

NATIONAL QUALITY FORUM

Measure Evaluation 4.1 December 2009

This form contains the measure information submitted by stewards. Blank fields indicate no information was provided. Attachments also may have been submitted and are provided to reviewers. The subcriteria and most of the footnotes from the evaluation criteria are provided in Word comments within the form and will appear if your cursor is over the highlighted area. Hyperlinks to the evaluation criteria and ratings are provided in each section.

TAP/Workgroup (if utilized): Complete all **yellow highlighted** areas of the form. Evaluate the extent to which each subcriterion is met. Based on your evaluation, summarize the strengths and weaknesses in each section.

Note: *If there is no TAP or workgroup, the SC also evaluates the subcriteria (yellow highlighted areas).*

Steering Committee: Complete all **pink** highlighted areas of the form. Review the workgroup/TAP assessment of the subcriteria, noting any areas of disagreement; then evaluate the extent to which each major criterion is met; and finally, indicate your recommendation for the endorsement. Provide the rationale for your ratings.

Evaluation ratings of the extent to which the criteria are met

- C = Completely (unquestionably demonstrated to meet the criterion)
- P = Partially (demonstrated to partially meet the criterion)
- M = Minimally (addressed BUT demonstrated to only minimally meet the criterion)
- N = Not at all (NOT addressed; OR incorrectly addressed; OR demonstrated to NOT meet the criterion)
- NA = Not applicable (only an option for a few subcriteria as indicated)

(for NQF staff use) NQF Review #: NH-003-10	NQF Project: Nursing Homes 2010
MEASURE DESCRIPTIVE INFORMATION	
De.1 Measure Title: Physical Therapy or Nursing Rehabilitation/Restorative Care for Long-stay Patients with New Balance Problem	
De.2 Brief description of measure: Percentage of long-stay nursing home patients 65 years old or older who have a new balance problem who receive physical therapy or nursing rehabilitation/restorative care	
1.1-2 Type of Measure: Process	
De.3 If included in a composite or paired with another measure, please identify composite or paired measure	
De.4 National Priority Partners Priority Area: Safety	
De.5 IOM Quality Domain: Safety	
De.6 Consumer Care Need: Living with illness	

CONDITIONS FOR CONSIDERATION BY NQF	
Four conditions must be met before proposed measures may be considered and evaluated for suitability as voluntary consensus standards:	NQF Staff
<p>A. The measure is in the public domain or an intellectual property (measure steward agreement) is signed. <i>Public domain only applies to governmental organizations. All non-government organizations must sign a measure steward agreement even if measures are made publicly and freely available.</i></p> <p>A.1 Do you attest that the measure steward holds intellectual property rights to the measure and the right to use aspects of the measure owned by another entity (e.g., risk model, code set)? Yes</p> <p>A.2 Indicate if Proprietary Measure (as defined in measure steward agreement):</p> <p>A.3 Measure Steward Agreement: Agreement will be signed and submitted prior to or at the time of measure submission</p> <p>A.4 Measure Steward Agreement attached:</p>	<p>A</p> <p>Y <input type="checkbox"/></p> <p>N <input type="checkbox"/></p>
B. The measure owner/steward verifies there is an identified responsible entity and process to maintain and	B

update the measure on a schedule that is commensurate with the rate of clinical innovation, but at least every 3 years. Yes, information provided in contact section	Y <input type="checkbox"/> N <input type="checkbox"/>
C. The intended use of the measure includes both public reporting and quality improvement. ► Purpose: Public reporting, Internal quality improvement	C Y <input type="checkbox"/> N <input type="checkbox"/>
D. The requested measure submission information is complete. Generally, measures should be fully developed and tested so that all the evaluation criteria have been addressed and information needed to evaluate the measure is provided. Measures that have not been tested are only potentially eligible for a time-limited endorsement and in that case, measure owners must verify that testing will be completed within 12 months of endorsement. D.1 Testing: Yes, fully developed and tested D.2 Have NQF-endorsed measures been reviewed to identify if there are similar or related measures? Yes	D Y <input type="checkbox"/> N <input type="checkbox"/>
(for NQF staff use) Have all conditions for consideration been met? Staff Notes to Steward (if submission returned):	Met Y <input type="checkbox"/> N <input type="checkbox"/>
Staff Notes to Reviewers (issues or questions regarding any criteria):	
Staff Reviewer Name(s):	

TAP/Workgroup Reviewer Name:	
Steering Committee Reviewer Name:	
1. IMPORTANCE TO MEASURE AND REPORT	
Extent to which the specific measure focus is important to making significant gains in health care quality (safety, timeliness, effectiveness, efficiency, equity, patient-centeredness) and improving health outcomes for a specific high impact aspect of healthcare where there is variation in or overall poor performance. <i>Measures must be judged to be important to measure and report in order to be evaluated against the remaining criteria.</i> (evaluation criteria) 1a. High Impact _____	Eval Rating
(for NQF staff use) Specific NPP goal:	
1a.1 Demonstrated High Impact Aspect of Healthcare: Leading cause of morbidity/mortality 1a.2 1a.3 Summary of Evidence of High Impact: Falls and mobility problems are common and serious problems facing older adults in the community and in nursing homes. Accidents are the fifth leading cause of death in older adults, with falls accounting for two-thirds of these accidental deaths (Rubenstein 1994). About one-third of those aged 65 and older living in the community fall at least once a year. This increases to one in two for those aged 80 and older (Blake 1988; O'Loughlin 2003). Although most falls result in no serious injury, in any given year, approximately 5% of these older fallers experience a fracture or require hospitalization (Rubenstein 1994). The related problems of mobility disorders are also prevalent in older adults. Detectable gait abnormalities affect 20% to 40% of individuals aged 65 and older and 40% to 50% of those aged 85 and older (Alexander 1996; Trueblood 1991). Falls are generally the result of multiple, diverse, and interacting etiologies. Several cohort studies have identified gait and balance disorders, functional impairment, visual deficits, cognitive impairment, and use of psychotropic medications as the most important risk factors for falling (Tromp 2001; Chu 2005; Tinetti 1988; Campbell 1989). Several studies have shown that the risk of falling increases dramatically as the number of risk factors increases. Three separate studies have reported that 65% to 100% of elderly individuals with three or more risk factors fell in a 12-month observation period, compared with 8% to 12% of persons with no risk factors (Rubenstein 1994); Nevitt 1997; Robbins 1989; Tinetti 1986).	1a C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/>

Comment [KP1]: 1a. The measure focus addresses:
 • a specific national health goal/priority identified by NQF's National Priorities Partners; OR
 • a demonstrated high impact aspect of healthcare (e.g., affects large numbers, leading cause of morbidity/mortality, high resource use (current and/or future), severity of illness, and patient/societal consequences of poor quality).

However, the quality of falls care in vulnerable older adults remains suboptimal. One study found that only 34% of recommended care for falls and mobility disorders was completed (Wenger 2003).

1a.4 Citations for Evidence of High Impact: Rubenstein LZ, Roggins AG, Josephson KR. Falls in the nursing home. *Ann Intern Med* 1994;121:442-451.

Blake AJ, Morgan K, Bendall MJ et al. Falls by elderly people at home: Prevalence and associated factors. *Age Ageing* 1988;17:365-472.

O'Loughlin JL, Robitaille Y, Boivin JF et al. Incidence of and risk factors for falls and injurious falls among the community-dwelling elderly. *Am J Epidemiol* 1993;137:342-354.

Alexander NB. Gait disorders in older adults. *J Am Geriatr Soc* 1996;44:434-451.

Trueblood PR, Rubenstein LZ. Assessment of instability and gait in elderly persons. *Compr Ther* 1991;17:20-29.

Tromp AM, Pluijm SM, Smit JH et al. Fall-risk screening test: A prospective study on predictors for falls in community-dwelling elderly. *J Clin Epidemiol* 2001;54:837-844.

Chu LW, Chi I, Chiu AY. Incidence and predictors of falls in the Chinese elderly. *Ann Acad Med Singapore* 2005;34:60-72.

