

Improving Inpatient Geriatric Care— Focus on Frailty, Falls and Four Ms

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Objectives



**Understand
differences in
outcomes for frail
geriatric trauma
patients**



**Review the Age-
Friendly Movement
and incorporate the
4Ms as a geriatric
best practice
framework**



**Examine how a care
plan focused on 4
simple “M’s” as a set
can improve
outcomes**



**Prepare for what’s
next with 2025 Age-
Friendly hospital
CMS measure**

What is Frailty?

- A clinically recognizable state of **increased vulnerability** resulting from a **decline in reserve** and **function** across multiple physiologic systems such that the ability to cope with everyday or acute stressors is comprised.

-Qian-Li Xue, Clin Geriatr Med, 2012

[10.1016/j.cger.2010.08.009](https://doi.org/10.1016/j.cger.2010.08.009)



SYSTEMATIC REVIEW

Does frailty status predict outcome in major trauma in older people? A systematic review and meta-analysis

- [...]frailty was found to be associated with increased in-patient mortality, increased length of hospital stay, adverse discharge destination and in-patient complications. Frailty was also found to be **a more consistent predictor of adverse outcomes (mortality, failure to rescue and adverse discharge destination) than age or injury severity.**

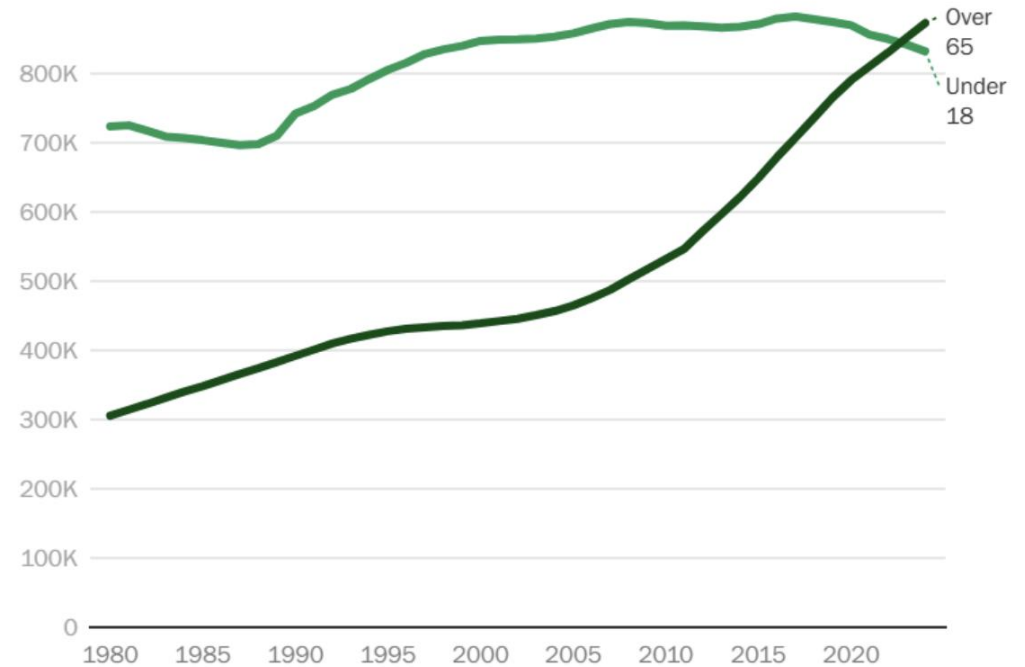
Shifting Population

➤ Similar Vulnerabilities

- Focus on fall and injury prevention
- Involvement of family and caregivers
- High nutritional needs
- Medication metabolism risks and dose adjustments required

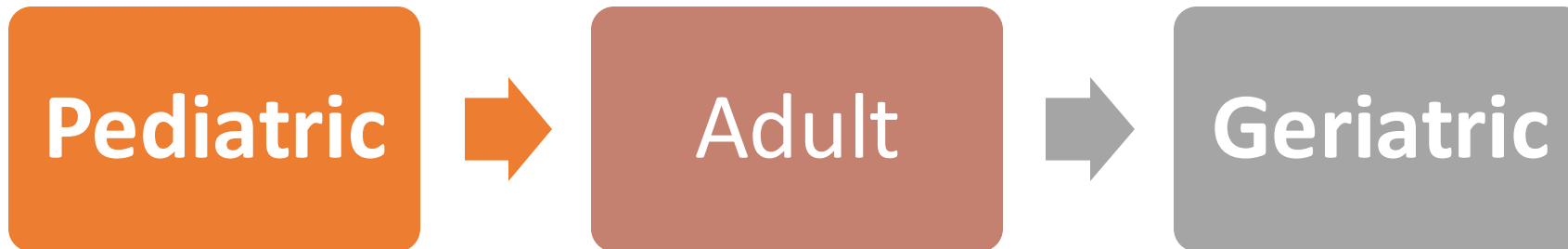
➤ Similar Specialty Care Needs

Oregon had twice as many residents under 18 as over 65 in the early 1980s. Now, there are more seniors than kids.



Data through 2024

Source: Oregon Office of Economic Analysis • [Get the data](#)



Age-Friendly Movement

What is Age-Friendly Care?



- Follows an essential set of evidence-based practices, known as the 4Ms
- Causes no harm
- Aligns with **What Matters** to the older adult and their family or caregivers



**A Rapidly Growing
Nationwide Movement
To Improve Health Care
for Older Adults.**

Age-Friendly 
Health Systems

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).




