

Preventing Falls in Older Adults

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Fred Ko MD

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Overview of the Webinar

- 1. Review of evidence Nancy
- 2. STRIDE Trial Implementation- Siobhan
- 3. Clinical Tools for preventing falls Fred



Session I: Background of Falls Older Adults: Review of the Evidence

Nancy Latham, PhD, PT

Brigham and Women's Hospital Boston, MA



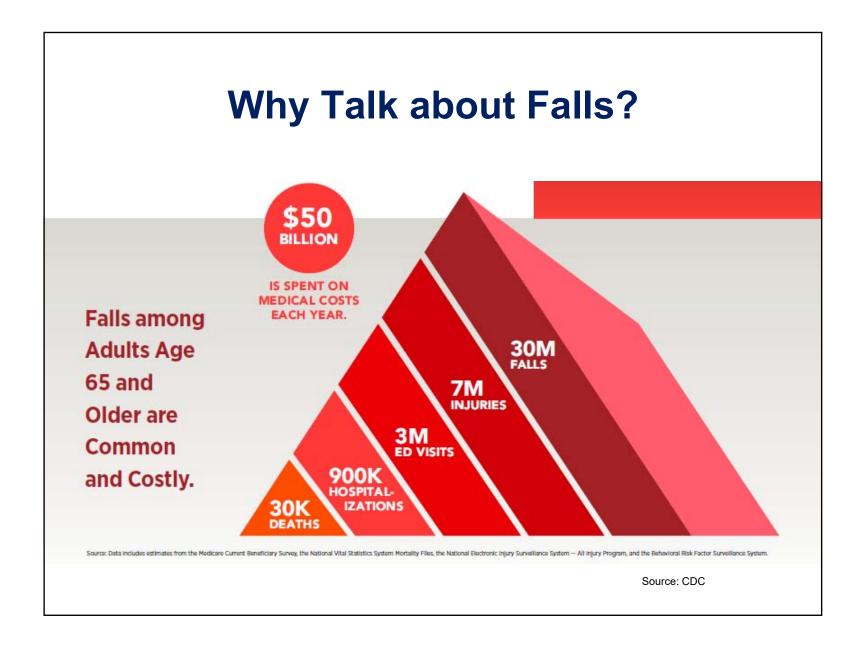






Objectives

- To review the evidence of:
 - The scope of the problem of falls in older adults
 - Risk factors associated with falls and fall-related injuries
 - The effectiveness of interventions to prevent falls

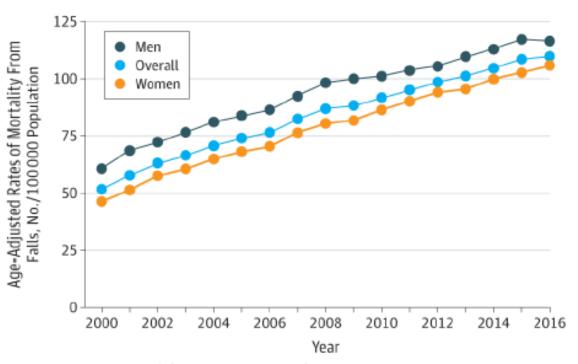


Falls are a Frequent and Serious Problem for Older Adults

- One-quarter of older Americans fall each year. Of those who fall:
 - 20-30% have moderate to severe injuries (e.g., hip fractures, head trauma, lacerations)
- Leading cause of fatal and nonfatal injuries in older people
- Every 20 minutes, an older person in the US dies as the result of a fall
- Fewer than 50% of older people discuss their falls with their primary care provider



Age adjusted fall mortality among U.S. adults aged 75 years and older, 2000 - 2016.



¹Harthoit KA, Lee R, Burns ER, van Beeck EF. Mortality From Falls Among U.S. Adults Aged 75 Years or Older. Journal of the American Medical Association (JAMA). 2019;321(21):2131-2133. Source: NCOA

Causes of Falls Among Older Adults

- Falls may occur for a variety of reasons:
 - Intrinsic (e.g., poor balance, weakness, chronic illness, visual or cognitive impairment)
 - Extrinsic (e.g., polypharmacy)
 - Environmental (e.g., poor lighting, thick carpet)
- When falls occur, providers may become aware of additional acute illnesses (e.g., pneumonia, stroke, influenza)

Risk Factors for Falls

- Risk factors:
 - Prior falls*
 - Fear of falling
 - Number of chronic condition pain sites*
 - Parkinson's disease*
 - Pain (any)*
 - Use of walking aid*
 - Gait deficit*
 - Vertigo
 - Anticonvulsants
 - Fall Risk Increasing Drugs (FRIDs)

*Risk more than doubled

5. Reuben, D. B., Herr, K. A., Pacala, J. T., Pollock, B. G., Potter, J. F., & Semla, T. P. (2018). Geriatrics at your fingertips. New York: American Geriatrics Society.

