

How do I start, maintain or lead rehabilitation as a practicing physician, clinician or clinical researcher? #4532

8:00 AM - 5:00 PM



SISTO



KATZ



ZAFONTE



HAMMOND



JONES



KUROWSKI

KEY SPEAKERS

SUE ANN SISTO, Stony Brook University, Stony Brook NY

DOUGLAS I KATZ, Braintree Rehab Hospital, Braintree MA

ROSS ZAFONTE, Spaulding/ Harvard, Boston MA

FLORA HAMMOND, Indiana University, Indianapolis IN

MICHAEL JONES, Shepherd Center, Atlanta GA

ISMARI CLESSON, Shepherd Center, Atlanta GA

BRAD KUROWSKI, Cincinnati Children's Hospital Medical Center, Cincinnati OH

FOCUS

Training/instruction in new knowledge/skills (attendees will develop new competencies that can be applied in practice or research)

ABBREVIATED DESCRIPTION

For the physician, clinician investigator or key research staff new to research, in improving their skills and understanding of the principles and practices used in the successful execution of patient-oriented research. Participants will gain insights to enhance their ability to participate in and perform qualify research according to existing regulations and guidelines. The course is open to physicians, nurses, therapists, and other healthcare professionals involved in or interested in clinical research. The program will share information and create an opportunity for dialogue amongst attendees and program faculty. The focus of the course will be how to balance clinical and research responsibilities.

FACULTY

Sue Ann Sisto, Ph.D., Professor and Research Director, Division of Rehabilitation Sciences, Chair of Ph.D. Program in Health and Rehabilitation Sciences, Stony Brook University, Stony Brook, NY

Douglas Katz, MD, Boston University, Professor of Neurology, Boston University, Boston, MA

Ross Zafonte, MD, Harvard University

Flora Hammond, MD, Indiana University

Mike Jones, Ph.D., Shepherd Center

Issi Classon, RN, CCRP, Shepherd Center

ABSTRACT BODY

The purpose of this course is to assist the physician and any clinician investigator and key research staff new to research, in improving their skills and understanding of the principles and practices used in the successful execution of patient-oriented research. Participants will gain insights to enhance their ability to participate in and perform qualify

research according to existing regulations and guidelines. The course is open to physicians, nurses, therapists, and other healthcare professionals involved in or interested in clinical research. The program will share information and create an opportunity for dialogue amongst attendees and program faculty. The focus of the course will be how to balance clinical and research responsibilities.

LEARNING OBJECTIVES

1. Present methods for critical analysis of the literature and if/when/how to apply to clinical practice
2. Describe the current landscape of clinical research and opportunities for the physician and investigators
3. Discuss issues in the design, conduct, and management of successful clinical research studies and principles of GCP including regulations and ethical requirements
4. Describe avenues for dissemination and collaboration
5. Present grant writing strategies for the clinician and clinical researcher

PRIMARY DIAGNOSIS/AREA OF PRACTICE

Research Training

PRIMARY AREA OF FOCUS

Research methods (e.g. measurement, research design, analytic/statistical methods)

TARGET AUDIENCE

Rehabilitation Researchers

PT, OT, Nurse, SLP and other clinical research interested in how to implement research practices within the clinical context or how to balance research with clinical responsibilities.

BIOGRAPHICAL SKETCHES



SUE ANN SISTO, PT, MA, PH.D., FACRM

Professor, Physical Therapy

Research Director, Division of Rehabilitation Sciences

Program Director, Ph.D in Health and Rehabilitation Sciences

Stony Brook University, Stony Brook, NY

Professor Sisto received her Bachelor of Science in Physical Therapy at St. Louis University, St. Louis Missouri. She began her clinical practice at the Kessler Institute for Rehabilitation where and pursued her Masters degree in Physical Therapy at New York University, graduating with a specialization in pathokinesiology. Dr. Sisto received the Mary E. Switzer pre-doctoral fellowship from the National Institute on Disability

and Rehabilitation Research (NIDRR) 1991-92. She then received a NIDRR doctoral training scholarship to pursue her doctoral studies at New York University which 1997 with a specialization in pathokinesiology, biomechanics and motor control. Professor Sisto pursued a post-doctoral fellowship with the New Jersey NIH Chronic Fatigue Syndrome Co-operative Research Center from 1996-97. She then assumed the Directorship position of the Human Performance and Movement Analysis Laboratory at the Kessler Foundation. Dr. Sisto developed this laboratory over the next 10 years, after which she assumed her current position here at Stony Brook University in September, 2007. Dr. Sisto currently teaches electrotherapy and physical therapy as well as other lectures in the areas of spinal cord injury throughout the curriculum. She is currently the Director of the Rehabilitation Research and Movement Performance (RRAMP) laboratory on the Stony Brook University's Research and Development Park which opened in 2009. This lab is the seat of faculty research across many scientific areas such as prosthetic gait, exercise equipment biomechanics, spinal cord injury gait and balance, childhood obesity activity and exercise, Huntington's disease eye tracking and balance, childhood cancer survivor rehabilitation and athletic performance and biomechanics to name a few. The lab is equipped with a 12 camera Vicon system with 4 in ground force plates and an EMG system all integrated in time. The lab also has an exercise metabolic testing system for treadmill exercise tests. Additionally, Dr. Sisto is currently the Co-Director of the