Assess and Act On

Table 4. Age-Friendly Health Systems Summary of Key Actions

	Assess	Act On
	Know about the 4Ms for each older adult	Incorporate the 4Ms into care delivery and document in the care plan
Hospital	Key Actions	
	<ul style="list-style-type: none">• Ask the older adult What Matters, including their health outcome goals and care preferences• Document What Matters• Document the older adult’s preferred support person or caregiver• Review medications and document high-risk medication use• Screen for delirium at least every 12 hours and upon any change in function or behavior• Screen for mobility limitations	<ul style="list-style-type: none">• Align the care plan with What Matters• Deprescribe, adjust doses, and avoid high-risk medications• Ensure sufficient oral hydration• Orient to time, place, and situation (or validation and orienting cues with dementia)• Ensure that older adults have their personal adaptive equipment and hearing and vision devices• Prevent sleep interruptions; use nonpharmacological interventions to support sleep• Ensure early, frequent, and safe mobility

- Review current processes, tools and resources used to support the 4Ms



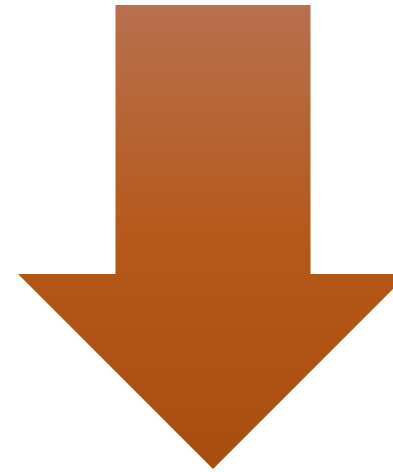
Institute for
Healthcare
Improvement

Age-Friendly Health Systems:

**Guide to Using the
4Ms in the Care of Older
Adults in Hospitals and
Ambulatory Care
Practices**

Synergistic Relationship Between 4Ms

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.
Medication	If medication is necessary, use Age-Friendly medication that does not interfere with What Matters to the older adult, Mobility, or Mentation.
Mentation	Prevent, identify, treat, and manage dementia, depression, and delirium.
Mobility	Ensure that older adults move safely every day in order to maintain function and do What Matters.



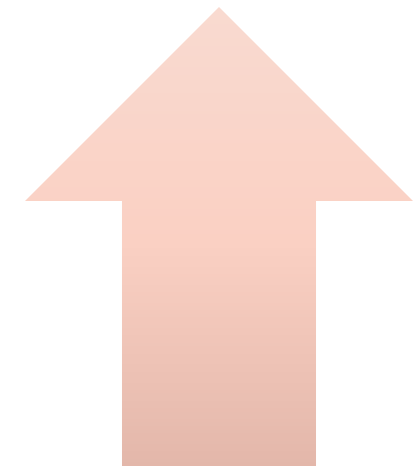
Reduce

- High Risk Medications
- Delirium



Increase

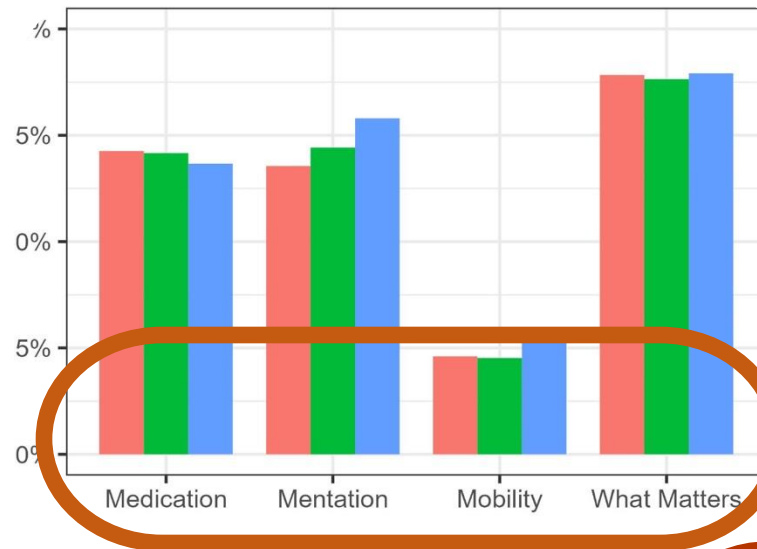
- Mobility, strength, ability to dc back home
- Goal concordant care



Improved Outcomes When Care
Focused on 4Ms

Evaluating Outcomes

- Cross-sectional analysis including 13,396 hospital admission between 9/2020-9/2022
- **Patients had to receive all 4Ms as a set. Cohort was divided into recipients and non-recipients**
- **Partial 4Ms care was considered non-recipient**



What Matters

- Surrogate decision maker identified or patient reported goals embedded into care plan each shift

Medication

- No high-risk medications administered

Mentation

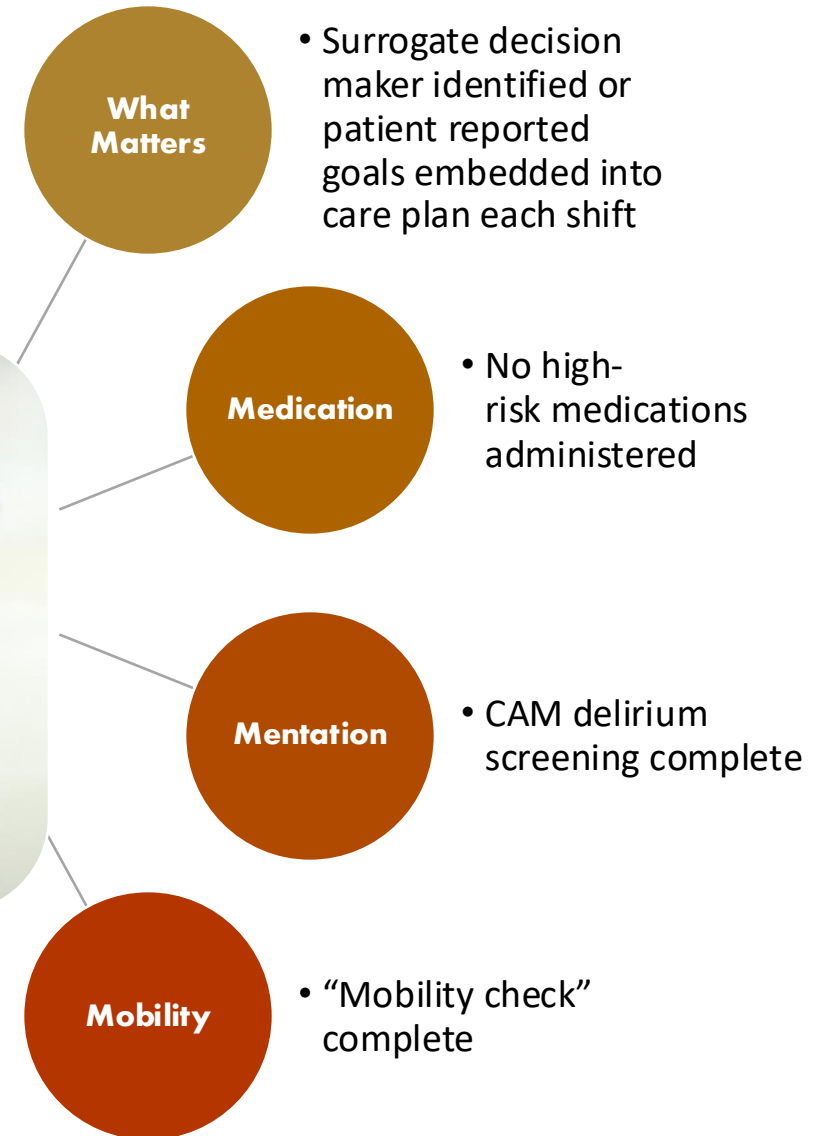
- CAM delirium screening complete

Mobility

- "Mobility check" complete

Focusing on *4 little things* resulted in *4 huge outcomes*

- Basic 4Ms care resulted in significantly improved outcomes:
 - Reduced 30-day readmissions
 - Reduced ICU length of stay
 - Reduced overall length of stay
 - Reduced total charges



