

Age-Friendly Health Systems: “The What, Why, and a bit of How of the 4Ms” U Center on Aging Retreat

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The John A. Hartford
Foundation



Institute for
Healthcare
Improvement



American Hospital
Association®



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Catholic Health Association
of the United States

1 Age-Friendly Health Systems is an initiative 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).

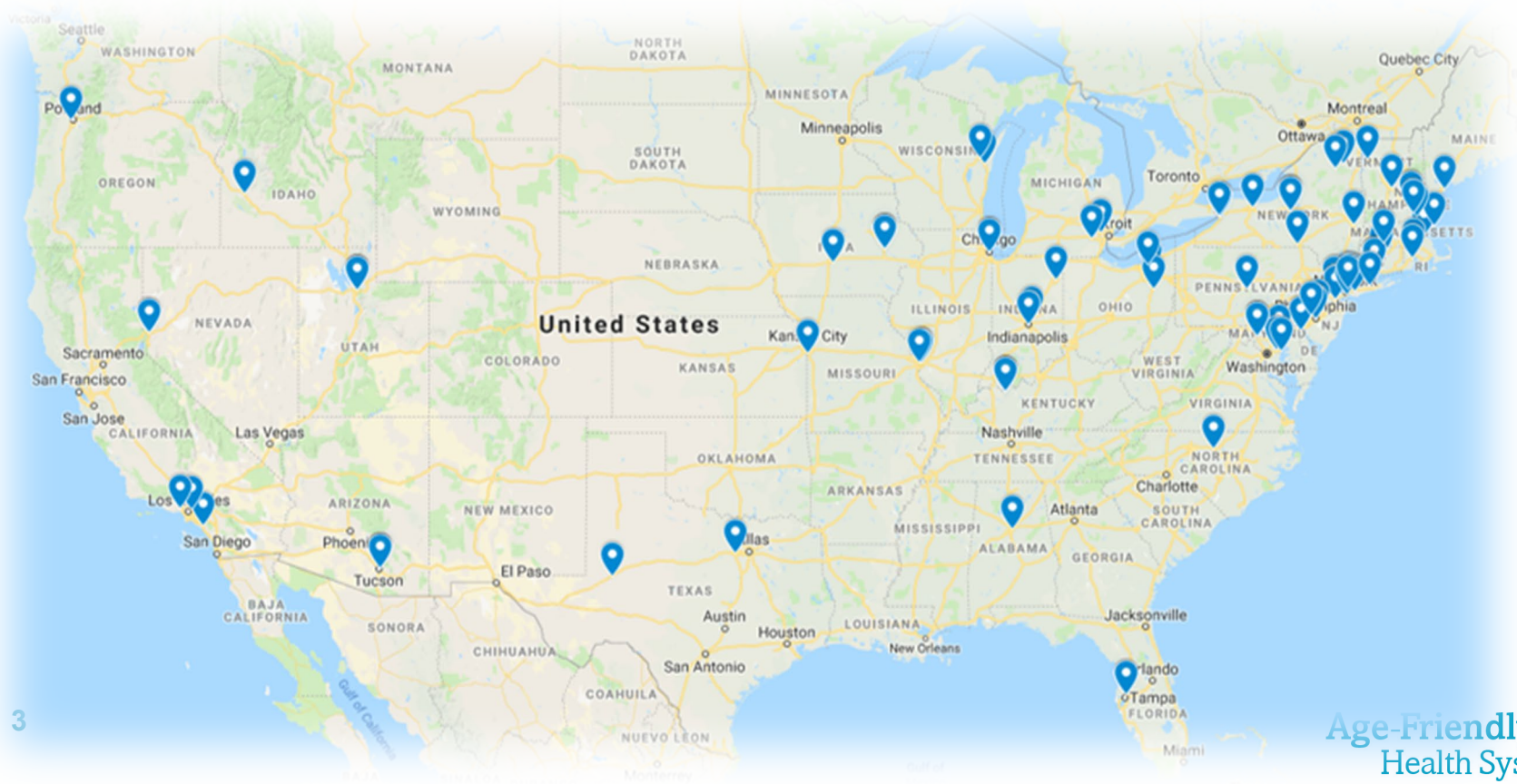
Age-Friendly
Health Systems 



Aim of the AFHS initiative:

Establish Age-Friendly Care in 20% of US hospitals and health systems by 2020

Current Age Friendly Health Systems



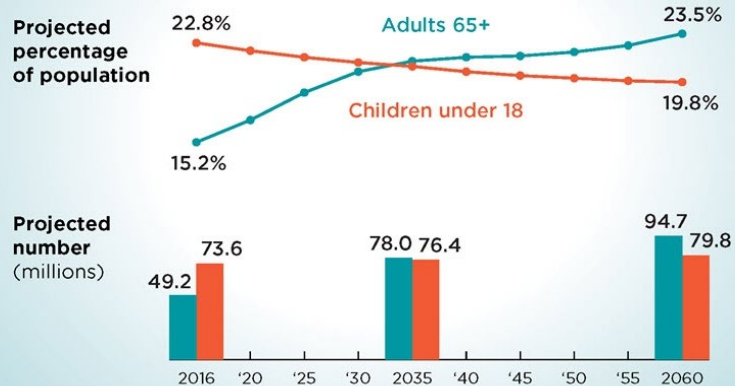
Why Age-Friendly Health Systems?



An Aging Nation

Projected Number of Children
and Older Adults

For the First Time in U.S. History Older Adults Are
Projected to Outnumber Children by 2035

