Optimizing Neurologic Rehabilitation Outcomes: Pushing Practice Forward

Conference Agenda

DAY 1: Friday, November 6, 2015

Morning Sessions

7:30 to 8:00 a.m. Registration and Continental Breakfast

8:00 to 8:15 a.m. Welcome

Alberto Esquenazi, MD, John Otto Haas Chair and Professor of Physical Medicine and Rehabilitation and Director Gait and Motion Analysis Laboratory, MossRehab.

8:15 to 9:45 a.m. Keynote: Impact of Neuromodulation on Motor Learning in Neurorehabilitation

Leonardo G. Cohen, MD, Chief, Human Cortical Physiology Section and Chief, Stroke Neurorehabilitation Clinic, National Institute of Neurological Disorders and Stroke, National Institutes of Health.

institutes of fleatin.

Neuromodulation can have a significant impact on motor learning and recovery. Dr. Cohen will focus on noninvasive neuromodulatory strategies to facilitate motor learning, including behavioral strategies that have been shown to improve motor learning in health and in disease. He will share findings from his ongoing research on the role of noninvasive brain stimulation to impact motor learning.

9:45 to 10:30 a.m. General Session: Toward a Rehabilitation Treatment Taxonomy: Defining the Active Ingredients of Rehabilitation

John Whyte, MD, PhD, Director of Moss Rehabilitation Research Institute

Development of a theory-driven rehabilitation treatment taxonomy is an important step in allowing rehabilitation clinicians to define the ingredients of their treatment interventions and to synthesize research into practice. Dr. Whyte will describe his current research and explain the limitations of current methods used to describe rehabilitation treatments, and introduce his ongoing work in defining a new treatment theory and taxonomy.

10:30 to 10:45 a.m. Break

10:45 to 11:30 a.m. General Session: *Post-Acute Payment Reform: A Focus on the Delivery of Value Based Care* Ruth Lefton, MHSA, Chief Operating Officer, MossRehab

Current and proposed changes in legislation related to healthcare reimbursement have challenged rehabilitation professionals to rethink how care is delivered; moving us towards a more value based model of care. This presentation will explore potential responses in rehabilitation structure and delivery to adapt to the new reimbursement environment.

11:30 a.m. to 12:15 p.m General Session: Technology in Rehabilitation: Today and Tomorrow

Alberto Esquenazi, MD, John Otto Haas Chair and Professor of Physical Medicine and Rehabilitation and Director Gait and Motion Analysis Laboratory, MossRehab.

The technology explosion has given rise to a host of new treatment options in rehabilitation and promises to continue to offer exciting new avenues for recovery. Dr. Esquenazi will discuss the development and current use of technology in rehabilitation, with a focus on neurorehabilitation, and explore the far reaching possibilities for future applications.

12:15 to 1:15 p.m. Lunch

Afternoon Breakout Sessions

Attendees are able to select any combination from the three Mini-Courses offered below:

Attendees are able to select any combination from the three Mini-Courses offered below:			
Mini-Course I: Raising the Bar to Meet	Mini-Course II: Robotics for	Mini-Course III: The Role of Visual	
Healthcare Reform	Remediation	Feedback in Pain Control and	
Healthcare Reform challenges us to focus	The use of Robotics in neurologic	Rehabilitation	
greater efforts on quality indicator and process	rehabilitation is based on the principles	Emerging research about the	
improvement initiatives.	of neuroplasticity and the call to provide	neuroanatomy and function of the action	
Creating a culture of positive change starts with	more repetition of activity for recovery.	observation network and mirror neuron	
the Organizational Leadership and engages the	This course will explore the current	system has given rise to new treatment	
frontline rehabilitation team in: decision	literature about dosing of activity and	interventions for people with neurologic	
making, program development and the	repetition in rehabilitation, followed by	injury and chronic pain. This mini-course	
implementation of continuous quality	lectures that will focus on the clinical	will focus on the research avenues that	
improvement. We will share details about our successes so you can better align your	application of upper and lower extremity robots. Patient selection and	examine action prediction and its role in	
rehabilitation practice with the industry	progression will be reviewed, and	performance. Clinical applications of these principles in mirror therapy for	
demands of value based care and reduced	insights based on clinical experience will	recovery, and in chronic pain and central	
reimbursement.	be shared.	sensitization will be explored.	
1:15 to 2:15 p.m. – Session 1		·	
A: Process Improvement and Quality	B: Dosing in Rehabilitation: What	C: Your Body in My Brain: Mirror	
Indicators: Preparing for Outcome Based	are the Necessary Ingredients?	Neurons, Action Prediction, and	
Reimbursement	Shailesh Kantak, PhD, PT, Institute	Body Representations in	
Thomas Smith, OTR/L, MBA, Assistant Vice	Scientist, Moss Rehabilitation	Rehabilitation	
President, MossRehab	Research Institute	Laurel Buxbaum, PsyD, Institute	
·		Scientist, Director, Cognition & Action	
		Lab, Moss Rehabilitation Research	
		Institute; Matthieu DeWit, PhD,	
		Postdoctoral Research Fellow, Moss	
		Rehabilitation Research Institute and	
		Tamer Soliman, PhD, Postdoctoral	
		Research Fellow, Moss Rehabilitation	
		Research Fellow, Moss Rehabilitation Research Institute	
2:15 to 3:15 p.m. – Session 2			
2:15 to 3:15 p.m. – Session 2 A: Round Table Discussion: The Process of	B: Application of Upper Extremity		
•		Research Institute	
A: Round Table Discussion: The Process of	B: Application of Upper Extremity Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in	
A: Round Table Discussion: The <u>Process</u> of Performance Improvement Related to	Rehabilitation Using Robotics	Research Institute C: Mirror Therapy in Neurorehabilitation	
A: Round Table Discussion: The <u>Process</u> of Performance Improvement Related to Quality Measures	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist,	
A: Round Table Discussion: The <u>Process</u> of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The <u>Process</u> of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The <u>Process</u> of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The <u>Process</u> of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN,BSN,CRRN, Clinical Nurse Educator,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The <u>Process of</u> Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN,BSN,CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN, BSN, CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN, BSN, CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN, BSN, CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN, BSN, CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab 3:15 to 3:30 p.m.	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN, BSN, CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab 3:15 to 3:30 p.m. BREAK	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational	Research Institute C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN,BSN,CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab 3:15 to 3:30 p.m. BREAK 3:30 to 4:30 pm – Session 3	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational Therapist, MossRehab	C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research Institute .	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN, BSN, CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab 3:15 to 3:30 p.m. BREAK 3:30 to 4:30 pm – Session 3 A: Building the Care Continuum:	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational Therapist, MossRehab B: Robotic Gait Training in	C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research Institute . C: Chronic Pain and Central	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN,BSN,CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab 3:15 to 3:30 p.m. BREAK 3:30 to 4:30 pm – Session 3 A: Building the Care Continuum: Facilitating Team Communication	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational Therapist, MossRehab B: Robotic Gait Training in Neurorehabilitation	C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research Institute . C: Chronic Pain and Central Sensitization	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN,BSN,CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab 3:15 to 3:30 p.m. BREAK 3:30 to 4:30 pm – Session 3 A: Building the Care Continuum: Facilitating Team Communication Margaret Seminara, RN, NE-BC, MHA, NHA,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational Therapist, MossRehab B: Robotic Gait Training in Neurorehabilitation Matthew Vnenchak, PT, MS, NCS,	C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research Institute . C: Chronic Pain and Central Sensitization Leonard Kamen, DO, Clinical Director,	
A: Round Table Discussion: The Process of Performance Improvement Related to Quality Measures Moderator: Julie Hensler-Cullen, RN, MSN, Director of Education and Quality, MossRehab Panelists: Denise Griffin-Stevenson, RN,BSN,CRRN, Clinical Nurse Educator, MossRehab, Beth Jacobs, RN, CCM, CRRN, Clinical Coordinator, SCI System of Care, MossRehab and Lisa MaGee, RN, CRRN, Charge Nurse, MossRehab 3:15 to 3:30 p.m. BREAK 3:30 to 4:30 pm – Session 3 A: Building the Care Continuum: Facilitating Team Communication Margaret Seminara, RN, NE-BC, MHA, NHA, Senior Director, Post Acute Services,	Rehabilitation Using Robotics Joseph Padova, OTR/L, Occupational Therapist, MossRehab B: Robotic Gait Training in Neurorehabilitation Matthew Vnenchak, PT, MS, NCS,	C: Mirror Therapy in Neurorehabilitation Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research Institute . C: Chronic Pain and Central Sensitization Leonard Kamen, DO, Clinical Director,	

Evening Tour of MossRehab, Elkins Park

5:30 to 7:00 p.m.

Join us for a Wine and Cheese Reception in our beautiful Alice and Herbert Sachs Therapeutic Conservatory. A guided tour of the MossRehab, Elkins Park facility with an opportunity to see robotics will be offered.

