



Medication Best Practices in ALFs A four-part webinar series

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Medication Safety¹ for Older Adults П

Psychotropic Medications

Series Overview

III.

Responding to residents' needs:
Non-pharma approaches

IV.

The HEAR²
response
approach to
meeting
residents' needs

¹The Medication Safety Curriculum is based on a revision of Dr. Patricia Slattum's DSS training PowerPoint, "Nutritional Needs of Older Adults and Medication Safety"

The HEAR approach was developed by Dr. Andrew Heck, Geropartners. Used with permission.

AT the end of this series, you will have an increased understanding of :

Strategies to prevent medication-related problems

Healthcare providers'
role as partners in
maintaining and
improving medication
safety

Resources for improving medication safety in ALFS

Psychotropic medications and why they are used.

The warnings
concerning
antipsychotic use,
especially in persons
living with dementia.

Antipsychotics as part of a comprehensive care plan for persons with diagnosed mental illness.

Behaviors and psychological symptoms of dementia (BPSD) as communication efforts

Underlying causes of people's **behaviors**

The impact of approaches/attitudes when **responding** to residents' needs

Person-centered, nonpharma **techniques** for responding to residents' needs

Part I: Medication Safety for Older Adults

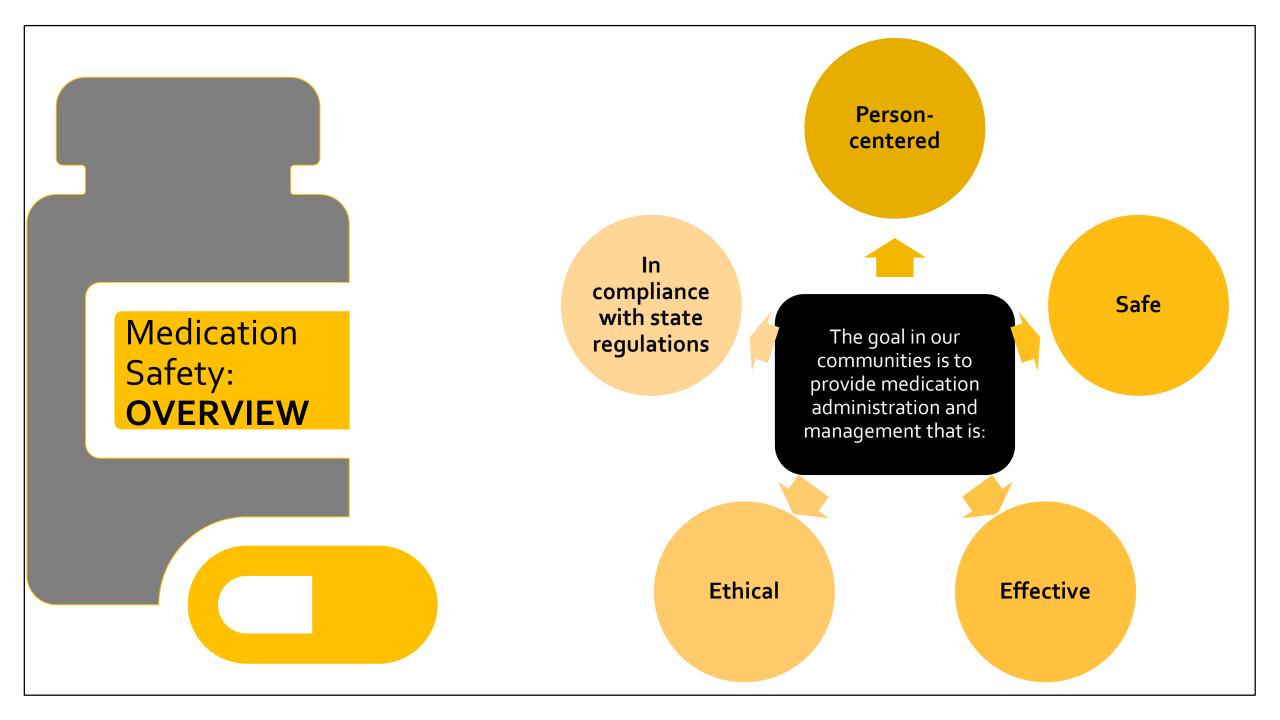
1) be able to **identify** medication-related problems in older adults

As a result of attending this webinar, you will:

2) have **strategies** to prevent adverse drug events

3) understand the role of healthcare providers as **partners in** maintaining and improving **medication safety**

4) be able to **identify resources** for improving medication safety in the ALF environment



"...Medications probably are the single most important health care technology in preventing illness, disability, and death in the geriatric population..."