Tinetti ME, Speechley M, Ginter SF. Risk factors for falls among elderly persons living in the community. *N Engl J Med* 1988;319:1701-1707.

Campbell AJ, Borrie MJ, Spears GF. Risk factors for falls in a community-based prospective study of people 70 years and older. *J Gerontol* 1989;44:M112-M117.

Nevitt MC. Falls in the elderly: Risk factors and prevention. In: Masdeu JC, Sudarsky L, Wolfson L, eds. *Gait Disorders of Aging*. Philadelphia: Lippincott-Raven, 1997, pp 13-36.

Robbins AS, Rubenstein LZ, Josephson KR et al. Predictors of falls among elderly people: Results of two population-based studies. *Arch Intern Med* 1989;149:628-633.

Tinetti ME, Williams TF, Mayewski R. Fall risk index for elderly patients based on number of chronic conditions. *Am J Med* 1986;80:429-34.

Wenger NS, Solomon DH, Roth CP et al. The quality of medical care provided to vulnerable community-dwelling older patients. *Ann Intern Med* 2003;139:740-47

1b. Opportunity for Improvement

1b.1 Benefits (improvements in quality) envisioned by use of this measure: Proactively treating balance problems can lead to a reduction in the number of falls and the related comorbidity and mortality.

1b.2 Summary of data demonstrating performance gap (variation or overall poor performance) across providers:

This quality measure was implemented in a population of nursing home patients. The sample included Individuals 65 years and older enrolled in both Medicare and Medicaid continually residing in nursing homes during at least 5 of the last 6 months of 1998 who were residing in 19 counties in California. Patients received Medicaid through the Aged/Blind/Disabled eligibility category. Assessments were made during 1999 through 2000. Data included MDS assessments (1998 to 2000), Medicare and Medicaid eligibility files, and Medicare and Medicaid fee-for-service claims. Of 21,657 dually enrolled nursing home patients 65 years and older living in nursing homes in 19 California counties, 1,219 were eligible for this quality indicator, but only 34% received recommended care. (Zingmond 2009)

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Comment [KP2]: 1b. Demonstration of quality problems and opportunity for improvement, i.e., data demonstrating considerable variation, or overall poor performance, in the quality of care across providers and/or population groups (disparities in care).

Comment [k3]: 1 Examples of data on opportunity for improvement include, but are not limited to: prior studies, epidemiologic data, measure data from pilot testing or implementation. If data are not available, the measure focus is systematically assessed (e.g., expert panel rating) and judged to be a quality problem.

1b.3 Citations for data on performance gap:

Zingmond DS, Saliba D, Wilber KH, et al. Measuring the quality of care provided to dually enrolled Medicare and Medicaid beneficiaries living in nursing homes. *Med Care* 2009;47:536-44

1b.4 Summary of Data on disparities by population group:

There are no published data on disparities concerning this measure. However, based on our implementation of the measure, we note that we did not identify differences by gender or age (among an older group): Males 36.8%, Females 33.2% (p=0.26). Age 65-75 35.8%, 75-85 38.4% and >85 33.8% (p=0.80). However, African American elders received lower quality care for this measure than White or Latino patients (21.4% v. 34.6 v. 37.6%, respectively, p<0.01 for comparison between African Americans and White and Latino patients).

1b.5 Citations for data on Disparities:

1c. Outcome or Evidence to Support Measure Focus

1c.1 Relationship to Outcomes (*For non-outcome measures, briefly describe the relationship to desired outcome. For outcomes, describe why it is relevant to the target population*): Substantial evidence supports the relationship between treatment of risk factors for falls - such physical therapy for weakness and balance issues, and stabilization using assistive devices - and reduced falls and fear related to falling. This is detailed below in 1c.2. The outcomes of the proposed measure have not been tested. However, this measure is the administrative version of a chart-based measure that has been tested against a falls-related outcome. When combined with the other 4 implemented ACOVE falls quality measures, the summary score of quality of care for falls was directly related to improvement in the Falls Efficacy Scale (FES). After controlling for age, gender and co-morbidity, an improvement of 10% falls quality of care was related to 0.4 point higher FES score (p=.01). To put the FES score into clinical perspective, in one intensive intervention study of multidisciplinary home visits that reduced risk of falls by 23%, the pre-post difference in FES scores between the intervention and control groups was 1.4 FES points. (Tinetti M 1994)

1c.2-3. Type of Evidence: Evidence-based guideline, Randomized controlled trial, Expert opinion, Systematic synthesis of research

1c.4 Summary of Evidence (*as described in the criteria; for outcomes, summarize any evidence that healthcare services/care processes influence the outcome*):

There is ample evidence of a significant association between muscle strength and functional gait parameters in various populations, including elderly people (Powers 1996; Powers 1997; Perry 1993; Lord 1995; Bohannon 1996).

Recent systematic analyses suggest that exercise interventions are effective at reducing the risk of falling (RR=0.86, 95% CI=0.75-0.99) (Chang 2004; McMurdo 2000; Day 2002; Steinberg 2000; Crome 2000; Robertson 2001; Rubenstein 2000; Schoenfelder 2000). Another systematic review found that individualized strength and balance retraining by a trained health professional reduced the risk of falls 20% (RR=0.80, 95% CI=0.66-0.98) (Campbell 1997).

These studies support the use of exercise to improve measures of balance and reduce the incidence of falls. It would appear that the use of a multidimensional exercise program that incorporates balance training and strengthening should improve postural stability and reduce the risk of falling in elderly people.

1c.5 Rating of strength/quality of evidence (*also provide narrative description of the rating and by whom*):

This quality measure is supported by behavioral interventions studied in RCTs, some in patients in nursing homes (Level Good).

1c.6 Method for rating evidence: We rated the level of evidence as "Good" according to the USPSTF 3-point scale (good, fair, poor). Ref: U.S. Preventive Services Task Force Ratings: Grade Definitions. Guide to Clinical Preventive Services, Third Edition: Periodic Updates, 2000-2003. Agency for Healthcare Research

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Comment [k4]: 1c. The measure focus is:
•an outcome (e.g., morbidity, mortality, function, health-related quality of life) that is relevant to, or associated with, a national health goal/priority, the condition, population, and/or care being addressed;
OR

- if an intermediate outcome, process, structure, etc., there is evidence that supports the specific measure focus as follows:
 - Intermediate outcome - evidence that the measured intermediate outcome (e.g., blood pressure, Hba1c) leads to improved health/avoidance of harm or cost/benefit
 - Process - evidence that the measured clinical or administrative process leads to improved health/avoidance of harm and if the measure focus is on one step in a multi-step care process, it measures the step that has the greatest effect on improving the specified desired outcome(s).
 - Structure - evidence that the measured structure supports the consistent delivery of effective processes or access that lead to improved health/avoidance of harm or cost/benefit.
 - Patient experience - evidence that an association exists between the measure of patient experience of health care and the outcomes, values and preferences of individuals/ the public.
 - Access - evidence that an association exists between access to a health service and the outcomes of, or experience with, care. ... [1]

Comment [k5]: 4 Clinical care processes typically include multiple steps: assess → identify problem/potential problem → choose/plan intervention (with patient input) → provide intervention → evaluate impact on health status. If the measure focus is one step in such a multi-step process, the step with the greatest effect on the desired outcome should be selected as the focus of measurement. For example, although assessment of immunization status and recommending immunization are necessary steps, they are not sufficient to achieve the desired impact on health status - patients must be vaccinated to achieve immunity. This does not preclude consideration of measures of preventive screening interventions where there is a strong link with desired outcomes (e.g., mammography) or measures for multiple care processes that affect a single outcome.

Comment [k6]: 3 The strength of the body of evidence for the specific measure focus should be systematically assessed and rated (e.g., USPSTF grading system <http://www.ahrq.gov/clinic/uspstf07/methods/benefit.htm>). If the USPSTF grading system was not used, the grading system is explained including how it relates to the USPSTF grades or why it does not. However, evidence is not limited to quantitative studies and the best type of evidence depends upon the question being studied (e.g., randomized controlled trials appropriate for studying drug efficacy are not well suited for complex system changes). When qualitative studies are used, appropriate qualitative research criteria are used to judge the strength of the evidence.

and Quality, Rockville, MD. <http://www.ahrq.gov/clinic/3rduspstf/ratings.htm>.

