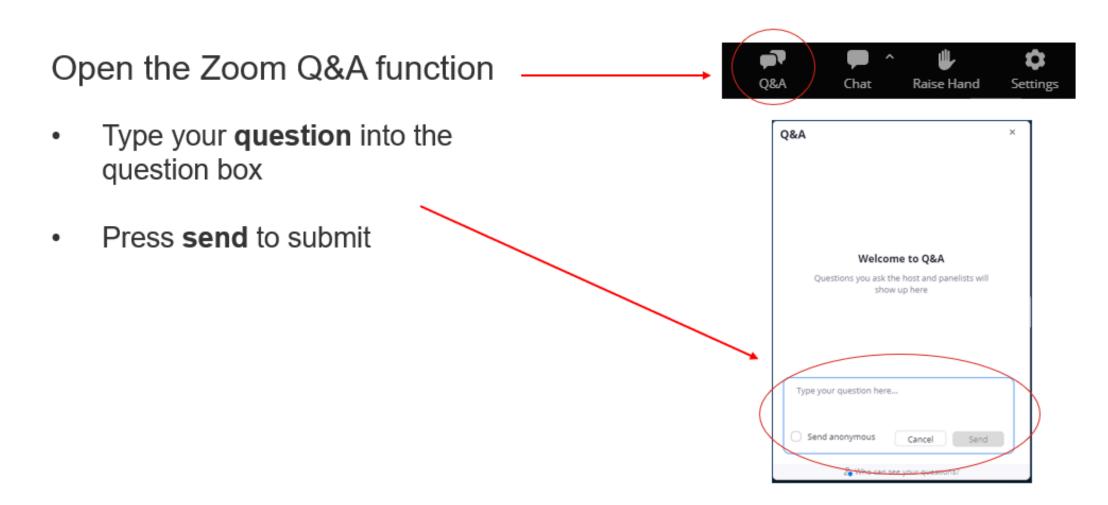




#### Want to Ask a Question?

- Audience questions will be answered during the Q&A session at the end of the presentation.
- Instructions on how to submit questions:
  - Zoom Q&A Function
    - Please feel free to submit questions throughout the presentation.
- Note: If your question is not answered during the live Q&A, we will post FAQs to the CMS MMS Hub in a few weeks!

## Want to Ask a Question? Use the Zoom Q&A Function







# Advancing Age-Friendly Care: From the 4Ms Framework to the CMS Inpatient Quality Measure

## **Meeting Objectives**

#### By the end of this session, participants will be able to:

- Describe the development and domains of the Age-Friendly Health Systems 4Ms
   Framework.
- Explain the alignment between the 4Ms Framework and the new CMS inpatient quality measure for age-friendly care.
- Examine how Luminis Health implemented the 4Ms Framework, identifying practical strategies and lessons for the new CMS age-friendly measure.





## **Meet the Panel**



Facilitated by
KellyAnne Johnson, MPH
Senior Director
Institute for Healthcare Improvement



Rani Snyder, MPA
Acting President and Vice President,
Program
The John A. Hartford Foundation



**Katie Drago, MD, FACP**IHI Expert Faculty



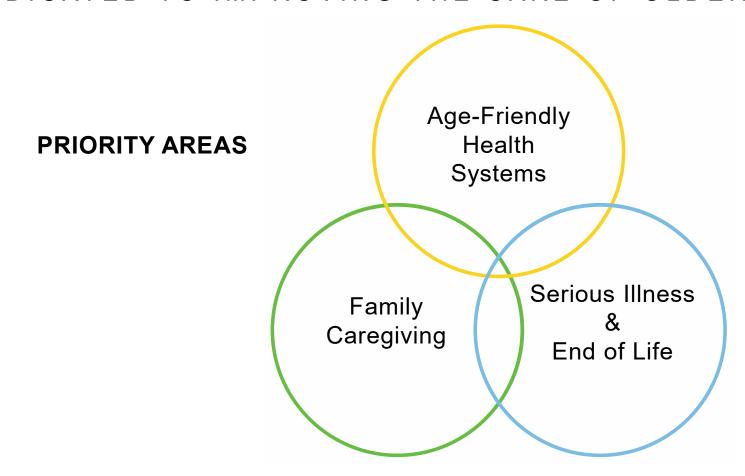
**Evelyn Ivy Wambui Mwangi,** MBChB, CMD, MPH, FACP IHI Expert Faculty





