

**Table 2-33**  
**Percent of Residents Whose Ability to Move Independently Worsened (LS)<sup>32</sup>**  
**(CMS ID: N035.03) (NQF: None)**

Measure Description
This measure reports the percent of long-stay residents who experienced a decline in independence of locomotion during the target period.
Measure Specifications
<p><b><i>Numerator</i></b></p> <p>Long-stay residents with a selected target assessment and at least one qualifying prior assessment who have a decline in locomotion when comparing their target assessment with the prior assessment. Decline identified by:</p> <ol style="list-style-type: none"> <li>1. Recoding all values (G0110E1 = [7, 8]) to (G0110E1 = [4]).</li> <li>2. An increase of one or more points on the “locomotion on unit: self-performance” item between the target assessment and prior assessment (G0110E1 on target assessment – G0110E1 on prior assessment ≥ 1).</li> </ol> <p><b><i>Denominator</i></b></p> <p>Long-stay residents who have a qualifying MDS 3.0 target assessment and at least one qualifying prior assessment, except those with exclusions.</p> <p><b><i>Exclusions</i></b></p> <p>Residents satisfying any of the following conditions:</p> <ol style="list-style-type: none"> <li>1. Comatose or missing data on comatose (B0100 = [1, -]) at the prior assessment.</li> <li>2. Prognosis of less than 6 months at the prior assessment as indicated by: <ol style="list-style-type: none"> <li>2.1. Prognosis of less than six months of life (J1400 = [1]), <b>or</b></li> <li>2.2. Hospice use (O0100K2 = [1]), <b>or</b></li> <li>2.3. Neither indicator for being end-of-life at the prior assessment (J1400 ≠ [1] <b>and</b> O0100K2 ≠ [1]) <b>and</b> a missing value on either indicator (J1400 = [-] <b>or</b> O0100K2 = [-]).</li> </ol> </li> <li>3. Resident totally dependent during locomotion on prior assessment (G0110E1 = [4, 7, <b>or</b> 8]).</li> <li>4. Missing data on locomotion on target <b>or</b> prior assessment (G0110E1 = [-]).</li> <li>5. Prior assessment is a discharge with or without return anticipated (A0310F = [10, 11]).</li> <li>6. No prior assessment is available to assess prior function.</li> </ol>

<sup>32</sup> This measure is used in the Five-Star Quality Rating System.

## Measure Specifications Continued

6.1. Target assessment is an OBRA Admission assessment (A0310A = [01]), a PPS 5-Day assessment (A0310B = [01]), or the first assessment after an admission (A0310E = [1]).

### Covariates

Covariates used to risk-adjust this measure include:

1. Eating (self-performance) from prior assessment
  - 1.1 Needs Help Covariate = 1 if (G0110H1 = [2, 3]) **and** Covariate = 0 if (G0110H1 = [-, 0, 1, 4, 7, 8]).
  - 1.2 Dependence Covariate = 1 if (G0110H1 = [4,7,8]) **and** Covariate = 0 if (G0110H1 = [-, 0,1,2,3]).
2. Toileting (self-performance) from prior assessment
  - 2.1 Needs Help Covariate = 1 if (G0110I1 = [2, 3]) **and** Covariate = 0 if (G0110I1 = [-, 0, 1, 4, 7, 8]).
  - 2.2 Dependence Covariate = 1 if (G0110I1 = [4,7,8]) **and** Covariate = 0 if (G0110I1 = [-, 0,1,2,3]).
3. Transfer (self-performance) from prior assessment
  - 3.1 Needs Help Covariate = 1 if (G0110B1 = [2,3]) **and** Covariate = 0 if (G0110B1 = [-, 0, 1, 4, 7, 8]).
  - 3.2 Dependence Covariate = 1 if (G0110B1 = [4,7,8]) **and** Covariate = 0 if (G0110B1 = [-, 0,1,2,3]).
4. Walking in Corridor (self-performance) from prior assessment
  - 4.1 Independence Covariate = 1 if (G0110D1 = [0,1]) **and** Covariate = 0 if (G0110D1 = [-, 2, 3, 4, 7, 8]).
  - 4.2 Needs Some Help Covariate = 1 if (G0110D1 = [2]) **and** Covariate = 0 if (G0110D1 = [-, 0, 1, 3, 4, 7, 8]).
  - 4.3 Needs More Help Covariate = 1 if (G0110D1 = [3]) **and** Covariate = 0 if (G0110D1 = [-, 0, 1, 2, 4, 7, 8]).
5. Severe cognitive impairment from prior assessment
  - 5.1 Covariate = 1 if (C1000 = [3] **and** C0700 = [1]) **or** BIMS summary score (C0500 ≤ [7]).  
 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 5.1 and 5.2, then Covariate = [0].
6. Linear Age  
**If** (MONTH(A2300) > MONTH(A0900)) **or** (MONTH(A2300) = MONTH(A0900) **and** DAY(A2300) >= DAY(A0900)) **then** Linear Age = YEAR(A2300)-YEAR(A0900) **else** Linear Age = YEAR(A2300)-YEAR(A0900)-1
7. Gender
  - 7.1 Covariate = 1 if (A0800= [2]) (Female).  
 Covariate = 0 if (A0800= [1]) (Male).
8. Vision
  - 8.1 Covariate = 1 if B1000 change score >0 with change score calculated from B1000 on the prior assessment to B1000 on the latest assessment with non-missing after the prior assessment.  
 Covariate = 0 if either of the following criteria are met:

## Covariates Continued

- B1000 change score  $\leq 0$  with change score calculated from B1000 on the prior assessment to B1000 on the latest assessment with non-missing B1000 after prior assessment.
- B1000 is not missing on the prior assessment, B1000 is missing on the target assessment, and no intermediate assessment has a non-missing value for B1000.

If Covariate has not been set to 1 or 0 based on logic in 8.1 and 8.2, then Covariate = [0].

### 9. Oxygen use

9.1 Covariate = 1 where (O0100C2 = [0]) on prior and (O0100C2 = [1]) on the latest assessment with non-missing O0100C2 after prior assessment.

Covariate = 0 if (O0100C2 = [0]) on the latest assessment with non missing O0100C2 after prior assessment or

- O0100C2 is not missing on the prior assessment, O0100C2 is missing on the target assessment, and no intermediate assessment has a non-missing value for O0100C2.

If Covariate has not been set to 1 or 0 based on logic in 9.1, then Covariate = [0].

10. All covariates are missing if no prior assessment is available.