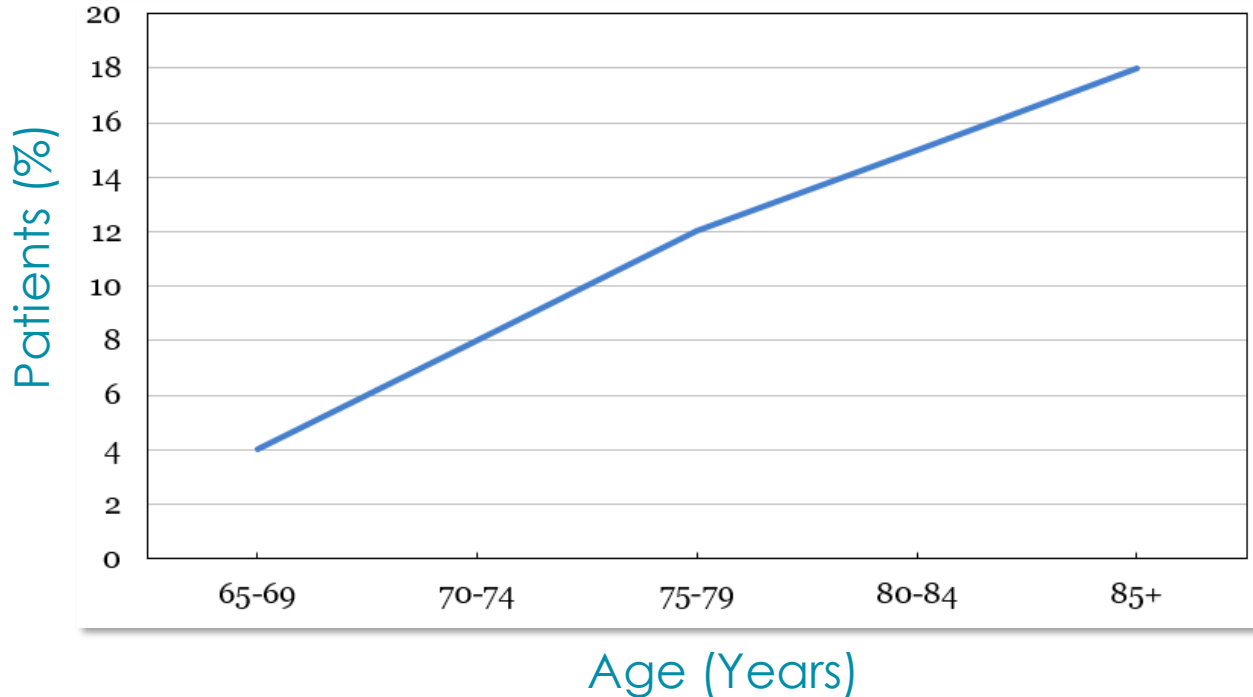


Note: 2016 data are estimates not projections.

*The numbers
speak for
themselves*

Why Age-Friendly Health Systems?: The complexity

Percent of Patients with > 6 Diagnoses



Why Age-Friendly Health Systems?: The healthcare

Site	Ages 65-74 (per 100 persons)	Ages >75 (per 100 persons)
Office Visits	647	768 ↑
ED Visits	37	60 ↑
Hospital Days	139	259 ↑

What is an AFHS: The 4Ms Framework

Evidence-based interventions across 4 core elements

The 4Ms	Description
<u>M</u>atters Most	Know & align care with each older adult's specific health outcome goals and care preferences across settings of care
<u>M</u>edications	Use only medications that do not interfere with What Matters most, Mobility, or Mentation across settings of care
<u>M</u>entation	Prevent, identify, treat, & manage dementia, depression, and delirium across settings of care
<u>M</u>obility	Ensure that older adults move safely every day to maintain function and do What Matters

Why these 4 Ms?

- Outcome areas affected by “all” diseases (or by their treatment)
- Unifying focus for all care in all settings for all clinicians (↓ fragmentation, conflicting recommendations)
- What people want help with from their healthcare
- Provides a simplified framework
 - for managing the complexity of caring for older adults
 - for getting everyone on the same page

How we got to the 4Ms

Reviewed 17 evidence-based programs serving older adults



Identified >90 components



Recognized 4 core elements



The 4 Ms: Evidence Base

What Matters



Older adults vary in what matters most;
Increases satisfaction

Medication



Adverse drug events (ADE) ↑ 10% per drug; many medications harmful & of little benefit; ADEs lead to ↑ morbidity, hospitalizations, ↑ costs

Mobility



Fall-related injury cost ave. \$13,316; ↑ LOS 6.3 days;
Mobility programs ↓ hospital costs 30%

Mentation



Dementia, delirium, depression often unrecognized; ↑ morbidity, mortality, and costs;
16:1 ROI on delirium programs

Reciprocal/synergistic relationships

4Ms Framework of an Age-Friendly Health System



- Feasible framework for implementation and measurement
- Synergistic relationships → simplify and reduce burden on care team while increasing effect

Why should health systems want to be Age Friendly?