## Mission & Priorities

#### DEDICATED TO IMPROVING THE CARE OF OLDER ADULTS

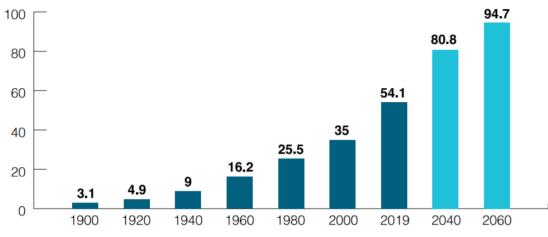






- Demography: # of older adults rapidly growing, more diverse
- Complexity: multiple chronic conditions, dementia, disability, isolation, social drivers of health
- Disproportionate Harm: higher rates of health care-related harm, discoordination, poor preparation for disasters

#### Number of Persons Age 65 and Older, 1900 - 2060 (numbers in millions)



Note: Increments in years are uneven. Lighter bars (2040 and 2060) indicate projections.

Source: U.S. Census Bureau, Population Estimates and Projections

## Review of Evidence-Based Care Models



Methods: Reviewed 17 care models with level <u>1 or 2a evidence</u> of impact for model features

**90 care features** identified in pre-work

Redundant concepts removed and 13 discrete features found by IHI team

Expert Meeting led to the selection of the "vital few": **the 4Ms** 



Mate, K., Fulmer, T., Pelton, L., Berman, A., Bonner, A., Huang, W., & Zhang, J. (2021). Evidence for the 4Ms: Interactions and Outcomes across the Care Continuum. Journal of Aging and Health, 33(7-8), 469-481. https://doi.org/10.1177/0898264321991658

## Age-Friendly Health Systems: Aim



Build a movement so *all care* with older adults is **equitable** and **age-friendly**:

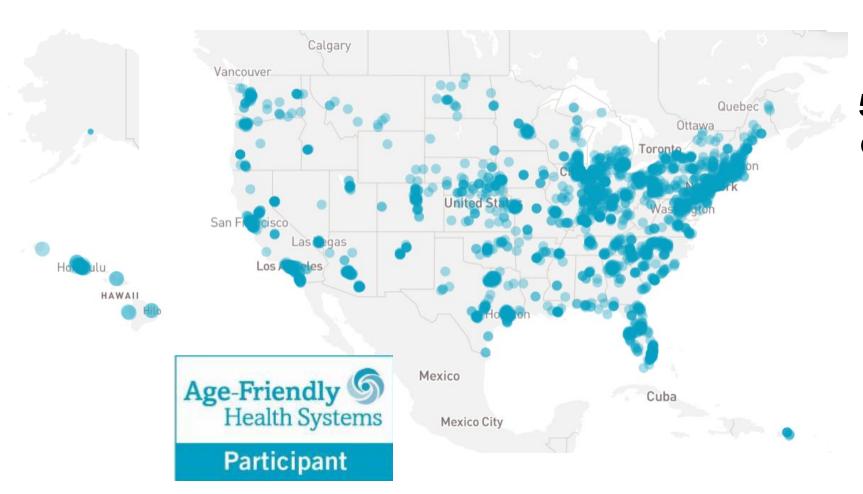
- Guided by an essential set of evidence-based practices (4Ms)
- Causes no harm
- Is consistent with What Matters to the older adult and their family

What Matters Mobility Medication 4Ms Framework Mentation Age-Friendly 9 Health Systems ative of The John A. Hartford Foundation and the Institute for Healthcare Improvement (IHI) in partnership with the American Hospital Association (AHA) and the Catholic Health Association of the United States (CHA).

Fulmer, T., Mate, K. S., & Berman, A. (2018). The age-friendly health system imperative. *Journal of the American Geriatrics Society*, *66*(1), 22-24.