Interventions to Reduce Risk of Falls

- Quality improvement strategies can take place at:
 - The clinic level (e.g., case management, registries, staff education, electronic health record reminders)
 - The health system level (e.g., positive or negative financial incentives for clinicians, changes in reimbursement)
- At the individual level:
 - Address risk factors based on the individual's profile and preferences

Falls and Fall-Related Injuries can be Prevented

- Many meta-analyses and guidelines have concluded that falls can be prevented with appropriate interventions
- Fall prevention exercise programs that focus on strength and balance are appropriate for all older adults
- For older people at high-risk of falls, multi-factorial assessment and management where fall risk factors are identified and treated results in an absolute reduction of 0.53 falls per person per year (Hopewell et al, Cochrane Review, 2018)

Individual-level Interventions to Reduce Risk of Falls

- For older adults at high risk of falling, a multifactorial approach is usually more effective than single interventions
 - Exercise is the only intervention that has been found to reduce injurious falls when used on its own (n=59 trials, Sherrington et al, Cochrane Review, 2019)
 - Fractures are reduced with combined osteoporosis treatment (e.g., bisphosphonates), calcium supplementation and vitamin D reduces the risk of facture (Tricco et al, JAMA, 2017)

American Geriatrics Society and British Geriatrics Society Guidelines, JAGS, 2011

Multi-Factorial Interventions to Reduce Risk of Falls

- Following assessment for fall risk factors, effective individual-level interventions to prevent injurious falls include:
 - Exercise to improve strength, gait and balance
 - Medical assessment and management
 - Manage postural hypotension
 - Manage heart rate and rhythm abnormalities
 - Assessment and treatment of vision problems
 - Encourage cataract surgery
 - Proper lens prescription, minimize bifocal use if possible
 - Manage foot and footwear problems

Interventions to Reduce Risk of Falls

- Medication adjustment
 - Remove or reduce psychotropic medication
 - Osteoporosis therapy and/or Vitamin D and Calcium supplements
- Environmental modification
 - Assess home hazards, remove or modify identified hazards, and install safety devices (e.g., handrails on stairs, grab bars on bathrooms, and improvements in lighting)
 - Referral to an Occupational Therapist when possible, especially for people with low vision
- Education and self-management
 - Education about fall risks and community resources
 - Self-management strategies and approaches such as collaborative goals setting and motivational interviewing to promote behavior change

Falls in SNFs or Long Term Care

- Older people in long term care fall at approximately twice the rate of community dwelling older adults
- Risk factors that were the strongest predictors:
 - previous falls
 - walking aid use
 - moderate disability (Deandrea et al, 2013)
- Reduction of environmental risk factors (e.g. poor lighting, slippery floors) important in these setting
- Cognitive impairment associated with increased risk of falls – restraints do not reduce fall ris

Falls and People with Dementia

- People with dementia at increased risk of falls and serious fall-related injuries in all settings
- Many of the same risk factors (e.g. previous falls)
- Unique risk factors include:
 - verbally disruptive and attention-seeking behavior
 - severity of dementia
 - visual perception
 - caregiver burden

E. Fernando et al, 2017



Section II:

The Strategies to Reduce Injuries and Develop Confidence in Elders (STRIDE) Study

Siobhan McMahon PhD, MPH, GNP-BC

University of Minnesota School of Nursing



PRACE PRACE

Outline

- STRIDE study
 - Research question
 - Design
- STRIDE intervention
 - Design
 - Organization and general processes
 - Procedures
 - Supports/ infrastructure

The Strategies to Reduce Injuries and Develop Confidence in Elders (STRIDE) Study

- Principal Investigators:
 - Shalender Bhasin (Brigham and Women's Hospital)
 - Tom Gill (Yale)
 - David Reuben (University of California, Los Angeles)
- Data Coordinating Center: Yale
- Interventionists: Registered Nurses with skills and abilities in care coordination, case management, and care of older adults
- Funders: Patient-Centered Outcomes Research Institute (PCORI) and National Institute on Aging

The Research Question

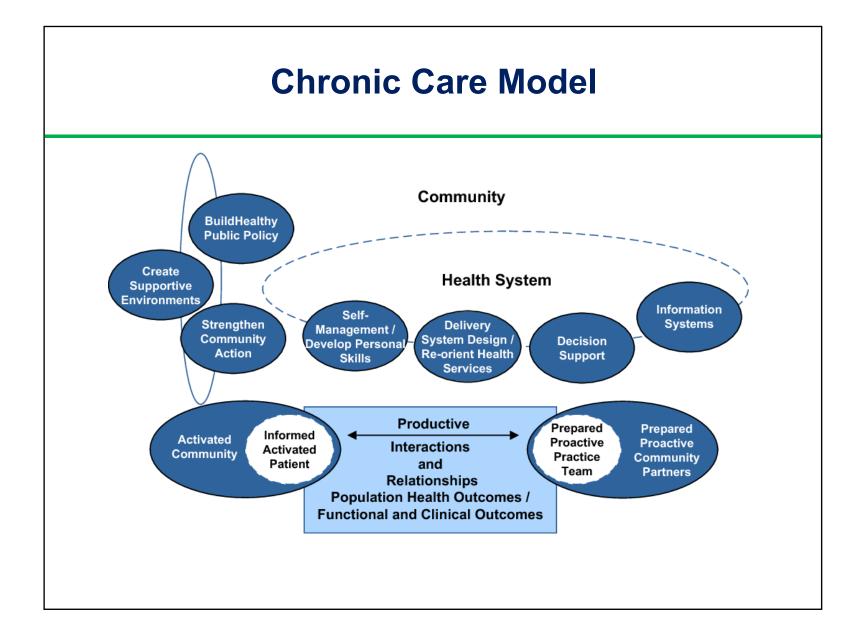
Can the systematic implementation of evidencebased fall prevention interventions into primary care practices reduce injurious falls?