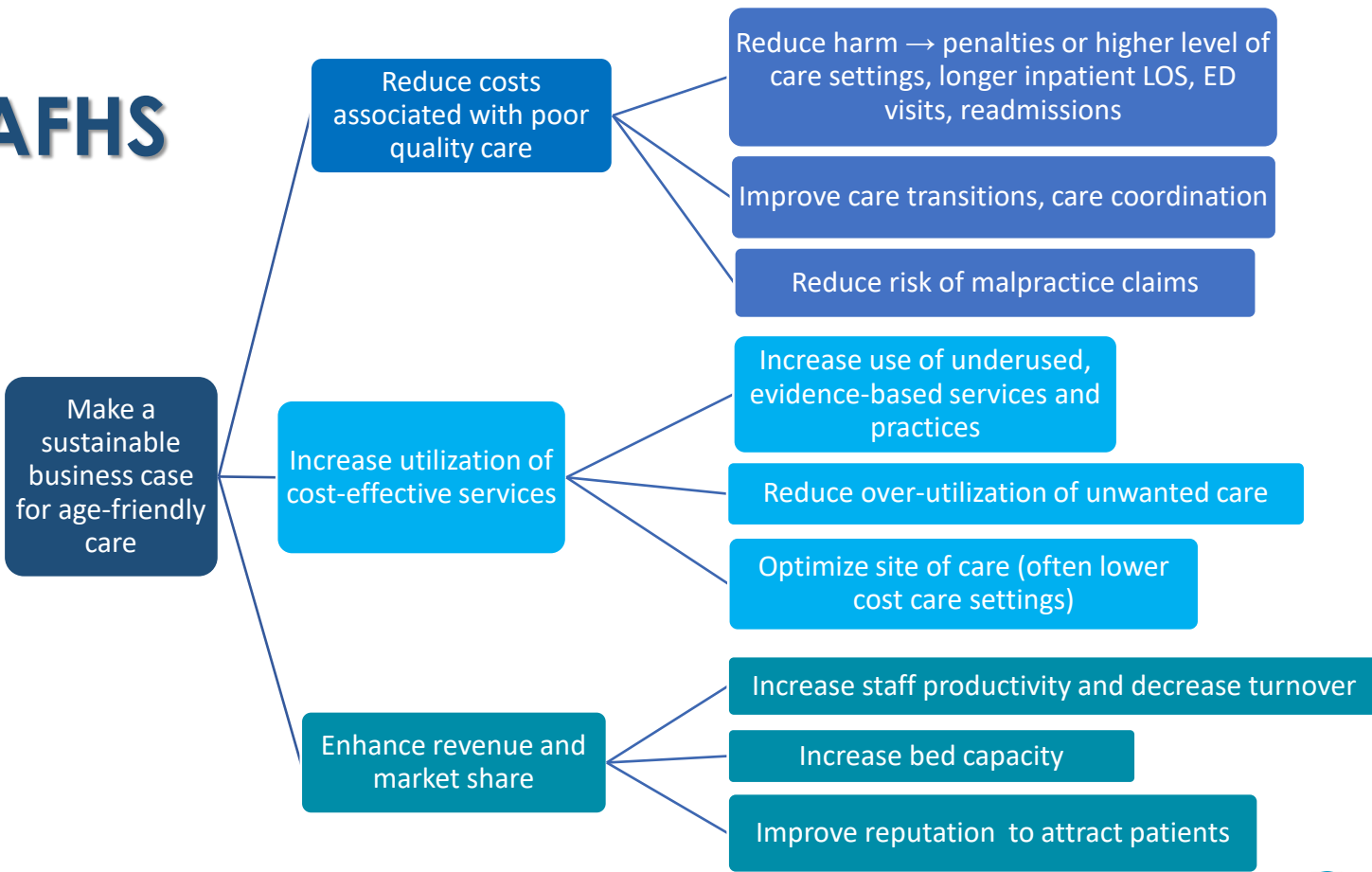


What's in it for them?



Make Me More Money

Case for AFHS



AFHS: The how of implementing the 4Ms



Where are the 4Ms already in practice?

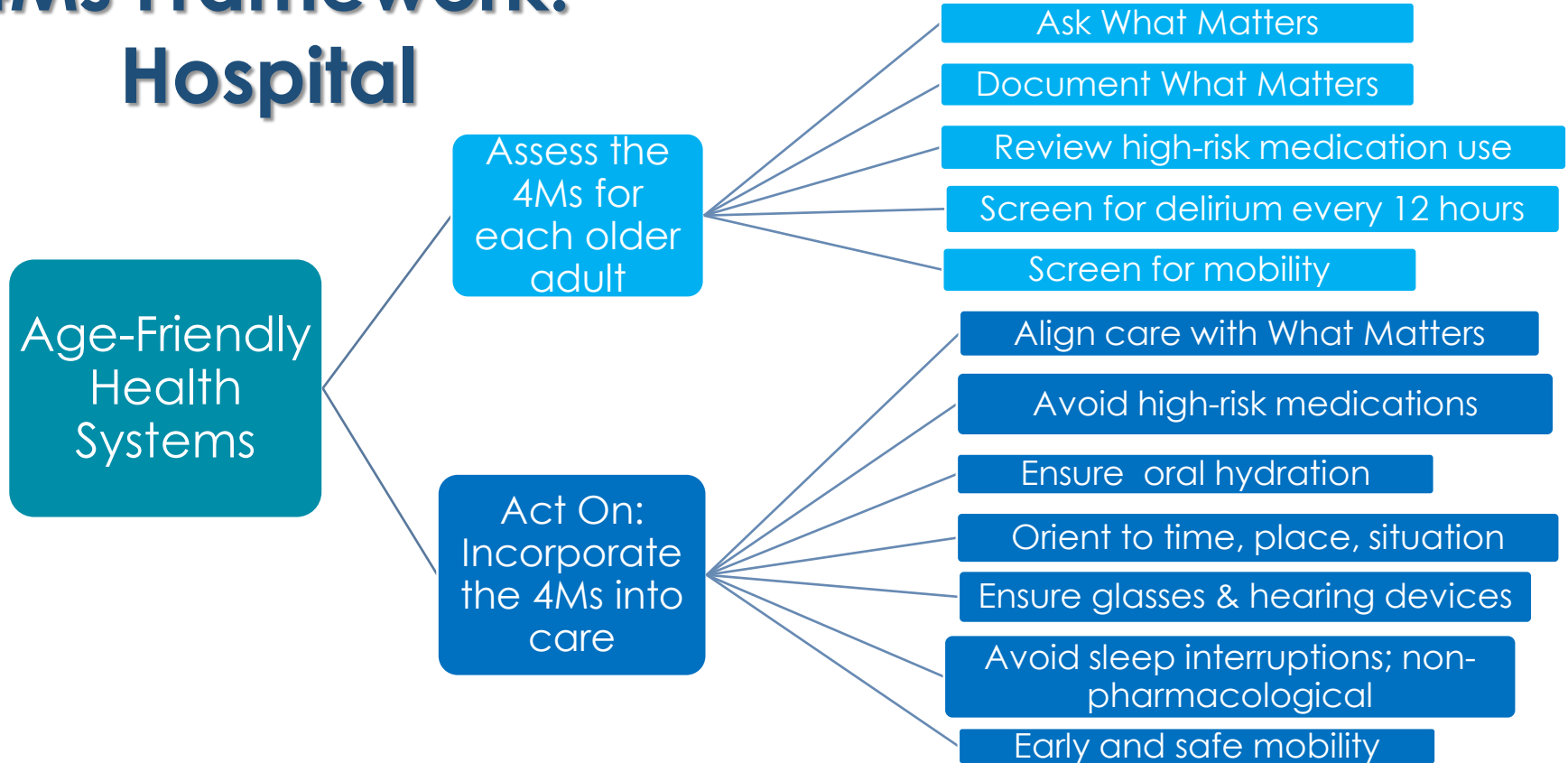


Who are the champions to spread the 4Ms?

