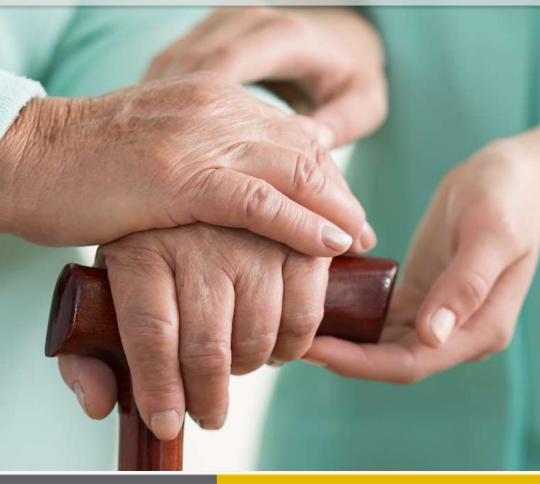
# **Fall Prevention II**

Impact, Assessment and Hidden Risks





**Webinar Education Series** 

May 2016

Presented by

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#### **Fall Prevention II**

This webinar will address the following topics:



- 1. How falls impact the health care system
- 2. Making an accurate Fall Risk Assessment
- 3. Identifying dangers in the community
- 4. Fall prevention programs in your community
- 5. Community and educational resources



### **Facts about Falls**

The Centers for Disease Control and Prevention reports:



1 of out every 3 people age 65 and older fall each year.



Every 29 minutes an older adult dies from a fall.



1 out of 5

falls causes a serious injury such as a head trauma or fracture.



# Impact on the healthcare system



#### **Medical costs**

Fall injuries total over \$28 billion annually.

Hospital costs account for 2/3 of the total.



## Hospitals

Falls and Trauma is one of 10 hospital-acquired conditions (HACs) for which Medicare will not cover.



# Making an

### **Accurate Fall Risk Assessment**

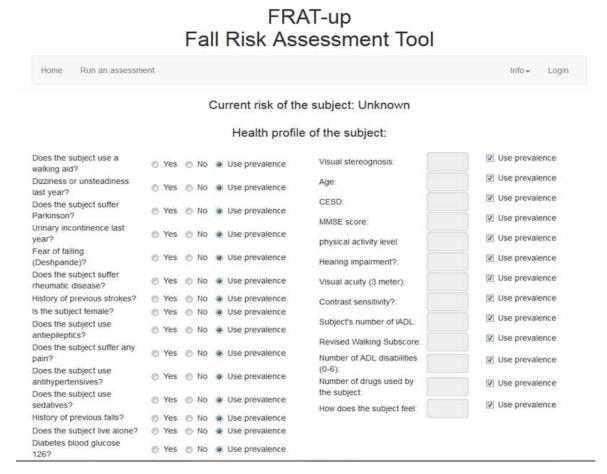
#### Patient risk factors include:

- History of falls
- Confusion
- Age (over 65)
- Impaired judgment
- Sensory deficit
- Medications
- Unable to ambulate independently
- Decreased level of cooperation
- Increased anxiety/emotional lability
- Incontinence/urgency
- Cardiovascular/respiratory disease affecting perfusion and oxygenation
- Postural hypotension with dizziness
- Attached equipment (IV pole, tubes, etc.)
- Community safety hazards





### **Fall Risk Assessment Tools**



http://ffrat.farseeingresearch.eu/runAssessment

#### **Risk factors:**

- Walking aid used
- Hx of dizziness, Parkinson's
- Fear of falling
- Hx of stoke, RA, Pain
- Antihypertensives,
   Sedatives, Antiepileptics
- History of falls
- Blood glucose >126
- Lives alone
- Activity, Age, Vision, ADLs
- Number of drugs used



## **Fall Risk Assessment Tools**

#### **Current Risk Result:**

- Predicts the risk as a probability –
   1.0 = 100% chance of a fall
- Fall prevention protocols and interventions can decrease the number of falls.
- To be effective, a prevention strategy requires a prior step to evaluate the fall risk of the subjects.

Current risk of the subject: 0.528



 Despite extensive research, existing assessment tools for fall risk have been insufficient for predicting falls.



## **Quick Assessment of Patient's Risk**

- Timed Up and Go (TUG) Test
  - Use this test to assess mobility.
- 30-Second Chair Stand Test
  - This test will assess leg strength and endurance.
- 4-Stage Balance Test
  - Assess balance using this test



http://www.cdc.gov/steadi/videos.html





#### **Sidewalk Cutouts**

#### Cutouts are now at all transitions.

• Change in level and angle are difficult to distinguish.