## A Growing Movement!





**5,200+** hospitals, practices, convenient care clinics and nursing homes (and growing globally)

More than **5,480,000** older adults have been reached with 4Ms care

As of June 2025

ihi.org/Engage/Initiatives/Age-Friendly-Health-Systems/Pages/Background.aspx

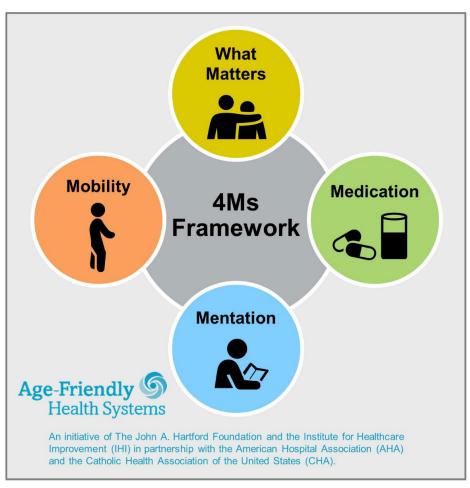
## Age-Friendly Hospital Measure – Built on the 4Ms of Age-Friendly Care



- FY2025 Hospital Inpatient Quality Reporting Program (pay-for-reporting)
- All participating hospitals required to report on all elements within 5 domains:
  - Elicit Patient Healthcare Goals (what Matters)
  - Manage Medication
  - Implement Frailty Screening (Mentation and Mobility)
  - Assess Social Vulnerability
  - Designate Age-Friendly Care Leaders
- Data collected will be publicly available on Medicare Care Compare
- Age-Friendly Health Systems and related initiatives can help hospitals meet measure



## The 4Ms of Age-Friendly Care



#### **What Matters**

Know and align care with each older adult's specific health outcome goals and care preferences including, but not limited to, end-of-life care, and across settings of care.

#### Medication

If medication is necessary, use Age-Friendly medication that does not interfere with What Matters to the older adult, Mobility, or Mentation across settings of care.

#### **Mentation**

Prevent, identify, treat, and manage dementia, depression, and delirium across settings of care.

#### **Mobility**

Ensure that older adults move safely every day in order to maintain function and do What Matters.





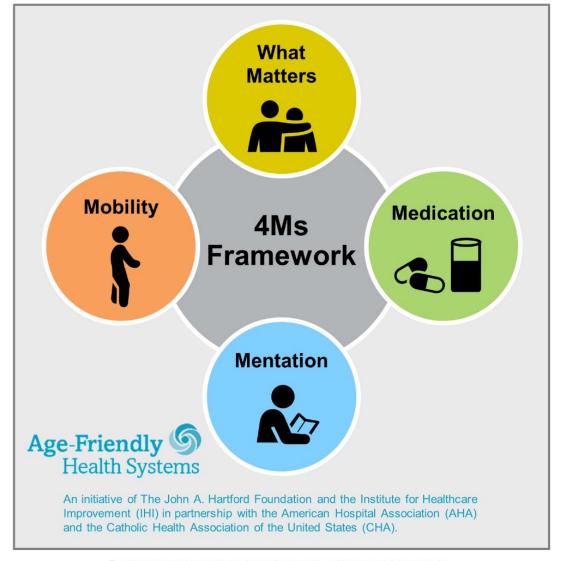
## Why the 4Ms?

Represents core health issues for older adults

Builds on strong evidence base

Simplifies and reduces implementation and measurement burden on systems while increasing effect

Components are synergistic and reinforce one another



For related work, this graphic may be used in its entirety without requesting permission.

Graphic files and guidance at ihi.org/AgeFriendly





> J Aging Health. 2021 Feb 8;898264321991658. doi: 10.1177/0898264321991658. Online ahead of print.

## Evidence for the 4Ms: Interactions and Outcomes across the Care Continuum

Kedar Mate <sup>1</sup>, Terry Fulmer <sup>2</sup>, Leslie Pelton <sup>1</sup>, Amy Berman <sup>2</sup>, Alice Bonner <sup>1</sup>, Wendy Huang <sup>3</sup>, Jinghan Zhang <sup>3</sup>

Affiliations + expand

PMID: 33555233 DOI: 10.1177/0898264321991658

Free article

Age-Friendly Health Systems—Original Research

# Effect of Age-Friendly Care on Days at Home Post-Hospital Discharge for Traditional Medicare Patients: A Cross-Sectional Study