We grow more diverse in aging

Special Considerations for Medication Safety

Ever-changing bodies and minds across the life-span

Comorbidities

Polypharmacy¹

Drug Interactions

Transitions of care

Medication Management Process¹

Upstream

Prescribing

- Licensed prescribers
- In-house or private providers

Upstream

Order Communication

- Transmission
- Verification
- Pharmacist review and approval

Downstream

Dispensing and Administration

- Supply medication
- Give as prescribed
- Document medicine administration

¹Leading Age Center for Aging Service Technologies. (2015). Medication Management Technologies for Long-Term and Post-Acute Care:

<u>A primer and provider selection guide. Retrieved from http://www.leadingage.org/sites/default/files/Medication%20ManagementWhitepaper.pdf</u>



Poll

Where do your role(s) fall in the medication management process? Please check all that apply



- Licensed prescribers
- In-house or private providers

Order Communication

- Transmission
- Verification
- Pharmacist review and approval

Dispensing and Administration

- Supply medication
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The Aging Body and Medications

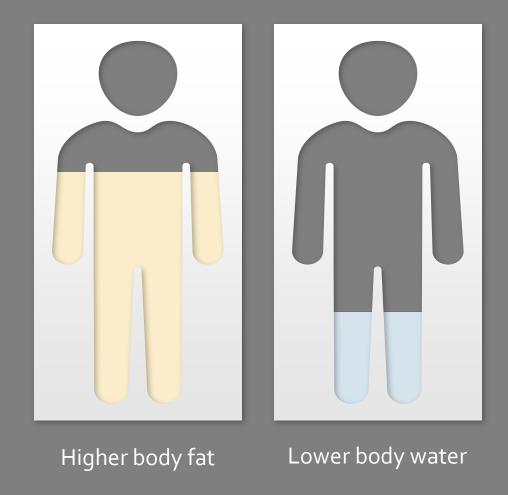
Our bodies experience physical changes as we age.

These changes can impact:

- How well medications get into and out of the body.
- How the body responds to medications.

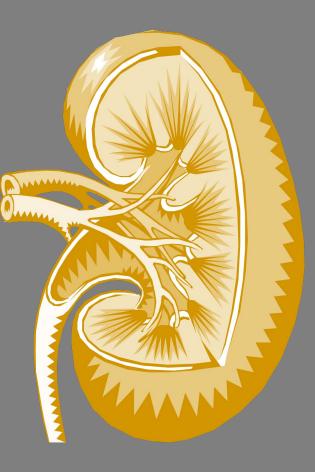
Slattum, P.W., Peron, E.P., & Ogbonna, K. (2016). The Pharmacology of Aging. In: Fillit H.M., Rockwood K., Woodhouse K. (eds). *Brocklehurst's Textbook of Geriatric Medicine and Gerontology.* New York, NY: Churchill Livingstone.

Changes in Body Composition with Aging



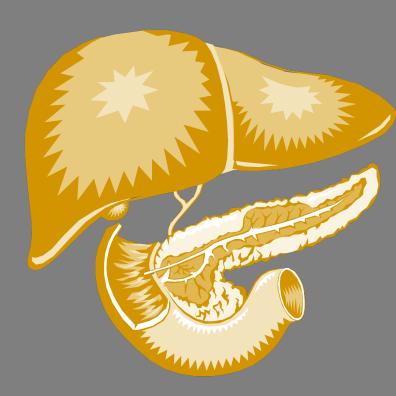
Blood concentration of medication → medication effect

Changes in the Kidney and Liver with Aging



Most drugs leave the body through the liver and kidney:

- ☐ Liver and kidney functions decline with aging
- Drugs take longer to get out of the body
- ☐ Older adults may need lower doses or a longer time between doses



Changes in Drug Response with Aging

Older adults may:

have decreased functional ability before taking the medication. be more sensitive to medications.

be less able to compensate for the effects of medications.

