

# Optimizing Neurologic Rehabilitation Outcomes: Pushing Practice Forward

**Friday, November 6 and  
Saturday, November 7, 2015**

Pennsylvania Convention Center  
Philadelphia, PA 19107



### Presentation Overview:

This two-day conference will explore three key forces that are driving the evolution of neurologic rehabilitation practice: emerging science, developing technology, and healthcare reform. Expert speakers, nationally recognized in their fields, will present the latest developments in the lab, the clinic, and the healthcare environment. General session presentations will be followed by concurrent mini-courses that focus on applying research or regulatory information to clinical practice. Participants will be able to choose to attend the three sessions within a particular mini-course, or select individual sessions from different mini-courses.

### Program Objectives:

1. Explain the principles of neuroplasticity and describe two implications to rehabilitation treatment decisions.
2. Describe research findings on rehabilitation topics, including communication, memory, motor learning, and mild TBI.
3. Discuss the advancing role of technology in rehabilitation.
4. Implement three innovative measures to prevent complications and improve rehabilitation outcomes.

### Course Level:

Intermediate

**Target Audience:** Rehabilitation physicians, case managers, rehab nurses, social workers, occupational therapists, physical therapists, speech language pathologists and other healthcare professionals.

**Venue:** Pennsylvania Convention Center  
Rooms 113 ABC  
1101 Arch Street, Philadelphia, PA 19107

### Directions and Parking:

For directions, parking and public transportation information, go to <http://www.paconvention.com/explore-philadelphia/directions-and-parking/Pages/directions-and-parking.aspx>.

### Accommodations:

There are 9,000 hotel rooms within a 15 minute walk of the Convention Center. To choose a place to stay, go to <http://www.discoverphl.com/visit/stay/>

**Fee:** \$150

### Refreshments:

Complimentary continental breakfast and lunch will be provided on Friday; continental breakfast and gift cards to Reading Terminal Market will be provided on Saturday.

**Contact Hours:** 11.5

### Continuing Education (CE) Credits:

#### Requirement for successful course completion:

Satisfactory completion of the continuing education units consists of monitored sign in and sign out forms and completion of a course feedback form that includes self-assessment of learning outcomes.

### CME Accreditation Statements:

Einstein Medical Center Philadelphia is accredited by the Pennsylvania Medical Society to provide Continuing Medical Education for physicians.

### Credit Designation Statement:

Einstein Medical Center Philadelphia designates this live educational activity for a maximum of 11.5 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the educational activity.

### Conflict of Interest Statement:

Faculty and all others who have the ability to control the content of continuing medical education activities sponsored by Einstein Healthcare Network are expected to disclose to the audience whether they do or do not have any real or apparent conflict(s) of interest or other relationships related to the content of their presentation(s).

### American Psychological Association (APA):

Einstein Healthcare Network is approved by the APA to sponsor continuing education for psychologists. Einstein Healthcare Network maintains responsibility for this program and its content.

### National Association of Social Workers—Pennsylvania Chapter (NASW-PA):

NASW-PA has been designated as a pre-approved provider of professional continuing education for social workers (Section 47.36), marriage and family therapists (Section 48.36) and professional counselors (Section 49.36) by the PA State Board of Social Workers, Marriage and Family Therapists and Professional Counselors. 11.5 CEs will be awarded for the completion of this course. Attendees from New Jersey and Delaware are also eligible.

### Physical Therapy CEUs:

Pennsylvania, New Jersey, New York, Delaware, Maryland and District of Columbia.

### Commission for Case Manager Certification (CCMC):

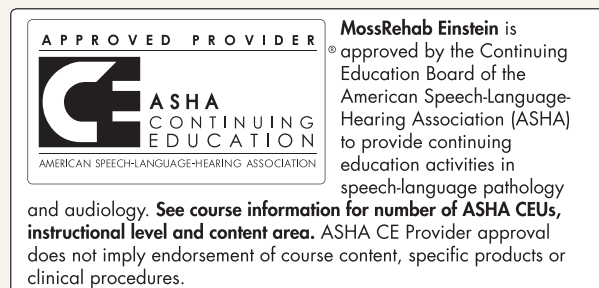
This program has been submitted to CCMC for approval to provide board certified case managers with 11.5 clock hours. CCMC does not approve or endorse this company; you are receiving this mailer because you are currently opted-in to the Commission's mail list, which is available for purchase. Please contact [ccmchq@ccmcertification.org](mailto:ccmchq@ccmcertification.org) with questions or to opt-out.

