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STEADI Trained Healthcare Provider

OTAGO Trained





Center for Disease Control and Prevention (CDC), 2023 https://www.cdc.gov/falls/facts.html

- More than 1 in 4 people age
 65 or older fall each year.
- About 36 million older adults are treated in the ER for a fall injury each year.
- More than 95% of all hip fractures are caused from falling.
- Falls are the most common cause of Traumatic Brain Injury (TBI).



Brain Health and FALLS

- -Older adults with mild cognitive impairment or certain types of dementia are 6-8 times more likely to fall .(Allan, et al, 2009)
- -Even persons with mild Alzheimer's disease may show deficits in balance and gait. (Graz, et al, 2015)
- -Balance and gait deficits and risk for falls increase as the dementia progresses. (Fernando, et al, 2017)



OTHER REASONS FOR FALLS in OLDER ADULTS

CDC, 2023 https://www.cdc.gov/falls/facts.html

- -Lower body weakness
- -Vitamin D deficiency (that is, not enough vitamin D in your system)
- -Difficulties with walking and balance
- -Use of medicines, such as tranquilizers, sedatives, or antidepressants. Even some over-the-counter medicines can affect balance and how steady you are on your feet.
- Orthostatic Hypotension (low blood pressure upon standing causing dizziness or lightheadedness)
- -Vision problems
- -Foot pain or poor footwear
- -Home hazards or dangers such as broken or uneven steps, and throw rugs or clutter that can be tripped over.



HOW TO PREVENT FALLS

CDC, 2023

https://www.cdc.gov/falls/facts.html

Talk to your Doctor

- Ask your
 Doctor or
 healthcare
 provider to
 evaluate your
 risk
- Talk to them about your medications
 - Ask them about taking Vitamin D

Do Strength and Balance Exercises

• Do exercises that make your legs stronger and improve your balance.

Have Your eyes checked

Get your eyes checked at least once a year
Update your

eyeglasses if

needed

Make your home safer Get rid of things you could trip over. Add grab bars inside and outside your tub or shower and next to the Put railings on both sides of stairs. Make sure your home has lots of light by adding more or brighter Keep items you use often in cabinets you can reach easily without using a step stool. Use non-slip mats in the bathtub and



AM I AT A RISK FOR FALLING?

Please answer yes or no to yourself to each of these questions.

National Institute on Aging, 2023- https://www.nia.nih.gov/health/older-adults-and-balance-problems

Do I feel dizzy, or as if room is spinning even for brief amounts of time?

Do I feel unsteady, lose my balance and sometimes fall?

Do I feel as if I am moving when I know I am standing or sitting still or feel as if I am falling? Does my vision become blurred?



EXERCISE and Fall Risk Reduction

Multi-modal programs are most effective:

 They address strength, endurance, and static and dynamic standing balance, using targeted progressive exercise (Gillespie, 2012, Sherrington, 2011, Shubert, 2011)

Multi-modal exercise programs prevent falls:

- They prevent falls for typicallyfunctioning older adults living in the community (Gillespie et al, 2012)
- Similar outcomes noted for community-dwelling older adults with dementia (Burton et al, 2015)
- Injuries and injury severity from falls for older adults was reduced by participation in exercise (Gillespie et al, 2012; El-Khoury et al, 2013; Jin, 2018).

STEPPING UP- An evidence based exercise and dance program for people with Dementia and their Care partners.

*Developed by Eve Fischeberg, OTR/L in 2016

Uses assessments and exercises from the Otago Program (Campbell and Robertson, 2003)

Features-

- 1. Group Support and Encouragement
- 2. Falls Risk Reduction
- 3. Fitness including strength training, chair yoga, and dance (multi-modal exercise)
- 4. Fun

What do we do in Stepping Up?





- Perform evidence-based falls risk assessments each semester
- Develop exercises for each person to perform in class and at home



INCLUDING:

*Warm-ups

* Resistive lower body exercises (ankle weights according to ability)

* Static and dynamic balance exercises



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*Each class includes a choreographed dance that provides aerobic and balance challenges

- Dance- benefits of participation in dance, including fall risk reduction, could be accrued in as low a frequency as one time per week (Keough, 2012).

*Enjoy moving to great music with the group

* FUN and Laughter



*End each class with a cool down including relaxing chair yoga and stretching to soothing music





& TREATMENT

Let's Try it!



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