SHP Student Interns for Research and Scholarly Activities
Application of Project Proposal Form

Instructions:
Please fill out the form and return via email to Nipa Sahasrabuddhe
(ns1115@shp.rutgers.edu) by April 1, 2022. Please fill each box to the right of
each required field. If you are sending attachments, please ensure your contact
information is added to all your forms.

Faculty Contact Information:
Date submitted: 4-1-2022
Faculty Name: David Kietrys
Department/Program: Rehab & Movement Sciences / DPT Program
Telephone number: 856-566-7186
E-mail: kietrydm@shp.rutgers.edu

Project Detail:
Project Title: (56 characters max)
Neuropathy Walks (NCT04889521)
Effects of TENS and Mindfulness Meditation in Persons With HIV-related Neuropathy (NCT04868123)

Hypothesis:
Hypothesis for Neuropathy Walks (Aim 1)
Temporal and spatial characteristics of gait, walking endurance, balance, physical performance scores and sensation will be worse, and physical activity will be lower, in participants with HIV and with distal sensory polyneuropathy (DSP) than in those with HIV but without DSP.
Hypothesis for Effects of TENS and Mindfulness Meditation in Persons With HIV-related Neuropathy (Aim 2)
There will be a beneficial effect on all clinical and functional outcomes in each of the 2 intervention groups (mindfulness meditation; TENS) compared to a usual care control group, among participants with HIV and DSP.

Description:
(Include design, methodology, data collection, techniques, data analysis to be employed, evaluation and interpretation methodology for research component)
This study will include a cross-sectional phase for Aim 1, and a randomized pilot interventional phase with 3 arms for Aim 2. All enrolled participants (those with DSP and those without DSP) will be involved with the cross-sectional phase for Aim 1. Only participants with DSP will continue on into the interventional phase for Aim 2. Data will be collected via an array of direct non-invasive tests and questionnaires that will be administered a members of the study team. Data will be analyzed with correlations for Aim 1, and one-way ANOVA for outcome variables for Aim 2

Specific Student Responsibilities:
1. Assist with consenting of participants
2. Assist with data collection
3. Assist with instruction of TENS intervention
4. Assist with preliminary analysis of data
<table>
<thead>
<tr>
<th>Start / end date of project:</th>
<th>Enrollment and data collection was originally slated to begin last year but was delayed due to COVID. Enrollment is starting now (April 2022). Data collection will continue through Dec. 2022. Summer intern to assist only during designated summer months.</th>
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**Educational:**

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<tr>
<th>WHAT OTHER EDUCATIONAL OPPORTUNITIES ARE AVAILABLE TO STUDENTS? (e.g., journal club, seminars, clinic, rounds)</th>
<th>Student will be added to IRB for this study and will participate with study team meetings. Student will be training in all study procedures including a wide array of outcome measures and how to instruct participants in the TENS intervention.</th>
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<tr>
<td>WHERE DO YOU PLAN TO PRESENT OR PUBLISH THE FINDINGS WITH THE STUDENT? (e.g., national or state meetings, newsletter or journal, SHP poster day)</td>
<td>Findings of this study will be submitted for presentation at one or more national level or international conferences such as APTA Combined Sections Meeting. At least one manuscript based on study findings will be submitted to a peer-reviewed journal such as <em>Physical Therapy</em> or <em>AIDS Care</em>. Although such submissions will not occur until after the conclusion of the summer internship, the student will be kept in the loop and depending on interest and level of commitment will be listed in acknowledgments or possibly offered co-authorship.</td>
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**CHECK ALL APPROPRIATE BOXES BELOW AND PROVIDE REQUESTED INFORMATION.**

- This project is: √ clinical √ behavioral

- √ This project involves the use of human subjects (including chart review, retrospective studies and questionnaires).

  IRB Protocol Number: **Pro2020003234**

  IRB approval must be obtained by June 2022

__________________________
Signature of Department Chair Date 4/1/2022

OR-For internal use

Form: (1)
Reviewed date: ____________
Date processed on website: ____________

4/4/2022