DOI: 10.1111/jgs.19083

MODELS OF GERIATRIC CARE, QUALITY IMPROVEMENT, AND PROGRAM DISSEMINATION

Journal of the American Geriatrics Society

#### Early clinical and quality impacts of the Age-Friendly Health System in a Veterans Affairs skilled nursing facility

```
Sarah E. King MD<sup>1,2</sup> | Marcus D. Ruopp MD<sup>1,3</sup> | Chi T. Mac PharmD<sup>1</sup> | Kelly A. O'Malley PhD<sup>1,3,4</sup> | Jordana L. Meyerson MD, MSc<sup>1,3</sup> | Lindsay Lefers PT, DPT<sup>1</sup> | Jonathan F. Bean MD, MPH<sup>4,5,6</sup> | Jane A. Driver MD, MPH<sup>1,3,7</sup> | Andrea Wershof Schwartz MD, MPH, AGSF<sup>1,3,4,7,8</sup> ©
```

Short Stay (Rehab)	Long Term Care
↓48% ED utilization	↓73% ED utilization
↓30% rehospitalization (30d)	↓64% hospitalizations
↑19% discharge to community	

Kathleen Drago, MD<sup>1</sup>, Bryanna De Lima, MPH<sup>1</sup>, Sophie Rasmussen, MBA<sup>2</sup>, Alaina Ena, RN, MN<sup>1</sup>, Elizabeth Eckstrom, MD, MPH<sup>1</sup>, and Ella Bowman, MD, PhD<sup>1</sup>

Patients receiving at least 3Ms spent significantly fewer days in a facility within 30 days of hospital discharge





# Investigating system-level outcomes

Cross-sectional analysis including 13,396 hospital admissions between September 2020 – September 2022 among 10,630 unique patients 65 years+



Cohort divided into recipients and non-recipients of 4Ms care

Recipients had to receive care for all 4Ms during their stay

Partial 4Ms care was considered nonrecipient



Outcomes: overall length of stay, ICU length of stay, total charges, 30-day readmissions



Adjusted for covariates (age, sex, ethnicity, race, smoking status, admission type (medical vs surgical vs trauma vs emergent), Medicaid status) and propensity score matched

Outcome	Overall (% Change)	High CMI (% Change)	Low CMI (% Change)	
Total	- \$18,697.29	- \$41,825.90	- \$8,965.31	
Charges	(- 20%)	(- 27%)	(- 16%)	
Length of	- 0.31 days	- 1 day	+ 0.2 days	
Stay	(- 6%)	(- 15%)	(+ 4.4%)	
ICU Length	- 0.3 days	- 0.6 days	- 0.31 days	
of Stay	(- 12%)	(- 19%)	(- 15%)	
30-day readmission	NS	- 14%	NS	

# Inpatient Utilization

Most of the benefit is experienced by the more seriously ill inpatients

 Severe, complex acute illness, moderate acute illness on top of stable chronic illness, mild acute illness on top of severe, end stage chronic illness

CMS Measure Domain	Crosswalk to the 4Ms	
Eliciting patient healthcare goals: This domain focuses on obtaining patients' health-related goals and treatment preferences, which will inform shared decision-making and goal-concordant care.	What Matters	
<b>Responsible medication management</b> : This domain aims to optimize medication management by monitoring the pharmacological record for drugs that may be considered inappropriate in older adults due to increased risk of harm.	Medication	
<b>Frailty screening and intervention</b> : This domain aims to screen patients for geriatric issues related to frailty, including cognitive impairment/delirium, physical function/mobility, and malnutrition, for the purpose of early detection and intervention where appropriate.	Mentation, Mobility, and Medication	
	What Matters, Mentation	
<b>Social vulnerability</b> : This domain seeks to ensure that hospitals recognize the importance of social vulnerability screening of older adults and have systems in place to ensure that social issues are identified and addressed as part of the care plan.	Plus Burden Scale for Family Caregivers; Rush University Caring for Caregivers Program	
<b>Age-friendly care leadership</b> : This domain seeks to ensure consistent quality of care for older adults through the identification of an age-friendly champion and/or interprofessional committee tasked with ensuring compliance with all components of this measure.	All 4Ms, including measuring the 4Ms and sustaining 4Ms care	
	Age-Friendly 🎱	