1c.7 Summary of Controversy/Contradictory Evidence: In general, summarization studies show that behavioral interventions result in reduction in falls, although not all studies showed benefit. A study determined if short-term exercise reduces falls and fall-related injuries in the elderly. Two nursing home and five community-dwelling studies included an exercise component for 10 to 36 weeks. The adjusted fall incidence ratio for treatment arms including general exercise was 0.90 (95% confidence limits [CL], 0.81, 0.99) and for those including balance was 0.83 (95% CL, 0.70, 0.98). No exercise component was significant for injurious falls, but power was low to detect this outcome. The study concluded that treatments including exercise for elderly adults reduce the risk of falls.

Province MA, Hadley EC, Hornbrook MC, Lipsitz LA, Miller JP, Mulrow CD, Ory MG, Sattin RW, Tinetti ME, Wolf SL. The effects of exercise on falls in elderly patients. A preplanned meta-analysis of the FICSIT Trials. *JAMA*. 1995;273(17):1341-7.

1c.8 Citations for Evidence (other than guidelines): Tinetti ME, Baker DI, McAvay G, et al. A multifactorial intervention to reduce the risk of falling among elderly people living in the community. *N Engl J Med*. 1994;331: 821-7.

Powers CM, Boyd LA, Fontaine CA et al. The influence of lower-extremity muscle force on gait characteristics in individuals with below-knee amputations secondary to vascular disease. *Phys Ther* 1996;76:369-377; discussion 378-385.

Powers CM, Perry J, Hsu A et al. Are patellofemoral pain and quadriceps femoris muscle torque associated with locomotor function? *Phys Ther* 1997;77:1063-1075; discussion 1075-1078.

Perry J, Mulroy SJ, Renwick SE. The relationship of lower extremity strength and gait parameters in patients with post-polio syndrome. *Arch Phys Med Rehabil* 1993;74:165-169.

Lord SR, Ward JA, Williams P et al. The effect of a 12-month exercise trial on balance, strength, and falls in older women: A randomized controlled trial. *J Am Geriatr Soc* 1995;43:1198-1206.

Bohannon RW, Andrews AW, Thomas MW. Walking speed: Reference values and correlates for older adults. *J Orthop Sports Phys Ther* 1996;24:86-90.

Chang JT, Morton SC, Rubenstein LZ et al. Interventions for the prevention of falls in older adults: Systematic review and meta-analysis of randomised clinical trials. *BMJ* 2004;328:680.

McMurdo ME, Millar AM, Daly F. A randomized controlled trial of fall prevention strategies in old peoples' homes. *Gerontology* 2000;46:83-87.

Day L, Fildes B, Gordon I et al. Randomised factorial trial of falls prevention among older people living in their own homes. *BMJ* 2002;325:128.

Steinberg M, Cartwright C, Peel N et al. A sustainable programme to prevent falls and near falls in community dwelling older people: Results of a randomised trial. *J Epidemiol Community Health* 2000;54:227-232.

Crome P, Hill S, Mossman J, Stockdale P. A randomised controlled trial of a nurse led falls prevention clinic [abstract]. *J Am Geriatr Soc* 2000;48:S78.

Robertson MC, Devlin N, Gardner MM et al. Effectiveness and economic evaluation of a nurse delivered home exercise programme to prevent falls 1: Randomized controlled trial. *BMJ* 2001;322:697-701.

Rubenstein LZ, Josephson KR, Trueblood PR et al. Effects of group exercise program on strength, mobility and falls among fall-prone elderly men. *J Gerontol A Biol Sci Med Sci* 2000;6A:M1-M5.

Schoenfelder DP. A fall prevention program for elderly individuals. Exercise in long-term care settings. *J*

Gerontol Nurs 2000;26:43-51.	
Campbell AJ, Robertson MC, Gardner MM et al. Randomised controlled trial of a general programme of home based exercise to prevent falls in elderly women. BMJ 1997;315:1065-1069.	
1c.9 Quote the Specific guideline recommendation (including guideline number and/or page number):	
1c.10 Clinical Practice Guideline Citation:	
1c.11 National Guideline Clearinghouse or other URL:	
1c.12 Rating of strength of recommendation (also provide narrative description of the rating and by whom):	
1c.13 Method for rating strength of recommendation (If different from USPSTF system, also describe rating and how it relates to USPSTF):	
1c.14 Rationale for using this guideline over others:	
TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for Importance to Measure and Report?	1
Steering Committee: Was the threshold criterion, Importance to Measure and Report, met? Rationale:	1 Y <input type="checkbox"/> N <input type="checkbox"/>
2. SCIENTIFIC ACCEPTABILITY OF MEASURE PROPERTIES	
Extent to which the measure, <u>as specified</u> , produces consistent (reliable) and credible (valid) results about the quality of care when implemented. (evaluation criteria)	Eval Rating
2a. MEASURE SPECIFICATIONS	
S.1 Do you have a web page where current detailed measure specifications can be obtained? S.2 If yes, provide web page URL:	
2a. Precisely Specified	
2a.1 Numerator Statement (Brief, text description of the numerator - what is being measured about the target population, e.g. target condition, event, or outcome): Long-stay patients in the denominator who received physical therapy or nursing rehabilitation/restorative care	
2a.2 Numerator Time Window (The time period in which cases are eligible for inclusion in the numerator): All patients in the denominator whose quarterly MDS indicates a new balance problem (compared to the prior MDS) and who received physical therapy in the 4 months prior or 1 month after the noted new problem OR nursing rehabilitation/restorative care in the 7 days prior.	
2a.3 Numerator Details (All information required to collect/calculate the numerator, including all codes, logic, and definitions): Physical therapy (PT): Administrative claim for PT (defined in previously submitted documentation) in the 4 months before or 1 month after the date describing the new balance problem OR MDS 3.0 data (O5f) indicates training and skill practice in walking for at least 15 minutes for at least 1 day	2a-specs C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/>

Comment [k7]: USPSTF grading system <http://www.ahrq.gov/clinic/uspstf/grades.htm>: **A** - The USPSTF recommends the service. There is high certainty that the net benefit is substantial. **B** - The USPSTF recommends the service. There is high certainty that the net benefit is moderate or there is moderate certainty that the net benefit is moderate to substantial. **C** - The USPSTF recommends against the service. There may be considerations that support providing the service in an individual patient. There is at least moderate certainty that the net benefit is small. Offer or provide this service only if other considerations support the offering or providing the service in an individual patient. **D** - The USPSTF recommends against the service. There is moderate or high certainty that the service has no net benefit or that the harms outweigh the benefits. **I** - The USPSTF concludes that the current evidence is insufficient to assess the balance of benefits and harms of the service. Evidence is lacking, of poor quality, or conflicting, and the balance of benefits and harms cannot be determined.

Comment [KP8]: 2a. The measure is well defined and precisely specified so that it can be implemented consistently within and across organizations and allow for comparability. The required data elements are of high quality as defined by NQF's Health Information Technology Expert Panel (HITEP).

in the 7 days prior to the date describing the new balance problem
 OR MDS 3.0 data (O4c) indicates physical therapy for at least 15 minutes in the 7 days prior to the date describing the new balance problem

2a.4 Denominator Statement (*Brief, text description of the denominator - target population being measured*):
 Long-stay nursing home patients 65 years or older with a new balance problem

2a.5 Target population gender: Female, Male

2a.6 Target population age range: Long-stay nursing home patients who are 65 years old or older

2a.7 Denominator Time Window (*The time period in which cases are eligible for inclusion in the denominator*):
 Long-stay nursing home patients 65 years old or older with a new balance problem any time during the study period with 14 months of MDS and administrative claims data if one is assuming a 1-year study period. The actual time window related to a single eligible event is 5 months--1 month prior to through 1 month after 2 consecutive MDS quarterly assessments.