This may result in medication-related problems

WHAT IS A MEDICATION-RELATED PROBLEM?

An undesirable event experienced by a patient that involves (or is suspected to involve) drug therapy and actually (or potentially) interferes with a desired patient outcome.

Risk Factors for

Medication-Related Problems¹

More than 6 current medical diagnoses

More than 12 doses of medications per day

9 or more total medications History of adverse drug reactions in the past

Low body weight

Age > 85 years

Low kidney function

¹Fouts, M. Hanlon, J., Peiper, C., Perfetto, E. & Feinberg, J. Identification of elderly nursing facility residents at high risk for drug-related problems. *Cons Pharmacist*, 12:1103

Other Factors Contributing to Medication-Related Problems in Older Adults¹

Incorrect drug or dose

Nonadherence to the drug regimen Multiple prescribers

Limited evidence base

Limited
health
professional
expertise in
aging

Ageism:
"That's
what
happens to
older
people."

"Any new symptom in an older [person] should be considered a possible drug side effect until proved otherwise." 1

Geriatric Syndromes¹

Clinical conditions in older persons that do not fit into exact disease categories

Geriatric syndromes include:

Delirium

Falls

Frailty

Dizziness

Fainting or temporary loss of consciousness

Urinary incontinence

Functional decline

¹Inouye, S. K., Studenski, S., Tinetti, M. E., & Kuchel, G. A. (2007). Geriatric Syndromes: Clinical, Research and Policy Implications of a Core Geriatric Concept. *Journal of the American Geriatrics Society*, *55*(5), 780–791. http://doi.org/10.1111/j.1532-5415.2007.01156.x

POLL:

In which of these areas have you observed medication-related problems in your workplace (current or former)? (Please check all that apply.)

- → Allergic or negative drug/drug interactions
- Medication administration errors
- ☐ Problems due to side effects (falls, dizziness, etc.)
- Resident refuses medication
- Other

Problems
Associated
with
Medication¹

Medication errors

Adverse drug events

Use of drugs that are potentially inappropriate for older adults

Polypharmacy

Increased resource utilization

¹Leading Age Center for Aging Service Technologies. (2015). Medication Management Technologies for Long-Term and Post-Acute Care:

A primer and provider selection guide. Retrieved from http://www.leadingage.org/sites/default/files/Medication%20ManagementWhitepaper.pdf

Adverse Drug Events (ADEs)

About 95% of ADEs are <u>predictable</u>, <u>28% preventable</u>

Injuries resulting from medication errors

Affects 1 in 3 older adults taking 5+ meds

• 2/3 of those will require medical attention.

Impact older adults disproportionately

Falls, hip fractures, delirium, and urticaria (hives) are top ADEs

Difficulty urinating

Confusion / Delirium

Memory Impairment

Dizziness

Dry Mouth Constipation

Rapid Heart Rate

Blurred Vision

Anticholinergic Side Effects

Inappropriate Prescribing for Older Adults

Defined as1:

- Prescribing of medications where the potential risk outweighs the potential benefit
- Prescribing that does not agree with accepted medical standards

Potentially Inappropriate Drugs

- Older adults more likely to take inappropriately prescribed medication
- Leads to Adverse Drug Events
- 29% of elders receive inappropriate meds¹

Polypharmacy (Not always a bad thing)

Polypharmacy defined as:

- ► Administration of more medications than are needed
- ► Concurrent use of multiple medications

Tools to Reduce PIDs

Beers Criteria	American Geriatrics Society	List of medications that are potentially inappropriate/to be avoided in older

adults.