Advancing Age-Friendly
Care: From the 4Ms
Framework to the CMS
Inpatient Quality Measure:
The Luminis Health
Experience

Evelyn Ivy Mwangi MD MPH FACP
Geriatric Hospitalist
Anne Arundel Medical Center
Luminis Health, Annapolis, MD



95

million in community benefit

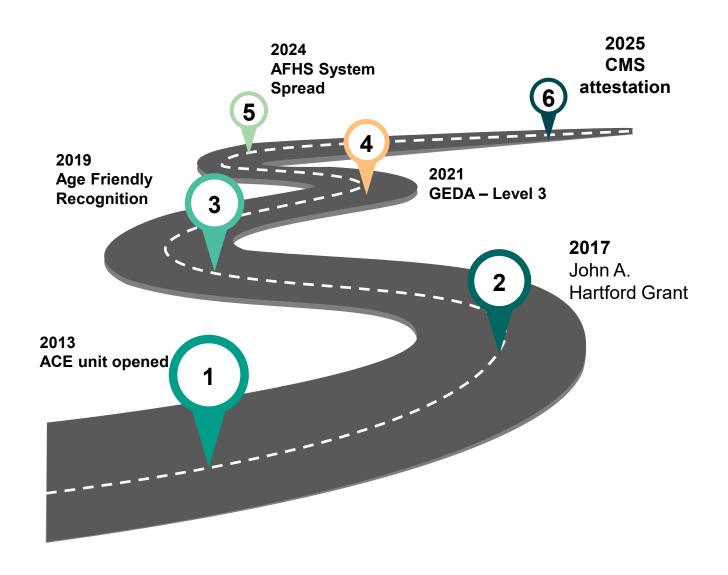
8800

plus team of staff, employees and volunteers

140500

**Annual Emergency Visits** 

## **Our Age Friendly Health System Journey**



#### **Domains**

#### **Checklist**

**Eliciting patient healthcare goals**: This domain focuses on obtaining patients' health-related goals and treatment preferences, which will inform shared decision-making and goal-concordant care.

Responsible medication management: This domain aims to optimize medication management by monitoring the pharmacological record for medications that may be considered inappropriate in older adults due to increased risk of harm.

Frailty screening and intervention: This domain aims to screen patients for geriatric issues related to frailty, including cognitive impairment/delirium, physical function/mobility, and malnutrition, for the purpose of early detection and intervention where appropriate.

**Social vulnerability**: This domain seeks to ensure that hospitals recognize the importance of social vulnerability screening of older adults and have systems in place to ensure that social issues are identified and addressed as part of the care plan.

**Age-friendly care leadership**: This domain seeks to ensure consistent quality of care for older adults through the identification of an age-friendly champion and/or interprofessional committee tasked with ensuring compliance with all components of this measure.

4Ms	Setting	Assessment Tool	Staff	Frequency	Act On	Data
Mentation	Ambulatory	PHQ-2 PHQ-9	RN MD	Annual Wellnes s Visit	Treatment Non- pharmacologica I interventions	Healthy Aging Dashboard
	ED	bCAM	RN	Initial evaluation	De escalation proto col	
	In patient	bCAM	RN	Every shift	Delirium protocol	
	ICU	CAM-ICU	RN	Every shift	ABCDF bundle	

#### **Multidisciplinary interfacility team**

Physicians

Nursing

PT/OT/SLP

Informatics

#### **Executive Leadership support**

President

Chief Medical Officer

Chief Nursing Officer



## Comprehensive Geriatric Evaluation in the Emergency Department

#### **Target population**

- Community, Assisted Living or Skilled Nursing Facility resident
- Low Acuity, high complexity patient

