

Age-Friendly Health Systems: Measures Guide

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Introduction

The <u>Age-Friendly Health Systems: Guide to Using the 4Ms in the Care of Older Adults</u> describes a "recipe" for reliably integrating the 4Ms (What Matters, Medication,

Mentation, Mobility) into your standard care. These steps include:

- 1. Understand your current state
- 2. Describe care consistent with the 4Ms
- 3. Design or adapt your workflow
- 4. Provide care
- 5. Study your performance
- 6. Improve and sustain care

The measures outlined in this Measures Guide help you with Step 5: Study your performance.

Data for Improvement

Below you will find a set of outcome and process measures with operational definitions. You can use these measures to understand whether the changes you are making result in improvement.

We also encourage you to test and study results from a small number of conversations with older adults or family or other caregivers for adults unable to speak for themselves. Gathering this qualitative data will complement the core set of numerical measures.

The conversation outline is contained in <u>Appendix A</u>.

Overview of Measures

	Hospital Site of Care	Ambulatory/Primary Care Site of Care	
4Ms Measure			
Older Adults Receiving Age- Friendly (4Ms) Care			
Basic Outcome Measures			
30-Day All-Cause Readmission Rate	x		
Rate of Emergency Department (ED) Visits		Х	
Consumer Assessment of Healthcare Providers and Systems (CAHPS) – Select survey questions	HCAHPS	CG-CAHPS	
Average Length of Stay	Х		
Advanced Outcome Measures			
Older Adults with Diagnosis of Delirium	x		
Survey of Care Concordance with What Matters (collaboRATE or similar tool adopted by your system to measure goal-concordant care)	X	X	

Stratifying Data by Race and Ethnicity to Understand and Address Inequities

We recognize the persistence of important differences in treatment and health outcomes associated with race, ethnicity, and other social factors. Health equity requires that health systems stratify key performance measures by these factors to reveal inequities and spur action to eliminate them. For Age-Friendly Health Systems, we strongly encourage you to stratify outcome measures for older adults using the <u>Office of</u> <u>Management and Budget core race and ethnicity factors</u> to identify inequities in patient care and experience.

We find these definitions helpful for teams when beginning the work of looking at data through an equity lens.

- **Health Equity**: Everyone has a fair and just opportunity to be healthier, which requires removing obstacles to health such as poverty, discrimination, and their consequences, including powerlessness and the lack of access to good jobs with fair pay, as well as the lack of quality education and housing, safe environments, and health care.¹
- **Health Inequity:** Differences in health outcomes between groups within a population that are systematic, avoidable, and unjust.²

Measures for Process Improvement

Teams working to provide 4Ms care to every older adult in their care typically track aspects of 4Ms care as they test changes to workflow in order to monitor if the changes are resulting in improvement. <u>Appendix B</u> specifies a set of process measures that teams have found useful to monitor the impact of tests and to guide management action.

4Ms Measure

Hospital Site of Care

Measure Name	Older Adults Receiving Age-Friendly (4Ms) Care
Measure Description	Number of patient interactions for individuals 65 years and older who receive age-friendly (4Ms) care as described by the hospital
Site	Hospital unit, hospital, or set of hospitals
Population Measured	Patients 65 years and older
Measurement Period	Monthly
Count	Inclusion: All patients 65 years and older with length of stay (LOS) greater than or equal to 1 day who are present on the unit between 12:01 AM on the first day of the measurement period and 11:59 PM on the last day of the measurement period who receive the unit's description of 4Ms care.
Measure Notes	The measure may be applied to units within a system as well as the entire system. See the Age-Friendly Health Systems: Guide to Using the 4Ms in the Care of Older Adults, specifically the 4Ms Care Description Worksheet in Appendix C, to describe 4Ms care for your unit. To be considered age-friendly (4Ms) care, you must engage or screen all patients 65 years and older for all 4Ms, document the results, and act on them as appropriate. If a total count is not possible, you can sample (e.g., audit 20 patient charts) and estimate the total as the number of patients receiving 4Ms care/20 x total number of patients cared for in the measurement period. If you are sampling, please note that when sharing data. Once you have established 4Ms care as the standard of care on your unit, validated by regular observation and process review, you can estimate the number of patients receiving 4Ms care as the number of patients cared for by the unit. You do not need to filter the number of patients by unique medical record number (MRN).

Ambulatory/Primary Care Site of Care

Measure Name	Older Adults Receiving Age-Friendly (4Ms) Care
Measure Description	Number of patient interactions for individuals 65 years and older who receive age-friendly (4Ms) care as described by the measuring unit
Site	Ambulatory/primary care
Population Measured	Patients 65 years and older
Measurement Period	Monthly
Count	Inclusion: All patients 65 years and older in the population considered to be patients of the ambulatory or primary care practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years) who have an office visit, home visit, or tele-medicine visit with the practice during the measurement period and who receive 4Ms care as defined by the site.
Measure Notes	The measure may be applied to units within a system as well as the entire system. See the Age-Friendly Health Systems: Guide to Using the 4Ms in the Care of Older Adults, specifically the 4Ms Age-Friendly Care Description Worksheet, to describe 4Ms care for your unit. To be considered age-friendly (4Ms) care, you must engage or screen all patients 65 years and older for all 4Ms, document the results, and act on them as appropriate. Note that 4Ms care screening in primary care may be defined as screening within the previous 12 months. If a total count is not possible, you can sample (e.g., audit 20 patient charts) and estimate the total as the number of patients receiving 4Ms care/20 x total number of patients cared for in the measurement period. If you are sampling, please note that when sharing data. Once you have established 4Ms care as the standard of care on your unit, validated by regular observation and process review, you can estimate the number of patients receiving 4Ms care as the number of patients receiving 4Ms care for patients receiving 4Ms care as the number of patient of care on your unit, validated by regular observation and process review, you can estimate the number of patients receiving 4Ms care as the number of patients cared for by the unit.
	You do not need to filter the number of patients by unique medical record number (MRN).