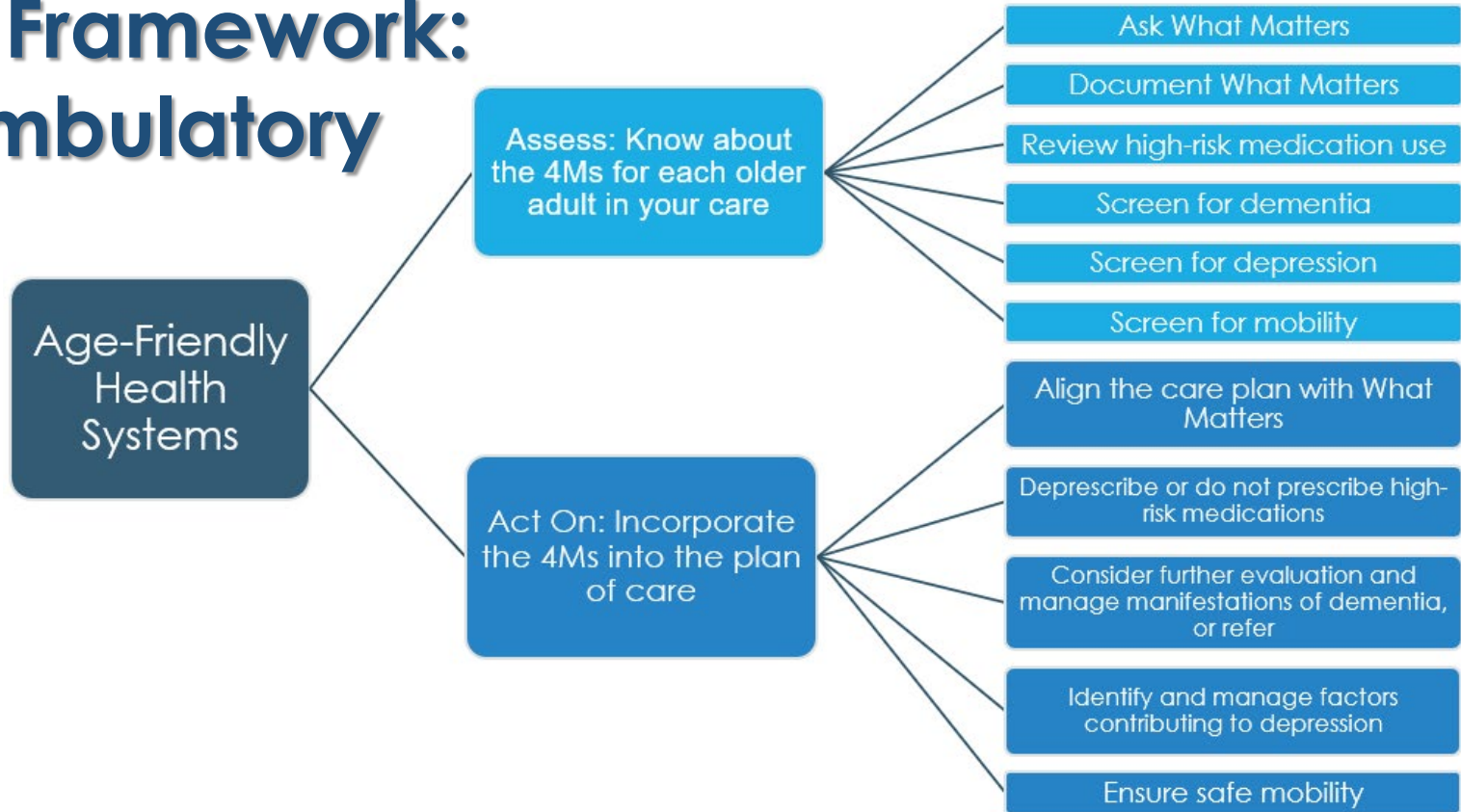


What can you stop doing when the 4Ms are reliably in practice?

4Ms Framework: Hospital



4Ms Framework: Ambulatory



Hospital: Assess the 4Ms

The 4 Ms	How to assess
Ask What Matters	<ul style="list-style-type: none">• “What do you most want to focus on while you are in the hospital/ED_____ (fill in health problem) so that you can do_____ (fill in desired activity) more often or more easily?”• For older adults with advanced or serious illness, “What are your most important goals if your health situation worsens?”
Document What Matters	Documentation on paper, whiteboard, or EHR where it is accessible across settings
High-risk medication use	Suggested list: Benzodiazepines; Opioids; Anticholinergics (e.g. diphenhydramine); over-the-counter sedatives and sleep medications; Muscle relaxants; Tricyclic antidepressants; Antipsychotics
Delirium	Suggested tool: 2-Item Ultra-Brief (UB-2) Delirium Screen
Mobility	Suggested tool: Timed Up & Go (TUG)

Hospital: Act on the 4Ms

4M interventions	Getting started
Align the care plan with What Matters	Align care with the older adult's goals and preferences (i.e., What Matters)
Do not prescribe (deprescribe) high-risk medications	Avoid or deprescribe medications that may interfere with What Matters, Mentation and Mobility of older adults.
Ensure sufficient oral hydration	(e.g. Anna Arundel's solution)
Orient older adults to time, place, and situation	For older adults with dementia, gentle re-orientation cues; avoid repeated testing about orientation.
Sensory adaptive equipment	Glasses, hearing aids, and dentures
Support adequate sleep	Avoid disruptions (vital sign, blood draws;) Nonpharmacological (music, massage)
Ensure early and safe mobility	Manage impairments (e.g., pain; strength, balance; remove catheters, IV, telemetry, other tethers); Set & meet a daily mobility goal

*Health outcome goals are the activities that matter most to an individual, such as babysitting a grandchild, walking with friends in the morning, or continuing to work as a teacher. Health care preferences include the medications, health care visits, testing, and self-management tasks that an individual is able and willing to do.

**These activities are also key to preventing delirium and falls

*McDowell JA, Mion LC, Lydon TJ, Inouye SK. A nonpharmacologic sleep protocol for hospitalized older patients. J Am Geriatr Soc 1998;46:700-70.5.

Ambulatory: Assess the 4Ms

The 4 Ms	How to assess
Ask What Matters	<ul style="list-style-type: none">• “What do you most want to us focus on _____ (fill in health problem) so that you can do _____ (fill in desired activity) more often or more easily?”• For older adults with advanced or serious illness, “What are your most important goals if your health situation worsens?”
Document What Matters	Documentation in EHR where it is accessible across settings
High-risk medications	Suggested list: Benzodiazepines; Opioids; Sedatives; Muscle relaxants; Tricyclic antidepressants; Antipsychotics
Dementia; Depression	Suggested tools: Mini-Cog; MoCA Suggested tool: PHQ-2
Mobility	Suggested tool: <u>Timed Up & Go (TUG)</u>

Ambulatory: Act on the 4Ms

Key Changes	Getting Started
Align care with What Matters	Align care with older adult's goals and preferences*
Deprescribe high-risk medications	Avoid or deprescribe medications that may interfere with What Matters, mentation, or safe mobility
Impact of dementia	Consider impact of dementia on other conditions, adherence to treatments & self-management, and on caregiver stress. Refer the older adult & caregivers to resources such as the Alzheimer's Association
Manage depression	Consider initiating treatment for depression or referring to mental health professional
Ensure safe mobility	<ul style="list-style-type: none">• Manage impairments that reduce mobility (e.g. pain; balance, strength)• Ensure home environment that is safe for mobility• Support older adults to implement a daily mobility goal that supports What Matters

“What Matters” to Older Adults?

