What Can We Do About MEDICATIONS and Falling?

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Program Objectives

- Learn what medications have to do with falling
- Describe what medications may affect the older adult and contribute to a fall
- Achieve the goal of systematic change that will benefit nursing home Residents through routine medication review

From the AGE and AGEING Journal:

Medication Reviews and Deprescribing as a Single Intervention in Falls Prevention: A Systematic Review and Meta-Analysis

"In a frail subgroup of older persons, medication review might be effective even as a single intervention."

Seppala, Lotta J, et al

Age and Ageing, Volume 51, Issue 9, September 2022, afac191, https://doi.org/10.1093/ageing/afac191

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Fall Statistics

- Falls are the leading cause of fatal and non-fatal injuries in adults 65 years and older-8 million fall injuries per year in the US
 OK death rates are higher than the national rate
- Fall death rates among adults age 65 and older increased about 30% from 2009 to 2018-Deaths per year in the US=648,000
 OK fall percentages are higher than national average
- In Oklahoma, falls result in the hospitalization of around 7,000 older adults and the death of more than 450 each year

Falling has become just a normal occurrence that is associated with advanced age.

We must change this thought process

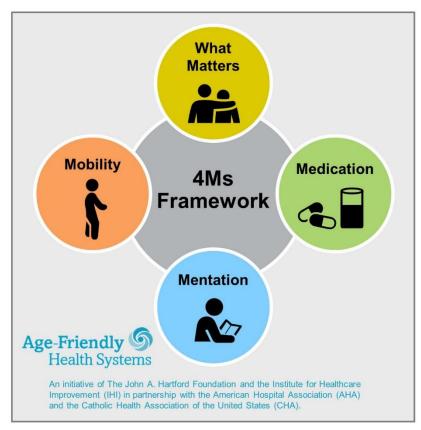
What MATTERS to your residents concerning falls?



Fundamental Characteristics of an Age Friendly Health System

- Leadership committed to addressing ageism
- Reliable use of evidence-based care
- Staff trained and proficient in care of older adults
- High performing teams focused on measureable outcomes
- Systematic approach for:
 - Coordinating care with other organizations
 - Engaging with patients and their caregivers
 - Process for eliciting and using patient goals and priorities

Age-Friendly Health Systems & The 4Ms



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

Graphic files and guidance at ihi.org/AgeFriendly

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.

Medications Are Consistently Associated With the Risk of Falls

- Side Affects Affecting Falls
 - √ Sedation
 - ✓ Cognitive Impairment
 - ✓ Impaired **Balance**, **Coordination**, and **Reactions**
 - ✓ Orthostatic hypotension
 - ✓ Dehydration and Dizziness
 - **✓** Psychomotor Impairment
 - √ Hypoglycemia
 - **✓** Confusion

Which of the following medication categories are on the patient's current medication list?

If the patient is taking more than one medication in the diuretic category, the point value should be calculated by points x number of medications in that category. Each category may receive no more than 3 points.

			Number of medications	Total points*
Category		Points per medication		
Antidepressants	(AD)	3		
Antipsychotics	(AP)	3		
Anticonvulsants	(AC)	3		
Benzodiazepines	(BZ)	3		
Sedatives and hypnotics	(SH)	3		
Narcotics	(NA)	3		
Antihypertensives	(AH)	2		
Analgesics (non-opiate)	(NO)	2		
Antiarrhythmics/Cardiac Drugs	(CD)	2		
Diuretics	(DI)	1		
Receiving 4 or more different medications daily		3		
Any medication dose changed in the last 3 days		3		
Any medication added in the last 3 days		3		
		Total		
			*No more t	than 3 points per category
Total score 6 or more = high risk for falls				