System Outcomes 2023-2024

- At OHSU, significantly greater benefit seen in higher acuity geriatric inpatients

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

Expanding Geriatric Best
Practices with New 2025 CMS
'Age-Friendly Hospital Measure'

Age Friendly Hospital Measure

- FY2025 Inpatient Prospective Payment Systems Final Rule (p.1428):
 - “[...]assesses hospital commitment to improving care for patients 65 years or older receiving services in the hospital, operating room, or emergency department.”

Overview of Age-Friendly Hospital Measure

(from FY 2025 Inpatient Prospective Payment Systems Final Rule, p. 1428)

The Age Friendly Hospital measure assesses hospital commitment to improving care for patients 65 years or older receiving services in the hospital, operating room, or emergency department. This measure consists of five domains that address essential aspects of clinical care for older patients. Table IX.C.1 includes the five attestation domains and corresponding attestation statements.

TABLE IX.C-1. THE AGE FRIENDLY HOSPITAL MEASURE’S FIVE DOMAIN ATTESTATIONS

Attestation Domains	Attestation Statements: Attest “yes” or “no” to each element. (Note: Affirmative attestation of all elements within a domain would be required for the hospital or health system to receive a point for that domain)
Domain 1: Eliciting Patient Healthcare Goals This domain focuses on obtaining patient’s health related goals and treatment preferences which will inform shared decision making and goal concordant care.	(A) Established protocols are in place to ensure patient goals related to healthcare (health goals, treatment goals, living wills, identification of healthcare proxies, advance care planning) are obtained/reviewed and documented in the medical record. These goals are updated before major procedures and upon significant changes in clinical status.
Domain 2: Responsible Medication Management This domain aims to optimize medication management through monitoring of the pharmacological record for drugs that may be considered inappropriate in older adults due to increased risk of harm.	(A) Medications are reviewed for the purpose of identifying potentially inappropriate medications (PIMs) for older adults as defined by standard evidence-based guidelines, criteria, or protocols. Review should be undertaken upon admission, before major procedures, and/or upon significant changes in clinical status. Once identified, PIMS should be considered for discontinuation, and/or dose adjustment as indicated.
Domain 3: 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.	(A) Patients are screened for risks regarding mentation, mobility, and malnutrition using validated instruments ideally upon admission, before major procedures, and/or upon significant changes in clinical status. (B) Positive screens result in management plans including but not limited to minimizing delirium risks, encouraging early mobility, and implementing nutrition plans where appropriate. These plans should be included in discharge instructions and communicated to post-discharge facilities. (C) Data are collected on the rate of falls, decubitus ulcers, and 30-day readmission for patients > 65. These data are stratified by demographic and/or social factors. (D) Protocols exist to reduce the risk of emergency department delirium by reducing length of emergency department stay with a goal of transferring a targeted percentage of older patients out of the emergency department within 8 hours of arrival and/or within 3 hours of the decision to admit.
Domain 4: 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.	(A) Older adults are screened for geriatric specific social vulnerability including social isolation, economic insecurity, limited access to healthcare, caregiver stress, and elder abuse to identify those who may benefit from care plan modification. The assessments are performed on admission and again prior to discharge. (B) Positive screens for social vulnerability (including those that identify patients at risk of mistreatment) are addressed through intervention strategies. These strategies should include appropriate referrals and resources for patients upon discharge.
Domain 5: 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.	(A) Our hospital designates a point person and/or interprofessional committee to specifically ensure age friendly care issues are prioritized, including those within this measure. This individual or committee oversees such things as quality related to older patients, identifies opportunities to provide education to staff, and updates hospital leadership on needs related to providing age friendly care. (B) Our hospital compiles quality data related to the Age Friendly Hospital measure. These data are stratified by demographic and/or social factors and should be used to drive improvement cycles.

Domain 2: Responsible medication management

1,627 patients included in this study on potentially inappropriate medications and LOS

“....postoperative hospitalization was 1.4 days longer in PIM+ older surgical patients than those that were PIM-. Hospital LOS was almost **two days longer** in frail PIM+ patients than frail PIM- patients, and **nearly two days longer** in cognitively impaired PIM+ patients than cognitively impaired PIM- patients. ”



HHS Public Access

Author manuscript

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Potentially Inappropriate Medication Administration is Associated with Adverse Postoperative Outcomes in Older Surgical Patients: A Retrospective Cohort Study

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Pain & Cognitive Impairment

- Patients with cognitive impairment are often not able to reliably report or rate their pain
- Both ^{OVER} and ^{UNDER} treated pain can contribute to delirium
- Start low and go slow with opiates and older adults
- Non-verbal or PAIN-AD scales are critical in assessing and evaluating pain in patients with cognitive impairment.