Study Design

- Pragmatic Group Randomized Trial
- 86 Primary Clinics Across 10 U.S. Health Systems (11 states)
 - 5,451 individual participants
- Enrollment criteria:
 - Clinic level
 - Primary care
 - Not currently implementing multifactorial assessment and intervention strategies
 - Individual level
 - 70+ years old
 - One or more risk factors for falls
 - Fallen and hurt self in the past year
 - Fallen 2 or more times in the past year
 - Fear of falling because of balance or gait
- Clinics (and the eligible individuals within each clinic) were randomized to one of two conditions:
 - Falls Care Management (24 to 44 months with 1-4 clinic visits)
 - Enhanced fall prevention information (Providers and Patients)

Intervention Design

- Guided by
 - Chronic Care Model
 - The theory of Self-Management
 - Principles and spirit of Motivational Interviewing
 - Co-management concept



Self-management

- Definition: The day to day management of a health condition, including fall risk. Examples include:
 - Engage in fall risk-reducing activities
 - Interact with the healthcare system
 - Monitor self—status of risk
 - Make adjustments to plan as needed, over time

Self-management

Techniques used by RNs and Healthcare team to promote self-management:

- Individualized assessment
- Collaborative goal setting
- Enhancing skills
- Follow up and support
- Overcoming barriers in the healthcare system and elsewhere
- Access to community resources

Motivational Interviewing

- **Definition**: a method for approaching patients who are ambivalent about making a change. It has been shown to be more effective than traditional, "advice-giving" conversations (Rubak, Sandbaek, Lauritzen, & Christensen, 2005).
- Rationale for use: Reducing fall risk is dependent on behavior change in 1 or more domains (e.g., increase physical activity, remove hazards in the home)
- Operationalization of MI in STRIDE:
 - Training and practice focused on changes relevant to fall risk
 - Processes: Engaging, focusing, evoking and planning
 - Skills: Asking open ended questions, affirming, reflective listening, summarizing, informing and advising

Co-Management

- Two or more health care providers jointly managing an individual's health care to achieve the best quality and outcomes
 - Physician specialist-physician generalist (e.g., oncologistgeneral internist)
 - Registered nurse- generalist (e.g., falls care manager-primary care provider)
- Evidence shows that a co-management model can double the rates of individuals receiving recommended assessments and care for falls

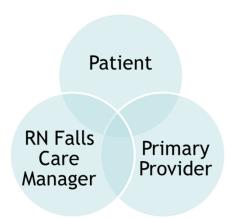
Shaw, R. J., McDuffie, J. R., Hendrix, C. C., Edie, A., Lindsey-Davis, L., Nagi, A., ... & Williams, J. W. (2014). Effects of nurse-managed protocols in the outpatient management of adults with chronic conditions: a systematic review and meta-analysis. *Annals of Internal Medicine*, 161(2), 113-121.

Ganz, D. A., Koretz, B. K., Bail, J. K., McCreath, H. E., Wenger, N. S., Roth, C. P., & Reuben, D. B. (2010). Nurse practitioner co-management for patients in an academic geriatric practice. *The American journal of managed care*, 16(12), e343.

Reuben, D. B., Ganz, D. A., Roth, C. P., McCreath, H. E., Ramirez, K. D., & Wenger, N. S. (2013). Effect of nurse practitioner comanagement on the care of geriatric conditions. *Journal of the American Geriatrics Society, 61*(6), 857-867.

The Resulting Intervention for STRIDE: Falls Care Management

- Content
 - Evidence based falls prevention interventions that are individualized and person-centered
- Organization
 - Co-management of Fall risk in primary care by patient, RN-falls care manager (FCM), and primary provider
 - Led by FCM and clinic/system leaders, in collaboration with additional stakeholders in each clinic and healthcare system
- Processes
 - Engagement
 - Conduct and communicate fall risk
 - Evoke/ Elicit priorities
 - Inform and advise on evidence based information and related community resources
 - Co-create personalized care plan
 - Implement care plan
 - Follow up evaluation, care plan adjustment
 - Initial visit, and then annual and as needed



Falls Care Management

Procedures

- Pre-visit
 - Schedule initial visit in the patient's primary clinic
 - Administer pre-visit questionnaire via mail to capture history of factors that contribute to fall risk
 - Call

Falls Care Management

Procedures continued

- In-person visit
 - Review the pre-visit questionnaire Brief interview to clarify and/or expand on focused history
 - Physical exam
 - Vital signs and orthostatic BPs
 - Functional strength and balance (SPPB)
 - Blood pressure
 - Foot and footwear exam
 - Discuss how to get up after a fall
 - Finalize and inform patient of assessment results
 - Explore patient perspectives and elicit priorities (which risks are most important to them now)
 - Advise and discuss recommended interventions
 - Co-create falls reduction care plan
 - After-visit summary, including what to do in case of a fall

Falls Care Management

Procedures continued:

Post-visit

- Communicate assessment and care plan in electronic health record
- Contact primary provider for care plan review and finalize that if/when they suggest changes, additions
- Refer according to plan of care
- Call patient 1-2 weeks after visit to communicate additional information from provider or other team members

My Fall Risk Assessment Study ID

Date

Participant Name

Home

hazards

Rick of

Environmental

difficult to walk.