Hospital Outcome Measures

Basic Outcome Measures

Measure Name	30-Day All-Cause Readmission Rate		
Measure Description	Percentage of patients 65 years and older who are readmitted to hospital within 30 days following discharge		
Site	Hospital unit, hospital, or set of hospitals		
Population Measured	Patients 65 years and older		
Measurement Period	Choose monthly or quarterly (monthly measurement can reveal signals of change faster than quarterly measurement; however, monthly measurement may yield low numbers of readmitted patients and make it difficult to interpret the measurement time series)		
Denominator	Inclusions: Patient discharged from a specific set of care units in the measurement period Exclusions: None		
Numerator	Inclusions: Number of patients in the denominator who are readmitted to a specific set of hospitals within 30 days of discharge for any reason Exclusions: None		
Data Source	Administrative and health records		
Method Details	 Lower is better. The "specific set of hospitals" is key to calculation of the rate. Here is an example definition from a hospital system with two large hospitals (A and B) and three small satellite hospitals: Count the number of patients who had an inpatient stay in either hospital A or B and were readmitted to any of the five hospitals in our system within 30 days for any reason. For this system, the specific set of hospitals consists of the two large hospitals and the three small hospitals. 		

	If a system has a data-sharing arrangement with hospitals not in its system, then the defined set of hospitals can be larger than the number of hospitals in the system.
3.	The readmission measure need not be identical across units of care. The intention is that each hospital or system will be able to monitor impact of changes over time, not to create rankings or league tables across systems.
4.	Recent literature raises the issue that focus on 30-day readmissions, especially for conditions covered by the Centers for Medicare and Medicaid Services (CMS) Hospital Readmissions Reduction Program (HRRP) may cause an increase in mortality — e.g., Wadhera RK, Joynt Maddox KE, Wasfy JH, et al. Association of the Hospital Readmissions Reduction Program with mortality among Medicare beneficiaries hospitalized for heart failure, acute myocardial infarction, and pneumonia. <i>JAMA</i> . 2018;320(24):2542-2552.
	"Among Medicare beneficiaries, the HRRP was significantly associated with an increase in 30-day post-discharge mortality after hospitalization for HF and pneumonia, but not for AMI. Given the study design and the lack of significant association of the HRRP with mortality within 45 days of admission, further research is needed to understand whether the increase in 30-day post-discharge mortality is a result of the policy."

Measure Name	Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Overall Experience		
Measure Description	Top-box percentages for two HCAHPS questions for patients 65 years and older: (a) Rating of hospital (0-10) and (b) Recommendation to friends and family		
Site	Hospital unit, hospital, or set of hospitals		
Population Measured	Patients 65 years and older		
Measurement Period	Quarterly		
Denominator	Patients responding to HCAHPS survey		
Numerator	Patients responding "top-box" to specified questions		
Data Source	HCAHPS data		
Method Details	 "Top-box" is explained here: <u>https://www.hcahpsonline.org/en/summary-analyses/</u> 		
	 Stratification of responses by age is the only difference between the standard HCAHPS measures and the proposed measures. 		
	 Rather than using the entire set of responses to calculate patient experience, responses will need to be put into age strata and then responses calculated. 		
	 Stratification may lead to smaller numbers than recommended for detailed analysis. 		
	 Obtain 12 months of survey responses stratified by age group to determine median number of responses. If the median monthly number of responses is 10 or more per month in each stratum, run charts of the HCAHPS scores are likely to be informative. If median monthly numbers are less than 10 per month per stratum, pool the monthly numbers into quarterly values. 		
	3. While any of the individual questions or composite scores (e.g., physician communication) may be tracked, we propose focus on the two questions related to overall experience and willingness to recommend.		

Measure Name	Average Length of Stay	
Measure Description	Average length of stay for patients 65 years and older	
Site	Hospital unit, hospital, or set of hospitals	
Population Measured	Patients 65 years and older discharged from the hospital site during the measurement period, where age is determined at date of admission	
Measurement Period	Monthly	
Denominator	Inclusions: Patients who are discharged from the hospital site during the measurement period or who die in hospital site during the measurement period Exclusions: None	
Numerator	Sum of length of stay for each patient in the denominator, calculated as: a) date of discharge - date of admission + 1 for patients who are discharged, or b) date of death - date of admission + 1 for patients who die during the measurement period.	
	Exclusions: None	
Measure Notes	 The measure outlined here is a raw measure. There are no proposed exclusions or adjustments for risk. 	
	 If the hospital uses a length of stay measure as part of its regular reporting calculated by a different formula, the hospital should continue to use that definition applied to patients 65 years and older. 	
	 We encourage hospitals to review the distribution of length of stay records to understand impact of care and changes to care on the patients with relatively long stays. 	