Pain Assessment in Advanced Dementia (PAINAD) SCALE			
Criteria	Score 0	Score 1	Score 2
Breathing (independent of vocalization)	Normal	Occasional labored breathing, short period of hyperventilation	Noisy labored breathing. Long period of hyperventilation. Cheyne-stokes respirations
Negative Vocalization	None	Occasional moan or groan. Low level of speech with a negative or disapproving quality	Repeated troubled calling out. Loud moaning or groaning. Crying
Facial Expression	Smiling or inexpressive	Sad, frightened, frown	Facial grimacing
Body Language	Relaxed	Tense, distressed pacing. Fidgeting	Rigid. Fists clenched. Knees pulled up. Pulling or pushing away. Striking out
Consolability	No need to console	Distracted or reassured by voice or touch	Unable to console, distract or reassure

If restlessness or behaviors in delirium or dementia are escalating always consider uncontrolled pain as a driver



We know >50% of community dwelling older adults live with pain

- Expect this is higher in hospitalized older adults, both from acute illness / injury and immobility & quality of beds



We also know patients with cognitive impairment receive ~50% less opioid pain medication than those without cognitive impairment



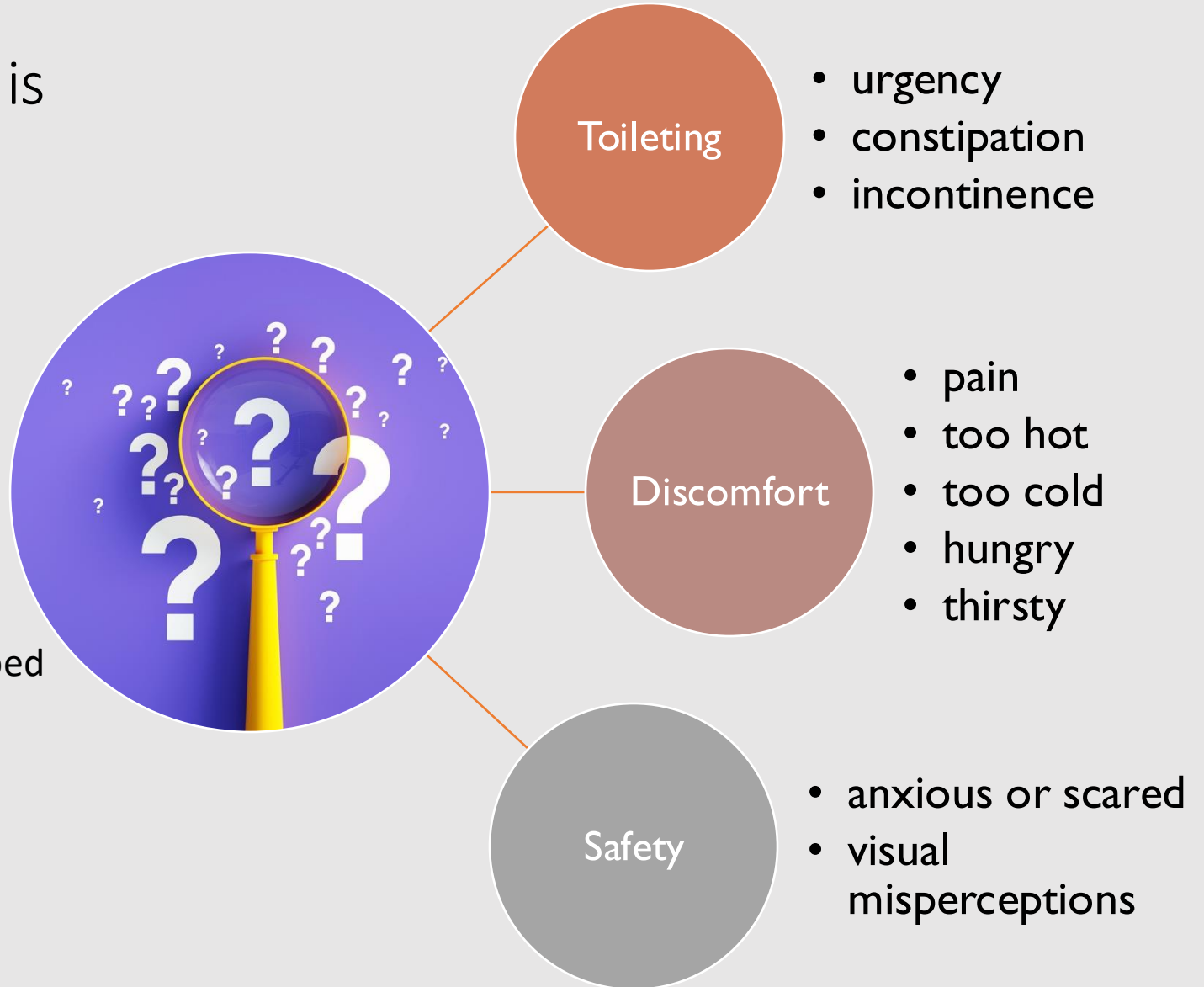
Untreated pain is a potent trigger for behaviors

Patel, et al. Pain 2013; Adunsky, et al. Arch Gerontol Geriatr 2002

https://www.facebook.com/mymedmag?__tn__=UC*F

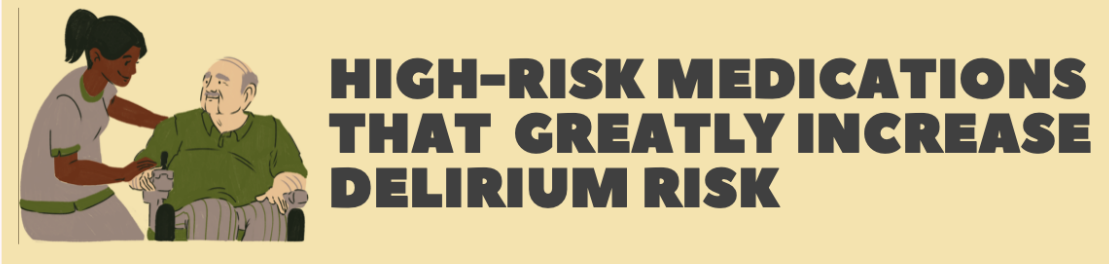
In older trauma patients, a sudden change in behavior is often due to **uncontrolled pain** or **other unmet need**

Restless
Pulling on lines
Trying to get out of bed
Agitated
Uncooperative



Pay attention to age & frailty when deciding what medication to use for common hospital conditions

1 high risk medication administration in a frail older adult can be enough to cause delirium and greatly increase LOS



BENZODIAZEPINES

Increased risk of cognitive impairment, delirium, falls, fractures, and motor vehicle crashes in older adults.