Is this a Is this a **Comments Risk Factor** Why Does It Matter? risk for priority me? for me? Changes in leg People with decreased leg strength and changes in Yes "undecided" Yes "active plan in strength, balance balance and/or gait are more likely to trip, slip and No No place" and/or walking fall. Medications that cause lightheadedness or tiredness Medications (e.g., sleeping pills) can increase the likelihood of falling. Postural hypotension, or a drop in blood pressure **Postural** when a person changes positions, increases the Hypotension chances of falling. Feet Problems with feet, footwear can make it more Footwear

Objects on the floor, loose throw rugs, low lighting,

Octoporocie or fragila honce increases the chances

and not having hand rails can increase the

likelihood of tripping, slipping, and falling.

My Plans for Reducing Fall Risks

Priority: Changes in leg strength, balance and/or walking

My Goal for the next month is:

Why it matters to me (e.g., increased balance will....)

How will I do this?

When will I do this?

The things that could make it difficult to do this are:

My plan for overcoming these difficulties includes:

Support/Resources my Falls Care Manager will assist me with in order to achieve these goals include:

How will I monitor progress?

Falls Care Management

- Procedures continued:
 - Follow-up
 - Per care plan
 - Follow-up clinic visits as needed and at least annually

Decision Support:

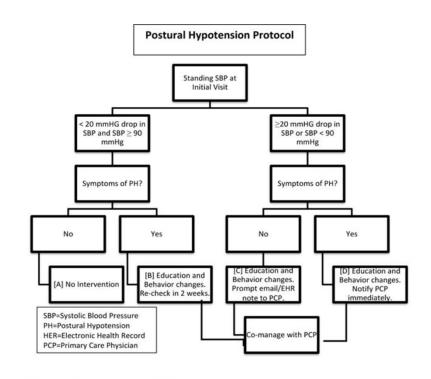
Assessment and Intervention Algorithms

Algorithms:

- 1.Strength, gait, balance
- 2.Medication
- 3.Osteoporosis
- 4.Feet and Foot-wear
- 5. Home Safety
- 6. Postural Hypotension
- 7. Vitamin D
- 8. Visual Impairment

Available at

https://www.stridestudy.org/clinicalprotocols/



Triggers for Communications with PCP

Reuben, D. B., Gazarian, P. K., Alexander, N., Araujo, K. L., Baker, D., Bean, J. F., ... & Leipzig, R. M. (2017). The STRIDE Intervention: Falls Risk Factor Assessment and Management, Patient Engagement, and Nurse Co-management. *J Am Geriatr Soc*, 65(12), 2733-2739.

Information Support: By risk factor and intervention

- Education materials for each risk factor
 - Presented in the third portion of our presentation today

System Support: Implementation of Falls Care Management

- IT help to make electronic record use efficient through the integration of notes/ communication templates, smart phrases, smart tools
- Creation of standing orders
- Clinic engagement
 - Primary care providers available to partner with falls care managers, review care plans and provide needed medical orders (e.g., medication changes, tests, referrals)
 - Pharmacists, when available, to review/ provide guidance and follow up for medication de-escalation
 - Physical therapists to assess and treat changes in balance, strength, gait
 - Occupational Therapists to assess and optimize home safety

Community Support: Implementation of Falls Care Management

- Community Resources
 - Physical activity/ exercise programs
 - Home modification services
 - Transportation

Summary

- Many injurious falls are preventable
- The quality of care provided to prevent falls remains poor
- Falls care management, guided by principles of selfmanagement, motivational interviewing, and comanagement may improve quality of care provided to prevent falls
- Results of STRIDE study are expected in Spring 2020
- For more information about the STRIDE study and intervention go to: https://www.stride-study.org/

Stay on your feet, it's the place to be - EB White

Acknowledgements

- Funding
 - Patient-Centered Outcomes Research Institute (PCORI)
 - National Institute on Aging
- Stakeholder councils including older adults and professionals dedicated to preventing falls in their communities
 - National Martie Carnie and Cathy Hanson
 - Local (each of the 10 study sites)
- Study participants (Healthcare systems, clinics, patients)



Section III: Clinical Tools for Preventing Falls

Fred Ko, MD
Associate Professor,
Geriatrics and Palliative Medicine,
Icahn School of Medicine at Mount Sinai