2a.8 Denominator Details (*All information required to collect/calculate the denominator - the target population being measured - including all codes, logic, and definitions*):
 New balance problem:
 Consecutive quarterly MDS reports contain measures of Balance During Transitions and Walking: Moving from seated to standing position (G3a) and the second indicates a worsening status from the first. Worsening status = worsening by at least 1 level. [0. Steady at all times; 1. Not steady, but able to stabilize without human assistance; 2. Not steady, only able to stabilize with human assistance]

NOTE: While this item has been somewhat modified in MDS 3.0, the essence of the content remains the same.

MDS 3.0:
 Balance during Transitions and Walking
 MDS 3.0 item G3a. Moving from seated to standing position [replaces MDS 2.0 Test for Balance G3a (while standing) and G3b (while sitting) per Saliba 2008]

0 = Steady at all times
 1 = Not steady, but able to stabilize without human assistance
 2 = Not steady, only able to stabilize with human assistance

Saliba D, Buchanan J. Development & Evaluation of a Revised Nursing Home Assessment Tool: MDS 3.0. RAND report, CMS MDS 3.0 Validation Contract No. 500-00-0027/Task Order #2, April 2008

2a.9 Denominator Exclusions (*Brief text description of exclusions from the target population*): Patients are excluded from the denominator if they are short-stay or have advanced dementia or a poor prognosis.

2a.10 Denominator Exclusion Details (*All information required to collect exclusions to the denominator, including all codes, logic, and definitions*):
 Patients are excluded from the denominator for short stay, advanced dementia or poor prognosis.

Short stay patients are excluded since inclusion requires 2 consecutive quarterly MDS evaluations

Advanced dementia: MDS-COGS score of at least 5 (Hartmaier 1994) OR BIMS score of 0-7 (Chodosh 2008). MDS-COGS scoring is based on 8 MDS items:

Cognitive Patterns:
 (MDS 2.0 B2a) MDS 3.0=C7: Short term memory (0-1; MDS=1, memory problem; MDS-COGS=1)
 MS 2.0 B2b (MDS 3.0=C8): Long term memory (0-1; MDS=1, memory problem; MDS-COGS=1)
 MDS 2.0 B3b (MDS 3.0=C9b): Location of own room (0-1; MDS=0, doesn't recall; MDS-COGS=1)
 (MDS 2.0 B3d) MDS 3.0=C9d: Knows he/she in a nursing home (0-1; MDS=0, doesn't recall; MDS-COGS=1)
 (MDS 2.0 B3e) MDS 3.0=C9e: No orientation recalled (0-1; MDS=1, none recalled; MDS-COGS=1)
 (MDS 2.0 B4) MDS 3.0=C10: Decision making (0-3; MDS/MDS-COGS: 0=independent, 1=modified

Comment [k9]: 11 Risk factors that influence outcomes should not be specified as exclusions.
 12 Patient preference is not a clinical exception to eligibility and can be influenced by provider interventions.

<p>independence, 2=moderately impaired, 3=severely impaired) Communication patterns: (MDS 2.0 C4) MDS 3.0=B5: Making self understood (0-3; MDS-COGS: 1=never/rarely understood) Physical Functioning: (MDS 2.0 G1Ag) MDS 3.0=G1h or G1i: Dressing self performance (0-1; MDS-COGS: 1=total dependence, 1 or 2 person assist) OR BIMS (MDS 3.0): If the BIMS is completed (C2, C3a-c, C4a-c) rather than the items indicated above, a BIMS score of 0-7 would also qualify as severe dementia.</p> <p>Poor prognosis: MDS 3.0 (J11) indicates life expectancy of 6 or fewer months OR (O1j) hospice care in the prior 14 days OR Medicare/Medicaid claim for hospice care (see additional reference document).</p> <p>Hartmaier SL, Sloane PD, Guess HA, et al. The MDS cognition scale: a valid instrument for identifying and staging nursing home residents with dementia using the minimum data set. <i>J Am Geriatr Soc</i> 1994; 42:1173-1179</p> <p>Chodosh J, Edelen MO, Buchanan J, et al. Nursing home assessment of cognitive impairment: Development and testing of a brief instrument of mental status. <i>J Am Geriatr Soc</i> 2008;56:2069-2075</p>
<p>2a.11 Stratification Details/Variables (All information required to stratify the measure including the stratification variables, all codes, logic, and definitions): None</p>
<p>2a.12-13 Risk Adjustment Type: No risk adjustment necessary</p>
<p>2a.14 Risk Adjustment Methodology/Variables (List risk adjustment variables and describe conceptual models, statistical models, or other aspects of model or method): N/A</p>
<p>2a.15-17 Detailed risk model available Web page URL or attachment:</p>
<p>2a.18-19 Type of Score: Ratio 2a.20 Interpretation of Score: 2a.21 Calculation Algorithm (Describe the calculation of the measure as a flowchart or series of steps): 1. Identify all nursing home patients 65 years or older 2. Exclude patients with advanced dementia or poor prognosis (based on MDS and/or administrative data) 3. Determine patients who have 2 consecutive assessments of balance (MDS Test for Balance: Moving from seated to standing position) and the second assessment indicates a new balance problem based on a worsening status. Worsening status = worsening by at least 1 level for G3a. [0. Steady at all times 1. Not steady, but able to stabilize without human assistance 2. Not steady, only able to stabilize with human assistance] 4. The first such notation in the study period is the index denominator event 5. For this sample of patients, determine if MDS item (O5f) indicates nursing rehabilitation/restorative care for training and skill practice in walking OR MDS item (O4c) PT for at least 15 minutes within the 7 days prior to the index event OR administrative data indicate PT in the 4 months before or the 1 month after the index event</p>
<p>2a.22 Describe the method for discriminating performance (e.g., significance testing):</p>
<p>2a.23 Sampling (Survey) Methodology If measure is based on a sample (or survey), provide instructions for obtaining the sample, conducting the survey and guidance on minimum sample size (response rate): All long-stay nursing home patients 65 years and older are eligible for the measure.</p>
<p>2a.24 Data Source (Check the source(s) for which the measure is specified and tested) Electronic administrative data/claims</p>
<p>2a.25 Data source/data collection instrument (Identify the specific data source/data collection instrument, e.g. name of database, clinical registry, collection instrument, etc.): Linked Medicare eligibility and claims data, Medicaid eligibility and claims data, and Minimum Data Set</p>

<p>(MDS) 3.0</p> <p>Physical therapy administrative data (see additional reference document)</p> <p>Balance during transition and walking-Moving from seated to standing position: MDS 3.0 G3a</p> <p>Nursing rehabilitation/restorative care-training and skill practice in walking for at least 15 minutes in prior 7 days: MDS 3.0 O5f</p> <p>Therapies-Physical therapy for at least 15 minutes in the prior 7 days: MDS 3.0 O4c</p> <p>2a.26-28 Data source/data collection instrument reference web page URL or attachment: URL http://www.cms.hhs.gov</p> <p>2a.29-31 Data dictionary/code table web page URL or attachment: Attachment NH FALLS 5 Reference.doc</p> <p>2a.32-35 Level of Measurement/Analysis (Check the level(s) for which the measure is specified and tested) Facility/Agency, Health Plan, Integrated delivery system, Multi-site/corporate chain, Population: national, Population: regional/network, Population: states, Population: counties or cities, Program: QIO</p> <p>2a.36-37 Care Settings (Check the setting(s) for which the measure is specified and tested) Nursing home (NH) /Skilled Nursing Facility (SNF)</p> <p>2a.38-41 Clinical Services (Healthcare services being measured, check all that apply) Clinicians: Nurses, Clinicians: PA/NP/Advanced Practice Nurse, Clinicians: Physicians (MD/DO), Clinicians: PT/OT/Speech</p>	
TESTING/ANALYSIS	
<p>2b. Reliability testing</p> <p>2b.1 Data/sample (description of data/sample and size):</p> <p>2b.2 Analytic Method (type of reliability & rationale, method for testing):</p> <p>2b.3 Testing Results (reliability statistics, assessment of adequacy in the context of norms for the test conducted): Reliability of MDS 3.0 balance item (Saliba 2008): Gold standard-gold standard: Kappa .959 Gold standard-field nurse: Kappa .924</p> <p>Change to this item in MDS 3.0 was targeted to capture activities where assistance and support are most variable and assess activities with highest risk of falls</p> <p>Saliba D, Buchanan J. Development & Evaluation of a Revised Nursing Home Assessment Tool: MDS 3.0. RAND report, CMS MDS 3.0 Validation Contract No. 500-00-0027/Task Order #2, April 2008</p>	<p>2b</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p>
<p>2c. Validity testing</p> <p>2c.1 Data/sample (description of data/sample and size):</p> <p>2c.2 Analytic Method (type of validity & rationale, method for testing): Validity of the process-outcome link was explicitly evaluated by the ACOVE Nursing Home Panel that reviewed the relevant literature and used a modified Delphi panel method of voting on the validity of the measure. (Saliba 2004)</p>	<p>2c</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p>