Advanced Outcome Measures

Measure Name	Older Adults with Diagnosis of Delirium
Measure Description	Percentage of patients 65 years and older with positive result on delirium assessment
Site	Hospital unit, hospital, or set of hospitals
Population Measured	Patients 65 years and older
Measurement Period	Monthly
Denominator	Inclusion: Patients with length of stay greater than or equal to 1 day who are present on each unit used in calculation of the measure between 12:01 AM on the first day of the measurement period and 11:59 PM on the last day of the measurement period Exclusion: None
Numerator	Inclusion: Patients with positive result on delirium assessment Exclusion: None
Data Source	Health records
Method Details	 Lower is better. Useful delirium rate data presupposes agreement on protocols for delirium screening, diagnosis, and documentation, linked to design and application of appropriate workflows in all nursing units. This measurement "pre-work" should be matched with protocols for delirium prevention and response, with appropriate workflows. For a case example, see: Allen KR, Fosnight SM,Wilford R, et al. Implementation of a system-wide quality improvement project to prevent delirium in hospitalized patients. <i>JCOM</i>. 2011;18(6):253-258. An alternative to use of health records to identify patients with delirium is to use claims data, querying ICD-10 codes in series F05, F13 (.121,.221,.231,.921,.931), and F19 (121,.221,.231,.921,.931). Claims data typically will lag clinical treatment and actions, hence claims-based

	measurement may be less useful for improvement work. Please note that initial experience with claims data indicates that it will underestimate delirium incidence relative to health records in sites that use screening tools reliably, with positive screens followed by clinical determination.
4.	For units with small numbers of patients, consider these alternatives to the rate measure, which require counting of patient days:
	a. Number of patient days with delirium per 1,000 patient days; orb. Number of patient days between cases of delirium.
5.	As your system improves consistency of documentation of delirium, delirium rate is likely to increase at least in the short term. Communicate this likelihood to your team and managers.

Measure Name	Survey of Care Concordance with What Matters
Measure Description	Percentage collaboRATE top-box score for patients 65 years and older
Site	Hospital unit, hospital, or set of hospitals
Population Measured	Patients 65 years and older
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)
Denominator	Number of completed surveys returned from patients Inclusion: Patients with length of stay greater than or equal to 1 day present on the unit between 12:01 AM on the first day of the measurement period and 11:59 PM on the last day of the measurement period Exclusions: None
Numerator	Count of surveys with top-box answers to all three questions ("all or nothing" score) Exclusions: None
Method Details	 For patients cognitively unable to respond to the questions, use the proxy version of collaboRATE.

2.	PDF versions of the collaboRATE scale are available at: <u>http://www.glynelwyn.com/collaborate-measure.html</u> . We recommend the 10-point scale version, available in multiple languages and in proxy form.
3.	Measure development notes suggest: a) a minimum of 25 completed surveys to compute a top-box percentage; and b) the importance of respondent confidentiality: <u>http://www.glynelwyn.com/scoring-collaboRATE.html</u>
4.	To support informed analysis and interpretation, units should track the total number of patients approached to obtain the number of completed surveys.
5.	To address survey burden for staff and patients, there are two options for sampling: Ask every k-th patient such that $N/(m^*k) \ge 25$ for the measurement period OR gather responses from 25*m consecutive patients during the measurement period (a "pulse" approach). Here N is the expected number of patients in the population in the measurement period and m is a factor that accounts for refusal to respond to the survey. Typical ranges of m are 2.5 to 4 (personal communication with G. Elwyn, 30 May 2018).
6.	Paper/manual data tools will work for initial testing but are not likely to scale. Organizations will need to develop information technology to allow patients to respond to the questions and to summarize the measurement with low effort.

Ambulatory/Primary Care Outcome Measures

Basic Outcome Measures

Measure Name	Rate of Emergency Department (ED) visits	
Measure Description	Emergency department visits per 1,000 for patients 65 years and older	
Site	Primary care	
Population Measured	Patients 65 years and older	
Measurement Period	Monthly	
Denominator	Inclusion: All patients in the population considered to be patients of the primary care practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years)	
	Exclusions: None	
Numerator	Inclusion: Number of ED visits by patients in the denominator in the measurement month	
	Exclusions: None	
Data Source	Health records	
Method Details	1. Lower is better.	
	 The calculation of the denominator depends on the definition of association of patients to the practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years). 	
	3. The calculation of the numerator depends on the sharing of medical record information between the primary care practice and a specific set of EDs. Integrated health systems typically will have fewer obstacles in calculating the numerator for patients seen in EDs within their system. Independent primary care practices often will have information on their patients from "nearby" EDs, defined by custom.	

As this measure is proposed to be calculated from health records rather than claims data, we expect that a small number of ED visits may be missed in a month (e.g., visits by patients who are traveling far from home and have a visit to an ED that does not share information with the primary care practice.) However, we expect the small number of missed visits to be relatively constant month-to-month, with consequently modest impact on usefulness of the measure as an indicator of ED utilization by older patients.
Example calculation : The proposed measurement period is monthly. Calculate the denominator, calculate the numerator, and normalize the rate.
In August 2018, 2,000 patients considered to be patients of the primary care clinic were aged 65 years and older. For those 2,000 patients, there were 110 ED visits. So calculate: $(110/2,000) \times 1,000 = 55$ ED visits per 1,000 patients ages 65 years and older.

Measure Name	Consumer Assessment of Healthcare Providers and Systems – Clinical and Group Survey (CG-CAHPS) Rating of Communication (Composite)	
Measure Description	Top-box percentage for CG-CAHPS communication questions composite for patients 65 years and older	
Site	Primary care	
Population Measured	Patients in two age strata: 65-74, 75 years and older (corresponding to structure of the standard age stratification question included in CG-CAHPS core questions)	
Measurement Period	Monthly	
Denominator	4	
Numerator	"Top-box" percentage for each of the component questions in the communications composite	
Data Source	CG-CAHPS data	
Method Details	 The questions in the communication composite are numbered 11, 12, 14, and 15 in the basic CG-CAHPS version 3.0: 	

 https://www.ahrq.gov/sites/default/files/wysiwyg/cahps/surve ys-guidance/cg/survey3.0/adult-eng-cg30-2351a.pdf In the last 6 months, how often did this provider explain things in a way that was easy to understand? In the last 6 months, how often did this provider listen carefully to you? In the last 6 months, how often did this provider show respect for what you had to say? In the last 6 months, how often did this provider spend enough time with you?
 Calculation of "top-box" for composite scores is explained here as a simple average of individual question "top-box" scores: <u>https://cahpsdatabase.ahrq.gov/cahpsidb/Public/Files/Doc6_CG_How_Results_are_Calculated_2012.pdf</u>
 3. Stratification of responses by age is the only difference between the standard CG-CAHPS measures and the proposed measures. a. Rather than using the entire set of responses to calculate patient experience, responses will need to be put into age strata and then responses calculated. b. Stratification may lead to smaller numbers than recommended for detailed analysis. i. Obtain 12 months of survey responses stratified by age group to determine median number of responses is 10 or more per month in each stratum, run charts of the CG-CAHPS scores are likely to be informative. If median monthly numbers are less than 10 per month per stratum, pool the monthly numbers into quarterly values.
 Measure is to be aggregated over all providers in the ambulatory or primary care organization.