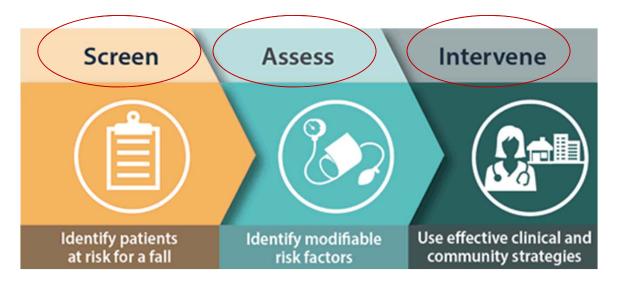
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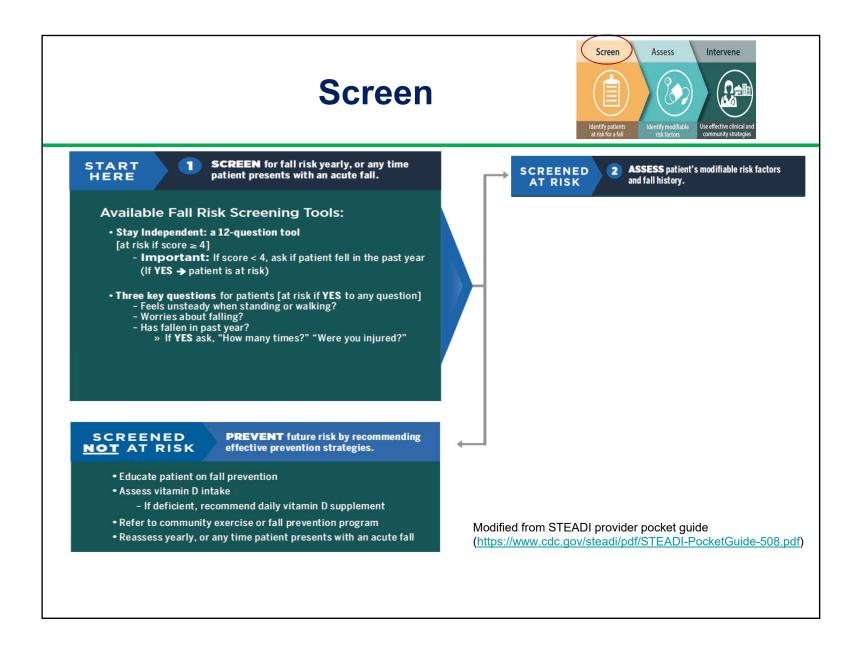
Objectives

- To discuss clinical algorithm and tools to prevent falls in older adults:
 - Community-dwelling: Centers for Disease Control and Prevention (CDC) – Stopping Elderly Accidents, Deaths & Injuries (STEADI)
 - Nursing home: Agency for Healthcare Research and Quality (AHRQ) – The Falls Management Program (FMP)

STEADI Initiative

- STEADI (Stopping Elderly Accidents, Deaths, & Injuries) Initiative (https://www.cdc.gov/steadi/)
- Coordinated approach to implement the American and British Geriatrics Societies' clinical practice guideline for fall prevention





Stay Independent

Check Your Risk for Falling

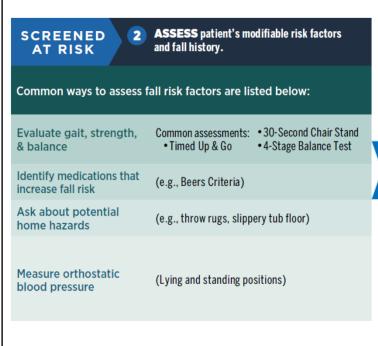
	Circle "Yes" or "No" for each statement below				
Yes (2)	No (0)	I have fallen in the past year.			
Yes (2)	No (0)	I use or have been advised to use a cane or walker to get around safely.			
Yes (1)	No (0)	Sometimes I feel unsteady when I am walking.			
Yes (1)	No (0)	I steady myself by holding onto furniture when walking at home.			
Yes (1)	No (0)	I am worried about falling.			
Yes (1)	No (0)	I need to push with my hands to stand up from a chair.			
Yes (1)	No (0)	I have some trouble stepping up onto a curb.			
Yes (1)	No (0)	I often have to rush to the toilet.			
Yes (1)	No (0)	I have lost some feeling in my feet.			
Yes (1)	No (0)	I take medicine that sometimes makes me feel light-headed or more tired than usual.			
Yes (1)	No (0)	I take medicine to help me sleep or improve my mood.			
Yes (1)	No (0)	I often feel sad or depressed.			

- A 12 question validated fall risk self-assessment tool for older adults (Rubenstein et al. J Safety Res; 2011: 42(6)493-9)
- At risk for falling if score ≥4 points

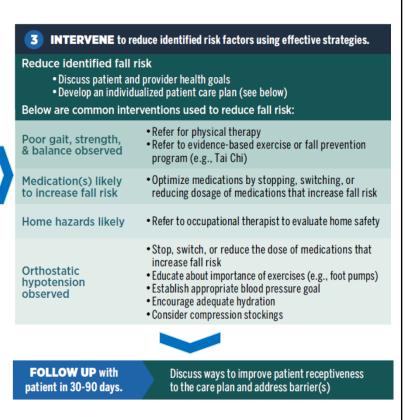
STEADI stay independent brochure (https://www.cdc.gov/steadi/pdf/STEADI-Brochure-StayIndependent-508.pdf)