ANTICHOLINERGICS

Side effects include dizziness, sedation, confusion, delirium, constipation and blurred vision. Many classes of medications have anticholinergic properties, including:

Antihistamines/ Allergy/Cold & Cough Medicines ([hydroxyzine], [diphenhydramine], OTC medications with "PM")	Muscle Relaxants (cyclobenzaprine, methocarbamol,)
Motion Sickness Dizziness/Nausea (promethazine, scopolamine, meclizine, prochlorperazine)	Bladder antispasmodics (oxybutynin, trospium)

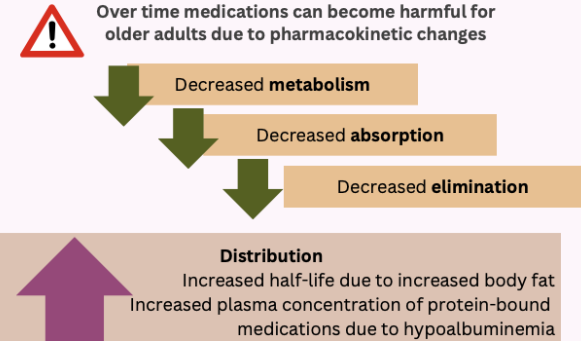
AVOID OR OBSERVE FOR ADVERSE CNS EFFECTS

Baclofen, Gabapentin, Levetiracetam, Pregabalin, Tramadol

"Z"-DRUGS

Zolpidem (Ambien), Zaleplon, Eszopiclone
May cause ataxia, impaired psychomotor function, syncope, and falls

OLDER ADULTS HAVE AN INCREASED RISK OF ADVERSE DRUG EVENTS



What to use instead

First, consider if symptom is a result of another medication --> extremely common in older adults with polypharmacy!

Complaint	First Line	Safest Medications
ITCHING	Wash skin, apply topical Eucerin cream TID	fexofenadine, loratadine, cetirizine may help, avoid hydroxyzine & diphenhydramine
INSOMNIA	Limit napping during day, increase activity OOB	Melatonin, all others carry risks and are patient dependent
ANXIETY	Therapeutic listening, family or volunteer visits, distraction, pain management	All carry risks
SPASMS	Heat & Massage	All carry risks, could try very low dose tizanidine

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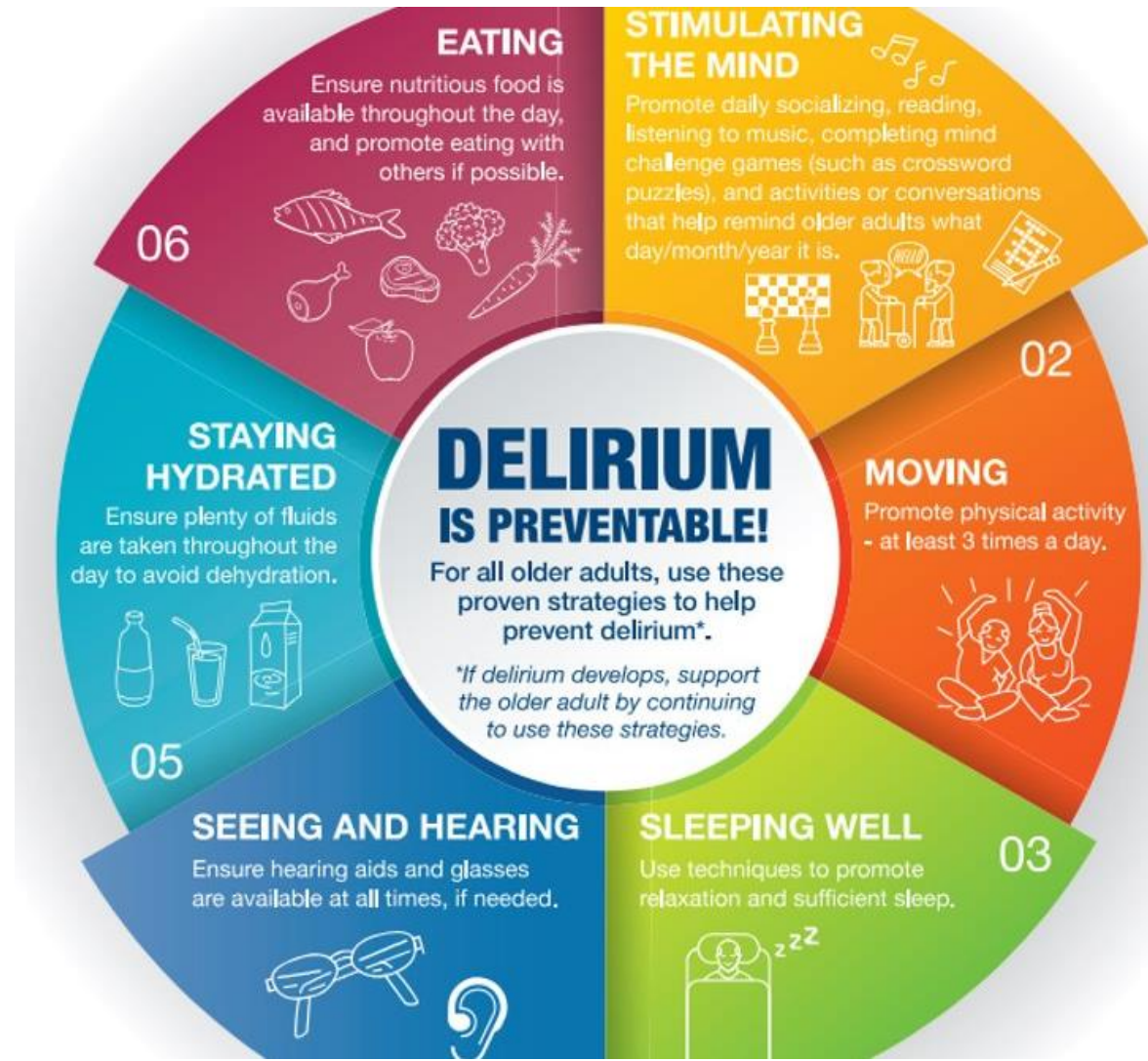
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Domain 3: Frailty screening and intervention

