#### University of Vermont

#### ScholarWorks @ UVM

Family Medicine Clerkship Student Projects

**Family Medicine Community** 

2021

#### Helping People Overcome Barriers to Exercise Through In-Office PT Exercise Evaluation Referrals

Matthew Charles Hill Brandt Robert Larner College of Medicine

Follow this and additional works at: https://scholarworks.uvm.edu/fmclerk



Part of the Family Medicine Commons, Medical Education Commons, and the Primary Care Commons

#### **Recommended Citation**

Brandt, Matthew Charles Hill, "Helping People Overcome Barriers to Exercise Through In-Office PT Exercise Evaluation Referrals" (2021). Family Medicine Clerkship Student Projects. 652. https://scholarworks.uvm.edu/fmclerk/652

This Book is brought to you for free and open access by the Family Medicine Community 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.

# Helping people overcome barriers to exercise through in-office PT Exercise Evaluation referrals

South Burlington Family Medicine

Matthew Brandt, March 2021

## Problem Identification

- According to the CDC exercise is one of the most important health interventions available, with both short-term and long-term benefits, particularly for people with chronic disease
  - Benefits: [1]
    - · Lowers risk of Cardiovascular disease, Type 2 Diabetes, and certain cancers
    - · Has numerous benefits of bone health and reduces risk of fractures
    - Improves symptoms of arthritis
    - Increases independence with ADLs for older adults
    - Increases life expectancy
    - · Improved mental health, sleep, and cognition
- CDC recommends 150 minutes of aerobic activity per week [2]
  - · If not, some physical activity is better than no physical activity

### Problem Identification

- Research has identified lack of time, resources, social supports, and lack of confidence/ skill level, and fear of injury as barriers to exercise [3]
- Further, for older adults the barriers of physical limitations, lack of guidance, and limited knowledge of available exercise programs are significant [4]
- Exercise programs tailored for an individual are effective in improving both overall activity and fitness across age ranges [5]

# Cost

- Most Americans don't meet physical activity guidelines [6]
  - 50 % don't meet the 150 recommended minutes per week
  - 33% don't exercise at all
- Leads to \$117 Billion dollars spent annually and 10% of premature mortality [6]
- Only  $\sim$ 60% of a dults in Chittenden county meet physical activity guidelines [7]

# Community Perspective

#### Physical Therapist

- "getting someone to start exercising, that's a huge behavior change...meeting with a physical therapist can definitely facilitate a behavior change"
- "people who are nervous about exercising, or don't know what to do, that increases their comfort, knowing there is a trainer there, also having people there as a community, that's huge"

#### Clara Keegan, MD

- "I think some people just don't know what to do"
- PT adds knowledge base and time
- Providers have so much to fit into such short appointments, extensive exercising counseling just isn't possible

# Intervention and methodology

- Effort to increase patient and provider knowledge of exercise evaluation program
  - In-office Physical Therapy offers exercise evaluations to help lower barriers for patients, increase exercise, and improve health outcomes
- Limited time in clinical patient interactions leads to limited ability for adequate exercise counseling
- Poster advertising exercise evaluations hung in exam rooms will increase both patient and provider awareness, lead to more referrals, and in turn increase exercise for patients.
  - Particularly those with identified barriers to exercise and motivation to make behavior changes

# Results/ response data

- Poster hung in exam rooms listing qualifying diagnoses and assessing patient's readiness to change
- By advertising to patients, higher likelihood that the patient is in the preparation phase of behavior change and likely to successfully change behavior [8]
- Doctors and Physical therapists saw it a means of increasing interprofessional care
- Helped provide holistic care to patients to increase their overall health

# Evaluation of effectiveness and limitations

- Primary outcome: Compare number of pre-intervention exercise evaluations to post-intervention referrals
- Secondary outcome: Evaluate percentage of post-intervention referrals that participate in Exercise evaluation

#### • Limitations:

- Number of referrals doesn't necessarily correlate to increased exercise for patients
- While percentage of referrals that participate in evaluations get closer to that metric, continued exercise is more difficult to measure
- Doesn't measure health outcomes or health care related savings associated with exercise programs

# Recommendations for future projects

- Survey patients to assess who is utilizing the exercise evaluation programs comparing rooms with posters vs rooms without posters
- Follow up surveys for those who utilize to assess the benefits of the exercise evaluation on long term exercise habits
- Track health outcomes for those utilizing the exercise evaluation vs matched controls who don't

### References

- [1] CDC. (2021, January 22). *Benefits of physical activity*. Centers for Disease Control and Prevention. <a href="https://www.cdc.gov/physicalactivity/basics/pa-health/index.htm">https://www.cdc.gov/physicalactivity/basics/pa-health/index.htm</a>
- [2] CDC. (2020, November 20). *Physical activity basics*. Centers for Disease Control and Prevention. <a href="https://www.cdc.gov/physicalactivity/basics/index.htm">https://www.cdc.gov/physicalactivity/basics/index.htm</a>
- [3] Hoare, E., Stavreski, B., Jennings, G. L., & Kingwell, B. A. (2017). Exploring motivation and barriers to physical activity among active and inactive australian adults. *Sports*, 5(3). https://doi.org/10.3390/sports5030047
- [4]Bethancourt, H. J., Rosenberg, D. E., Beatty, T., & Arterburn, D. E. (2014). Barriers to and facilitators of physical activity program use among older adults. *Clinical Medicine & Research*, 12(1–2), 10–20. <a href="https://doi.org/10.3121/cmr.2013.1171">https://doi.org/10.3121/cmr.2013.1171</a>
- [5] Individually-adapted physical activity programs. (n.d.). County Health Rankings & Roadmaps. Retrieved March 24, 2021, from https://www.countyhealthrankings.org/take-action-to-improve-health/what-works-for-health/strategies/individually-adapted-physical-activity-programs
- [6] Inadequate physical activity and health care expenditures in the united states. (2015). *Progress in Cardiovascular Diseases*, 57(4), 315–323. <a href="https://doi.org/10.1016/j.pcad.2014.08.002">https://doi.org/10.1016/j.pcad.2014.08.002</a>
- [7] Vermont Department of Health. Healthy Vermonters 2020: "Physical Activity" Maps & Trends Vermont Health Indicators, by County. Accessed 3/20/21. https://app.powerbigov.us/view?r=eyJrIjoiMjEzYTFjZWQtN2RmYS00ZWY1LWIxYzQtN2E1YWFlOTBmNTVkIiwidCI6IjIwYjQ5MzNiLWJhYWQtNDMzYy05YzAyLTcwZWRjYzc1NTljNiJ9
- [8] Hashemzadeh, M., Rahimi, A., Zare-Farashbandi, F., Alavi-Naeini, A. M., & Daei, A. (2019). Transtheoretical model of health behavioral change: A systematic review. *Iranian Journal of Nursing and Midwifery Research*, 24(2), 83–90. https://doi.org/10.4103/ijnmr.IJNMR 94 17

# Do you have trouble exercising?

# Do you want to exercise but are not sure what to do or how to start?

Do you have a condition or diagnosis involving:

- Pain, Balance Issues, Difficulty walking, etc

#### ASK YOU DOCTOR ABOUT A PT EXERCISE EVALUATION TODAY!!

How can it help me?

A PT Evaluation would include a history and physical examination (strength, balance, and appropriate outcome measures as well as identification of barriers to engaging in an exercise program.)

It can help get you exercising in a way that is safe and doable for you!