

Submitted on Monday, 3/16/2015 9:49 PM

Name of Organizer: T. George Hornby

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I am a current member of the ASNR (Symposium organizers must be ASNR members):

Yes

Title of Symposium: Walking the walk? Development and implementation of locomotor interventions for patients post-stroke

Description of Submitted Symposium (please limit to 2000 characters): The goal of this educational session is two-fold: 1) we will first present evidence regarding the importance of specific parameters of locomotor interventions applied to patients with neurological injury; and, 2) we will provide data and details on attempts to implement these strategies into clinical treatment of patients with stroke or spinal cord injury (SCI) during inpatient or outpatient rehabilitation. There is abundant research regarding the extent and mechanisms underlying recovery of walking function following neurological injury. Unfortunately, their translation to clinical practice is lacking. This educational session will address emerging research regarding evidence underlying specific training parameters that improve walking recovery post-stroke and SCI. The morning session will focus on the biomechanical and neurophysiological basis of locomotion and locomotor recovery, with detailed information on how the amount, intensity and variability of task-specific practice can influence walking recovery. The afternoon lectures will present the application of such training strategies to patient populations, with specific information of how to implement such training in individual case studies across the spectrum of impairments, and detailed information on implement strategies for the clinical setting. Data will be presented regarding the regarding the feasibility of providing such training, and the resultant outcomes. I. Overview II. Theory and Rationale for Implementation of Research Interventions into Clinical Practice III. Rationale and Development of Effective Gait Training Strategies, and Relative Efficacy IV. Knowledge Translation Strategies for Implementation into Clinical Practice V. Practice-Based Evidence related to Implementation in the Inpatient Rehabilitation Setting.

Length of time required for symposium?: 2 hrs

Additional Presenters (Limited to 4 additional presenters, list full name and email address)

Please Note: Any Non-member speakers must receive prior approval from the Program

Chair.: Carey Holleran, PT, DHS, careylanehilton@gmail.com Jennifer Moore, PT, DHS, jmoore@ric.org Elliot Roth, MD, eroth@ric.org

What is the role of each presenter?: T. George Hornby, PT, PhD - Rationale and Development of Effective Gait Training Strategies. Carey Holleran, PT, DHS, - Practice-Based Evidence Jennifer Moore, PT, DHS, Implementation Elliot Roth, MD - Overview, Theory and Rationale for Implementation of Research Interventions into Clinical Practice

Objective 1: 1) Attendees will understand the rationale and evidence regarding the importance of amount, intensity, and variability of locomotor practice during physical therapy interventions

Objective 2: 2) Attendees will realize the potential importance of emphasizing these training parameters during clinical physical therapy sessions and their potential contributions towards improved locomotor practice post-stroke

Objective 3: 3) Attendees will be provided specific strategies to facilitate translation of these findings towards clinical practice, including focused attention to delivery of physical therapy services, as own patient populations, utilizing the theoretical framework and empirical data provided in previous presentations.

Target Audience: Researchers and Clinician in the field of Neurological Rehabilitation, including physicians, therapists, nurses, and administrators.

Type of Educational Activity: Symposia

Lecture - oral didactic presentation: Yes

Forum - open dialogue and discussion among all participants: No

Panel Discussion - 3 to 6 faculty engaged in dialogue: Yes

Please explain: Information readily provided through lecture format, discussion with questions at the end.

Please explain: Lack of implementation of evidence based interventions in the clinical rehabilitation of patients with subacute stroke

How do you know the practice gap exists? (You must answer this question for your symposium to be considered): Peer Review

Please describe: Research consistently indicates clinical practice patterns that are inconsistent with available research on training paradigms which improve functional recovery and induce positive neuroplastic changes.

What Desirable Physician Attribute(s) will your symposium address? (Select all that apply): Patient care

At the end of the educational session, what will your learners have gained? (check all that apply - you must answer this question for your symposium to be considered): Knowledge (information)

Please indicate any other needs for the symposium.: Projector for presentation

By clicking "submit form" below, I agree to adhere to all deadlines and requirements as set forth by the ASNR Executive Office and understand if I do not adhere to these deadlines and requirements I may be disqualified from presenting at the meeting.:

Line:

Response ID: 1560