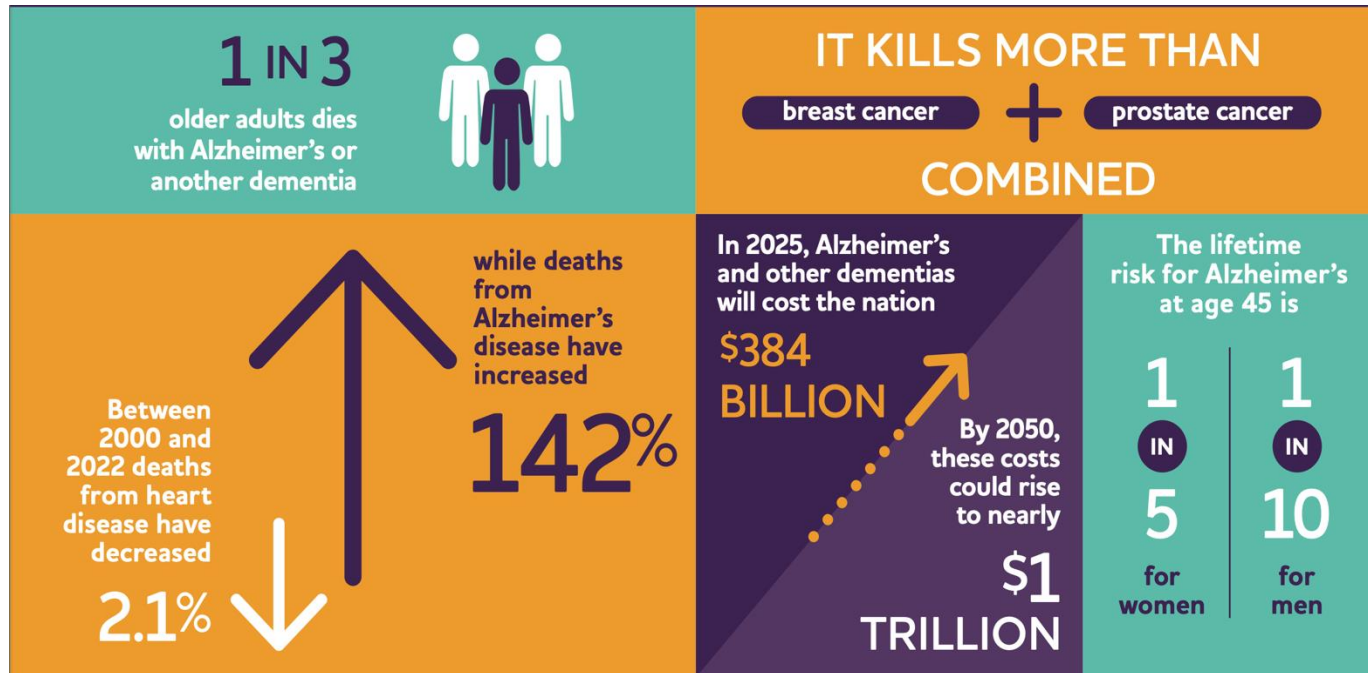
- All inpatients 65+ are screened for risks regarding **mentation, mobility and malnutrition**
 - positive screens result in management plans
 - minimizing delirium
 - encouraging early mobility
 - implementing nutrition plans

“These plans should be included in discharge instructions and and communicated to post-discharge facilities.

- Protocols exist to reduce the risk of emergency department delirium by reducing length of emergency department stay with goal of moving a targeted % of older patients out within 3 hours of the decision to admit.



Mentation



<https://www.alz.org/alzheimers-dementia/facts-figures>

Mini-Cog Exam

Target Population
Applies taken 2 weeks ago

Target Population for Administering Mini-Cog Exam: older adults or those in whom cognitive impairment or deterioration is suspected, based on direct observation, patient report, or concerns raised by family members, friends, or caretakers.

3-item recall administered
No taken 2 weeks ago

Instruct the patient to listen carefully to and remember 3 unrelated words and to repeat the words.
Apple, Tree, Dog

Clock-drawing Test (CDT)
Abnormal taken 2 weeks ago

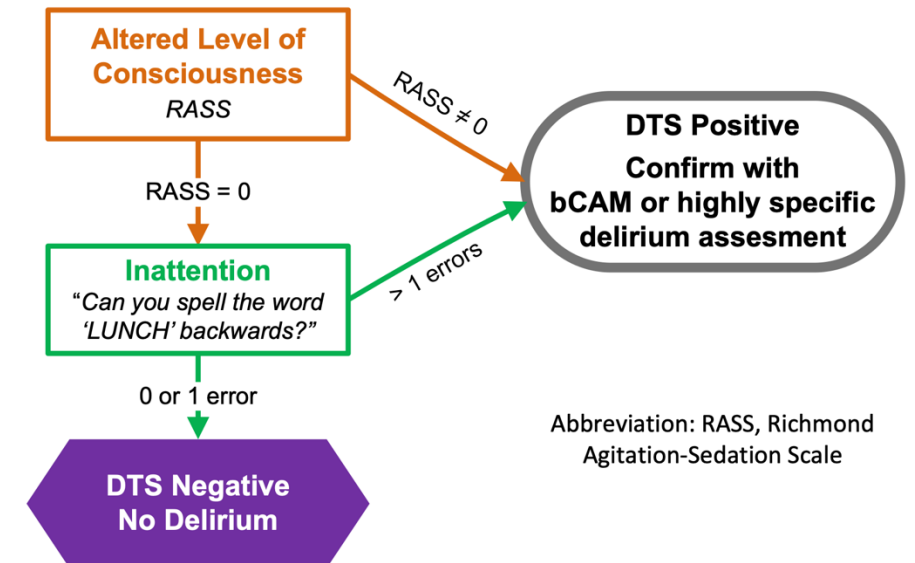
Instruct the patient to draw the face of a clock, either on a blank sheet of paper or on a sheet with the clock circle already drawn on the page. After the patient puts the numbers on the clock face, ask him or her to draw the hands of the clock to read a specific time.

3-item recall results
no words recalled taken 2 weeks ago

Ask the patient to recall the three previously stated words.

Mini-Cog Result
Abnormal taken 2 weeks ago

Delirium Triage Screen (DTS) Flow Sheet



Malnutrition

The screenshot shows a clinical order entry system. At the top, there are three tabs: 'Sidebar Summary', 'Brain', and 'Orders'. The 'Orders' tab is selected. Below the tabs, there are two sub-tabs: 'Manage Orders' and 'Order Sets'. The 'Manage Orders' sub-tab is active. Below this, there is a text input field with the placeholder text 'Place orders or order sets'. Below the input field, there is a dropdown menu labeled 'Select order mode'. Below the dropdown, there is a green button labeled 'New Orders'. Below the button, there is a red warning icon followed by the text 'NURSE REFERRAL TO NUTRITION SERVICES'. Below this text, there is a line of text: 'Routine, ONCE, today at 1630, For 1 occurrence'.