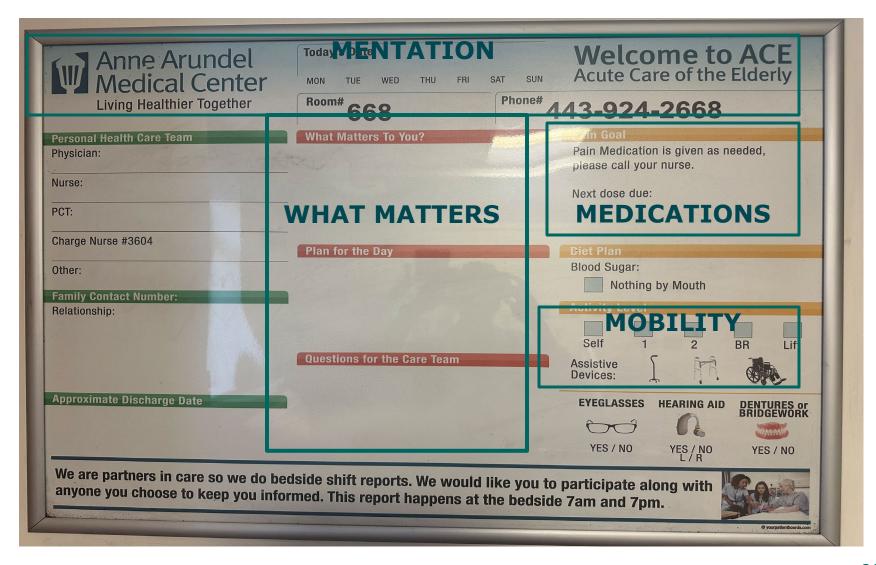
#### **Intervention**

Fast track to comprehensive geriatric evaluation using 4Ms framework via telemedicine

#### **Outcomes**

- reduce length of stay in ED
- Facilitate early and safe discharge from the ED
- Support in the first 30 days post discharge
- If admitted reduce length of stay
- Patient and family satisfaction

#### The 4Ms at Luminis Health



**Luminis Health** 

## **Hospital – Patient Stories**





## Mentation: Delirium management in the hospital

Clear All Orders ▼ Medications ED Geriatric De-escalation Orderset & ▼ Delirium Prevention for 65 years or older ▼ General Delirium Prevention for 65 years or older ▼ Activity-✓ Bladder scan Up in chair as tolerated Routine, 3 TIMES DAILY, First occurrence today at 1800, Until Specified Routine, ONE TIME, today at 1100, For 1 occurrence PVR with bladder scan post void x1 - do not perform if patient has foley catheter Ambulate patient as tolerated Routine, 3 TIMES DAILY, If safe and able Ambulate patient ▼ Nursing Assessments— Routine, 3 TIMES DAILY, First occurrence today at 1300, Until Specified Routine toileting as tolerated Ambulate three times a day, if activity order allows Routine, CONTINUOUS, Starting today at 1330, Until Specified upon walking, post meals, bedtime and prn melatonin tablet 3 mg (\$) ✓ Encourage oral fluid and food intake unless contraindicated 3 mg BEDTIME (0.0562 mg/kg), Oral, First dose today at 2200, Until Discontinued Routine, CONTINUOUS, Starting today at 1330, Until Specified Hold for sedation. ▼ Nursing Interventions Give dose 30 to 60 minutes before bedtime. ✓ Attempt to de-escalate agitation through REDIRECTION and VERBAL Typical starting dose is 3 - 6 mg nightly. confrontation, provide short/simple instructions, use gentle persuasive Routine, CONTINUOUS, Starting today at 1330, Until Specified acetaminophen (TYLENOL) tablet 650 mg (\$) ✓ Manage unmet needs – pain, hunger, heat, cold, toileting, vision, heat 650 mg 3 TIMES DAILY (12.2 mg/kg), Oral, First dose today at 1600, Until Discontinued Routine, CONTINUOUS, Starting today at 1330, Until Specified Maximum dose for Infants and Children for acetaminophen is 75 mg/kg/day or no more than 5 doses in 24 hours. Maximum dose for Adults for acetaminophen is 4000 ✓ Ensure access to sensory devices ( hearing aids or amplifiers, glasses mg from all sources in 24 hours. Routine, CONTINUOUS, Starting today at 1330, Until Specified ✓ Manage environmental triggers – (noise, overstimulation, and lighting Routine, CONTINUOUS, Starting today at 1330, Until Specified polyethylene glycol (MIRALAX) packet 17 g (\$) 17 g DAILY (0.318 g/kg), Oral, First dose tomorrow at 1000, Until Discontinued Avoid restraints – assess continuing need for lines, tubes and continu Routine, CONTINUOUS, Starting today at 1330, Until Specified Hold for diarrhea. Dissolve in 8 ounces of water. Consider delaying interventions until agitation is improving. Consult Routine, CONTINUOUS, Starting today at 1330, Until Specified Dissolve in 8 ounces of water. Consult with Provider to delay imaging studies if not critically necessary for treatment and stabilization. Do not sedate for non-emergent imaging studies. Routine, CONTINUOUS, Starting today at 1330, Until Specified Request for family presence at the bedside.