Assess & Intervene

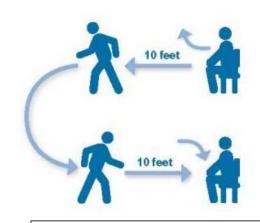




Modified from STEADI provider pocket guide
(https://www.cdc.gov/steadi/pdf/STEADI-PocketGuide-508.pdf)



Gait, Strength & Balance



Timed Up & Go (TUG)

- Assesses mobility
- Fall risk: ≥12 sec

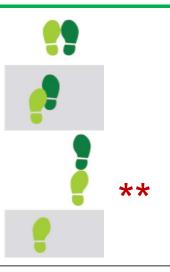
Fitness professional online

https://www.fitnessprofessionalonline.com/articles/expert-advice/working-with-the-older-client-part-1/



30-Second Chair Stand

- Assesses leg strength& endurance
- Fall risk: below average score based on age/sex



4-Stage Balance Test

- Assesses static balance
- Fall risk: full tandem stand** <10 sec

STEADI functional assessments https://www.cdc.gov/steadi/materials.html

Assess & Intervene



ASSESS patient's modifiable risk factors **SCREENED** and fall history. AT RISK Common ways to assess fall risk factors are listed below:

Check visual acuity Common assessment tool: · Snellen eye test

Assess feet/footwear

Assess vitamin D intake

Identify comorbidities (e.g., depression, osteoporosis)

Modified from STEADI provider pocket guide (https://www.cdc.gov/steadi/pdf/STEADI-PocketGuide-508.pdf)

3 INTERVENE to reduce identified risk factors using effective strategies. Reduce identified fall risk Discuss patient and provider health goals • Develop an individualized patient care plan (see below) Below are common interventions used to reduce fall risk: Refer to ophthalmologist/optometrist • Stop, switch, or reduce the dose of medication Visual affecting vision (e.g., anticholinergics) impairment Consider benefits of cataract surgery observed • Provide education on depth perception and single vs. multifocal lenses Provide education on shoe fit, traction. Feet/footwear insoles, and heel height issues identified Refer to podiatrist Vitamin D deficiency • Recommend daily vitamin D supplement observed or likely Comorbidities Optimize treatment of conditions identified • Be mindful of medications that increase fall risk

documented

Discuss ways to improve patient receptiveness to the care plan and address barrier(s)

Fall Risk Factors Checklist

CHECKLIST

Other medical problems

Fall Risk Factors

Fall Risk Factor Identified Present? FALLS HISTORY Any falls in past year? ☐ Yes ☐ No Worries about falling or feels unsteady when standing or walking? Yes ☐ No **MEDICAL CONDITIONS** Problems with heart rate and/or arrhythmia Yes ☐ No Cognitive impairment Yes ☐ No Incontinence ☐ Yes ☐ No Depression Yes ☐ No Foot problems Yes ☐ No

Yes

☐ No

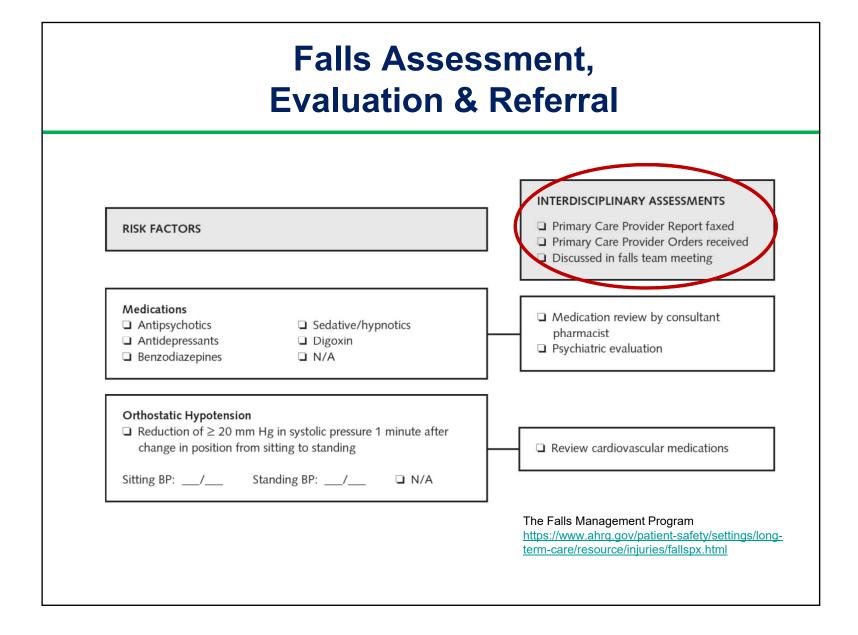
MEDICATIONS (PRESCRIPTIONS, OTCs, SUPPLEI	MENTS)	
Psychoactive medications	☐ Yes	□ No
Opioids	☐ Yes	□ No
Medications that can cause sedation or confusion	☐ Yes	□ No
Medications that can cause hypotension	☐ Yes	□ No
GAIT, STRENGTH & BALANCE		
Timed Up and Go (TUG) Test ≥12 seconds	☐ Yes	□ No
30-Second Chair Stand Test: Below average score based on age and gender	☐ Yes	□ No
4-Stage Balance Test: Full tandem stance <10 seconds	☐ Yes	□ No
VISION	10	
Acuity <20/40 OR no eye exam in >1 year	☐ Yes	□ No
POSTURAL HYPOTENSION		
A decrease in systolic BP \ge 20 mm Hg, or a diastolic BP of \ge 10 mm Hg, or lightheadedness, or dizziness from lying to standing	☐ Yes	□ No

