may lead to a change in the staffing rating for a facility.

Quality Measure rating changes: Data for the MDS-based QMs and the claims-based hospitalization and ED visit measures are updated quarterly, and the QM rating is updated at the same time. The updates typically occur in January, April, July, and October at the time of the *Care Compare* website refresh. Changes in the quality measures may change the star ratings.

Appendices

Table A1
PDPM Nursing Case-Mix Indexes by Nursing CMG

Nursing CMG	Nursing CMI
ES3	3.84
ES2	2.90
ES1	2.77
HDE2	2.27
HDE1	1.88
HBC2	2.12
HBC1	1.76
LDE2	1.97
LDE1	1.64
LBC2	1.63
LBC1	1.35
CDE2	1.77
CDE1	1.53
CBC2	1.47
CA2	1.03
CBC1	1.27
CA1	0.89
BAB2	0.98
BAB1	0.94
PDE2	1.48
PDE1	1.39
PBC2	1.15
PA2	0.67
PBC1	1.07
PA1	0.62

Source: Fiscal Year 2024 SNF PPS Final Rule (<https://www.federalregister.gov/documents/2023/08/07/2023-16249/medicare-program-prospective-payment-system-and-consolidated-billing-for-skilled-nursing-facilities>)

Table A2
Ranges for Point Values for Staffing Measures¹

Staffing Measure	Points	Min	Max
Adjusted RN Staffing (Hours per Resident per Day)	100	1.202	Or higher
	90	0.934	1.201
	80	0.786	0.933
	70	0.678	0.785
	60	0.591	0.677
	50	0.513	0.590
	40	0.440	0.512
	30	0.368	0.439
	20	0.275	0.367
	10	0.000	0.274
Adjusted Total Nurse Staffing (Hours per Resident per Day)	100	5.070	Or higher
	90	4.499	5.069
	80	4.151	4.498
	70	3.910	4.150
	60	3.692	3.909
	50	3.493	3.691
	40	3.293	3.492
	30	3.051	3.292
	20	2.722	3.050
	10	0.000	2.721
Adjusted Total Nurse Staffing on weekends (Hours per Resident per Day)	50	4.464	Or higher
	45	3.958	4.463
	40	3.668	3.957
	35	3.429	3.667
	30	3.233	3.428
	25	3.044	3.232
	20	2.862	3.043
	15	2.637	2.861
	10	2.354	2.636
	5	0.000	2.353

Staffing Measure	Points	Min	Max
RN Turnover (%)	50	0.000	20.000
	45	20.001	28.571
	40	28.572	35.714
	35	35.715	41.667
	30	41.668	44.444
	25	44.445	52.941
	20	52.942	60.000
	15	60.001	66.667
	10	66.668	80.000
	5	80.001	100.000
Total Nurse Turnover (%)	50	0.000	31.126
	45	31.127	37.500
	40	37.501	41.739
	35	41.740	45.679
	30	45.680	49.254
	25	49.255	53.425
	20	53.426	57.692
	15	57.693	62.791
	10	62.792	69.792
	5	69.793	100.000
Number of Administrator Departures	30	0	0
	25	1	1
	10	2	Or more

¹Cut points for the staffing level measures were originally set based on deciles of case-mix adjusted staffing for 2022Q1. Cut points for the total nurse and RN turnover measures were originally set based on deciles of turnover levels for calendar year 2021. The cut points were changed in July 2024 to ensure that the distributions by points were not affected by the new staffing case-mix adjustment methodology or the 90-day gap for turnover calculations.

Table A3
Ranges for Point Values for Quality Measures, Using Four Quarter Average Distributions¹

Quality Measure	Points	Min	Max
Percentage of SNF residents with pressure ulcers/pressure injuries that are new or worsened (short-stay)	100	0.0000	0.0000
	80	0.0001	0.0219
	60	0.0220	0.0395
	40	0.0396	0.0647
	20	0.0648	1.0000
Rate of successful return to home and community from a SNF (short-stay)	150	0.6336	1.0000
	135	0.5976	0.6335
	120	0.5697	0.5975
	105	0.5453	0.5696
	90	0.5173	0.5452
	75	0.4917	0.5172
	60	0.4609	0.4916
	45	0.4262	0.4608
	30	0.3763	0.4261
	15	0.0000	0.3762
Percentage of residents whose need for help with daily activities has increased (long-stay)	150	0.0000	0.0662
	135	0.0663	0.0966
	120	0.0967	0.1220
	105	0.1221	0.1463
	90	0.1464	0.1702
	75	0.1703	0.1961
	60	0.1962	0.2245
	45	0.2246	0.2574
	30	0.2575	0.3019
	15	0.3020	1.0000
Percentage of residents who have/had a catheter inserted and left in their bladder (long-stay)	100	0.0000	0.0050
	80	0.0051	0.0126
	60	0.0127	0.0217
	40	0.0218	0.0356
	20	0.0357	1.0000