Routine, CONTINUOUS, Starting today at 1330, Until Specified

Routine, CONTINUOUS, Starting today at 1330, Until Specified

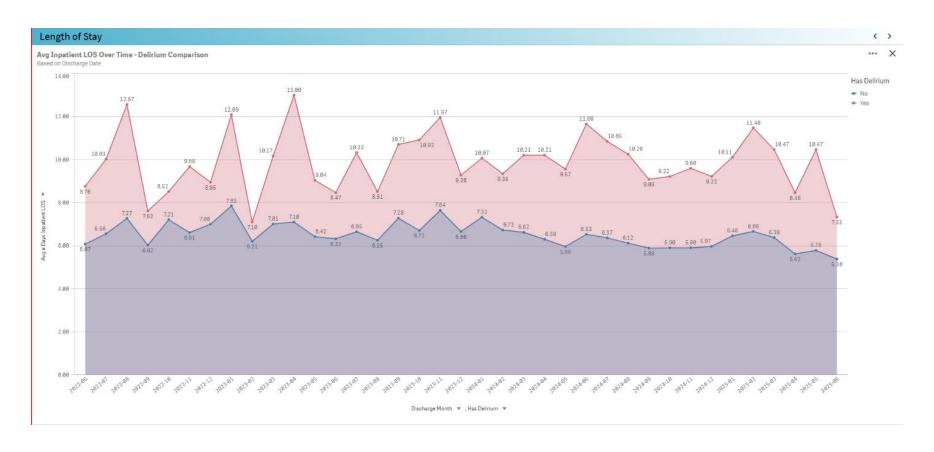
Reassess if telemetry is required and request discontinuation of cardiac monitoring unless there is cardiac instability

### Mentation: Measurement of Delirium screening in the hospital



Luminis Health 27

## **Outcomes and Impact**



LOS for patients with vs without delirium

Daily cost of inpatient stay x LOS for patients with vs without delirium

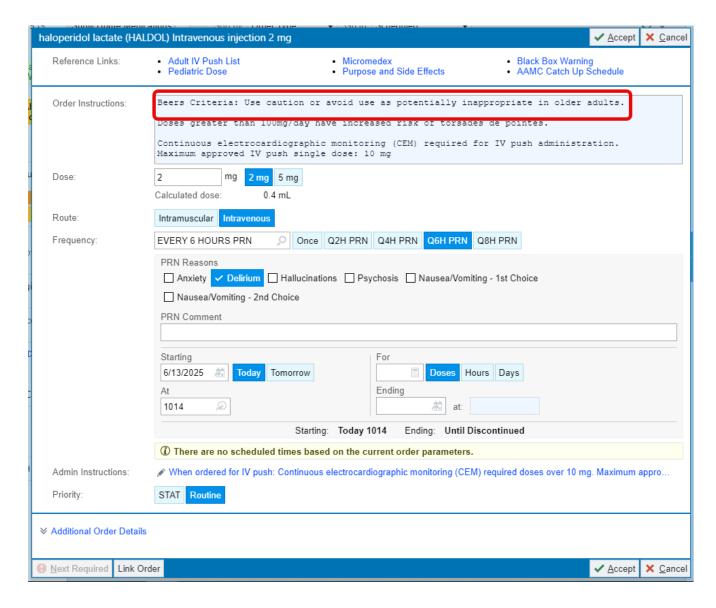
Discharge – new institutionalization vs community