Fall risk factors checklist

 $\underline{https://www.cdc.gov/steadi/pdf/STEADI-Form-RiskFactorsCk-508.pdf}$

AHRQ Falls Management Program

- Agency for Healthcare Research and Quality (AHRQ) The Falls Management Program (FMP)
 - (https://www.ahrq.gov/patient-safety/settings/long-term-care/resource/injuries/fallspx.html)
- Interdisciplinary quality improvement initiative
- Designed to assist nursing facilities in:
 - Providing individualized, person-centered care
 - Improving fall care processes and outcomes
- Clinical applications:
 - Acute fall
 - Long-term management (i.e. screening at NH admission, quarterly, annually and change of condition)

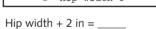


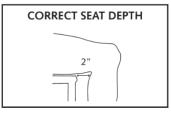
Falls Assessment, **Evaluation & Referral** Vision ■ Stumbles and trips Optometrist evaluation ☐ Difficulty finding objects or detecting changes in floor surfaces Ophthalmologist referral ■ N/A Mobility ☐ Unsafe during the Get Up and Go Test OT consultation ☐ Unable to transfer on and off toilet, bed or chair safely ■ PT consultation ☐ Unsafe wheelchair seating □ N/A **Unsafe Behaviors** ☐ Tries to stand, transfer or walk alone unsafely ☐ Tries to climb over bed rails or get out of bed alone unsafely ■ Behavioral assessment ☐ Walks or paces alone when too tired to be safe ■ Evaluation of restraint use ☐ Propels or walks alone in unsafe areas □ N/A The Falls Management Program https://www.ahrg.gov/patient-safety/settings/longterm-care/resource/injuries/fallspx.html

Wheelchair Screen

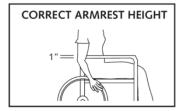
Use the following measurements to determine if the wheelchair seat and armrests are the correct size for the resident.







Thigh length – 2 in = _____



1 in higher than elbow = ____

After the resident has been seated in the wheelchair for at least 1 hour, compare her position with the pictures to determine if she is seated correctly.



correct position with two 90° angles



sliding down



leaning over



leaning to one side

The Falls Management Program https://www.ahrq.gov/patient-safety/settings/long-

https://www.ahrq.gov/patient-safety/settings/lonterm-care/resource/injuries/fallspx.html

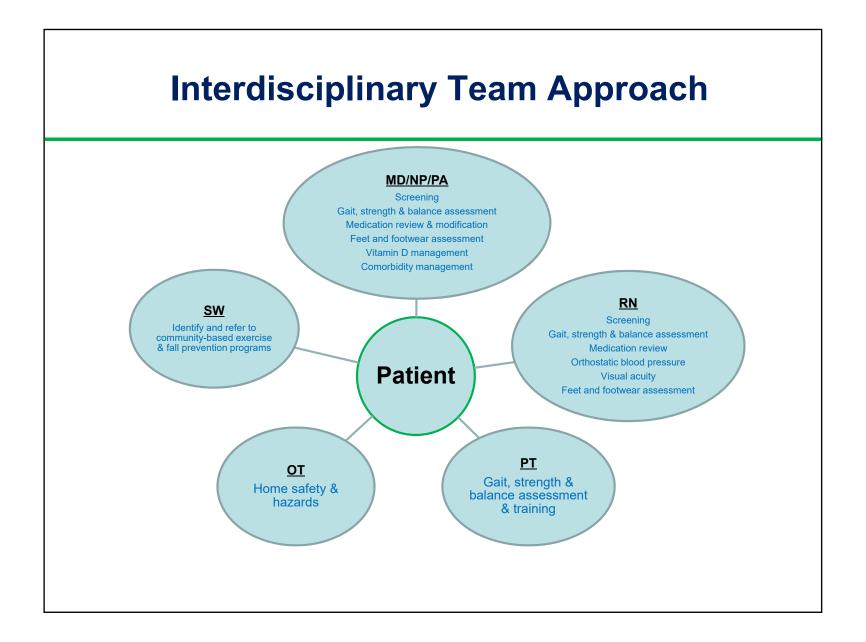
Behavior Assessment

- Five step process to better understand unsafe behavior or residents
- Step 1: Define the behavior clearly
- Step 2: Do a deep dive about the resident's personal and medical history
- Step 3: Analyze the circumstances of the behavior
 - Time of day, Frequency, Location, Situation, Resident motivation
- Step 4: Analyze past staff approaches and the resident's reaction to them
- <u>Step 5</u>: Develop new individualized interventions