Measure Name	Consumer Assessment of Healthcare Providers and Systems – Clinical and Group Survey (CG-CAHPS) Rating of Medication
Measure Description	"Top-box" percentage for CG-CAHPS medication question for patients 65 years and older
Site	Primary care
Population Measured	Patients in two age strata: 65-74, 75 years and older (corresponding to structure of the standard age stratification question included in CG-CAHPS core questions)

Measurement Period	Monthly	
Denominator	Patients responding to CG-CAHPS survey	
Numerator	Patients responding "top-box" to the specified question	
Data Source	CG-CAHPS data	
Method Details	 The medication question is number 20 in the basic CG- CAHPS version 3.0 survey: https://www.ahrq.gov/sites/default/files/wysiwyg/cahps/surve ys-guidance/cg/survey3.0/adult-eng-cg30-2351a.pdf In the last 6 months, how often did you and someone from this provider's office talk about all the prescription medicines you were taking? "Top-box" is explained here: https://cahpsdatabase.ahrq.gov/cahpsidb/Public/Files/Doc6 CG How Results are Calculated 2012.pdf Stratification of responses by age is the only difference between the standard CG-CAHPS measure and the proposed measure. Rather than using the entire set of responses to calculate patient experience, responses will need to be put into age strata and then responses calculated. Stratification may lead to smaller numbers than recommended for detailed analysis. Obtain 12 months of survey responses stratified by age group to determine median number of responses. If the median monthly number of responses is 10 or more per month in each stratum, run charts of the CG-CAHPS scores are likely to be informative. If median monthly numbers are less than 10 per month per stratum, pool the monthly numbers into quarterly values. Measure is to be aggregated over all providers in the ambulatory or primary care organization. 	

Advanced Outcome Measure

Measure Name	Survey of Care Concordance with What Matters	
Measure Description	Percentage collaboRATE top-box score for patients 65 years and older	
Site	Primary care	
Population Measured	Patients 65 years and older	
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)	
Denominator	Number of completed surveys returned from patients	
	Inclusions: Patients in the population seen for any reason by the primary care unit during the measurement period	
	Exclusions: None	
Numerator	Count of surveys with top-box answers to all three questions ("all or nothing" score)	
	Exclusions: None	
Method Details	 For patients cognitively unable to respond to the questions, use the proxy version of collaboRATE. 	
	2. PDF versions of the collaboRATE scale are available at: <u>http://www.glynelwyn.com/collaborate-measure.html</u> . We recommend the 10-point scale version, available in multiple languages and in proxy form.	
	 Measure development notes suggest: a) A minimum of 25 completed surveys to compute a top-box percentage; and b) The importance of respondent confidentiality: <u>http://www.glynelwyn.com/scoring-collaboRATE.html</u> 	
	4. To support informed analysis and interpretation, units should track the total number of patients approached to obtain the number of completed surveys.	
	 To address survey burden for staff and patients, there are two options for sampling: Ask every k-th patient such that N/(m*k) >= 25 for the measurement period OR gather responses from 25*m consecutive patients during the measurement period (a "pulse" approach). Here N is the 	

	expected number of patients in the population in the measurement period and m is a factor that accounts for refusal to respond to the survey. Typical ranges of m are 2.5 to 4 (personal communication with G. Elwyn, 30 May 2018).
6.	Paper/manual data tools will work for initial testing but are not likely to scale. Organizations will need to develop information technology to allow patients to respond to the questions and to summarize the measurement with low effort.

Appendix A: Conversations with Older Adults and Caregivers about Age-Friendly (4Ms) Care

We encourage each site of care to test conversations with older adults about Age-Friendly (4Ms) care. We expect you to gain insights into your system and perceptions of the older adults and/or their caregivers of their health care.

Test 1

Plan: Invite one older adult or caregiver to have a conversation with you for a few minutes about their experience of care. Explain that your team or site of care aims to improve the care for older adults and is seeking insights and reactions. Try these two questions:

- What works well in your health care now that we should keep doing?
- What should we change to make your health care better?

Listen and make notes of the answers.

Your predictions might include:

- Your invitation will be accepted.
- You can ask the two questions.
- You will hear at least one surprising observation or perception.
- The conversation will last less than 10 minutes.

Do: Carry out the conversation using your plan.

Study: Compare predictions to the actual conversation. Also, did you learn anything about how to engage an older adult in a conversation about their experience of health care? Do you want to modify the way you introduce your request or the words you use to ask the questions?

Act: Plan the next test cycle.

Test 2

Plan: Invite a sequence of five older adults and caregivers to have one-on-one conversations with you for a few minutes about their experience of care. As before, explain the reasons for the conversation and use your two questions.

Listen and make notes of the answers.

Your predictions might include:

- Your invitations will be accepted by at least four of the five people.
- You can ask the two questions.
- You will hear at least one surprising observation or perception from at least three people.

• The conversations will last less than 10 minutes on average.

Do: Carry out the conversations using your plan.