#### New "detectable warnings"

• The bright color can warn of the transition, but they also bring additional risk.



## "Detectable Warnings"



# Brightly colored with truncated domes.

• Present an uneven surface for walking and can be slippery when wet.

# Can be placed on flat or sloping transitions.

• Do not distinguish the surface, primarily to warn the visually impaired of "entering traffic".





#### **Doors and Entrances**

#### Variety in types of doors

- Manual
- Automated
- Fully automated
- Actuated Automation

#### **Difficulty Navigating Doors**

- Double entrances
- Entryway grates
- Heavy doors
- Managing walking aids









#### **Escalators**

#### **Difficult transitions**

- Change of speeds, top & bottom
- Visual distinction
- Step height

#### Other challenges

- Walking aids
- Balance
- Differing speeds, steps-vs-handrails

Best solution, take the elevator!





# Wet Weather & Spills

Be aware when coming in from wet or snowy weather

- Greatest risk with non-carpeted floors
- Beware if no entrance mats

We think of this in the home/ bathroom, but must remember this as well.





# **Shopping: Parking**

Parking lots offer little space for exiting vehicles.

Average parking space: 9 feet=108 inches

Car width can be 76+ inches

Subtract 6" for the doors and it can leave only 10" to exit.



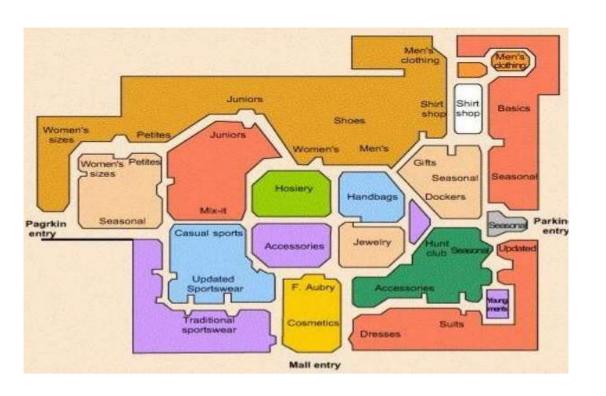


# **Shopping: Grocery**

#### **In-Aisle Promotions**

- Multiple in aisle promotions
- Easy to back into, trip
- Appear in unexpected location





# **Shopping: Retail Stores**

#### **Race Track Layout**

- Aisle confusing and difficult to navigate.
- Also with in-aisle promotions



# Fall Prevention: Physical aspects



## Regular exercise

It is important that the exercises focus on increasing leg strength and improving balance, and that they get more challenging over time.



# Medication review by a doctor or pharmacist

Identify prescription and over-the counter medicines that may cause side effects or interactions such as dizziness or drowsiness.



## Eye examination

by an eye doctor at least once a year and update their eyeglasses to maximize their vision. Consider glasses with single vision distance lenses for some activities such as walking outside.



# Regular Exercise

- Regular exercise –
   Not hours at the gym!
- Make it fun
- Make it interesting
- Include each type of exercise
  - Endurance
  - Strength
  - Balance
  - Flexibility





### **Endurance**

 Endurance, or aerobic, activities increase breathing and heart rate.

These activities help keep you healthy, improve fitness, and help do the every day tasks.





## **Endurance**

 Endurance exercises improve the health of your heart, lungs, and circulatory system.



 They also delay or prevent many diseases that are common in older adults such as diabetes, colon and breast cancers, heart disease, and others.



## **Endurance**

Endurance activities will make it easier for you to:

- Push your grandchildren on the swings
- Vacuum
- Rake leaves





# Strength

 Even small increases in muscle strength can make a big difference in your ability to stay independent and carry out everyday activities such as climbing stairs and carrying groceries.





# Strength

 Some people call using weight to improve your muscle strength "strength training" or

"resistance training."