Fall Intervention Plan

RISK FACTOR	SELECTED INTERVENTIONS	RISK FACTOR	SELECTED INTERVENTIONS
Medications	For changes in psychotropic meds: Monitor and report changes in anxiety, sleep patterns, behavior, or mood Monitor and report drug side effects Behavior management strategies Sleep hygiene measures no caffeine after 4 pm up at night with supervision, comfort measures pain management regular exercise, limit napping relaxing bed routine individualized toileting at night safe bathroom routine For changes in digoxin: Monitor apical heart rate; if < 50, notify PCP.	Mobility	□ Increase staff assistance □ early morning □ to and from toilet □ during all transfers □ during ambulation □ other: □ Correct height of bed, toilet or chair □ Keep bed at correct height as marked on footrest or wall □ Use raised toilet seat □ Use cushion in lounge chair □ Lower lounge chair □ Increase bathroom safety □ Use adequate handrails support □ Use easy to manage clothing □ Promote wheelchair safety □ Use individualized, labeled wheelchair □ Check brakes and instruct pt on use □ Seating Modifications □ Use all prescribed seating items □ The Falls Management Program https://www.ahrq.gov/patient-safety/settings/long-term-care/resource/injuries/fallspx.html

Fall Intervention Plan ☐ Low blood pressure precautions Orthostatic Hypotension ☐ instruct pt to change position slowly □ Behavior management strategies ☐ instruct pt to sit on edge of bed and dangle ☐ Increase assistance and surveillance feet before standing ☐ Position or pressure change alarm ☐ instruct pt to use dorsiflexion before standing ■ Movement sensor ☐ instruct pt not to tilt head backwards ☐ Locate patient near station ☐ provide staff assistance in early AM and after ☐ Intercom ☐ Toilet at regular intervals ☐ If medication change: ☐ Increase activities involvement ☐ take postural VS q day X 3 days. If systolic □ Other drops ≥ 20 mm Hg on day 3, notify PCP **Unsafe Behavior** ☐ Reduce risk of injury ☐ Promote adequate hydration ☐ Low bed ☐ TED hose ☐ Floor mat Other: ☐ Helmet, wrist guards, hip protectors ■ Non-slip mat ☐ Non-skid strips or non-skid rug ■ Low vision precautions □ Non-skid socks ☐ use maximum wattage allowed by fixture ☐ Lower or remove side rails increase lighting in room ☐ Increase comfort ☐ use adequate lighting at night ☐ Pain management ☐ add high contrast strips on stairs, curbs, etc. Vision ☐ Frequent rest periods ☐ use signs with large letters or pictures ☐ Recliner or chair with deep seat ☐ use high contrast to offset visual targets □ Rocking chair reduce glare ☐ Wheelchair seating items Exercise □ Corrective lenses □ Cradle mattress ☐ Keep eyewear within easy reach at all times ☐ Sheepskin, air mattress or pillows ☐ Encourage patient to wear glasses ☐ Other: Other: _ The Falls Management Program https://www.ahrq.gov/patient-safety/settings/longterm-care/resource/injuries/fallspx.html



Resources

STEADI

- Algorithm for fall risk screening, assessment, and intervention
 - (https://www.cdc.gov/steadi/pdf/STEADI-Algorithm-508.pdf)
- Provider pocket guide
 - (https://www.cdc.gov/steadi/pdf/STEADI-PocketGuide-508.pdf)
- Fall risk factors checklist provider checklist for risk of falling
 - (https://www.cdc.gov/steadi/pdf/STEADI-Form-RiskFactorsCk-508.pdf)
- Stay independent brochure patient checklist for risk of falling
 - (https://www.cdc.gov/steadi/pdf/STEADI-Brochure-StayIndependent-508.pdf)
- Functional assessments handouts and videos
 - (<u>https://www.cdc.gov/steadi/materials.html</u>)
- Integrating fall prevention into practice interdisciplinary team responsibilities
 - (https://www.cdc.gov/steadi/pdf/STEADI-Poster-Integrating-508-2019.pdf)
- Conversations about fall prevention stages of change model for behavior modifications
 - (https://www.cdc.gov/steadi/pdf/STEADI-FactSheet-TalkingWPatients-508.pdf)

Resources

- STRIDE Study
 - Clinical instruments (e.g. my fall risk assessment)
 - (<u>http://www.stride-study.org/clinical-instruments/</u>)
 - Clinical protocols (e.g., medication risk reduction algorithm)
 - (<u>http://www.stride-study.org/clinical-protocols/</u>)
 - Home exercise video and manual
 - (http://www.stride-study.org/home-excercise/)
- National Council on Aging (NCOA)
 - Fall prevention resources (e.g. evidence-based falls prevention programs, tips for older adults & caregivers)
 - (https://www.ncoa.org/healthy-aging/falls-prevention/)
 - State Falls Prevention Coalition Contacts
 - (https://d2mkcg26uvg1cz.cloudfront.net/wp-content/uploads/State-Coalition-Leads-9.16.2019-1.pdf)
- AHRQ Falls Management Program
 - (https://www.ahrq.gov/patient-safety/settings/long-term-care/resource/injuries/fallspx.html)