

Table 2-11
Percent of Residents Who Made Improvements in Function (SS)¹⁴
(CMS ID: N037.03) (NQF: None)

Measure Description
This measure reports the percentage of short-stay residents who were discharged from the nursing home that gained more independence in transfer, locomotion, and walking during their episodes of care.
Measure Specifications
<p>NOTE:</p> <ol style="list-style-type: none"> 1. A “valid preceding PPS 5-Day assessment or OBRA Admission assessment” refers to the date of the earliest assessment if a resident has both a PPS 5-Day assessment (A0310B = [01]) and an OBRA Admission assessment (A0310A = [01]). 2. A “valid discharge assessment” refers to a discharge assessment with a date closest to the valid preceding PPS 5-Day assessment or OBRA Admission assessment where a return is not anticipated (A0310F = [10]). 3. The PPS 5-Day assessment or OBRA Admission assessment should be used to calculate the tercile cutoffs. If resident has both a PPS 5-Day assessment and an OBRA Admission assessment, calculate covariate using the assessment with the earlier date. Terciles are recalculated in each quarter. <p>Numerator</p> <p>Short-stay residents who:</p> <ol style="list-style-type: none"> 1. Have a change in performance score that is negative ([valid discharge assessment] - [valid preceding PPS 5-Day assessment or OBRA Admission assessment] < [0]). <p>Performance is calculated as the sum of G0110B1 (transfer: self- performance), G0110E1 (locomotion on unit: self-performance), and G0110D1 (walk in corridor: self-performance), with 7's (activity occurred only once or twice) and 8's (activity did not occur) recoded to 4's (total dependence).</p> <p>Denominator</p> <p>Short-stay residents who meet all of the following conditions, except those with exclusions:</p> <ol style="list-style-type: none"> 1. Have a valid discharge assessment (A0310F = [10]), and 2. Have a valid preceding PPS 5-Day assessment (A0310B = [01]) or OBRA Admission assessment (A0310A = [01]).

¹⁴ This measure is used in the Five-Star Quality Rating System.

Measure Specifications Continued

Exclusions

1. Residents satisfying any of the following conditions:
 - 1.1. Comatose (B0100 = [1]) on the PPS 5-Day assessment or OBRA Admission assessment, whichever was used in the QM.
 - 1.2. Life expectancy of less than 6 months (J1400 = [1]) on the PPS 5-Day assessment or OBRA Admission assessment, whichever was used in the QM.
 - 1.3. Hospice (O0100K2 = [1]) on the PPS 5-Day assessment or OBRA Admission assessment, whichever was used in the QM.
 - 1.4. Information on Transfer: self-performance, walk in corridor: self-performance, or locomotion on unit: self-performance is missing on any of the assessments used to calculate the QM (G0110B1, G0110D1, or G0110E1 = [-]) (i.e., valid discharge assessment, and PPS 5-Day assessment or OBRA Admission assessment, whichever was used in the QM).
 - 1.5. Residents with no impairment (sum of G0110B1, G0110D1 and G0110E1 = [0]) on the PPS 5-Day assessment or OBRA Admission assessment, whichever was used in the QM.
 - 1.6. Residents with an unplanned discharge on any assessment during the care episode (A0310G = [2])

Covariates

All covariates used throughout this measure are calculated using the valid preceding PPS 5-Day assessment or OBRA Admission assessment described in the NOTE at the top of the measure specifications.

1. Age on the PPS 5-Day assessment (A0310B = [01]) **or** OBRA Admission assessment (A0310A = [01]) as calculated by subtracting date of birth (A0900) from the date of assessment (A2300)
If (MONTH(A2300) > MONTH(A0900)) **or** (MONTH(A2300) = MONTH(A0900) **and** DAY(A2300) >= DAY(A0900)) **then** Age = YEAR(A2300)-YEAR(A0900) **else** Age = YEAR(A2300)-YEAR(A0900)-1
 - 1.1 Covariate Age Category ≤ 54 = 1 if Age ≤ 54 **and** Covariate Age Category ≤ 54 = 0 if Age > 54)
 - 1.2 Covariate Age Category 54 to 84 = 1 if Age > 54 **and** ≤ 84 and Covariate Age Category 54 to 84 = 0 if Age ≤ 54 or Age > 84) (reference)
 - 1.3 Covariate Age Category > 84 = 1 if Age > 84 **and** Covariate Age Category > 84 = 0 if Age ≤ 84)
2. Gender
 - 2.1 Covariate = 1 if (A0800 = [2]) (Female)
 - 2.2 Covariate = 0 if (A0800 = [1]) (Male)
3. Severe cognitive impairment
 - 3.1 Covariate = 1 if (C1000 = [3] **and** C0700 = [1]) **or** BIMS summary score (C0500) ≤ [7]
 - 3.2 Covariate = 0 if (C1000 = [0, 1, 2, ^, -]) **or** C0700 = [0, ^, -]) **and** (C0500 = [>7, ^, -, 99])
 If Covariate has not been set to 1 or 0 based on logic in 3.1 and 3.2, then Covariate = [0].
4. Long Form ADL (LFADL) Scale (G0110A1 + G0110B1 + G0110E1 + G0110G1 + G0110H1 + G0110I1 + G0110J1). If any (G0110A1, G0110B1, G0110E1, G0110G1, G0110H1, G0110I1, G0110J1) = [7, 8], recode the item to equal [4].

Covariates Continued

- 4.1 Covariate = 0 if LFADL = (middle tercile¹⁵ or highest tercile) *or* if any (G0110A1, G0110B1, G0110E1, G0110G1, G0110H1, G0110I1, G0110J1) = [-]
Covariate = 1 if LFADL = lowest tercile
- 4.2 Covariate = 0 if (lowest tercile *or* highest tercile)
Covariate = 1 if LFADL = middle tercile (reference)
- 4.3 Covariate = 0 if (lowest tercile *or* middle tercile)
Covariate = 1 if LFADL = highest tercile
- 5. Heart failure
 - 5.1 Covariate = 1 if (I0600 = [1])
Covariate = 0 if (I0600 = [0, -])
- 6. CVA, TIA, or Stroke
 - 6.1 Covariate = 1 if (I4500 = [1])
Covariate = 0 if (I4500 = [0, -])
- 7. Hip Fracture
 - 7.1 Covariate = 1 if (I3900 = [1])
Covariate = 0 if (I3900 = [0, -])
- 8. Other Fracture
 - 8.1 Covariate = 1 if (I4000 = [1])
Covariate = 0 if (I4000 = [0, -])

¹⁵ Long Form ADL Scale terciles are recalculated in each quarter using the PPS 5-Day or OBRA Admission assessment.