Quality Measure	Points	Min	Max
Percentage of residents with a urinary tract infection (long-stay)	100	0.0000	0.0070
	80	0.0071	0.0160
	60	0.0161	0.0272
	40	0.0273	0.0452
	20	0.0453	1.0000
Percentage of residents experiencing one or more falls with major injury (long-stay)	100	0.0000	0.0134
	80	0.0135	0.0246
	60	0.0247	0.0356
	40	0.0357	0.0514
	20	0.0515	1.0000
Percentage of residents who got an antipsychotic medication (long-stay)	150	0.0000	0.0426
	135	0.0427	0.0682
	120	0.0683	0.0920
	105	0.0921	0.1140
	90	0.1141	0.1364
	75	0.1365	0.1613
	60	0.1614	0.1899
	45	0.1900	0.2264
	30	0.2265	0.2836
	15	0.2837	1.0000
Percentage of residents who got antipsychotic medication for the first time (short-stay)	100	0.0000	0.0000
	80	0.0001	0.0096
	60	0.0097	0.0168
	40	0.0169	0.0289
	20	0.0290	1.0000
Percentage of residents whose ability to walk independently worsened (long-stay)	150	0.0000	0.0830
	135	0.0831	0.1235
	120	0.1236	0.1559
	105	0.1560	0.1866
	90	0.1867	0.2168
	75	0.2169	0.2491
	60	0.2492	0.2845
	45	0.2846	0.3286
	30	0.3287	0.3904
	15	0.3905	1.0000
Percentage of residents with pressure ulcers (long-stay)	100	0.0000	0.0288
	80	0.0289	0.0445

Quality Measure	Points	Min	Max
	60	0.0446	0.0597
	40	0.0598	0.0797
	20	0.0798	1.0000
Percentage of SNF residents who are at or above an expected ability to care for themselves and move around at discharge (short-stay)	150	0.7074	1.0000
	135	0.6480	0.7073
	120	0.6035	0.6479
	105	0.5661	0.6034
	90	0.5301	0.5660
	75	0.4931	0.5300
	60	0.4498	0.4930
	45	0.3995	0.4497
	30	0.3309	0.3994
	15	0.0000	0.3308
Percentage of short-stay residents who were re-hospitalized after a nursing home admission (short-stay)	150	0.0000	0.1303
	135	0.1304	0.1555
	120	0.1556	0.1711
	105	0.1712	0.1845
	90	0.1846	0.1973
	75	0.1974	0.2096
	60	0.2097	0.2232
	45	0.2233	0.2381
	30	0.2382	0.2637
	15	0.2638	1.0000
Percentage of short-stay residents who have had an outpatient emergency department (ED) visit (short-stay)	150	0.0000	0.0409
	135	0.0410	0.0558
	120	0.0559	0.0665
	105	0.0666	0.0770
	90	0.0771	0.0866
	75	0.0867	0.0974
	60	0.0975	0.1093
	45	0.1094	0.1255
	30	0.1256	0.1489
	15	0.1490	1.0000

Quality Measure	Points	Min	Max
Number of hospitalizations per 1,000 resident days (long-stay)	150	0.0000	0.7179
	135	0.7180	0.9433
	120	0.9434	1.1024
	105	1.1025	1.2549
	90	1.2550	1.4058
	75	1.4059	1.5573
	60	1.5574	1.7184
	45	1.7185	1.9283
	30	1.9284	2.2685
	15	2.2686	1000.000
Number of outpatient emergency department (ED) visits per 1,000 resident days (long-stay)	150	0.0000	0.4741
	135	0.4742	0.6661
	120	0.6662	0.8288
	105	0.8289	0.9853
	90	0.9854	1.1590
	75	1.1591	1.3672
	60	1.3673	1.6026
	45	1.6027	1.9055
	30	1.9056	2.4707
	15	2.4708	1000.000

¹ Cut points for the hospitalization and ED visit measures were originally set based on deciles using data from 2017Q4-2018Q3. The cut-points were changed most recently in July 2025 to ensure that the distribution by points was not affected by changes to the risk-adjustment models for the claims-based measures. Cut points for the long-stay ADL, long-stay mobility decline, and long-stay pressure ulcer measures are based on data from 2023Q4-2024Q3. Cut points for the long-stay antipsychotic medication measure are based on data from 2024Q4-2025Q3. Cut points for the short-stay discharge function score measure are based on data from 2023Q2-2024Q1. Cut points for the short-stay pressure ulcer/pressure injury measure are based on data from 2019Q1–2019Q4. For all other MDS-based measures, cut points are based on data from 2017Q4–2018Q3. For the successful return to home and community from a SNF measure, points are based on data from 2016Q4 through 2017Q3.

Having a greater number of QM points corresponds to better performance. More points are awarded for having a lower QM rate for all measures except functional improvement and successful community discharge where higher rates correspond to better performance.