Comment [KP10]: 2b. Reliability testing demonstrates the measure results are repeatable, producing the same results a high proportion of the time when assessed in the same population in the same time period.

Comment [k11]: 8 Examples of reliability testing include, but are not limited to: inter-rater/abstractor or intra-rater/abstractor studies; internal consistency for multi-item scales; test-retest for survey items. Reliability testing may address the data items or final measure score.

Comment [KP12]: 2c. Validity testing demonstrates that the measure reflects the quality of care provided, adequately distinguishing good and poor quality. If face validity is the only validity addressed, it is systematically assessed.

Comment [k13]: 9 Examples of validity testing include, but are not limited to: determining if measure scores adequately distinguish between providers known to have good or poor quality assessed by another valid method; correlation of measure scores with another valid indicator of quality for the specific topic; ability of measure scores to predict scores on some other related valid measure; content validity for multi-item scales/tests. Face validity is a subjective assessment by experts of whether the measure reflects the quality of care (e.g., whether the proportion of patients with BP < 140/90 is a marker of quality). If face validity is the only validity addressed, it is systematically assessed (e.g., ratings by relevant stakeholders) and the measure is judged to represent quality care for the specific topic and that the measure focus is the most important aspect of quality for the specific topic.

The relationship between the quality of process-of-care and fear of falling as measured by the Tinetti Falls Efficacy Scale (FES) (Tinetti ME, Richman D, Powell L. Falls efficacy as a measure of fear of falling. J Gerontol. 1990;45: P239-43) was testing using a set of measures including this one as abstracted from medical records of community-based vulnerable elders. Patients receiving the quality indicator recommended care had better FES scores (3.9 v 0.7, p=0.02) after accounting for missed measure eligibility. Across six process-of-care quality indicators including the measure proposed here, after adjustment for covariates including severity of illness, a 10-percentage point increment in quality was associated with a 0.41 FES point increase (p=.01). (Min LC, Reuben DB, Shekelle PG, et al. Unpublished data)

Saliba D, Solomon D, Rubenstein L, Young R, Schnelle J, Roth C, Wenger N. Feasibility of quality indicators for the management of geriatric syndromes in nursing home residents. J Am Med Dir Assoc. 2004;5:310-9.

2c.3 Testing Results (statistical results, assessment of adequacy in the context of norms for the test conducted):

2d. Exclusions Justified

2d.1 Summary of Evidence supporting exclusion(s):

Patients with advanced dementia or poor prognosis are excluded from the denominator.

An axiom of good medical practice is that management of patients' illnesses should be individualized. Even the most firmly established standards for prevention, diagnosis, and treatment cannot be applied to all patients. This is particularly true for patients with advanced illness or those with compromised quality of life (Luchins 1993; Brauner 2000). Thus, an essential step in measuring quality of care, particularly in nursing homes, is to determine whether the benefit from an intervention is so small for patients in the most debilitated condition that a quality indicator is inapplicable. Given this, Solomon 2003, convened a clinical panel of experts to identify indicators that should not be applied in the setting or more-general preferences or for patient in severely debilitated condition. This panel, using a structured method of rating the aims and burdens of care processes, identified the quality indicator proposed here as one that should not be applied to patients with advanced dementia or poor prognosis (anticipated survival < 6 months).

The only study we are aware of that looked at this population revealed no intervention effect on falls prevention (Shaw 2003). In this study, cognitively impaired (median MMSE score intervention 14, control 12; range 6-18 at presentation and persisting 2 weeks after ER/hospital discharge) patients who presented to the ER with a fall were randomly assigned to a multifactorial falls prevention intervention (including physical therapy) or conventional care. The study results showed no significant differences between groups in the primary (at least 1 fall) or secondary (number of falls, time to first fall, injury rates, fall related ER visits/ hospitalizations, and mortality) outcomes. Additionally, 2 recent reviews of the literature focusing on fall prevention in older people with dementia (Shaw 2007) and the effectiveness of physical training in cognitively impaired older persons (Hauer 2006) reveal limited evidence for the effectiveness of these interventions in this population and point to the need for further studies in this area.

Short-stay patients are excluded by definition as this measure requires at least 2 consecutive MDS quarterly assessments.

2d.2 Citations for Evidence:

Brauner DJ, Muir JC, Sachs GA. Treating nondementia illnesses in patients with dementia. JAMA 2000; 283:3230-3235.

Hauer K, Becker C, Lindemann U, et al. Effectiveness of physical training on motor performance and fall prevention in cognitively impaired older persons: a systematic review. Am J Phys Med Rehab 2006;85:847-857.

Luchins DJ, Hanrahan P. What is appropriate health care for end-stage dementia? J Am Geriatr Soc 1993; 41:25-30.

Shaw FE. Prevention of falls in older people with dementia. J Neural Transm 2007;114:1259-1264.

2d
C
P
M
N
NA

Comment [KP14]: 2d. Clinically necessary measure exclusions are identified and must be:
 •supported by evidence of sufficient frequency of occurrence so that results are distorted without the exclusion;
 AND
 •a clinically appropriate exception (e.g., contraindication) to eligibility for the measure focus;
 AND
 •precisely defined and specified:
 –if there is substantial variability in exclusions across providers, the measure is specified so that exclusions are computable and the effect on the measure is transparent (i.e., impact clearly delineated, such as number of cases excluded, exclusion rates by type of exclusion);
 if patient preference (e.g., informed decision-making) is a basis for exclusion, there must be evidence that it strongly impacts performance on the measure and the measure must be specified so that the information about patient preference and the effect on the measure is transparent (e.g., numerator category computed separately, denominator exclusion category computed separately).

Comment [k15]: 10 Examples of evidence that an exclusion distorts measure results include, but are not limited to: frequency of occurrence, sensitivity analyses with and without the exclusion, and variability of exclusions across providers.