Adapted from: CDC Falls in Nursing Homes. http://www.cdc.gov/homeandrecreationalsafety/falls/nursing.html. Accessed on March 25, 2016, AHRQ: Preventing Falls in Hospitals. http://www.ahrq.gov/professionals/systems/hospital/fallpxtoolkit/fallpxtk-tool3i.html. Accessed on March 25, 2016. Drug-Related Falls in Older patients: implicated drugs, consequences, and possible prevention strategies. DeJong MR, Van der Elst M, Hartholt KA. Therapeutic advances in Drug Safety. 2013, 4(4): 147-154

CAUTION

Be especially aware of your **Resident's Medications** and the need for **Medication Reconciliation** and **Assessment/Re-assessment** at the following times:

- Admission
- Return from a visit to the ER
- Admittance after a Hospital Visit
- Any change from one level of care to another (SNF, LTACH, Independent living)

REDUCE MEDICATION RELATED FALLS IN YOUR NURSING HOME

DON'T WAIT FOR A FALL TO GET YOUR PHARMACIST INVOLVED!

Interprofessional Teams working together reduce fall risk and contribute to sustained improvements according to EVIDENCE

Medications (Prescriptions, OTCs, supplements)

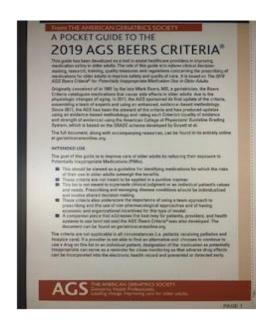
Side effects from medications can increase your Residents chance of falling

ASK YOURSELF:

- Does the **Resident** have a **history** of falls?
- Is the Resident on four or more medications of any type taken daily?
- Is the **Resident** currently on **Psychotropic** drugs?
- Is the Resident on other High Risk for Falls medications?
- Has the Resident started any new medications of any type in the past two weeks?
- Does your Resident use medications as a SLEEP AIDE?
- Have you noticed that any of the current medications the Resident is taking is causing drowsiness, dizziness or weakness?

MEDICATIONS-What can We Do?

- Review the individuals Med List for high-risk medications and document them on a regular basis (BEERS List)
- Identify the indication to dose adjust, or deprescribe high-risk medications, and document and communicate potential changes
- Get help from the Care Provider or Pharmacist as needed to make necessary changes
- Assist Pharmacist in prioritization of medications to discontinue, substitute or minimize
- Evaluate effectiveness of the intervention



https://geriatricscareonline.org/ProductAbstract/2019-agsbeers-criteria-pocketcard/PC007

WHAT ELSE CAN I DO AS THE NURSE?

- CARRY YOUR BEERS POCKET GUIDE FOR USE ANYTIME and conduct Medication Assessments using Beers criteria on a prescribed basis
- USE a FALL RISK DRUG PHARMACY FORM according to your policies

AND

- Inform CNAs and CMAs which residents have been given a "water pill"
- Let them know about new meds or changes in meds and potential side effects
- Use a Fall Prevention Medication Review Checklist
- Add to the individualized CARE PLAN

Example: Fall Prevention Medication Review Checklist

Fall Prevention Medication Review Checklist

Pat	atient Name:	Review Date:		
	Number of medications p	patient was taking:		
Please indicate which of the following recommendations were made/actions taken when reviewing the above patient's medication intake.				
□ Notes:		ssible (especially if taking more than four medications).		
□ Notes:	Cardiovascular drugs.	ns, especially psychotropic drugs, diuretics and		
□ Notes:	increased exercise capacity.	or hypertension in after one month with decreased heart size, or		
□ Notes:	Inhibitors (SSRIs) - Benzodiazepines	es, Butyrophenones)		
□ Notes:	Avoid combination of certain drugs • Narcotics with psychotropics • More than one psychotropic			

WHAT CAN WE DO CONSISTENTLY CONCERNING Medications?

- Develop a FALLS TEAM with a continuous process policy and procedure
- Review Resident Medications on a regular basis using the BEERs List
- Get assistance from your Pharmacist for deprescribing

• EDUCATE THE RESIDENT AND STAFF!



QUESTIONS?

Thank You!

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