



Objectives • Describe the prevalence of falls, and the costs associated with falls in the home • Highlight OTs unique skill set to assess individuals and the home environment, promoting ourselves as leaders in home safety ad home modifications supported by videnced based research • Identify avenues for collaboration with clients arross diverse industry sectors that will promote advocacy for the OT profession and balle revenue streams for a home modification business or service line

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About Me

- Graduate of UT
- Of for 21 years
- Worked in variety of settings
- as staff OT and in mg
- Specialist (NAHB)
- Executive Certification in Home Modification (USC)
- Certified Fall Prevention Specialist (PESI)
 - mall Residential Contractor



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• Prevalence of people with a disability (all ages) in TN is 15.5%





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"Occupational therapy practitioners have a long established proficiency in addressing the impact of the environment on occupational performance. As such, home modification recommendations and services fall well within the scope of occupational therapy and are recognized in most stae practice acts ." (AOTA 2020)

Evidenced-Based Research Supporting OT in Home Modifications

Home Hazard Removal Program - HARP

- Newly Improved Evidenced Based Program through ACL
 Funder through Older Americans Act, Title IIID, Prevention &
- Public Health Fund Fall Prevention Grants
 Met ACL's definition of evidenced-based (tool used NCOA)
- Assessment by OT, Intervention, Intervention Plan, Training
- 310 Participants (155 randomized to the intervention; 155
- randomized to usual care;
- Outcomes Avg, per-person # of falls over 12 months for the HARP group 1.5, compared to 2.3 in control group
- Participants who received HARP had a 38% reduction in
- their rate of falls; grab bar most frequent home mod
- Per-participate cost of HARP: \$765.83; Decrease in
- healthcare cost utilization: \$1,613.63; 111% ROI

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Evidenced-Based Research Supporting OT in Home Modifications Effects of Home Mod Interventions on the Participation of Community Dwelling Adults with Health Conditions: A Systematic Review • Stark, Keslovits, Arbesman, Lieberman - 2017 • Strong evidence supporting single and mulitcomponent interventions including home modifications resulted in the following: • Improved function for people with a variety of conditions

- Reduced risk and rate of falls
- Reduced demand on caregivers

Evidenced-Based Research Supporting OT in Home Modifications

Community Aging In Place, Advancing Better Living • InterfextiFilder/Stragerams/CorPABI/E)s;

- Handyman: up to \$1500 in home repairs, modifications and/or AE
- Evidenced based 5 month program
- Addresses home environment
- Designed to increase mobility, functional ability &
- ability to age in place
- Increases function and lowers hospitalization &
- nursing home rates
- Cost Effect: Program cost on average \$2,825/person
 \$22,000 in reduced Medicare costs over 2 years

Evidenced-Based Research Supporting OT in Home Modifications

Randomized Controlled Trial of Prevention of Falls in People Aged > or = to 75 with Severe Visual Impairment: VIP trial - Campbell, et al 2005

- Home safety Program n=100; Home Hazard Asmt performed by an OT; Home Mods; Recommendations for Behavior Change
- Otago Exercise Program and Vitamin D
- supplementation n=97 • Combination of Home Safety & Exercise Program
- n=98
- Social Visits n=96
- Outcome: Home Safety Program reduced falls and was more cost effective than the exercise program

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Evidenced-Based Research Supporting

OT in Home Modifications

Home Assessment and Modification

Pighillis, et al. - 2011

• Fall rates reduced by 46% of those with assessments

• OT or Home Care Worker completed a Home

· Study found intervention only effective when

Assessment

implemented by OTs.

performed by OTs

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Evidenced-Based Research Supporting OT in Home Modifications

Handicap Accessible Homes May Improve Brain Function in People with Disabilities Farzan - 2019

- 70% of older adults live in homes without any
- accessibility features.
- Those who live alone and have a disability have a quicker decline in brain function.
- < 4% of housing has single floor living, no steps into home, & appropriate size doorways & hallways for
- wheelchairs
- Accessible spaces improve physical health & reduce falls

Evidenced-Based Research Supporting OT in Home Modifications

Handicap Accessible Homes May Improve Brain **Function in People with Disabilities** Farzan - 2019

- Older adults who had at least 1 accessible feature were less likely to have brain function decline or memory loss
- The home environment has a direct effect on both physical and mental health
- Article linked to Home Environment, Living Alone, and Trajectories of Cognitive Function Among Older Adults with Functional Limitations. Park, Kim, Amano, & Chen (2021)

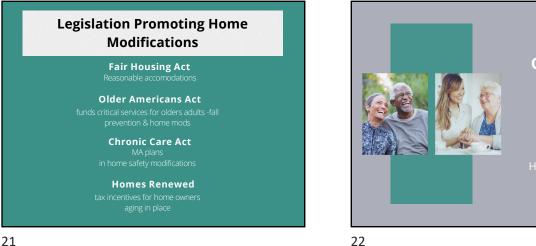
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Evidenced-Based Research Supporting OT in Home Modifications

CDC: The Potential to Reduce Falls & Avert Costs by Clinically Managing Fall Risk Stevens & Lee - 2018

- Stevens & Lee Am J Prev Med. 2018 Sep; 55(3): 390-297. doi: 10.1016/jamepre.2018.04.035
- Systematic Review of > 19 rigorous RCT with falls as outcome from '94-'17
- "The interventions with the potential to help the potential to help the greatest number of older adults were those that provided home modifications delivered by an OT (38.2 million)n and recommended
- daily vitamin D supplements (16.7 million) • Home Modifications delivered by an OT have the potential to reduce
- 120,438 falls per year for an averted cost of \$442 million

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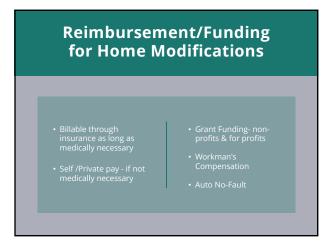


CDC'S STEADI INITIATIVE Stopping Elderly Accidents, Deaths, and Injuries

- PT FOR GAIT & BALANCE • COMMUNITY FALLS
- PREVENTION PROGRAMS
- HOME SAFETY EVALUATIO
- PERFORMED BY OTS
- ADDRESS POSTURAL
- HYPOTENSION
- CHRONIC CONDITION
- EDUCATION
 - & ENGAGED CLIEN

 - PODIATRISTS
 - VIT D SUPPLEMENT

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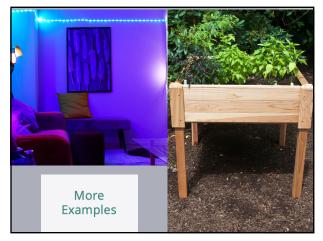






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Sources

- https://huduser.gov/portal/sites/default/files/pdf/accessibility-americ
- nousingStock.pdf
- https://www.ncoa.org/news/resources-for-reporters/ge
- prevention-facts/ https://stopfalls.org/faqs/where-do-falls-among-older-adults-occur-mos
- frequently/
- https://www.ncbi.nlm.nlh.gov/pmc/articles/PMC6103639/#H
 CDC Older Adult Fall Fast Sheet
- CDC Older Adult Fall Fact Sheet
- https://www.cdc.gov/nomeandrecreationalsafety/falls/data/fallcost.ntm
 https://www.cdc.gov/steadi/odf/Steadi-Coordinated-Care-Plan.pdf
- https://homehealthcarenews.com/2019/08/agir
- https://www.aota.org/Advocacy-Policy/
- Affairs/News/2020/Home-Modifications-Billing-Medicare