<p>Shaw FE, Bond J, Richardson DA, et al. Multifactorial intervention after a fall in older people with cognitive impairment and dementia presenting to the accident and emergency department: randomised controlled trial. <i>BMJ</i> 2003;326:pp73.</p> <p>Solomon DH, Wenger NS, Saliba D, et al. Appropriateness of quality indicators for older patients with advanced dementia and poor prognosis. <i>J Am Geriatr Soc</i> 2003;51:902-907.</p> <p>2d.3 Data/sample (description of data/sample and size): These exclusions were applied to a sample of 21,657 individuals 65 years and older, residing in 19 counties in California, enrolled in both Medicare and Medicaid and residing in a nursing home at least 5 of the last 6 months of 1998. Patients received Medicaid through the Aged/Blind/Disabled eligibility category. Assessments were made during 1999 and 2000 using MDS, Medicare and Medicaid eligibility files, and Medicare and Medicaid fee-for-service claims.</p> <p>2d.4 Analytic Method (type analysis & rationale): After implementing the quality indicators, patients with advanced dementia and poor prognosis (anticipated survival < 6 months) were identified (see Measure Specifications 2.a.10, above) and the proposed quality indicator was excluded from application. We computed the number and proportion of patients excluded and the passing rate among these excluded patients.</p> <p>2d.5 Testing Results (e.g., frequency, variability, sensitivity analyses): Among the 4410 individuals eligible for the proposed quality indicator, 3191 (72%) were excluded due to advanced dementia or poor prognosis. The 3191 excluded patients passed the quality indicator 30% of the time (compared to 34% for those not excluded). (Zingmond 2009)</p> <p>Zingmond DS, Saliba D, Wilber KH, et al. Measuring the quality of care provided to dually enrolled Medicare and Medicaid beneficiaries living in nursing homes. <i>Med Care.</i> 2009;47:536-44.</p> <p>There is not statistical difference for the specific QI, although there was an overall difference for all QIs in the full study.</p>	
<p>2e. Risk Adjustment for Outcomes/ Resource Use Measures</p> <p>2e.1 Data/sample (description of data/sample and size):</p> <p>2e.2 Analytic Method (type of risk adjustment, analysis, & rationale):</p> <p>2e.3 Testing Results (risk model performance metrics):</p> <p>2e.4 If outcome or resource use measure is not risk adjusted, provide rationale:</p>	<p>2e C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/></p>
<p>2f. Identification of Meaningful Differences in Performance</p> <p>2f.1 Data/sample from Testing or Current Use (description of data/sample and size):</p> <p>2f.2 Methods to identify statistically significant and practically/meaningfully differences in performance (type of analysis & rationale):</p> <p>2f.3 Provide Measure Scores from Testing or Current Use (description of scores, e.g., distribution by quartile, mean, median, SD, etc.; identification of statistically significant and meaningfully differences in performance):</p>	<p>2f C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>2g. Comparability of Multiple Data Sources/Methods</p> <p>2g.1 Data/sample (description of data/sample and size):</p>	<p>2g C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/></p>

Comment [KP16]: 2e. For outcome measures and other measures (e.g., resource use) when indicated:

- an evidence-based risk-adjustment strategy (e.g., risk models, risk stratification) is specified and is based on patient clinical factors that influence the measured outcome (but not disparities in care) and are present at start of care. Error! Bookmark not defined. OR rationale/data support no risk adjustment.

Comment [k17]: 13 Risk models should not obscure disparities in care for populations by including factors that are associated with differences/inequalities in care such as race, socioeconomic status, gender (e.g., poorer treatment outcomes of African American men with prostate cancer, inequalities in treatment for CVD risk factors between men and women). It is preferable to stratify measures by race and socioeconomic status rather than adjusting out differences.

Comment [KP18]: 2f. Data analysis demonstrates that methods for scoring and analysis of the specified measure allow for identification of statistically significant and practically/clinically meaningful differences in performance.

Comment [k19]: 14 With large enough sample sizes, small differences that are statistically significant may or may not be practically or clinically meaningful. The substantive question may be, for example, whether a statistically significant difference of one percentage point in the percentage of patients who received smoking cessation counseling (e.g., 74% v. 75%) is clinically meaningful; or whether a statistically significant difference of \$25 in cost for an episode of care (e.g., \$5,000 v. \$5,025) is practically meaningful. Measures with overall poor performance may not demonstrate much variability across providers.

Comment [KP20]: 2g. If multiple data sources/methods are allowed, there is demonstration they produce comparable results.

2g.2 Analytic Method (type of analysis & rationale):	N <input type="checkbox"/> NA <input type="checkbox"/>
2g.3 Testing Results (e.g., correlation statistics, comparison of rankings):	
2h. Disparities in Care	2h C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/>
2h.1 If measure is stratified, provide stratified results (scores by stratified categories/cohorts):	
2h.2 If disparities have been reported/identified, but measure is not specified to detect disparities, provide follow-up plans:	
TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for <i>Scientific Acceptability of Measure Properties</i> ?	2
Steering Committee: Overall, to what extent was the criterion, <i>Scientific Acceptability of Measure Properties</i> , met? Rationale:	2 C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/>
3. USABILITY	
Extent to which intended audiences (e.g., consumers, purchasers, providers, policy makers) can understand the results of the measure and are likely to find them useful for decision making. (evaluation criteria)	Eval Rating
3a. Meaningful, Understandable, and Useful Information	
3a.1 Current Use: Not in use but testing completed	
3a.2 Use in a public reporting initiative (disclosure of performance results to the public at large) (If used in a public reporting initiative, provide name of initiative(s), locations, Web page URL(s). <u>If not publicly reported</u> , state the plans to achieve public reporting within 3 years):	
3a.3 If used in other programs/initiatives (If used in quality improvement or other programs/initiatives, name of initiative(s), locations, Web page URL(s). <u>If not used for QI</u> , state the plans to achieve use for QI within 3 years): This quality indicator has been used in measurement efforts in the community and the nursing home, (Zingmond 2007, Zingmond 2009) and in several quality improvement initiatives in community-based settings using medical record data, including one program in conjunction with the American College of Physicians (Wenger 2009). But the measure has not been implemented in quality improvement in the nursing home setting. Zingmond DS, Wilber KH, Maclean CH, Wenger NS. Measuring the quality of care provided to community dwelling vulnerable elders dually enrolled in Medicare and Medicaid. Med Care. 2007;45:931-8. Zingmond DS, Saliba D, Wilber KH, et al. Measuring the quality of care provided to dually enrolled Medicare and Medicaid beneficiaries living in nursing homes. Med Care. 2009;47:536-44. Wenger NS, Roth CP, Shekelle PG, et al. A practice-based intervention to improve primary care for falls, urinary incontinence, and dementia. J Am Geriatr Soc. 2009;57:547-55. Wenger NS, Roth CP, Hall W, et al. A primary care practice redesign intervention improves quality of care for older patients with urinary incontinence and high risk of falls: A controlled trial. J Gen Intern Med, 2009. 24(Suppl 1):S141-2.	
Testing of Interpretability (Testing that demonstrates the results are understood by the potential users)	3a C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/>

Comment [KP21]: 2h. If disparities in care have been identified, measure specifications, scoring, and analysis allow for identification of disparities through stratification of results (e.g., by race, ethnicity, socioeconomic status, gender); OR rationale/data justifies why stratification is not necessary or not feasible.

Comment [KP22]: 3a. Demonstration that information produced by the measure is meaningful, understandable, and useful to the intended audience(s) for both public reporting (e.g., focus group, cognitive testing) and informing quality improvement (e.g., quality improvement initiatives). An important outcome that may not have an identified improvement strategy still can be useful for informing quality improvement by identifying the need for and stimulating new approaches to improvement.

<p><i>for public reporting and quality improvement</i></p> <p>3a.4 Data/sample (<i>description of data/sample and size</i>):</p> <p>3a.5 Methods (<i>e.g., focus group, survey, QI project</i>):</p> <p>3a.6 Results (<i>qualitative and/or quantitative results and conclusions</i>):</p>	
<p>3b/3c. Relation to other NQF-endorsed measures</p> <p>3b.1 NQF # and Title of similar or related measures: Existing endorsed measures target assessment of falls/fall risk (#0101 Falls: Screening for fall risk; #0537 Multifactor fall risk assessment conducted in patients 65 and older), frequency of falls (#0141 Patient fall rate; #0202 Falls with injury), falls as a medication risk factor (#0624 Atrial fibrillation - warfarin therapy), patient report of a discussion of fall risk with a health care provider (#0035 Fall risk management in older adults: a. discussing fall risk, b. managing fall risk), or proportion of patients with a functional decline (#0195 Residents with a decline in their ability to move about in their room and the adjacent hall). None of these measures (other than the last) is directed to nursing home patients and none (including those in the National Voluntary Consensus Standards for Nursing Home Care) addresses the provision of an intervention as does the proposed indicator.</p>	
<p>(for NQF staff use) Notes on similar/related endorsed or submitted measures:</p>	
<p>3b. Harmonization If this measure is related to measure(s) already endorsed by NQF (e.g., same topic, but different target population/setting/data source <u>or</u> different topic but same target population): 3b.2 Are the measure specifications harmonized? If not, why?</p>	<p>3b</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p> <p>NA <input type="checkbox"/></p>
<p>3c. Distinctive or Additive Value 3c.1 Describe the distinctive, improved, or additive value this measure provides to existing NQF-endorsed measures:</p> <p>5.1 If this measure is similar to measure(s) already endorsed by NQF (i.e., on the same topic and the same target population), Describe why it is a more valid or efficient way to measure quality:</p>	<p>3c</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p> <p>NA <input type="checkbox"/></p>
<p>TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for <i>Usability</i>?</p>	<p>3</p>
<p>Steering Committee: Overall, to what extent was the criterion, <i>Usability</i>, met? Rationale:</p>	<p>3</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p>
4. FEASIBILITY	
<p>Extent to which the required data are readily available, retrievable without undue burden, and can be implemented for performance measurement. (evaluation criteria)</p>	<p>Eval Rating</p>
<p>4a. Data Generated as a Byproduct of Care Processes 4a.1-2 How are the data elements that are needed to compute measure scores generated? Coding/abstraction performed by someone other than person obtaining original information (E.g., DRG, ICD-9 codes on claims, chart abstraction for quality measure or registry)</p>	<p>4a</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p>
<p>4b. Electronic Sources 4b.1 Are all the data elements available electronically? (<i>elements that are needed to compute measure</i></p>	<p>4b</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p>