#### **Medications**



Medication reconciliation project is underway

#### **BEERS Criteria**



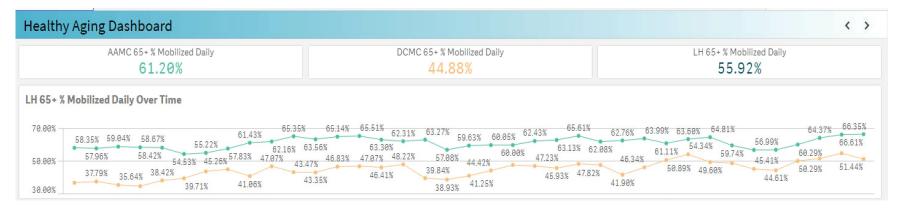
## **Mobility-Hospital**

Tool - JHLM

Metrics - feet to floor

Timing - from admission





Luminis Health 30

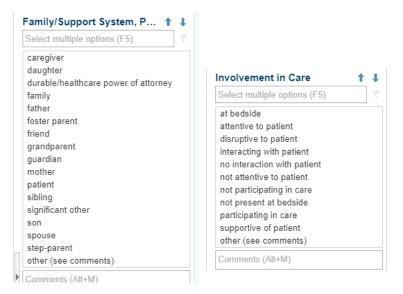
## **Screening for social isolation (loneliness)**

**Luminis Health** 

## **Caregiver Involvement**







#### **Tips for Avoiding Caregiver Burnout**

Caregiving can take its toll on you emotionally and physically. To be able to take care of others you need to take care of yourself.

- Identify your support system. Make a list of key people in your life and those of your loved one. These people could be family, friends, neighbors, or members of your place of worship.
- Keep a visible calendar. It should be large and hung in a place where every visitor
  can see it. You can track appointments, needs, and visitors. You may want to
  highlight items or tasks that still need to be covered.
- Don't be afraid to ask for help. Most people genuinely want to lend a hand, but
  they don't know what you need. When someone says, "Let me know what I can do
  to help," give them a specific task (or choice of tasks). If you leave it vague, they
  won't know how to help or they may assume you have all the help you need.
- Make a list of specific activities for helpers. That could include housework, shopping, laundry, delivering meals, visits, driving them to their doctor's appointments or other outings, or simply providing you with a few hours of respite.
- Schedule daily and weekly breaks. Sometimes just getting out for a couple hours
   whether you have coffee with a friend, take in a movie, or go for a walk can
  refresh and energize you.

## **NEXT STEPS**

Frailty

**SDOH** 

**Patient Satisfaction** 

**Patient outcomes** 

- -readmissions
- length of stay
- institutionalization
- morbidity and mortality



## Appendix





## Resources

- One-pager for Hospitals
- <u>Download an example checklist</u> from Luminis Health Anne Arundel Medical Center as
  a starting point for documenting and monitoring progress towards attestation.
- To stay updated on new opportunities to engage with the movement, sign up for the
   <u>Friends of Age-Friendly email newsletter.</u>
- Link to proposed rule
- Link to CMS fact sheet

The Age-Friendly Health System movement is an initiative of The John A. Hartford Foundation (JAHF) and the Institute for Healthcare Improvement (IHI), in partnership with the American Hospital Association (AHA) and the Catholic Health Association of the United States (CHA). Learn more at ihi.org/agefriendly or AFHS@ihi.org.

Age-Friendly



Health Systems

## On-Ramps to Join the Movement

Action Communities for teams to learn about and practice the 4Ms with the support of expert faculty and a community of peers. Action Communities are facilitated by IHI, AHA, and other movement partners.

Online Course with Coaching Designed for individuals seeking continuing education and support with building the business case and developing leadership buy-in.







## My Health Checklist





#### My Health Checklist

A guide to help you prepare for your medical appointment

Name

Date



This work was made possible by The John A. Hartford Foundation.

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## This guide is designed to help you get ready for your medical appointment.

It's meant especially for older adults.

First, it will help you think about different aspects of your health and living well. Then it will help you identify the most important questions or concerns you want to talk about with your provider. A provider is a doctor, nurse practitioner, primary care practitioner (PCP), etc.

Being prepared for your appointment can help you get the care that's right for you. You are part of the team. You can have a say in your care.

#### This guide focuses on four areas that can help you think about your health.



your life









Your Mobility

The 4Ms

For each of the 4Ms, we'll ask you about your situation now, what's going well, and what could be better. Then you can write down any questions you have or things you want to share with your provider.

2 Age-Friendly Health Systems









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