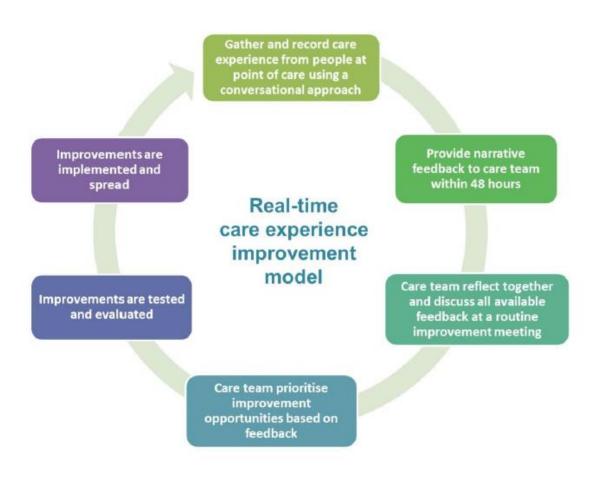
Study: Compare predictions to the actual conversation. Also, did you learn anything about how to engage an older adult in conversation about their experience of health care? Do you want to modify the way you introduce your request or the words you use to ask the questions?

Act: Decide if you will continue to test conversations with older adults. What would it take to have a few conversations every month with older adults in your care? How will you act on what you learn?

A Note on Conversations with Patients

A multi-site test by NHS Scotland³ demonstrates that a regular, recurring sequence of conversations with patients can drive changes in care systems. According to the NHS Scotland study, hearing a patient's direct words has the power to inspire teams to change practices to improve performance. This method explicitly linked a patient's words to a structured improvement method, which both form a learning cycle (see Figure 1).

Figure 1. Real-Time Care Experience Improvement Model



Appendix B: Process Measures

Overview of Process Measures

Process Measure	Hospital Site of Care	Ambulatory/Primary Care Site of Care
What Matters Documentation	x	x
Older Adults on Targeted Medications	x	х
Delirium Screening	Х	
Dementia Screening		х
Depression Screening		Х
Mobility Screening	Х	Х

Hospital Process Measures

Measure Name	What Matters Documentation
Measure Description	Percentage of patients 65 years and older with documentation of What Matters
Site	Hospital unit, hospital, or set of hospitals
Population Measured	Patients 65 years and older
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)
Denominator	Inclusion: Patients with length of stay greater than or equal to 1 day who are present on the unit between 12:01 AM on the first day of the measurement period and 11:59 PM on the last day of the measurement period
	Exclusions: None

Numerator	Inclusion: Patients in the denominator with documentation of What Matters per the unit's definition of What Matters Exclusions: None	
Data Source	Health records	
Method Details	 For patients unable to speak for themselves, your What Matters engagement should include interaction with an appropriate health care agent to understand What Matters. Note about patients who decline to engage in discussion of What Matters in a specific encounter: Our recommendation: Your procedure should allow for patients to decline to discuss What Matters. A patient who declines to answer "counts" in the numerator. You will have to judge whether the percentage of patients who decline to answer is acceptable. If too high, then you have a target for study and improvement. Asking What Matters is defined by the unit for the patients it serves. At minimum, asking What Matters involves: a) querying the medical record for existing documentation of What Matters and care wishes; and b) engaging the patient or health care agent in discussion of What Matters as defined by the unit. Documentation standard is defined by the unit for the patients it serves; the standard describes documentation content and method of recording content. If a nautomated report is possible, calculate the denominator and numerator. If a complete manual tally is possible, calculate the denominator and numerator. If neither an automated report nor a complete tally is possible, sample records at the end of the measurement period and calculate the denominator and numerator. You can apply a stopping rule to further reduce measurement burden. What Matters documentation focuses on What Matters to the older adult; it is not intended to be a specific measure of advance care planning (such as NQF 0326). 	

Measure Name	Older Adults on Targeted Medications ⁴
Measure Description	Percentage of patients 65 years and older with active use of one or more medications on target list
Site	Hospital unit, hospital, or set of hospitals
Population Measured	Patients 65 years and older
Measurement Period	Monthly
Denominator	Inclusion: Patients with length of stay greater than or equal to 1 day who are present on the unit between 12:01 AM on the first day of the measurement period and 11:59 PM on the last day of the measurement period Exclusions: None
Numerator	Inclusion: Patients in the denominator with active use of one or more medications on target list in <u>Appendix C: Tables of Medications</u> . Exclusions: None
Data Source	Health records/Pharmacy administration records
Method Details	 This measure is still under development. We anticipate further testing to refine the measure. The target list of medications in <u>Appendix C</u>: Tables of Medications combines the medications named in measures developed by the Pharmacy Quality Alliance (PQA, <u>www.pqaalliance.org</u>) specifically, <i>Polypharmacy:</i> Use of Multiple Anticholinergic Medications in Older Adults (POL Y-ACH) and Concurrent Use of Opioids and Benzodiazepines (COB). Tables are used with permission of PQA with the understanding that this initiative measure does not represent a current measure endorsed by PQA. Over-the-counter (OTC) drugs, sleep aids, and sedatives can also be problematic. If any OTC medications will trigger inclusion of a patient in the numerator. There are clinically appropriate uses for medications on the target list, individually and in combination. The medication use. To more closely align with PQA measures, we considered splitting this single medication measure into two measures, one focused on anticholinergic medications and the other on concurrent use of opioids and the other on concurrent use of opioids and benzodiazepines. Based on current expert discussion and recommendations, we opted for a single measure.