### Pennsylvania State Nurses Association (PSNA):

MossRehab is an approved provider of continuing nursing education by the PA State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. This course is being offered for 11.5 contact hours.

### American Occupational Therapy Association (AOTA):

MossRehab is an approved provider of continuing education. This course is offered for 1.15 AOTA CEUs. The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA.



This course is offered for 1.15 ASHA CEUs (Intermediate level, Professional area.)

## 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.

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 on the following page:



**Mini-Course I: Raising the Bar to Meet Healthcare Reform**

Healthcare reform challenges us to focus greater efforts on quality indicator and process improvement initiatives. Creating a culture of positive change starts with the organizational leadership and engages the frontline rehabilitation team in: decision making, program development and the implementation of continuous quality improvement. We will share details about our successes so you can better align your rehabilitation practice with the industry demands of value based care and reduced reimbursement.

**1:15 to 2:15 p.m. – Session 1**

**A: Process Improvement and Quality Indicators: Preparing for Outcome Based Reimbursement**

Thomas Smith, OTR/L, MBA, Assistant Vice President, MossRehab

**Mini-Course II: Robotics for Remediation**

The use of robotics in neurologic rehabilitation is based on the principles of neuroplasticity and the call to provide more repetition of activity for recovery. This course will explore the current literature about dosing of activity and repetition in rehabilitation, followed by lectures that will focus on the clinical application of upper and lower extremity robots. Patient selection and progression will be reviewed, and insights based on clinical experience will be shared.

**B: Dosing in Rehabilitation: What are the Necessary Ingredients?**

Shailesh Kantak, PhD, PT, Institute Scientist, Moss Rehabilitation Research Institute

**Mini-Course III: The Role of Visual Feedback in Pain Control and Rehabilitation**

Emerging research about the neuroanatomy and function of the action observation network and mirror neuron system has given rise to new treatment interventions for people with neurologic injury and chronic pain. This mini-course will focus on the research avenues that examine action prediction and its role in performance. Clinical applications of these principles in mirror therapy for recovery, and in chronic pain and central sensitization will be explored.

**C: Your Body in My Brain: Mirror Neurons, Action Prediction, and Body Representations in Rehabilitation**

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 Institute

**2:15 to 3:15 p.m. – Session 2**

**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

**B: Application of Upper Extremity Rehabilitation Using Robotics**

Joseph Padova, OTR/L, Occupational Therapist, MossRehab

**C: Mirror Therapy in Neurorehabilitation**

Steven Jax, PhD, Institute Scientist, Moss Rehabilitation Research Institute

**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, MossRehab/ Willowcrest, Einstein Healthcare Network

**B: Robotic Gait Training in Neurorehabilitation**

Matthew Vnenchak, PT, MS, NCS, Physical Therapist, MossRehab

**C: Chronic Pain and Central Sensitization**

Leonard Kamen, DO, Clinical Director, MossRehab Outpatient Center

**5:30 to 7:00 p.m. Evening Tour of MossRehab**

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: 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 non-surgical 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: 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 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

**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: Let Me Hand It To You: The Upper Motor Neuron Hand**

Nathaniel Mayer, MD, Director, Motor Control Analysis Laboratory, MossRehab

**B: Using Bluetooth to Facilitate Single Switch Access in the Tetraplegic Population**

Amanda Quinke, MS, OTR/L, Occupational Therapist, MossRehab

**C: After Concussion: Impact of Multiple Injuries and Long-term Consequences**

Max Shmidheiser, PsyD, ABPP-CN, Clinical Neuropsychologist, MossRehab

**Disclosures:** Speaker disclosures can be found at [www.MossRehabConference.com](http://www.MossRehabConference.com).

## Registration

Registration and payment can be made online at [MossRehabConference.com](http://MossRehabConference.com); visit [Eventbrite.com](http://Eventbrite.com) and search for **Optimizing Neurologic Rehabilitation Outcomes: Pushing Practice Forward**; mailed to the address at right; or faxed along with this form to Sheila Wallace at 215-663-6984 by **Wednesday, October 28, 2015**.