A Toolkit for Health Systems to Design
Better Care with Older Adults

Generously funded by  THE
scan
FOUNDATION.

This content was created especially for:

Age-Friendly 
Health Systems

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Institute for Healthcare Improvement in partnership
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AFHS What Matters

Why What Matters Most matters most

- For older adults
 - Vary in what matters most
 - Feel more engaged, listened to
 - Avoid unwanted care & receive wanted care
- For health systems
 - Better patient experiences scores & retention
 - Avoid unnecessary utilization
- For everyone
 - Everyone on same page
 - Improved relationships
 - It is the basis of everything else

Reliably ask What Matters Most

- Purpose:
 - General getting to know person & what's important
 - Inform care decisions
- Feasible (time, training, format, method for sharing information)
 - Reliable, specific, actionable
 - Depends on setting & patient population
 - Setting: Immediate decision (e.g. hospital, ED) or ongoing care (e.g. 1^o care, ambulatory)
 - Population: Advanced serious illness or remaining older adults

Patient priorities identification: Value-based Health outcome goals

- Desired activities that reflect values
- To inform clinical decisions:
Specific, actionable, reliable, & realistic
- Patientprioritiescare.org



Tips on acting on What Matters Most

- Link care to goals & preferences, *“There are things we could do, but knowing what matters most to you, I suggest we...”*
- Use patient’s priorities (not just diseases) in communicating, decision-making, assessing benefit
- Collaborative negotiations when differ (agree there is no best answer & brainstorm alternatives)
 - *“I know you don’t like the CPAP, but are you willing to try it for 2 weeks to see if it helps you be less tired so you can get back to volunteering which you said was most important to you”*
- Care options involve many disciplines (PT, SW, community, etc.)

The 4Ms in Action



Age-Friendly Care: St. Vincent's, Indiana

Initial
change

Created 4M-focused EHR templates for assessments and documentation; data accessible to patients' other clinicians.

Scale up

18 Medicare Wellness Nurses integrated 4Ms into annual Medicare Wellness Visits at 38 primary care practices:

- Created 4M-focused template for AWVs
- All sites used same 4M-related questions and assessments in
- Developed 4M-focused guide to facilitate referrals based on 4M assessments

Anne Arundel Team



4Ms:

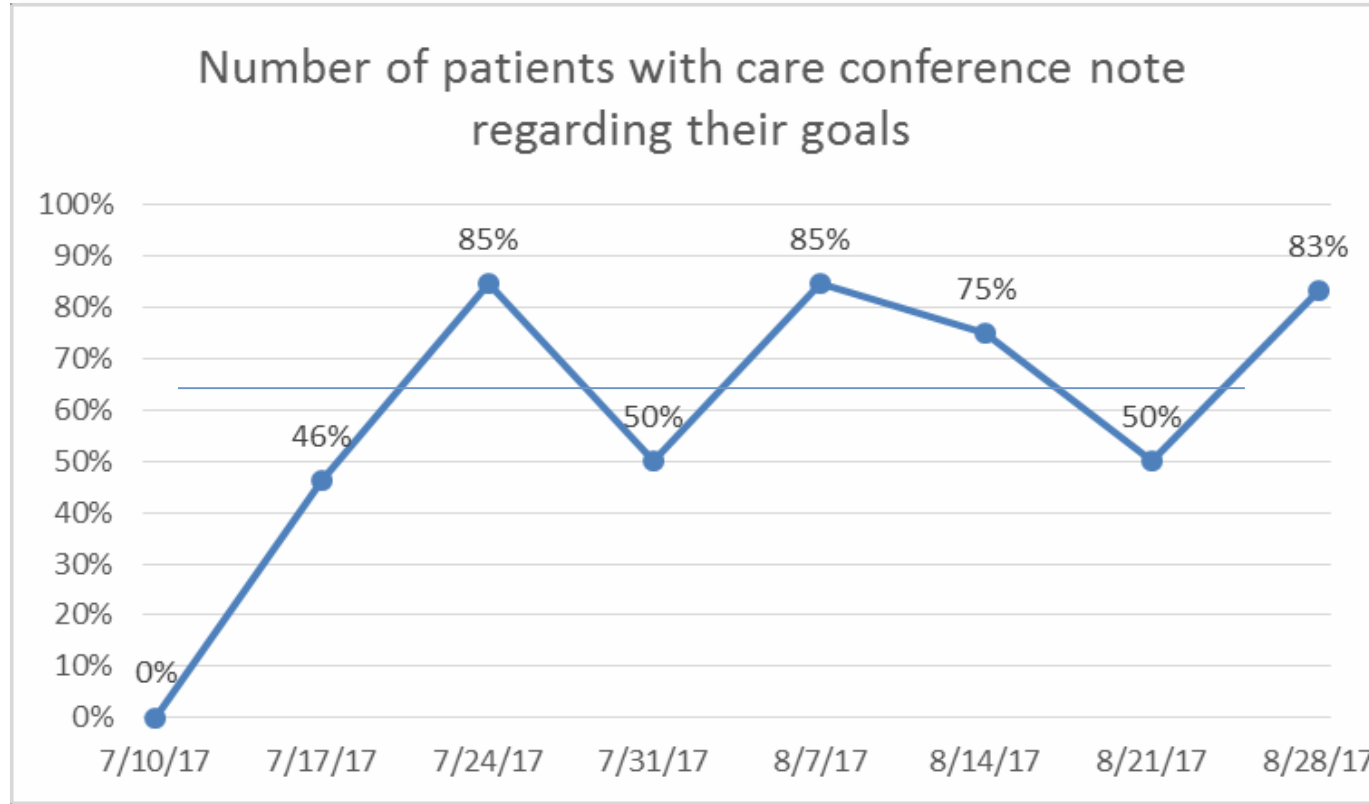
Medication: Pharmacist identifies high risk medications.