3. Active use is defined by medications administered to the patient between admission and discharge (as defined by the pharmacy administration records).	
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Measure Name	Delirium Screening
Measure Description	Percentage of patients 65 years and older screened for delirium
Site	Hospital unit, hospital, or set of hospitals
Population Measured	Patients 65 years and older
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)
Denominator	Inclusion: Patients with length of stay greater than or equal to 1 day who are present on the unit between 12:01 AM on the first day of the measurement period and 11:59 PM on the last day of the measurement period
	Exclusions: None
Numerator	Inclusion: Patients in the denominator screened for delirium according to the standard procedure established on the unit
Data Source	Health records
Method Details	 Standard procedure should include a screen for delirium at least every 12 hours using an instrument such as the <u>Ultra-Brief 2-Item Screener (UB-2)</u> and documentation in the medical record. Note that the screening protocol complements delirium prevention and management protocols that include, for example, medications, mobility, oral hydration, orientation, and nonpharmacological sleep support.

Measure Name	Mobility Screening	
Measure Description	Percentage of patients 65 years and older screened for mobility	
Site	Hospital unit, hospital, or set of hospitals	
Population Measured	Patients 65 years and older	
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)	
Denominator	Inclusion: Patients with length of stay greater than or equal to 1 day who are present on the unit between 12:01 AM on the first day of the measurement period and 11:59 PM on the last day of the measurement period Exclusions: None	
Numerator	Inclusion: Patients in the denominator screened for mobility according to the standard procedure established on the unit Exclusions: None	
Data Source	Health records	
Method Details	 The standard procedure should include, at a minimum: Assess mobility status of the patient in one of three categories: a) bedbound at admission; b) chair-bound at admission; or c) neither (a) nor (b). If status (c), further assess the patient with a validated tool (e.g., <u>Timed Up & Go (TUG)</u>, physical therapy evaluation). Document assessment in the medical record. 	

Ambulatory/Primary Care Process Measures

Measure Name	What Matters Documentation	
Measure Description	Percentage of patients 65 and older with documentation of What Matters	
Site	Primary care	
Population Measured	Patients 65 years and older	
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)	
Denominator	Inclusion: All patients in the population considered to be patients of the primary care practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years) who have an office visit, home visit, or tele-medicine visit with the practice during the measurement period	
	Exclusions: None	
Numerator	Inclusion: Patients in the denominator with documentation of What Matters within 12 months of the most recent office visit, home visit, or tele-medicine visit in the measurement month, per the primary care unit's definition of What Matters Exclusions: None	
Data Source	Health records	
Method Details	 For patients unable to speak for themselves, your What Matters engagement should include interaction with an appropriate health care agent to understand What Matters. Note about patients who decline to engage in discussion of What Matters in a specific encounter: Our recommendation: Your procedure should allow for patients to decline to discuss What Matters. A patient who declines to answer in the course of your standard engagement "counts" in the numerator. You will have to judge whether the percentage of patients who decline to answer is acceptable. If too high, then you have a target for study and improvement. The process of asking What Matters is defined by the primary care practice for the patients it serves. At minimum, asking What Matters involves: a) querying the medical record for existing documentation of What Matters and care wishes; and b) engaging the patient or health care agent in discussion of What Matters as defined by the unit. 	

3.	Documentation standard is defined by the primary care practice for the patients it serves; the standard describes documentation content and method of recording content.
4.	If an automated report is possible, calculate the denominator and numerator.
5.	If a complete manual tally is possible, calculate the denominator and numerator.
6.	If neither an automated report nor a complete tally is possible, sample records at the end of the measurement period and calculate the denominator and numerator. You can apply a stopping rule to further reduce measurement burden.
7.	What Matters documentation focuses on What Matters to the older adult; it is not intended to be a specific measure of advance care planning (such as NQF 0326).

Measure Name	Older Adults on Targeted Medications ⁵
Measure Description	Percentage of patients 65 years and older with active use of one or more medications on target list
Site	Primary care
Population Measured	Patients 65 years and older
Measurement Period	Monthly
Denominator	Inclusion: All patients in the population considered to be patients of the primary care practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years) who have an office visit, home visit, or tele-medicine visit with the practice during the measurement period Exclusions: None
Numerator	Inclusion: Patients in the denominator with active use of one or more medications on target list in <u>Appendix C: Tables of Medications</u> Exclusions: None
Data Source	Health records

Method Details	 This measure is still under development. We anticipate further testing to refine the measure.
	2. The target list of medications in <u>Appendix C</u> : Tables of Medications combines the medications named in measures developed by the Pharmacy Quality Alliance (PQA, <u>www.pqaalliance.org</u>) specifically, <i>Polypharmacy:</i> <i>Use of Multiple Anticholinergic Medications in Older Adults (POLY-ACH)</i> and <i>Concurrent Use of Opioids and Benzodiazepines (COB)</i> . Tables are used with permission of PQA with the understanding that this initiative measure does not represent a current measure endorsed by PQA.
	 a. Over-the-counter (OTC) drugs, sleep aids, and sedatives can also be problematic. If any OTC medications have ingredients on the target list, then use of these OTC medications will trigger inclusion of a patient in the numerator. b. There are clinically appropriate uses for medications on the target list, individually and in combination. The medication measure is intended to help you characterize the extent of medication use. c. To more closely align with PQA measures, we considered splitting this single medication measure into two measures, one focused on anticholinergic medications and the other on concurrent use of opioids and benzodiazepines. Based on current expert discussion and recommendations, we opted for a single measure.
	 Active use is defined by active medications in the medical record (e.g., "Current Medications" items in a discharge note or items viewed by patient in patient portal. In Epic MyChart, Health > Medications. In Cerner, clinicians can access medications through use of the Dynamic Work List function and filter on current medications.)