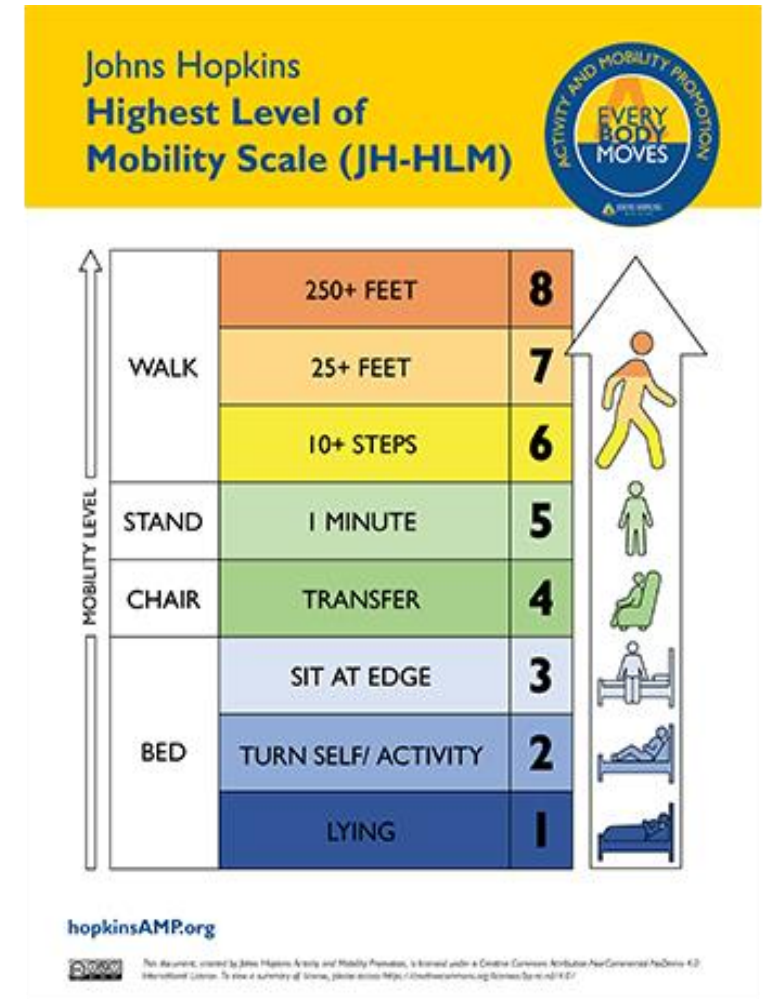
TABLE 2 Malnutrition Screening Tool

Questions	Points
Have you recently lost weight without trying?	
No	0
Unsure	2
If yes, how much weight have you lost?	
2–13 lb	1
14–23 lb	2
24–33 lb	3
Have you been eating poorly because of decreased appetite?	
No	0
Yes	1

Note: Add score for weight loss and appetite for final Malnutrition Screen Tool (MST) score. MST score of 0–1: not at malnutrition risk; if length of stay exceeds 7 days, rescreen and repeat as needed. MST score of 2 or more: at malnutrition risk; rapidly implement nutrition interventions. Perform nutrition consult within 24–72 h, depending on risk.



Mobility



Align Age-Friendly care
with other priorities:

Reduce LOS

Reduce HACs (Falls, CAUTI, HAPI)

<https://doi.org/10.1111/ajag.12636>

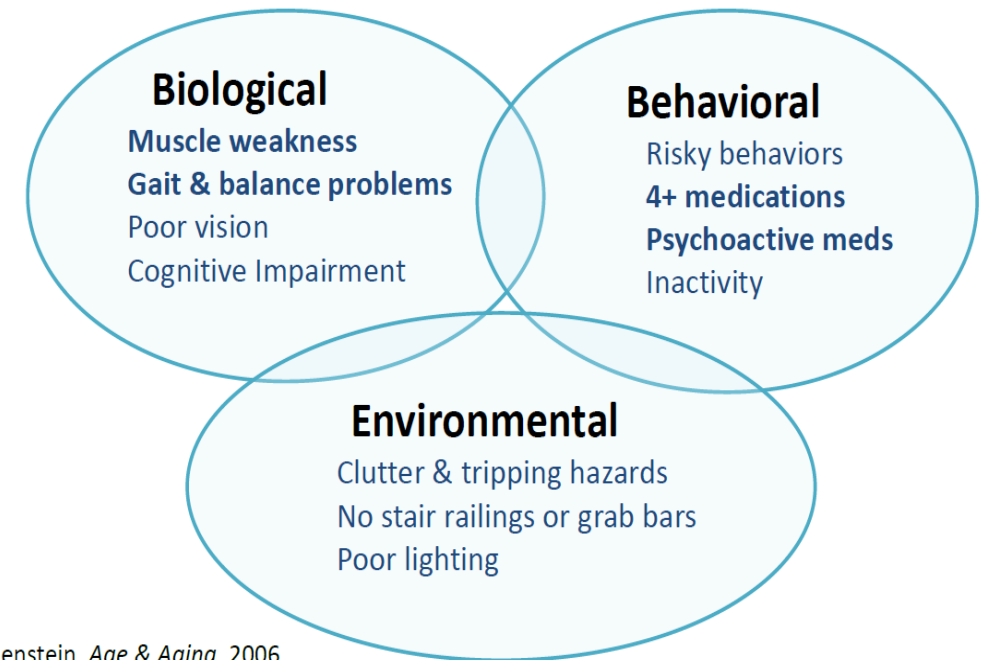
Fall vs Syncope

Details of the event are important because the differential for falls & syncope are different

