University of Vermont ScholarWorks @ UVM

Family Medicine Clerkship Student Projects

Larner College of Medicine

2019

Addressing Geriatric Falls in the Outpatient Setting: A Prevention Initiative

Brian W. Gross University of Vermont

Follow this and additional works at: https://scholarworks.uvm.edu/fmclerk Part of the Medical Education Commons, and the Primary Care Commons

Recommended Citation

Gross, Brian W., "Addressing Geriatric Falls in the Outpatient Setting: A Prevention Initiative" (2019). *Family Medicine Clerkship Student Projects*. 493. https://scholarworks.uvm.edu/fmclerk/493

This Book is brought to you for free and open access by the Larner College of Medicine at ScholarWorks @ UVM. It has been accepted for inclusion in Family Medicine Clerkship Student Projects by an authorized administrator of ScholarWorks @ UVM. For more information, please contact donna.omalley@uvm.edu.

Addressing Geriatric Falls in the Outpatient Setting: A Prevention Initiative

BRIAN W. GROSS HINESBURG FAMILY MEDICINE; HINESBURG, VT MAY-JUNE 2019 MENTOR: MICHELLE CANGIANO, MD

Problem

▶ Approximately 25% of adults \geq 65 years old fall each year¹

- One in five of these incidents result in serious injury²
- ► Falls are the leading cause of fatal/non-fatal injuries in Vermont³
- Fall death rates for older adults in the United States increased by 30% from 2007 to 2016²
- Many patients at risk for falling are uneducated regarding environmental, physical, and/or behavioral risk factors that could be contributing to their fall risk⁴
- Fall prevention counseling is often limited in the outpatient setting due to time constraints⁴

Public Health Cost

- By 2020, the financial burden of geriatric falls is expected to be greater than \$67 million dollars in the United States⁵
- Vermont ranked 41st in the nation with respect to the percent of older adults with self-reported falls in the past 12 months according to the United Health Foundation's "America's Health Rankings"
 - 31.7% of older adults in Vermont report falling in the past 12 months (national average 28.7%)⁶
- Over 1,600 Vermont older adults were hospitalized and an additional 5,445 were treated in the emergency room for falls in 2014³
- Approximately 29% of older adults in Vermont report engaging in no physical activity outside of their regular jobs in the past 30 days, strongly contributing to their fall risk⁶

Community Perspective on Falls

Tammy Murray - Clinical Care Associate Perspective – Hinesburg Family Medicine

- "[Falls remain a prevalent issue in Hinesburg (and Vermont at large)], despite fall risk screening being a recent health promotion goal at the [Hineburg Family Medicine practice]."
- "Time constraints in the office setting often limit fall prevention discussions."
- Older adults present with a multitude of health issues to discuss during their visit leading the focus of the appointment away from fall prevention discussions.
- "If we had something that could help cue us to discuss falls in older adults, we may be more likely to remember to have these conversations."

Cynthia Minnick – 83 y.o. Extended Care Facility Resident with a History of Falls

- "[The extended care facility] does a lot to try to decrease falls, but we still have a lot of them around here."
- "I fell two times last year. Luckily, they weren't too bad. I don't even remember why I fell the first time. The second time, I was just walking around my room."
- "I have doctors appointments all the time. We don't really talk about falls, but he looks at my feet because I have neuropathy."
- "[The extended care facility staff] puts on [aerobics] classes and does some stuff with weights, but my arthritis is really bad. I'm too old to do that stuff."
- "I take a lot of medications. I have high blood pressure and neuropathy. I don't know if [my medications] have anything to do with [my falls] or not."

Other Perspective's from UVM Physical Therapy Team

- No consistent, organization-wide discharge instructions/suggestions exist for geriatric patients at risk for falls
- "I recommend using the CDC Stopping Elderly Accidents, Deaths & Injuries (STEADI) initiative for general information and guidance."
- "[This would be] a great opportunity to deliver a clear concise message from a large group of trusted individuals."

Intervention & Methodology

- Develop clear, concise guidelines for geriatric patients at Hinesburg Family Medicine that would focus on addressing environmental (home hazards), behavioral, and pharmacological factors that may be increasing fall risk in geriatric population in accordance with the CDC's STEADI initiative
 - A component of these guidelines will focus on providing specific physical activity recommendations and dispelling myths regarding aging and exercise (with the assistance of UVM PT)
- Develop easy-to-understand office literature in patient rooms/waiting areas containing these guidelines that would prompt older adults as well as office staff to have discussions about geriatric fall prevention during patient appointments
- Create discharge instructions in the form of an easily insertable Epic .dot phrase, which would allow providers to counsel patients regarding simple lifestyle/environmental modifications to decrease their fall risk

Results

- Office literature and discharge Epic .dot phrase created for geriatric patients & provider highlighting the importance of:
 - Identifying and combating home fall hazards (take-home checklist for patients to improve safety of home)
 - Speaking to your provider if patient is concerned about falling or has recently suffered a fall
 - Medication reviews including supplements and over-the-counter drugs
 - Regular eye and foot examinations
 - Engaging in regular physical activity (exercise recommendations as well as specific aerobic/strength training activities to meet these guidelines)
- Positive feedback regarding the utility of these materials was expressed by office staff as well as geriatric patients

Preventing Falls at a Glance: Strategies to Decrease Fall Risk & Improve Function in Older Adults



Yes No If "Yes," remove shag and/or throw rugs or secure throw rugs with non-slip backing.