Measure Name	Dementia Screening
Measure Description	Percentage of patients 65 years and older screened for dementia
Site	Primary care
Population Measured	Patients 65 years and older
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)
Denominator	Inclusion: All patients in the population considered to be patients of the primary care practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years) who have an office visit, home visit, or tele-medicine visit with the practice during the measurement period

	Exclusions: Patients with diagnosis of dementia (major neurocognitive disorder); patients who refuse the screen with documentation of refusal and do not have documentation of a screen within the past 12 months
Numerator	Inclusion: Patients in the denominator with documentation of dementia screening within 12 months of the most recent office visit, home visit, or tele- medicine visit during the measurement period Exclusions: None
Data Source	Health records
Method Details	 Exclusion of patients who refuse the screen with documentation of refusal AND do not have a screen in the past 12 months is technically a denominator exception. However, since the effect is to remove such patients from the denominator count, we use the single term "exclusion."
	 Based on clinical judgment, patients may be screened more frequently than once every 12 months.
	3. A recommended screening instrument is the Mini-Cog [©] .
	4. While the US Preventive Services Task Force in March 2014 concluded that then current evidence was "insufficient to assess the balance of benefits and harms of screening for cognitive impairment," ⁶ screening for dementia is a core part of the 4Ms and is currently promoted by CMS as part of Annual Wellness exams.

Measure Name	Depression Screening
Measure Description	Percentage of patients 65 years and older screened for depression
Site	Primary care
Population Measured	Patients 65 years and older
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)
Denominator	Inclusion: All patients in the population considered to be patients of the primary care practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years) who have an office visit, home visit, or tele-medicine visit with the practice during the measurement period

	Exclusions: Patients with active diagnosis of depression or bipolar disorder; patients currently in hospice; patients who refuse the screen with documentation of refusal and do not have documentation of a screen within the past 12 months
Numerator	Inclusion: Patients in the denominator with documentation of depression screening within 12 months of the most recent office visit, home visit, or tele- medicine visit with the practice during the measurement period Exclusions: None
Data Source	Health records
Method Details	 HEDIS 2018 measure "Depression Screening and Follow-up for Adolescents and Adults (DSF)" provides relevant background for screening tools and exclusions in the context of annual measurement using electronic clinical data records. NQF 0418, "Preventive Care and Screening: Screening for Depression and Follow-Up Plan," based on claims data, targets the same population and process actions.
	 Persons with dementia require special screening. "Depression screening in persons with dementia is hindered at times by the patient's inability to self- report symptoms and tendency to underestimate degree of depression, and discrepant caregiver reports (<u>Teri, Wagner, 1991</u>). The assessment of depression in dementia is complicated by the considerable overlap in its clinical presentation with that of dementia." Brown, EL, et al. Evidence- based guideline: Detection of depression in older adults with dementia <i>J.</i> <i>Gerontol Nurs.</i> 2009;35(2):11-15. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2891505/#R28</u>
	3. Organizations should seek to develop and apply a "pragmatic approach" to depression screening. "There is little evidence regarding the optimal timing for screening. The optimum interval for screening for depression is also unknown; more evidence for all populations is needed to identify ideal screening intervals. A pragmatic approach in the absence of data might include screening all adults who have not been screened previously and using clinical judgment in consideration of risk factors, comorbid conditions, and life events to determine if additional screening of high-risk patients is warranted." US Preventive Services Task Force Recommendation Statement. Screening for Depression in Adults. January 26, 2016. https://jamanetwork.com/journals/jama/fullarticle/2484345

Measure Name	Mobility Screening
Measure Description	Percentage of patients 65 years and older screened for mobility
Site	Primary care
Population Measured	Patients 65 years and older
Measurement Period	Choose weekly or monthly (weekly measurement will support faster testing/learning cycles but has consequently higher measurement burden and may not be feasible)
Denominator	Inclusion: All patients in the population considered to be patients of the primary care practice (e.g., patient assigned to a care team panel and seen by the practice within the past three years) who have an office visit, home visit, or tele-medicine visit with the practice during the measurement period Exclusions: None
Numerator	Inclusion: Patients in the denominator with documentation of a mobility screening within 12 months of the most recent office visit, home visit, or tele- medicine visit Exclusions: None
Data Source	Health records
Method Details	 The mobility screening standard should include at a minimum: Assess mobility status of patient in one of two categories: a) non-ambulatory; or b) ambulatory. If ambulatory, further assess the patient with a validated tool (e.g., <u>Timed Up & Go (TUG)</u>, <u>Performance-Oriented Mobility Assessment (POMA)</u>, physical therapy evaluation). Document assessment in the medical record. If (a) non-ambulatory, document degree of assistance needed. If (b) ambulatory, document results from assessment tool. Based on clinical judgment, patients may be screened more frequently than once every 12 months.

Appendix C: Tables of Medications

The tables POLY-ACH-A, COB-A, and COB-B together represent the target list of medications in the measure "Patients on Targeted Medications."

Table POLY-ACH-A: Anticholinergic Medications (from PQA Measure Polypharmacy: Use of Multiple Anticholinergic Medications in Older Adults [POLY-ACH])

Ar	ntihistamines				
•	brompheniramine	•	dexbrompheniramine	•	hydroxyzine
•	carbinoxamine	•	dexchlorpheniramine	•	meclizine
•	chlorpheniramine	•	dimenhydrinate	•	pyrilamine
•	clemastine	•	diphenhydramine (oral)	•	triprolidine
•	cyproheptadine	•	doxylamine		
Ar	tiparkinsonian Agents	-		-	
•	benztropine	•	trihexyphenidyl		
	eletal Muscle Relaxants				
-		r		<u> </u>	
•	cyclobenzaprine	•	orphenadrine		
Ar	ntidepressants	1	· · · ·	-	
٠	amitriptyline	•	doxepin (>6 mg/day) ^b	•	paroxetine
٠	amoxapine	•	imipramine	٠	protriptyline
٠	clomipramine	•	nortriptyline	•	trimipramine
٠	desipramine				
Ar	ntipsychotics				
٠	chlorpromazine	٠	olanzapine	•	thioridazine
٠	clozapine	•	perphenazine	•	trifluoperazine
٠	loxapine				
Ar	ntiarrhythmic				
٠	disopyramide				
Ar	ntimuscarinics (urinary incont	iner	nce)		
•	darifenacin	٠	oxybutynin	•	tolterodine
٠	fesoterodine	•	solifenacin	•	trospium
٠	flavoxate				
Ar	ntispasmodics	<u> </u>			
•	atropine (excludes	•	dicyclomine	•	methscopalamine
	ophthalmic)	•	homatropine (excludes	•	propantheline
٠	belladonna alkaloids		ophthalmic)	•	scopolamine (excludes
•	clidinium-chlordiazepoxide c	•	hyoscyamine		ophthalmic)
Ar	ntiemetic				
٠	prochlorperazine	•	promethazine		