Comment [KP23]: 3b. The measure specifications are harmonized with other measures, and are applicable to multiple levels and settings.

Comment [k24]: 16 Measure harmonization refers to the standardization of specifications for similar measures on the same topic (e.g., *influenza immunization* of patients in hospitals or nursing homes), or related measures for the same target population (e.g., eye exam and HbA1c for *patients with diabetes*), or definitions applicable to many measures (e.g., age designation for children) so that they are uniform or compatible, unless differences are dictated by the evidence. The dimensions of harmonization can include numerator, denominator, exclusions, and data source and collection instructions. The extent of harmonization depends on the relationship of the measures, the evidence for the specific measure focus, and differences in data sources.

Comment [KP25]: 3c. Review of existing endorsed measures and measure sets demonstrates that the measure provides a distinctive or additive value to existing NQF-endorsed measures (e.g., provides a more complete picture of quality for a particular condition or aspect of healthcare, is a more valid or efficient way to measure).

Comment [KP26]: 4a. For clinical measures, required data elements are routinely generated concurrent with and as a byproduct of care processes during care delivery. (e.g., BP recorded in the electronic record, not abstracted from the record later by other personnel; patient self-assessment tools, e.g., depression scale; lab values, meds, etc.)

Comment [KP27]: 4b. The required data elements are available in electronic sources. If the required data are not in existing electronic sources, a credible, near-term path to electronic collection by most providers is specified and clinical data elements are specified for transition to the electronic health record.

<p>scores are in defined, computer-readable fields, e.g., electronic health record, electronic claims) Yes</p> <p>4b.2 If not, specify the near-term path to achieve electronic capture by most providers.</p>	<p>M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>4c. Exclusions</p> <p>4c.1 Do the specified exclusions require additional data sources beyond what is required for the numerator and denominator specifications? No</p> <p>4c.2 If yes, provide justification.</p>	<p>4c C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/></p>
<p>4d. Susceptibility to Inaccuracies, Errors, or Unintended Consequences</p> <p>4d.1 Identify susceptibility to inaccuracies, errors, or unintended consequences of the measure and describe how these potential problems could be audited. If audited, provide results. This measure is susceptible to inaccuracies to the extent that all patient-level administrative data is susceptible to data-entry errors and does not capture instances when services are recommended by the clinician but refused.</p> <p>Regarding the MDS, DAVE 2, the second phase of the Data Assessment and VERification (DAVE) program, came to a close September 30, 2007. The primary focus of DAVE 2 was to assure accuracy and reliability of MDS assessment data.</p> <p>The DAVE 2 contract, which was awarded to Abt Associates in September 2005, consisted of onsite visits to nursing homes by trained nurse reviewers who examined resident records and conducted independent resident assessments to evaluate the accuracy of MDS assessments. They also provided educational support to nursing home staff.</p> <p>CMS is continuing to work with Abt Associates on MDS 2.0 initiatives under the MDS Technical Support Contract. It also continues to develop training materials, based on the DAVE 2 findings, in order to improve MDS coding guidelines in the RAI User's Manual and to support nursing home staff in improving MDS data accuracy.</p> <p>The DAVE projects developed MDS coding Tip Sheets for various sections of the MDS found to have higher discrepancy rates upon onsite accuracy review. There are currently four downloadable TIP Sheets on proper coding for the MDS Sections including Section G on Self Performance, Section P on Physician Visits (P7) and Physician Orders (P8), Section P on Therapies (P1b), and Section K on Parenteral/IV (K5a). The MDS Technical Support project plans to develop additional Tip Sheets in the coming year.</p> <p>From: http://www.cms.hhs.gov/NursingHomeQualityInits/20_NHQIMDS20.asp</p> <p>New updated coding for the to-be-released MDS 3.0 will be developed for the proposed indicator by the developer.</p> <p>For MDS 3.0: Reported pilot results indicate that improvements incorporated in MDS 3.0 produced a more efficient assessment: better quality information was obtained in less time. Such gains should improve identification of resident needs and enhance resident-focused care planning. In addition, including items recognized in other care settings is likely to enhance communication among providers. These significant gains reflect the cumulative effect of changes across the tool, including use of more valid items, direct inclusion of resident reports, improved clarity of retained items, deletion of poorly performing items, form redesign, and briefer assessment periods for clinical items.</p> <p>Saliba D, Buchanan J. Development & Evaluation of a Revised Nursing Home Assessment Tool: MDS 3.0. RAND report, CMS MDS 3.0 Validation Contract No. 500-00-0027/Task Order #2, April 2008</p>	<p>4d C <input type="checkbox"/> P <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/></p>
<p>4e. Data Collection Strategy/Implementation</p>	<p>4e</p>

Comment [KP28]: 4c. Exclusions should not require additional data sources beyond what is required for scoring the measure (e.g., numerator and denominator) unless justified as supporting measure validity.

Comment [KP29]: 4d. Susceptibility to inaccuracies, errors, or unintended consequences and the ability to audit the data items to detect such problems are identified.

Comment [KP30]: 4e. Demonstration that the data collection strategy (e.g., source, timing, frequency, sampling, patient confidentiality, etc.) can be implemented (e.g., already in operational use, or testing demonstrates that it is ready to put into operational use).

<p>4e.1 Describe what you have learned/modified as a result of testing and/or operational use of the measure regarding data collection, availability of data/missing data, timing/frequency of data collection, patient confidentiality, time/cost of data collection, other feasibility/ implementation issues:</p> <p>4e.2 Costs to implement the measure (<i>costs of data collection, fees associated with proprietary measures</i>):</p> <p>4e.3 Evidence for costs:</p> <p>4e.4 Business case documentation:</p>	<p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p>
<p>TAP/Workgroup: What are the strengths and weaknesses in relation to the subcriteria for <i>Feasibility</i>?</p>	<p>4</p>
<p>Steering Committee: Overall, to what extent was the criterion, <i>Feasibility</i>, met? Rationale:</p>	<p>4</p> <p>C <input type="checkbox"/></p> <p>P <input type="checkbox"/></p> <p>M <input type="checkbox"/></p> <p>N <input type="checkbox"/></p>
<p>RECOMMENDATION</p>	
<p>(for NQF staff use) Check if measure is untested and only eligible for time-limited endorsement.</p>	<p>Time-limited <input type="checkbox"/></p>
<p>Steering Committee: Do you recommend for endorsement? Comments:</p>	<p>Y <input type="checkbox"/></p> <p>N <input type="checkbox"/></p> <p>A <input type="checkbox"/></p>
<p>CONTACT INFORMATION</p>	
<p>Co.1 Measure Steward (Intellectual Property Owner) Co.1 <u>Organization</u> RAND Corporation, 1776 Main Street, Santa Monica, California, 90401</p>	
<p>Co.2 <u>Point of Contact</u> Carol, Roth, RN, MPH, roth@rand.org, 310-393-0411-6425</p>	
<p>Measure Developer If different from Measure Steward Co.3 <u>Organization</u> RAND Corporation, 1776 Main Street, Santa Monica, California, 90401</p>	
<p>Co.4 <u>Point of Contact</u> Neil, Wenger, MD, MPH, nwenger@mednet.ucla.edu, 310-794-2288-</p>	
<p>Co.5 Submitter If different from Measure Steward POC Carol, Roth, RN, MPH, roth@rand.org, 310-393-0411-6425, RAND Corporation</p>	
<p>Co.6 Additional organizations that sponsored/participated in measure development</p>	
<p>ADDITIONAL INFORMATION</p>	
<p>Workgroup/Expert Panel involved in measure development Ad.1 Provide a list of sponsoring organizations and workgroup/panel members' names and organizations. Describe the members' role in measure development. ACOVE-3 EXPERT PANEL MEMBERS:</p>	