Mobility: Mobility tech a new position

Mentation: New drinking cups to maintain hydration

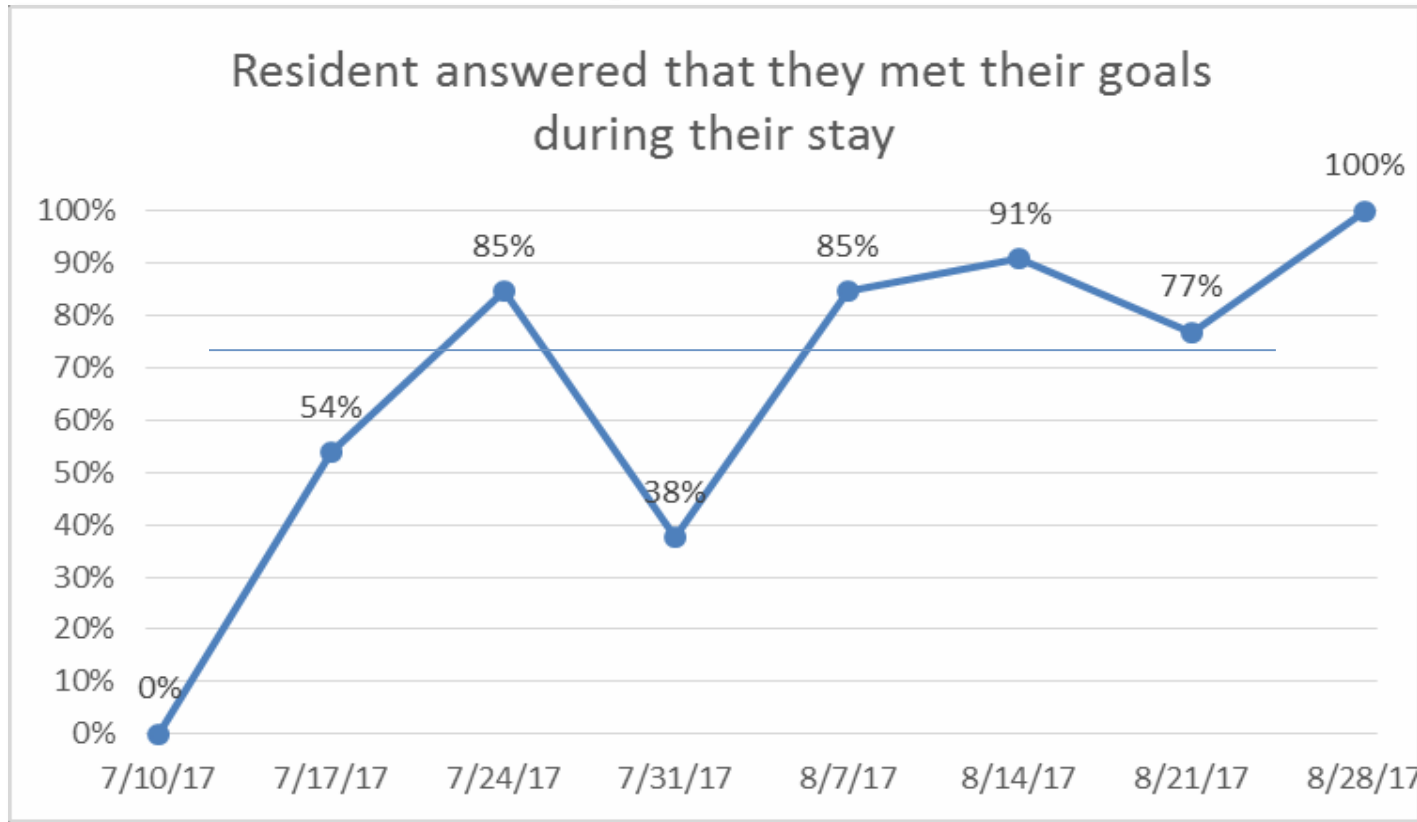
What matters: Each patient identity specific goal for hospital-posthospital (see his cat)

Trinity Glacier Hills



Median =
63

Trinity Glacier Hills



Median =
81

Let's meet Mr. Smith



- 77 years old; 3 children, 5 grandkids, 1 wife
- 6 chronic diseases (hip arthritis, diabetes, hypertension, ...)
- 9 Medications
- 5 Clinicians (primary, cardiologist, orthopedist,..)
- 2 health visits (doctor, lab test, etc.) per week (each ½ day)

What Matters to Mr. Smith

Not sure, but...

- Always tired
- Too much time on his healthcare



What matters to Mr. Smith's clinicians before AFHS

Blood pressure & glucose too high

- Increase medications & check more often

Hip replacement?

- Orthopedist & Primary doctor differ



Mr. Smith's health system becomes Age Friendly



Annual wellness visit:

- Identified his health priorities (patientprioritiescare.org)
- MoCA score 24/30
- PhQ 2 score 4
- POMA score 22/28 → CDC STEADI

What Matters Most to Mr. Smith

“ I want to be less tired so I can get to the club a few days a week. My medications make me too tired.”

“ I can live with the hip pain. I don’t want surgery.”

- **Health outcome goal:**
 - Get to club 3 times/week
- **Healthcare preferences:**
 - decrease medications
 - avoid surgery



What Matters Most to Mr. Smith's clinicians after AFHS

Primary doctor & cardiologist:

- decrease meds over few months
- less tired → gets to club



Primary & orthopedist:

- will use his goals to determine when and if to suggest surgery

Mr. Smith fell at club while exercising ...heads to the hospital....



Mr. Smith Arrives on the Unit

Nurse evaluates him with 2-Item Screen for delirium:

1. What are the months of the year backwards?
2. What is the day of the week?



If POSITIVE, then
Delirium Treatment

Delirium Treatment Protocol

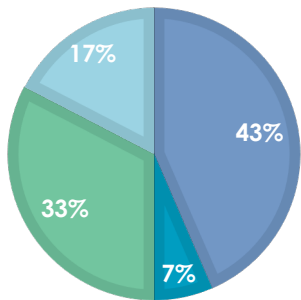
7AM-3:30 PM	3:00-11:30 PM	11:00PM- 7:30AM
Maintain Cognition and Orientation:	Maintain Cognition and Orientation:	Maintain Cognition and Orientation:
<input type="checkbox"/> Reorient as indicated	<input type="checkbox"/> Reorient as indicated	<input type="checkbox"/> Reorient as indicated
<input type="checkbox"/> Encourage family to remain at bedside as much & As possible/ family pictures	<input type="checkbox"/> Encourage family to remain at bedside as much As possible/ family pictures	<input type="checkbox"/> Encourage family to remain at bedside as much As possible/ family pictures
Sleep Promotion:	Sleep Promotion:	Sleep Promotion:
<input type="checkbox"/> Cluster care during sleep; quiet hours; avoid sedatives	<input type="checkbox"/> Cluster care during (and around) sleep & Quiet hours	<input type="checkbox"/> Cluster care during (and around) sleep & Quiet hours
Evaluate Confusion:	Evaluate Medications/Identify Contributors to Confusion:	Evaluate Medications/Identify Contributors to Confusion:
<input type="checkbox"/> Assess pain, hypoxia, dehydration, constipation, infection, hypoglycemia, and vital signs	<input type="checkbox"/> Assess dehydration, fill water; remove IV	<input type="checkbox"/> Assess pain, hypoxia, dehydration, constipation, infection, hypoglycemia, and vital signs
Early, Aggressive, Progressive Mobility:	Early, Aggressive, Progressive Mobility:	Early, Aggressive, Progressive Mobility:
<input type="checkbox"/> OOB to chair for meals	<input type="checkbox"/> OOB to chair for meals	<input type="checkbox"/> OOB to chair for meals
<input type="checkbox"/> Ambulate at minimum 3 times a day, as appropriate (and document)	<input type="checkbox"/> Ambulate at minimum 3 times a day, as appropriate (and document)	<input type="checkbox"/> Walk ≥ 3 times per day
Adequate Nutrition/Hydration:	Adequate Nutrition/Hydration:	Adequate Nutrition/Hydration:
<input type="checkbox"/> Encourage/ Assist with meals and fluids	<input type="checkbox"/> Encourage/ Assist with meals and fluids	<input type="checkbox"/> Encourage/ Assist with meals and fluids
Prevent Nosocomial Infections:	Prevent Nosocomial Infections:	Prevent Nosocomial Infections:
<input type="checkbox"/> Remove all tubes and drains as soon as possible	<input type="checkbox"/> Remove all tubes and drains as soon as possible	<input type="checkbox"/> Remove all tubes and drains as soon as possible
<input type="checkbox"/> Perform oral care at minimum twice daily	<input type="checkbox"/> Perform oral care at minimum twice daily	<input type="checkbox"/> Perform oral care at minimum twice daily

Mr. Smith in the hospital: What Matters?

Nursing staff asks: What would you most like to focus on while you are in the hospital? Every morning and on the white board

WHAT DO YOU WANT TO FOCUS ON WHILE YOU ARE IN THE HOSPITAL

- mobility
- feeling better/ pain control
- safe d/c home
- other



Mon Tue Wed Thur Fri Sat Sun		YALE-NEW HAVEN HOSPITAL	
Today's Date:			
Room #: 762??A		Telephone #: 203-688-22?B	
Doctor: 			
Nurse: 		Phone #:	
Clin. Tech: 		Phone #:	
Patient Service Manager:		Other Team Members:	Diet:
Activity: <input type="checkbox"/> Independent <input type="checkbox"/> Chair X <input type="checkbox"/> Ambulate X		Pain Rating Scale: Mild Moderate Severe 0 1 2 3 4 5 6 7 8 9 10 Next Pain Medication Time: _____ Goal: <input type="checkbox"/>	
Assistive Device:		Patient's Goal for the Day: 	
Family / Patient Questions / Other Communication:		CALL DON'T FALL. <input type="checkbox"/> FALL RISK <input type="checkbox"/> BED/CHAIR ALARM	
Family Contacts:			

Pharmacist screens Mr. Smith for high risk Medications

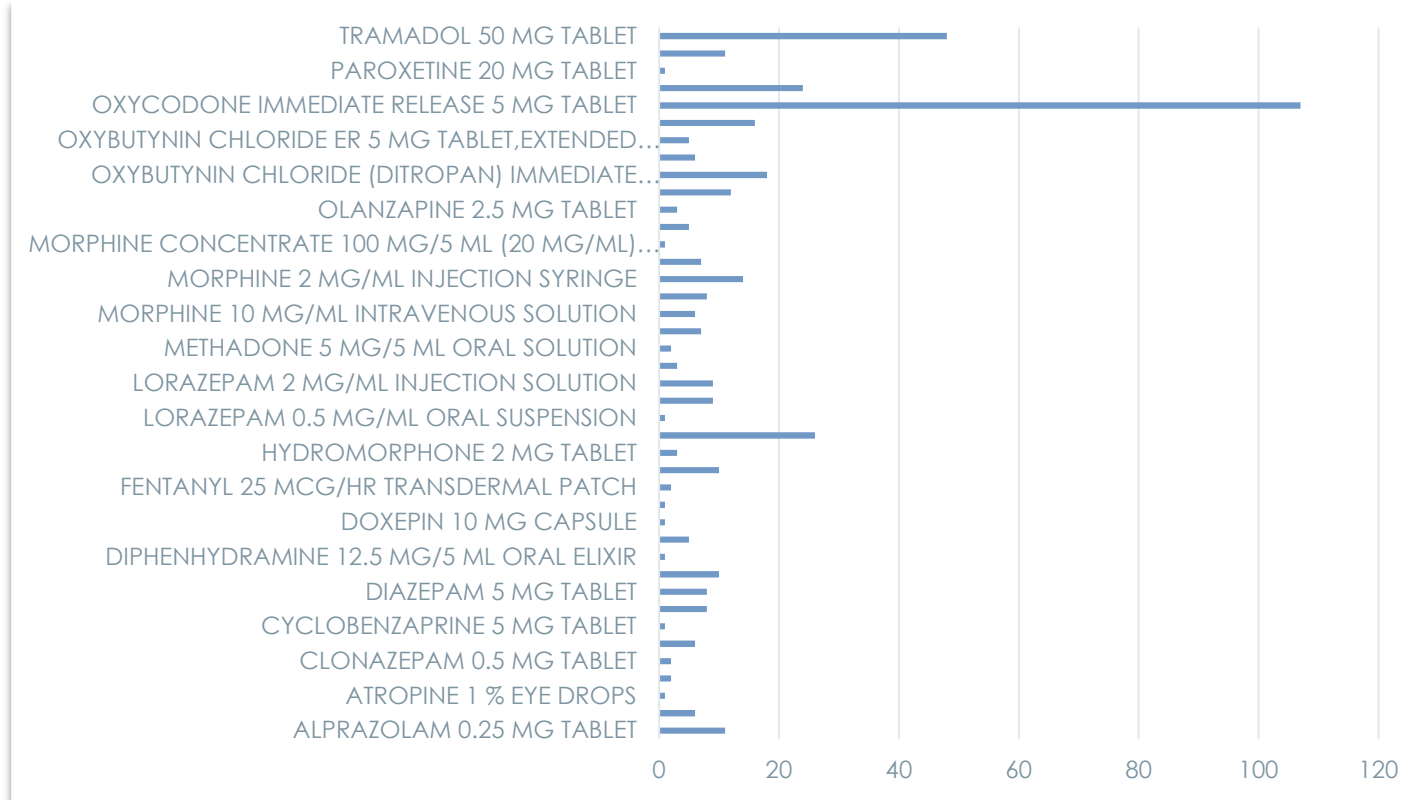
Benadryl -> Anticholinergic; confusion and falls
Losartan -> Low BP, orthostatic hypotension

