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Please give us your suggestions for topics and speakers for either Rural PREP Grand Rounds or our Rural PREP Professional Development Webinars and receive a \$25 Amazon gift card if you topic is chosen! See Dawn Mollica at the registration desk for details.





Visit our interactive map of rural Family Medicine residencies!



https://rttcollaborative.net/rural-programs/residency-map/

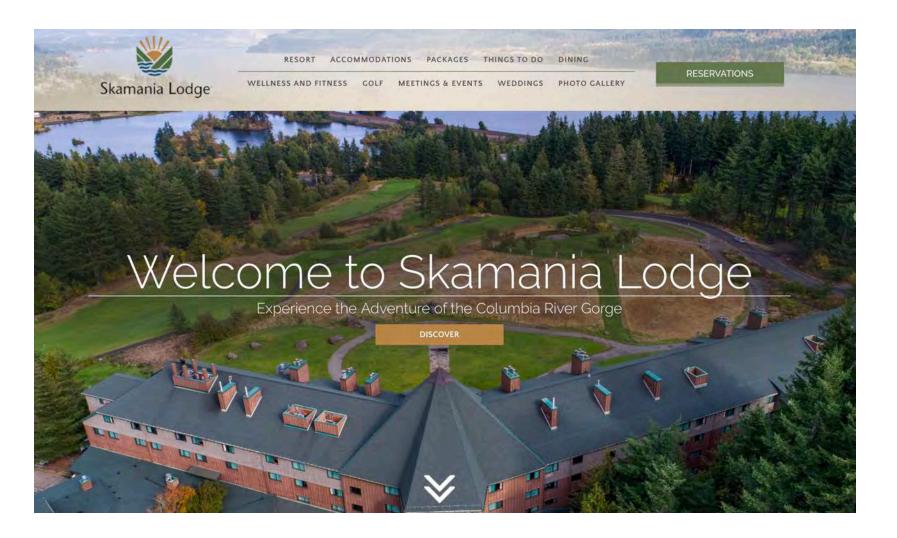
Our Participating Programs





Welcome!

- 91 Registrations
- 25 States (Maine 14; Wisconsin 11;
 Colorado 8; Washington 7; Ohio 6)
- 28 of 44 RTT Collaborative Participating Programs, representing active and developing rural programs in medical school and residency
- 25 non-physicians
- 7 resident physicians and 6 students



THE RTT COLLABORATIVE MEETING 2020 HOSTED BY THE RURAL OREGON PROGRAMS APRIL 15-18, 2020

Announcements

- Please register if you have not already done so
- WiFi Code for Meeting: Thefalls19
- Post on social media with the hashtag #RTTCAM19 or by tagging @RTT_Collab
- Please send smart phone pictures of our meeting to Dr. Longenecker by text (937-539-7135) or email (longenec@ohio.edu)
- Win a \$25 Amazon gift card with a usable idea for Rural PREP Rounds – See registration table

Announcements

- NIPDD Scholarships open Visit https://rttcollaborative.net/news/story/nipddscholarships-2019-2020/
- Rural Recognition Get credit for the percentage of rural graduates from your program! https://rttcollaborative.net/rural-programs/

Congratulations to Our Photo Contest Winners!

- 1st Place Ash Sampath, Columbia, MO
- 2nd Place Vickey Haller, Athens, OH
- 3rd Place Amanda Castillo, Silver City, NM
- Honorable Mention Benjamin Hammer, Uniontown, OH
- Honorable Mention Tony Blankers, Twin Falls, ID



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Honorable Mention – Benjamin Hammer, Uniontown, OH



3rd Place – Amanda Castillo, Silver City, NM



2nd Place – Vickey Haller, Athens, OH



Defeating Parkinson's Disease: A Goal-Oriented, Non-Contact Boxing Program in Southeast Missouri

Photo by Ash Sampath





THE EFFECTS OF NON-CONTACT BOXING ON NON-MOTOR FUNCTIONS OF PARKINSON'S DISEASE



Ashwath Sampath B.S, Danny Rees, Steven Douglas MD, Raghav Govindarajan MD



Purpose

Our aim was to assess the needs of Parkinson's Disease (PD) patients in a rural community and work to improve their non-motor symptoms through

- •A retrospective chart review of PD patients in rural southeast Missouri
- •Creation of a goal-oriented, non-contact boxing program
- •Creation of a referral network to a movement disorder specialist (MDS)



Parkinson's disease (PD) is a progressive neurodegenerative disorder that affects one percent of Americans older than the age of 60.1

An internal retrospective chart review found 76 of 78 (97.4%) PD patients in rural southeast Missouri were not diagnosed or managed in accordance to American Academy of Neurology (AAN) guidelines and only 2 (2.6%) patients were followed by a MDS.

The objective of this project was to improve the management of PD through a multifaceted approach. A key part of the initiative was the creation of a goal-oriented, non-contact boxing program. Previous studies have demonstrated that exercise provides short-term and long-term benefits to PD.²



Methods

This study was part of a service-learning project through the rural track clerkship program at University of Missouri School of Medicine.

Recruits were identified through two sources:

- 1)Medical professionals who see patients with PD, and
- 2)Word of mouth in the PD community.

Patients attended a minimum of two boxing sessions each week for 4 weeks. The 60-minute sessions included a variety of strength, agility, balance, and sequential coordination exercises. Outcomes were measured initially and at 4 weeks. Outcomes assessed both motor and non-motor function and included gait velocity, cadence, stride length, and Unified Parkinson's Disease Rating Scale (UPDRS). In addition, a neurologist reviewed the patients' medical records and a referral to a MDS was offered to each patient.

Acknowledgments/References

Special thanks to Rebecca Douglas for collecting data, Monica Kearney PhD for advice on exercises, and numerous volunteers.

1. Gazewood JD, Richards DR, Clebak K. Parkinson Disease: An Update. Parkinson Disease. 2013;87(4):7.

2. Li F, Harmer P, Fitzgerald K, et al. Tai Chi and Postural Stability in Patients with Parkinson's Disease. N Engl J Med. 2012;366(6):511-519.

Results

- · 3 patients completed the entire 4-week pilot study
- Pre- and post-UPDRS scores for each patient showed improvement in all four areas (I: Mentation, behavior, and mood, II: Activities of daily living, III: Motor examination IV: Complications of therapy)*
- A non-contact boxing program was established in Cape Girardeau, MO with 10+ individuals
- · A referral network to MDS was established

Change in Outcomes

Patient	1	2	3
Demographics	84M	67M	72M
Gait Speed (m/s)	1.16 to 1.30 (+13%)	1.06 to 1.11 (+5%)	.86 to 1.00 (+17%)
Cadence (steps/s)	1.67 to 1.68 (+1%)	1.55 to 1.66 (+7%)	1.28 to 1.31 (+2%)
Stride Length (m)	.69 to .77 (+12%)	.68 to .67 (-1%)	.67 to .77 (+14%)

Discussion/Conclusion

- Management of PD in rural southeast Missouri is poor due to the inability to adhere to AAN guidelines
- A sustainable, streamlined approach was established to manage patients with PD
- Currently the program is comprised of 15+ participants, university faculty, and volunteers
- Further studies will determine the effectiveness of specific exercises, success of MDS referral network, and improvement in a PD patients' quality of life.

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