Transportation between the Convention Center and MossRehab will be provided. Please check the box on the Registration form if you are interested in attending.

DAY 2: Saturday, November 7, 2015

Morning Sessions

7:30 to 8:00 a.m. Registration and Continental Breakfast

8:00 to 8:45 a.m. Keynote Speaker: Consumer, Advocate, Provider: Searching for the Promised Land

Thomas Strax, MD, Former Professor & Chairman, Department of Physical Medicine & Rehabilitation, UMDNJ-Robert Wood Johnson Medical School, and Former Vice President and Medical Director, JFK Johnson Rehabilitation Institute

Dr. Strax has been involved in the field of rehabilitation for many years: as a teacher, provider, consumer, and advocate. In the setting of abundant scientific discoveries and technological advances, he will share his unique perspective on what is necessary to provide meaningful, effective care to each rehabilitation client.

8:45 to 9:45 a.m. General Session: Emerging Neuroimaging Technologies

John A. Detre, MD, Director, Center for Functional Neuroimaging, Perelman School of Medicine, University of Pennsylvania.

Advances in neuroimaging have created new tools to measure the functional physiology of the brain. Dr. Detre will elaborate on the application of both functional and structural neuroimaging for measuring neuroplasticity, and explain how new technologies in neuroimaging might be used for patient stratification and to study neurorehabilitation interventions.

9:45 to 10:00 a.m. Break

Afternoon Breakout Sessions

Attendees are able to select any combination from the three Mini-Courses offered below:

Mini-Course IV: Spasticity and Motor Control

Upper Motor Neuron Syndrome and muscle over-activity continue to be a problem in clients recovering from neurologic disease and insult. New data will be presented and discussed related to the impact of spasticity on healthcare costs. Presenters will describe the most current information on surgical and nonsurgical management of spasticity and on recovery of upper extremity function for the upper motor neuron hand.

Mini-Course V: Innovations in Technology for Living

The technological advances of recent decades have led to extraordinary improvements in man's ability to interact with his world and each other. Access to personal devices such as smart phones and tablets has dramatically increased the availability of tools for remediation and compensation for a variety of deficits. This mini course will examine the use of personal devices available to the public to support cognition, promote communication and increase mobility.

Mini-Course VI: Mild TBIs, Major Consequences

Concussion, or mild traumatic brain injury, is a complex pathophysiological process. Clinical management requires consideration of multiple factors that will be explored by both clinicians and researchers in this course. Presenters will discuss the current consensus on concussion assessment and management as well as data on the role of sports in concussion. Treatment interventions for protracted recovery and controversies related to Second Impact Syndrome and Chronic Traumatic Encephalopathy will be explored.

10:00 to 11:00 a.m. – Session 4		
A: Let Me Hand It To You: The Upper Motor Neuron Hand Nathaniel Mayer, MD, Director, Motor Control Analysis Laboratory, MossRehab	B: Using Technology to Support Cognition and Emotional Well-Being Tessa Hart, PhD, Institute Scientist, Moss Rehabilitation Research Institute	C: Current Concepts in the Diagnosis and Early Management of Mild TBIs Thomas Watanabe, MD, Clinical Director, MossRehab Drucker Brain Injury Center
11:00 a.m. to 12:00 p.m. – Session 5		
A: Economic Impact of Spasticity and Its Treatment Michael Saulino, MD, PhD, Attending Physician, MossRehab & Einstein Medical Center	B: Communication Technology for Individuals with Communication Impairment – Use of Personal Devices Roberta Brooks, MA, CCC-SLP, CBIS, Speech Language Pathologist, MossRehab	C: Similarities and Differences Between Sports and Non-Sports Injuries Amanda Rabinowitz, PhD, Institute Scientist, Moss Rehabilitation Research Institute
12:00 to 1:00 p.m. – Session 6		
A: The Role of Orthopedic Surgery in Neurologic Populations Mary Ann Keenan, MD, Professor of Orthopaedic Surgery, Emeritus Chief, Neuro-Orthopaedics, Comprehensive Neurosciences Center University of Pennsylvania	B: Using Bluetooth to Facilitate Single Switch Access in the Tetraplegic Population Amanda Quinque, MS, OTR/L, Occupational Therapist, MossRehab	C: After Concussion: Impact of Multipl Injuries and Long-term Consequences Max Shmidheiser, PsyD, ABPP-CN, Clinical Neuropsychologist, MossRehab

Disclosures: Speaker disclosures can be found at www.MossRehabConference.com.