Joseph S. Alpert, MD - Cardiology
University of Arizona Health Sciences Center, Tucson, AZ

Andrew Auerbach, MD - Hospitalist
University of California, San Francisco, San Francisco, CA

Helena Chang, MD - Surgical Oncology
UCLA School of Medicine, Los Angeles, CA

Jerome Epplin, MD - Family Medicine
St. Francis Hospital, Litchfield, IL

Nick Fitterman, MD - Internal Medicine
Northshore Medical Group, Huntington, NY

Jerry C. Johnson, MD - Geriatric Medicine
University of Pennsylvania, Philadelphia, PA

Jean S. Kutner, MD, MSPH - General Internal Medicine
University of Colorado Health Sciences Center, Aurora, CO

Patrick J. Loehrer, Sr., MD - Oncology
Indiana University School of Medicine, Indianapolis, IN

Thomas Mattimore, MD - General Internal Medicine
University of California at Los Angeles, Los Angeles, CA

Gregory Maynard, MD - Hospitalist
University of California, San Diego, San Diego, CA

Charles McKay, MD - Cardiology
Harbor UCLA Medical Center, Torrance, CA

Keith W. Michl, MD - General Internal Medicine
Private Practice, Manchester Center, VT

Hyman B. Muss, MD - Oncology
Vermont Cancer Center at University of Vermont, Burlington, VT

James L. Naughton, MD - Internal Medicine
Alliance Medical Group, Pinole, CA

Cheryl Phillips, MD - Geriatric Medicine
Sutter Medical Group, Sacramento, CA

Peter V. Rabins, MD - Psychiatry
Johns Hopkins Hospital, Baltimore, MD

Charles F. Reynolds, III, MD - Psychiatry
University of Pittsburgh School of Medicine, Pittsburgh, PA

Michael W. Rich, MD - Cardiology
Washington University School of Medicine, St. Louis, MO

Doron Schneider, MD - Internal Medicine
Muller Center for Senior Health, Abington Memorial Hospital, Abington, PA

Michael Stamos, MD - Surgical Oncology

University of California, Irvine, Irvine, CA

Ronald D. Stock, MD - Geriatric Medicine
Center for Senior Health, Eugene, OR

Stephanie A. Studenski, MD, MPH - Geriatric Medicine
University of Pittsburgh School of Medicine, Pittsburgh, PA

May Lin Tao, MD, MSPH - Radiation Oncology
John Wayne Cancer Institute, Saint John's Health Center, Santa Monica, CA
Valley Radiotherapy Associates Medical Group, El Segundo, CA

Joe Vergheese, MD - Neurology
Albert Einstein College of Medicine, Bronx, NY

Belinda A. Vicioso, MD - General Internal Medicine
University of Texas Southwestern Medical Ctr., Dallas, TX

Kristine Yaffe, MD - Neurology
University of California, San Francisco, San Francisco, CA

Role of Expert Panel: Expanded and updated the Assessing Care of Vulnerable Elders (ACOVE) quality indicators via literature review, face-to-face discussion, and 2 rounds of anonymous ratings to evaluate whether the QIs were valid measures of quality of care using a process that is an explicit combination of scientific evidence and professional consensus.

ACOVE-3 CLINICAL COMMITTEE MEMBERS:

Alpesh N. Amin, MD - Hospitalist
University of California, Irvine Medical Center, Irvine, CA

Richard W. Besdine, MD - Geriatrician and Clinical Committee Chair
Brown University Center for Gerontology and Health Care Research, Providence, RI

Dan G. Blazer, MD - Geriatric Psychiatrist
Duke University Medical Center, Durham, NC

Harvey J. Cohen, MD - Geriatric Oncologist
Duke University Medical Center, Durham, NC

Terry Fulmer, PhD, RN, FAAN - Nurse
New York University, New York, NY

Patricia A. Ganz, MD - Oncologist
UCLA Schools of Medicine & Public Health, Jonsson Comprehensive Cancer Center, Los Angeles, CA

Mark A. Grunwald, MD - Family Practitioner
Gunderson Lutheran Clinic, Prairie du Chien, WI

William J. Hall, MD, MACP - Geriatrician
Highland Hospital, Rochester, NY

Ira R. Katz, MD, PhD - Psychiatrist
University of Pennsylvania, Philadelphia, PA

Paul R. Katz, MD - Geriatrician
Monroe Community Hospital, Rochester, NY

<p>Dalane W. Kitzman, MD - Geriatric Cardiologist Wake Forest University School of Medicine, Winston-Salem, NC</p> <p>Rosanne M. Leipzig, MD, PhD - Geriatrician Mount Sinai School of Medicine, New York, NY</p> <p>Ronnie A. Rosenthal, MD - Surgeon Yale University School of Medicine, New Haven, CT</p> <p>Role of Clinical Committee: Evaluated the coherence of the complete set of QIs that the experts rated as valid as well as determined exclusions for advanced dementia and poor prognosis.</p> <p>Wenger NS, Roth CP, Shekelle P, and the ACOVE Investigators. Introduction to the Assessing Care of Vulnerable Elders-3 quality indicator measurement set. J Am Geriatr Soc 2007;55(S2):S247-S487</p>
<p>Ad.2 If adapted, provide name of original measure: Ad.3-5 If adapted, provide original specifications URL or attachment</p>
<p>Measure Developer/Steward Updates and Ongoing Maintenance Ad.6 Year the measure was first released: 2001 Ad.7 Month and Year of most recent revision: 10, 2007 Ad.8 What is your frequency for review/update of this measure? Every 3-5 years Ad.9 When is the next scheduled review/update for this measure?</p>
<p>Ad.10 Copyright statement/disclaimers:</p>
<p>Ad.11 -13 Additional Information web page URL or attachment:</p>
<p>Date of Submission (MM/DD/YY): 10/10/2010</p>

1c. The measure focus is:

- an outcome (e.g., morbidity, mortality, function, health-related quality of life) that is relevant to, or associated with, a national health goal/priority, the condition, population, and/or care being addressed;

OR

- if an intermediate outcome, process, structure, etc., there is evidence that supports the specific measure focus as follows:
 - Intermediate outcome - evidence that the measured intermediate outcome (e.g., blood pressure, Hba1c) leads to improved health/avoidance of harm or cost/benefit.
 - Process - evidence that the measured clinical or administrative process leads to improved health/avoidance of harm and
if the measure focus is on one step in a multi-step care process, it measures the step that has the greatest effect on improving the specified desired outcome(s).
 - Structure - evidence that the measured structure supports the consistent delivery of effective processes or access that lead to improved health/avoidance of harm or cost/benefit.
 - Patient experience - evidence that an association exists between the measure of patient experience of health care and the outcomes, values and preferences of individuals/ the public.
 - Access - evidence that an association exists between access to a health service and the outcomes of, or experience with, care.
 - Efficiency - demonstration of an association between the measured resource use and level of performance with respect to one or more of the other five IOM aims of quality.