Note (in general – unless otherwise specified): Includes combination products that contain a target medication listed and the following routes of administration: oral, transdermal, rectal, sublingual, and buccal. Injectable and inhalation routes of administration are not included (not able to accurately estimate days' supply needed for measure logic). For combination products that contain more than one target medication, each target medication (active ingredient) should be considered independently.

Table COB-A: Opioids^{a,b} (from PQA Measure Concurrent Use of Opioids and Benzodiazepines [COB])

Opioids							
benzhydrocodone	hydrocodone	• opium					
• buprenorphine ^c	hydromorphone	oxycodone					
butorphanol	 levorphanol 	oxymorphone					
codeine	meperidine	 pentazocine 					
dihydrocodeine	methadone	 tapentadol 					
 fentanyl 	morphine	tramadol					

^a Includes combination products and prescription opioid cough medications.

^b Excludes the following: injectable formulations; sufentanil (used in a supervised setting); and single-agent and combination buprenorphine products used to treat opioid use disorder (i.e., buprenorphine sublingual tablets, Probuphine® Implant kit subcutaneous implant, and all buprenorphine/naloxone combination products).

Table COB-B: Benzodiazepines^{a,b} (from PQA Measure *Concurrent Use of Opioids and Benzodiazepines* [COB])

Benzodiazepines							
 alprazolam 	 diazepam 	 oxazepam 					
chlordiazepoxide	 estazolam 	 quazepam 					
 clobazam 	 flurazepam 	 temazepam 					
 clonazepam 	 lorazepam 	 triazolam 					
clorazepate	midazolam						

^a Includes combination products.

^b Excludes injectable formulations.

This measure is not intended for clinical decision making. This measure is intended for retrospective evaluation of populations of patients and should not be used to guide clinical decisions for individual patients. For clinical guidance on opioid prescribing, see the <u>Centers for Disease Control and</u> <u>Prevention (CDC) Guideline for Prescribing Opioids for Chronic Pain and Guideline Resources</u>.

Appendix D: Balancing Measure

Impact on the Care Team: An Informal Qualitative Measure

Balancing measures detect unintended consequences of new interventions. This balancing measure assesses the impact of 4Ms care on the care team. The care team needs to know whether or not their approach to assessing and acting on the 4Ms is feasible in the short term and sustainable over the long term.

For example:

- Does engaging older adults in "What Matters" conversations cause stress to certain team members?
- Does the task of documentation create a burden?
- Does acting on what is learned from the "assess" stage fall short too often?

Too much stress or burden leads to inconsistent engagement in providing care consistent with the 4Ms and can contribute to staff burnout.

You don't need a formal survey or questionnaire to learn about work burden and barriers to reliable 4Ms care. Leaders should instead commit to regularly asking care team members (e.g., once a month) two questions:

- 1. What are we doing well in providing care consistent with the 4Ms?
- 2. What could we do better to provide care consistent with the 4Ms?

Tips for Using the Two Questions

- To encourage care team members to continue to respond to the two questions, it is critical to show that leaders are listening to their responses and acting on them. One approach is to engage the team in testing one or more ideas and discuss together what was learned, with the aim to make the 4Ms work easier.
- If the question responses are collected during a team huddle or meeting and recorded on a flipchart or whiteboard, take a digital photo so there is a time-stamped record.

References

¹ Braverman P, Arkin E, Orleans T, Proctor D, Plough A. *What Is Health Equity? And What Difference Does a Definition Make?* Princeton, NJ: Robert Wood Johnson Foundation; 2017.

² Wyatt R, Laderman M, Botwinick L, Mate K, Whittington J. *Achieving Health Equity: A Guide for Health Care Organizations*. IHI White Paper. Cambridge, MA: Institute for Healthcare Improvement; 2016. http://www.ihi.org/resources/Pages/IHIWhitePapers/Achieving-Health-Equity.aspx

³ *Real-time and Right-time Care Experience Improvement Models Evaluation Report*. Health Improvement Scotland; May 2018. <u>https://ihub.scot/improvement-programmes/people-led-care/person-centred-health-and-care/real-time-and-right-time-evaluation-report/</u>

⁴ The "Patients on Targeted Medications" measure is adapted with permission based on selected elements of PQA measures, POLY-ACH and COB. In this adapted form, these monitoring measures no longer represent the PQA measures. PQA retains all rights to ownership of PQA measures and can rescind or alter the measures at any time. All uses of PQA measures are subject to such conditions as PQA specifies, and certain uses of the measures may be subject to a licensing agreement specifying the terms of use and the licensing fee. Users of the measure shall not have the right to alter, enhance, or otherwise modify the measures.

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⁶ Final Recommendation Statement: Cognitive Impairment in Older Adults: Screening. US Preventive Services Task Force. February 25, 2020. <u>https://www.uspreventiveservicestaskforce.org/Page/Document/UpdateSummaryFinal</u>/cognitive-impairment-in-older-adults-screening