TUE 27 OCT

PRE-CONFERENCE INSTRUCTIONAL COURSE



NeuroRecovery Network, funded by the Christopher and Dana Reeve Foundation and the Centers for Disease Control. Dr. Sisto has been a Physical Therapist for over 32 years with a specialization in pathokinesiology. Dr. Sisto has focused her work on the evaluation of movement using 3D movement analysis technology, electromyography, kinetic analysis and metabolic exercise capacity. Her laboratory will be designed to explore human movement of persons with disabilities, pursue the advancement of rehabilitation for improvement of mobility and, ultimately, the quality of life. She has received numerous grants in the area of secondary complications after a disability such as obesity and cardiac risk factors after spinal cord injury (SCI), overuse injuries of the upper limbs due to wheelchair propulsion in paraplegia and tetraplegia and the recovery of ambulation after incomplete SCI. Previous grants examined the effect of chemodenervation on spasticity in SCI, traumatic brain injury and stroke; the effect of constraint induced movement therapy after stroke; the use of FES in the recovery of muscle and bone after SCI; the effect on exercise on chronic venous insufficiency; and activity limitations in chronic fatigue syndrome. Dr. Sisto has served on various NIH, Shriners, APTA and other grant review committees as well as several editorial boards for key rehabilitation journals. Dr. Sisto has published 90 abstracts and 50 publications in various rehabilitation, biomechanics, and engineering journals. She is the chief editor of the book entitled "Spinal Cord Injuries: Management and Rehabilitation" published by Mosby/Elsevier to be released in January 2009.

**MIKE JONES, PH.D.**

Vice President, Shepherd Center, Inc.
Director, Virginia C. Crawford research Institute

Dr Jones is vice president of the Shepherd Center and the Director of the Virginia C. Crawford Institute. He provides leadership all research and technology for the center. Dr Jones received a Ph.D. in Developmental and Child Psychology and M.A in Human Development from the University of Kansas. He is an accomplished investigator and leader in rehabilitation research. He also serves as principal investigator of several Federally-funded research grants.

ISMARI CLESSON, R.N.

Director, Clinical Trials, Shepherd Center, Inc.

Ms Clesson oversees the clinical trials team at Shepherd Center which specializes in spinal cord injury, brain injury, multiple sclerosis, and stroke research. She joined Shepherd Center in 1989 and has implemented over 90 clinical trials involving investigational agents, devices and rehabilitation interventions. She was certified as a rehabilitation nurse and became a multiple sclerosis certified nurse. Ms Clesson has been a Certified Clinical Research Professional since 2003.

**DOUGLAS I. KATZ, MD**

Douglas I. Katz, MD is Professor of Neurology at Boston University School of Medicine, a member of the academic neurology staff at Boston Medical Center and Medical Director of the Brain Injury Program at Braintree Rehabilitation Hospital in Massachusetts. With subspecialties in cognitive/behavioral neurology and neurorehabilitation, he is a recognized expert and leader in the field of traumatic brain injury (TBI) rehabilitation with over 28 years of experience in TBI clinical research, clinical care and program development. His research and publications have included studies of neuropathology, natural history and outcome prediction in TBI, disorders of consciousness after brain injury, pharmacologic treatment of cognitive problems after TBI, and structural and functional imaging in relation to recovery and rehabilitation after TBI. He has numerous publications in these areas and has co-edited four books, including a comprehensive text on brain injury, *Brain Injury Medicine* (Demos), recently released in its 2nd edition. He has been center PI on a number of multi-center collaborative grants on TBI assessment and treatment, including a recent RCT on amantadine in severe TBI published in the NEJM. He is presently a co-investigator on NIH funded studies of Chronic Traumatic Encephalopathy, neuropathology and clinical features and Precursors and Prognosis of Traumatic

Brain Injury in Young to Middle Aged Adults in the Gen3 Cohort of the Framingham Heart Study.

He is director of the Neurorehabilitation fellowship at Boston University, and has been a national leader in developing training and certification standards for neurorehabilitation. He serves on a number of editorial boards for major journals on brain injury and neurorehabilitation.

Dr. Katz is President-Elect of the American Congress of Rehabilitation Medicine, and was recently on the Boards of the American Society of Neurorehabilitation and the Brain Injury Association of America. His honors include the