- There are cords/wires/cables extending across walking spaces in my home. Yes No If "Yes," wrap excess cord and secure it against the wall. Consider installing additional outlets to prevent cords across walking space.
- Rooms, hallways, and/or stairwells are dimly lit in my home.
 - Yes No If "Yes," request assistance installing additional lighting.
- I wear socks and/or slippers in my home. Yes No If "Yes," wear shoes with non-slip tread while walking in home
- · I have difficulty climbing stairs in my home.

(including over-the-

Receive regular eye

eveglasses as needed

Receive regular foot

footwear

exams & discuss proper

exams & replace

 \bigcirc

counter & supplements)



 If you are concerned about falling, or recently suffered a fall, talk to your healthcare provider.

 Your healthcare provider can help identify physical, environmental, and/or pharmacological factors that may be contributing to your fall risk.

Interest raised by PT to develop guidelines into universal, organization-wide initiative



Studies have shown tai chi to reduce falls and I am afraid I will fall and hurt improve balance & flexibility in older adults. myself while exercising...

> ...Regular exercise can actually help reduce your risk of falling.

Strength Training For Fall Prevention



Sit in a sturdy chair with

your back straight and

feet flat on the floor

Use the Chair Stand Exercise below 2-3 times per week to improve leg/hip strength & balance Using your hands as little as possible, slowly rise from

Slowly, return to the seated position. Repeat: 10-15 times

6

the chair to a full stand.

3

Evaluation of Effectiveness & Limitations

Evaluation of Effectiveness

- Develop follow-up surveys to identify use of office literature and discharge instructions for geriatric patient population
- Evaluate trends in geriatric falls across Hinesburg, VT to determine whether intervention is having any impact on fall rate
- Conduct follow-up interviews in geriatric patients who were able to initiate environmental, pharmacological, and/or behavioral adaptations to their lifestyle to determine whether these changes are having any effect on their fall risk and/or overall function
- Follow-up with Hinesburg Practice Clinical Care Associates to determine whether literature/fliers are acting as a good "cue" leading to discussions about geriatric fall prevention with patients

Limitations

- In order to benefit from intervention, patients must visit Hinesburg Family Medicine practice
- Patients with reading difficulties/language barriers may be unable to utilize discharge .dot phrase instructions to address home safety/lifestyle modifications
- Despite increasing discussions regarding geriatric falls, providers still have limited time in office visits to discuss these issues with geriatric patients
- Difficulty in measuring adherence to fall prevention recommendations

Recommendations for Future Projects

- Expand the use of beneficial geriatric fall prevention discharge .dot phrases and literature handouts to other outpatient offices within the UVM health network and beyond
- Provide information regarding environmental, behavioral, and pharmacological factors contributing to fall risk directly to extended care facilities throughout Vermont as to target individuals who may infrequently visit outpatient practices
- Provide interventions to extended care facility staff on how to address environmental factors within their living spaces contributing to falls
- Provide an online forum by which geriatric individuals throughout the state could access fall prevention information

References

- 1. Fall Prevention Facts (2019). National Council on Aging (NCOA). Accessed via: https://www.ncoa.org/news/resources-for-reporters/get-the-facts/falls-prevention-facts/. Accessed on 06/03/2019.
- 2. Important Facts about Falls (2017). Centers for Disease Control and Prevention. Home and Recreational Safety. Accessed via: https://www.cdc.gov/homeandrecreationalsafety/falls/adultfalls.html. Accessed on 06/06/2019.
- Falls Among Older Adults Data Brief: 2016 Vermont Behavioral Risk Factor Survey (2016). Accessed via: <u>http://www.healthvermont.gov/sites/default/files/documents/pdf/HSVR_brfss_db_ww_falls_2016.</u> <u>pdf</u>. Accessed on 06/05/2019.
- 4. Phelan EA, Mahoney JE, Voit JC, Stevens JA. Assessment and Management of Fall Risk in Primary Care Settings. Med Clin North Am. 2015 Mar; 99(2): 281-293.
- 5. Centers for Disease Control and Prevention, National Center for Injury Prevention and Control. Web-based Injury Statistics Query and Reporting System (WISQARS) [online] (2014). Available at: http://www.cdc.gov/injury/wisqars/cost_help/faqs.html. Accessed July 2014.
- United Health Foundation America's Health Rankings. Senior Report 2017. Accessed via: <u>https://assets.americashealthrankings.org/app/uploads/ahr2017_seniorreport.pdf</u>. Accessed on 06/10/2019.