Screening Tool of Older People's Clinical criteria that help flag inappropriate prescribing for older **STOPP** Potentially Inappropriate adults Prescriptions

Screening to Alert Doctors to Right Used with STOPP; focuses on **START** medication underuse **Treatments**

Functional tool that considers pt's clinical profile and functional status. Assess, Review, Minimize, **ARMOR** Emphasizes quality of life in making Optimize, Reassess medication decisions.

 First medication prescribed

1st med

ADE

- Adverse drug event caused by medicine 1
- Misdiagnosed as new medical condition

 Prescribed to "treat" symptom from medicine 1

2nd med

ADEs

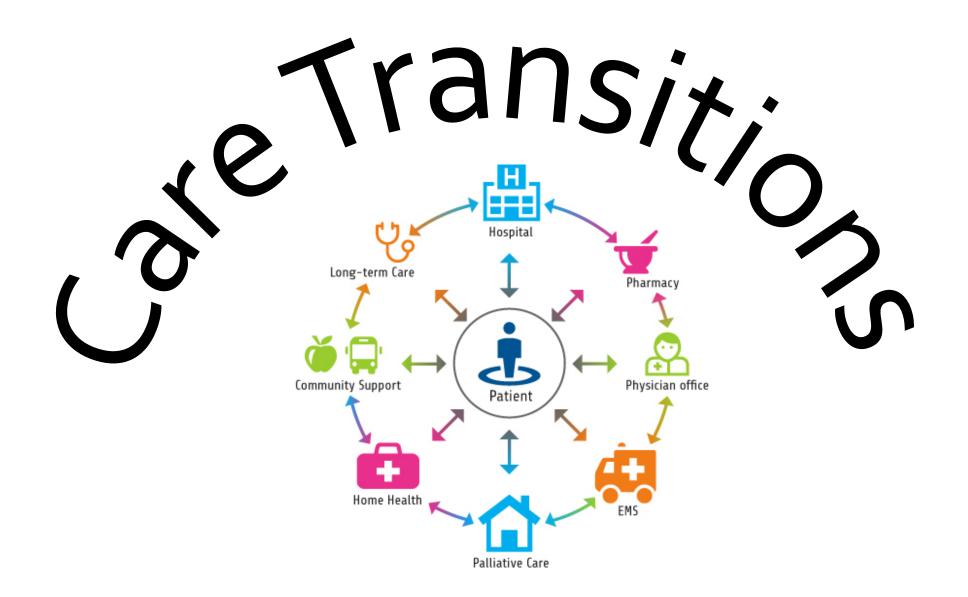
 Potential for additional ADEs associated with medication 2

¹Kalisch, L., Caughey, G., Roughead, E., & Gilbert, A. (2011). The prescribing cascade. Australian Prescriber, 34(6), 162-166.

Medication Interactions

Drugs can interact with:

- Alcohol
- Food
- Herbal products
- Other supplements
- Other medications



Poll: Transitions of Care

Have you encountered medication problems during transitions into/out of your communities? (yes/no)

If yes, what was the general problem? (Please type answer in Questions box of your webinar's Control Panel)

How You Can Help with Transitions

Identify barriers before transitions occur

Develop an organizational transition of care plan

Establish contacts with other care sites

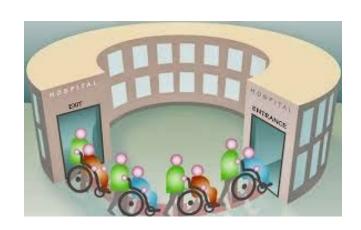
Consider family members as part of care team

Provide medication lists for residents' appointments; ask for updates

Regulatory Requirements: Hospital Transitions

• 22 VAC 40-73-650-F:

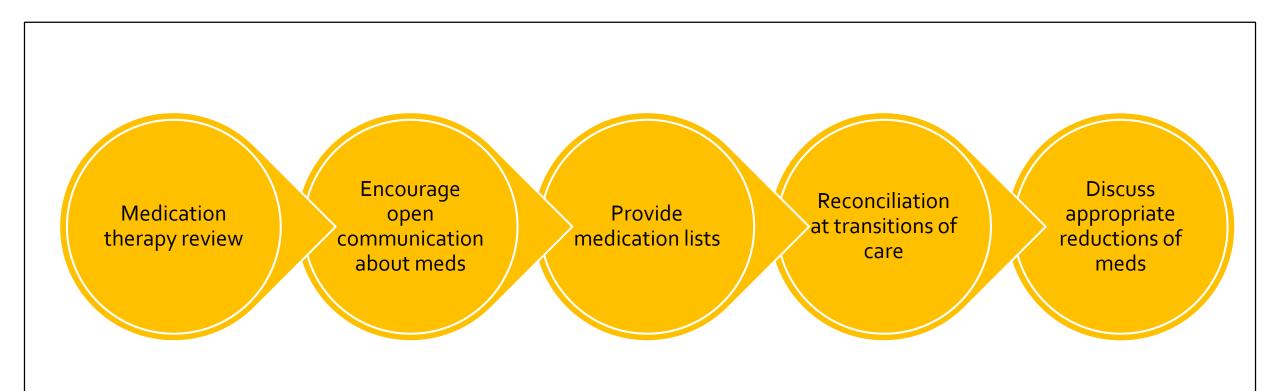
Whenever a resident is admitted to a hospital for treatment of any condition, the facility shall obtain new orders for all medications and treatments prior to or at the time of the resident's return to the facility. The facility shall ensure that the primary physician is aware of all medication orders and has documented any contact with the physician regarding the new orders.



INCREASED RESOURCE UTILIZATION

HOW WE CAN HELP:

Strategies to prevent and effectively react to medication-related problems



Your experience and knowledge are the first line of defense against ADEs

Safe Medication Strategies

Work with pharmacists

- Medication information
- Adherence devises
- Exploring options

Create a safe space for:

- Reporting medication errors
- Questioning particular medication processes
- Staff empowerment

Take advantage of the resources that other professionals bring to the team.

Safe Medication Strategies

Poll

Do you have safe medication strategies to share?

Please type your short answer in the Questions box.

SHAREYOUR EXPERIENCE!

Additional Resources





www.fda.gov/drugs/resourcesforyou/consumers/tipsforseniors/default.htm







http://www.hazelden.org/web/public/hff10730.page



Institute for Safe Medication Practices

A Nonprofit Organization Educating the Healthcare Community and Consumers About Safe Medication Practices

www.ismp.org/

HOMEWORK - Case study: Mrs. Velazquez

- Mrs. Velazquez is an 86-year-old female whose primary complaint is dry mouth.
- She has recently moved into your AL community and is increasingly having difficulty with activities of daily living.
- She dozes off frequently during the day and seems unsteady on her feet.
- She repeats herself during conversations with her daughter and occasionally does not remember events earlier in the day.

- When her daughter tries to discuss this with her, she claims that this is "normal" for someone her age and to stop worrying her.
- Mrs. Velazquez brings up the issue of dry mouth with each of her three doctors, but the only recommendations she has received are to suck on hard candy and drink more fluids.
- She doesn't feel that these measures really help.

Mrs. Velazquez' medication list

Drug	Brand name	dosage	How long taken?		
AM: Calcium		600 mg	3 years		
Gabapentin	Neurontin®	8oomg	2 years		
Noon: Duloxetine	Cymbalta®	6oomg	3 weeks		
Gabapentin	Neurontin®	800 mg	2 years		
Oxaprozin	Daypro®	600 mg	1.5 years		
PM: Quetiapine	Seroquel®	25 mg	1 year		
Amitriptyline		50 mg	3 months		
Temazepam	Restoril®	15 mg	10 years		
Gabapentin	Neurontin®	800 mg	2 years		
PRN: Mylanta, Gas X, Tylenol, Sudafed					

Discussion questions:

- 1. Why is Mrs. Velazquez at risk for a medication-related problem?
- 2. What is her biggest concern?
- 3. Does she have symptoms of a medication-related problem?
- 4. What medication was started most recently?
- 5. What can you do to help in this situation?





THANKYOU!

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