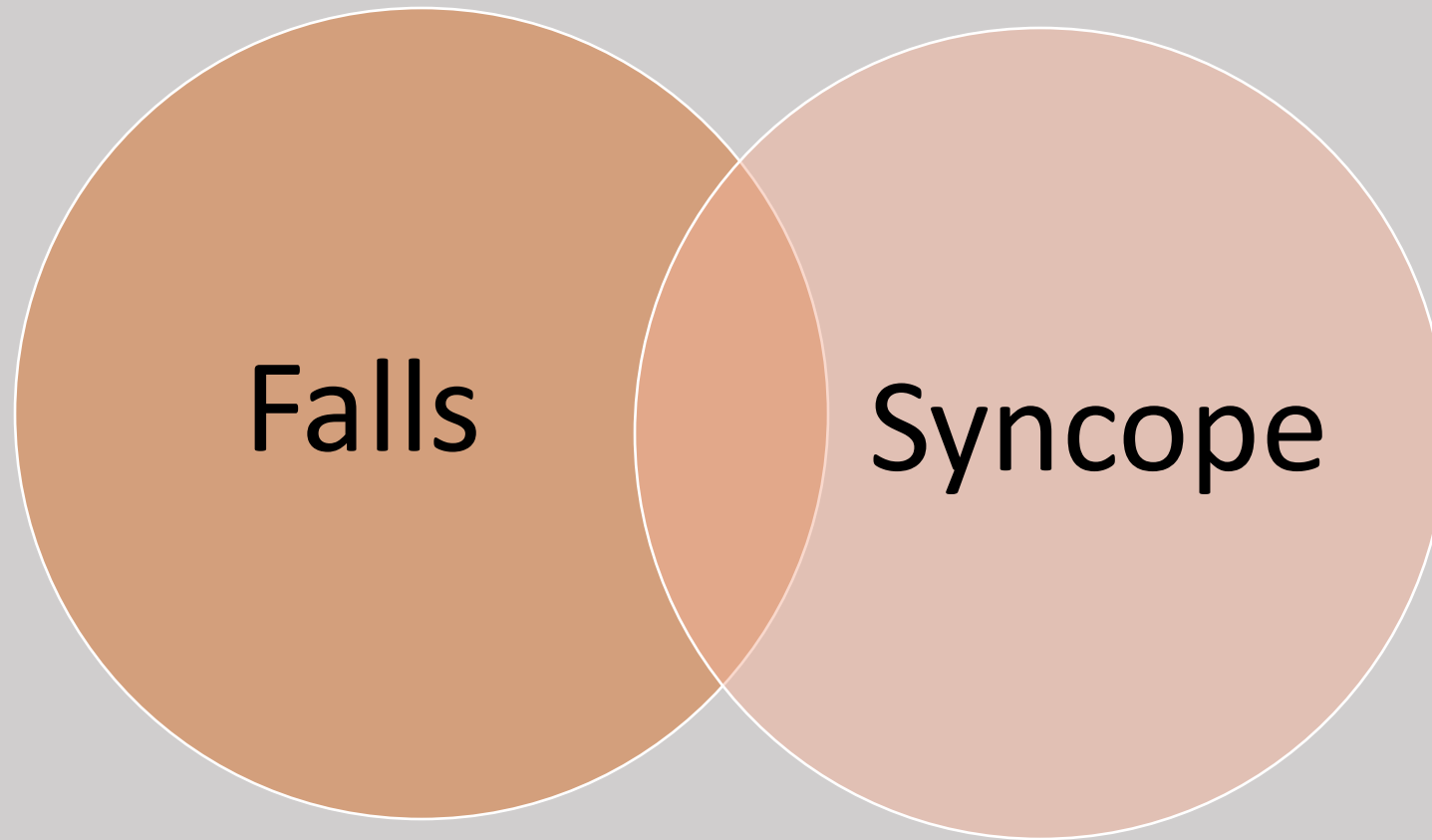
- Setting: time of day, surroundings, location, pets, shoes?, assistive devices?
- Prodromal symptoms
- Actions leading to the fall: turning, standing, sitting, reaching

Use this history to decide if the event was syncope or a fall for other reasons

Falls can be Prevented



Rubenstein, *Age & Aging*, 2006



Gait & balance assessment

Orthostatic vitals

Vision assessment, bifocals to single focus lenses

Medication review & reduction

Footwear change

Correct vitamin deficiencies

New assistive device¹

12 lead EKG +/- trial of telemetry

Orthostatic Vitals

TTE

Medication review & reduction²




1. CDC STEADI Falls Prevention Guideline, 2014

2. Runser LA, et al. Am Fam Physician, 2017

Orthostatic Hypotension

- ① Have the patient lie down for 5 minutes.
- ② Measure blood pressure and pulse rate.
- ③ Have the patient stand.
- ④ Repeat blood pressure and pulse rate measurements after standing 1 and 3 minutes.

A drop in BP of ≥ 20 mm Hg, or in diastolic BP of ≥ 10 mm Hg, or experiencing lightheadedness or dizziness is considered abnormal.

POSITION	TIME	BP	ASSOCIATED SYMPTOMS
Lying Down 	5 Mins.	BP ____ / ____ HR _____	
Standing 	1 Min.	BP ____ / ____ HR _____	
Standing 	3 Mins.	BP ____ / ____ HR _____	



Lying and
Standing BP
Measurements
Only—**No
More Sitting**

If orthostatic vital signs positive :

- Keep HOB >30 degrees, avoid lying flat for long periods
- Compression stockings
- **Pumping legs/feet prior to standing**
- **Avoid walking away from chair/bed until standing for 1 min**
- **Push PO fluids (Gatorade, V8 juice), avoid excess caffeine**

Final Takeaways

- Adjust care priorities when Trauma patient is Frail or ≥ 65 to include focus on 4Ms
- Identify Frailty. Screen for Mentation, Malnutrition and Mobility impairments at admission to help guide risk mitigation
- Identify and lean on interdisciplinary Geriatric Champions who can help those little things add up to improved outcomes



**“Listen. I wish I
could tell you it
gets better. But, it
doesn’t get better.
You get better.”**

JOAN RIVERS

Combating Agism



- <https://ogg.osu.edu/media/documents/sage/Facts-on-Aging-Quiz-2015.pdf>

Facts on Aging Quiz

Breytspraak¹, Ph.D., and Lynn Badura, B.A., Grad. Gerontol.
Gerontology Program
University of Missouri-Kansas City
2015

number of versions of quizzes on aging, patterned after the "Facts on Aging Quiz" that appeared in two issues of *The Gerontologist*. The current version of the quiz developed at UMKC was authored by Linda Breytspraak and Liz Kendall, M.A. The current revision of that initial version was authored by Linda Breytspraak, Ph.D., and Lynn Badura, B.A., Graduate Certificate in Gerontology.

Tools to Assess Bias



- Harvard Implicit Association Test



<https://oohtoday.com/aegis-living-campaign-challenges-notions-of-getting-old/>

Association Test

will categorize items into groups as fast as you can. These are t

	Items
	Laughing, Joyous, Lovely, Friendship, Enjoy, Happy, Love, Cheerful
	Scorn, Disaster, Selfish, Grief, Nasty, Annoy, Negative, Hurtful
	
	

even parts. The instructions change for each part. Pay attentio

Continue

Thank you!

Questions?

Email: enaa@ohsu.edu



References

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