Tools to Track and Monitor

The screenshot displays a medical software interface with a sidebar on the left containing navigation icons for Chart Review, Rooming, Results Review, Planning, Quality/Screening, and Adv. Care Plan. The main content area is titled 'Synopsis' and includes tabs for CHF, CAD, HYPERTENSION, and Geriatrics. A 'Patient Spotlight' section is highlighted in yellow, showing a table of clinical data. Below this is a 'Medications to Review' section with a red circle around it, listing Sertraline, TraZODone, and ZOLOFT with their respective dosages. Other sections include 'Labs to review' and 'Fall Risk Assessment'.

Days	3/10/2017	3/15/2017
Patient Spotlight		
Type of ADL assistance needed		assistance with dres...
Type of IADL assistance needed		assistance with meal...
<input type="checkbox"/> Mental Status Exam Score (Normal=23-30, Borderline=19-22, Impaired=<19)		28
<input type="checkbox"/> DRS Total Scores Only		134
Medications to Review		
<input type="checkbox"/> Sertraline	50 mg Daily Take 1 t...	
<input type="checkbox"/> Sertraline	25 mg Daily Take 1 t...	
<input type="checkbox"/> TraZODone	12.5 mg TID PRN (50... 12.5 mg TID PRN (50... ↕ ▶	
<input type="checkbox"/> ZOLOFT	100 mg Daily (100 mg... ▶	
Labs to review		
MRI brain with cine sequences		
Fall Risk Assessment		
Have you had 2 or more falls in the past year or any fall with injury in the past year?		yes
Risk Scores		

High Risk Medications - January 2019 - V4W



Mr. Smith screened by PT for Balance and Gait



The Johns Hopkins Highest Level of Mobility Scale (JH-HLM)

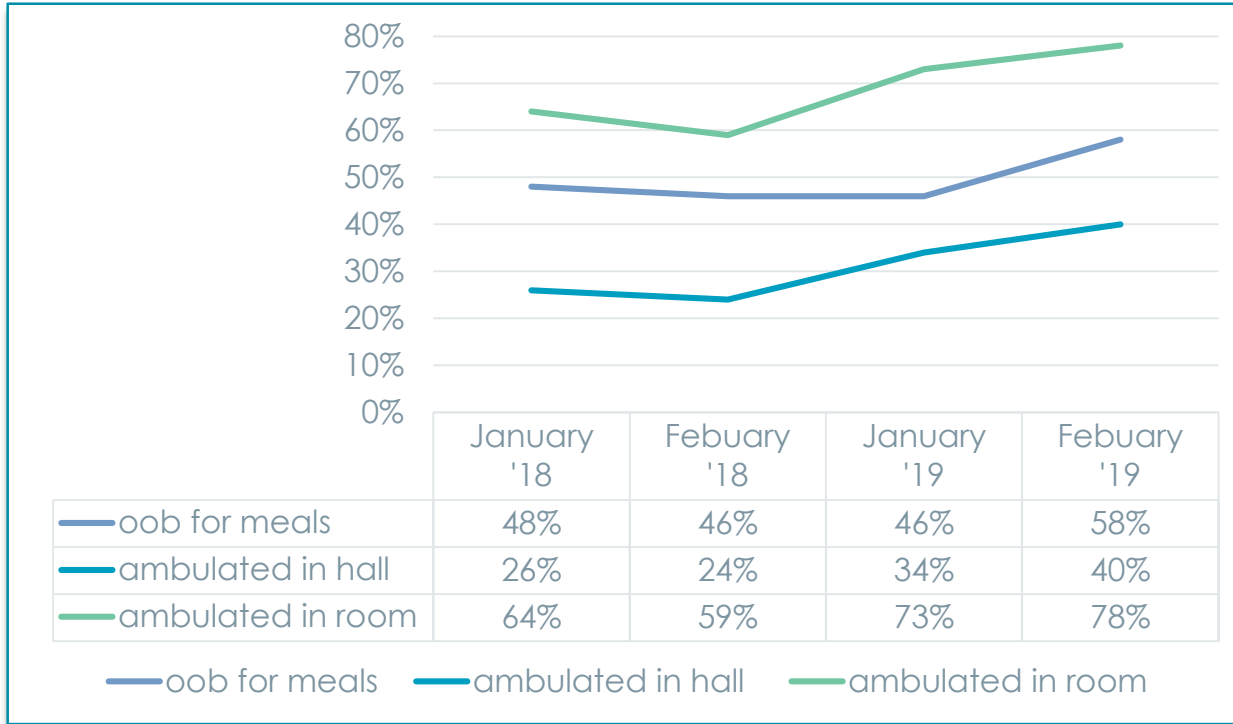


		Score
WALK	250+ FEET	8
	25+ FEET	7
	10+ STEPS	6
STAND	1 MINUTE	5
CHAIR	TRANSFER	4
BED	SIT AT EDGE	3
	TURN SELF / BED ACTIVITY	2
	LYING	1

↑
MOBILITY LEVEL

Report of what
the patient
ACTUALLY DID
(Observation)

YNHH ACE Unit Jan./ Feb. 2018 vs Jan./ Feb. 2019 Mobility



Mr. Smith goes home



Home care

- Home safety evaluation
- Checks postural BP
- Alert MD that patient takes OTC sleep medications
- What Matters mobility goal (walk in house & yard 5 times)

Outpatient rehabilitation

- Progressive balance, gait and strength program
- What Matters based mobility goal (walk to club 3 times/week)

PCP

- Avoid sleep medications; Sleep hygiene patient sheet
- Check postural BP → ↓ Flomax; BP medications
- Reinforce What Matters based mobility goal

AFHS: Successes & Challenges

Successes

- Clinical champions
- Build on existing excellence
- Involve patients in design
- Heightens visibility

Challenges

- Inertia (even good change is hard; “already doing it)
- Changes too small to see effect
- Cross site & discipline integration