- Strength exercises include:
  - Lifting weights
  - Using a resistance band





# Strength

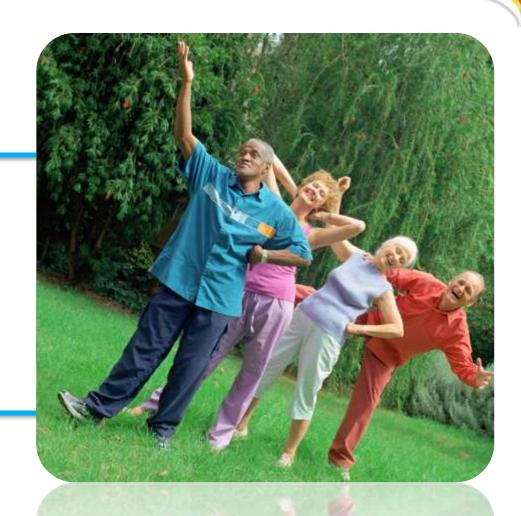
- Strength training can maintain your ability to:
  - -Carry a full laundry basket from the basement to the second floor
  - -Carry your smaller grandchildren
  - -Lift bags of mulch in the garden





### **Balance**

- Balance exercises
   help prevent falls
- Many lower-body strength exercises also will improve balance.





## **Balance**

• Exercises to improve your balance include:





## **Balance**

- Balance exercises can help you:
  - Stand on tiptoe to reachsomething on the top shelf
  - Walk up and down the stairs
  - Walk on an uneven sidewalk without falling





# **Flexibility**





# **Flexibility**

- To increase your flexibility, try:
  - Shoulder and upper arm stretch
  - Calf stretch
  - Yoga





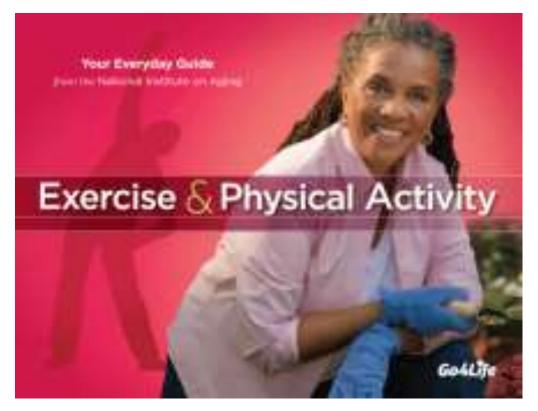
# **Flexibility**

- Flexibility or stretching exercises make it possible for you to:
  - Look over your shoulder to see what's behind you as you back the car out of the driveway
  - Make the bed
  - Bend over to tie your shoes





## **Exercise & Physical Activity**



From the National Institute for Aging

https://www.nia.nih.gov/health/publication/exercise-physical-activity/introduction



#### **STEADI**

### Stopping Elderly Accidents, Death and Injuries

- Make fall prevention part of your clinical practice
- Learn to screen patients 65+ for falls, identify risk factors, and offer interventions.
- Continuing Education available for this free interactive course.



http://www.cdc.gov/STEADI/



# Fall Prevention Community and Educational Resources





**Centers for Disease Control and Prevention** cdc.gov



National Council on Aging ncoa.org



Caregiver Action Network caregiver action.org



**Shield HealthCare Community** shieldhealthcare.com/community



# Fall Prevention Community and Educational Resources

"6 Steps to Prevent Falls" – An infographic by National Council on Aging:

http://www.ncoa.org/assets/files/pdf/NCOA-Falls-Flyer-2014.pdf

"Fall Prevention Awareness Week" – Sept. 22-28, 2016:

http://stopfalls.org/news-events/fall-prevention-awareness-week/

**National Falls Prevention Resource Center Community Programs:** 

http://www.ncoa.org/assets/files/pdf/center-for-healthy-aging/Select-EB-FP-Programs-Grid-021215.pdf



Search keyword "Fall Prevention" at shieldhealthcare.com/community



#### **Fall Prevention II**

#### References:

#### Aha-solutions.org

http://www.aha-solutions.org/resources/pdf-files/rlsolutions-2014-0603-wp-cmsnever.pdf

#### CDC.Gov

http://www.cdc.gov/HomeandRecreationalSafety/Falls/adultfalls.html

#### CMS.gov

http://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/AcuteInpatientPPS/HAC-Reduction-Program.html

http://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/HomeHealthQualityInits/HHQIQualityMeasures.html

#### **Sage Journals**

http://hhc.sagepub.com/content/23/2/125.abstract



# Q & A





Questions not answered during the live webinar will be answered via email.



#### Fall Prevention II

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This concludes our presentation. Thank you for joining us.



Special thanks to Barbara E. West, RN, MSN, CWOCN, and Capital Nursing Education