Name: \_\_\_\_\_

Credentials: \_\_\_\_\_ Discipline: \_\_\_\_\_

License # (PT & OT) or ASHA #: \_\_\_\_\_

Organization: \_\_\_\_\_ Job Title: \_\_\_\_\_

Home Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

Do you have any special needs of which we should be aware? \_\_\_\_\_

**Please check:** I am interested in attending the Wine and Cheese Tour of MossRehab on Friday, November 6 from 5:30 to 7:00 p.m.  **YES**  **NO**

**Breakout Sessions:** Please select the sessions you wish to attend from any of the six Mini Courses offered below:

### Friday, November 6

#### 1:15 to 2:15 PM – Session 1 (select one)

- A – Mini Course I:** Process Improvement and Quality Indicators: Preparing for Outcome Based Reimbursement
- B – Mini Course II:** Dosing in Rehabilitation: What are the Necessary Ingredients?
- C – Mini Course III:** Your Body in My Brain: Mirror Neurons, Action Prediction, and Body Representations in Rehabilitation

#### 2:15 to 3:15 PM – Session 2 (select one)

- A – Mini Course I:** Round Table Discussion: The Process of Performance Improvement Related to Quality Measures
- B – Mini Course II:** Application of Upper Extremity Rehabilitation Using Robotics
- C – Mini Course III:** Mirror Therapy in Neurorehabilitation

#### 3:30 to 4:30 PM – Session 3 (select one)

- A - Mini Course I:** Building the Care Continuum: Facilitating Team Communication
- B - Mini Course II:** Robotic Gait Training in Neurorehabilitation
- C - Mini Course III:** Chronic Pain and Central Sensitization

### Saturday, November 6

#### 10:00 to 11:00 AM – Session 4 (select one)

- A – Mini Course IV:** The Role of Orthopedic Surgery in Neurologic Populations
- B – Mini Course V:** Using Technology to Support Cognition and Emotional Well-Being
- C – Mini Course VI:** Current Concepts in the Diagnosis and Early Management of Mild TBIs

#### 11:00 AM to 12:00 PM – Session 5 (select one)

- A – Mini Course IV:** Economic Impact of Spasticity and Its Treatment
- B – Mini Course V:** Communication Technology for Individuals with Communication Impairment – Use of Personal Devices
- C – Mini Course VI:** Similarities and Differences between Sports and Non-Sports Injuries

#### 12:00 to 1:00 PM- Session 6 (select one)

- A – Mini Course IV:** Let Me Hand it to You: The Upper Motor Neuron Hand
- B – Mini Course V:** Using Bluetooth to Facilitate Single Switch Access in the Tetraplegic Population
- C – Mini Course VI:** After Concussion: Impact of Multiple Injuries and Long-term Consequences

#### Fee: \$150

Discounts offered to MossRehab/Einstein Per Diem Employees and Affiliated Clinic Employees

Payment by check should be paid to the order of MossRehab.

#### Please send your payment to:

**MossRehab**  
**Attention: Sheila Wallace**  
**Education Event Coordinator**  
**Room 303 West**  
**60 Township Line Road**  
**Elkins Park, PA 19027**

#### Cancellation Policy

For cancellations up to seven days prior to the course, there is a \$50 non-refundable administrative processing fee. For cancellations less than seven days prior to the course, there are no refunds.

Full policy will be disclosed with course confirmation.

#### Important Information

- Advanced registration is required due to space limitations. Registration is on a first-come, first-served basis.
- Since at times it is difficult to regulate the temperature in the building, **please dress accordingly**.
- Handouts will be emailed a few days before the conference. In an effort to keep the cost of our continuing education competitive and to be environmentally responsible, we do not print handouts. Please confirm your correct email address when registering.
- MossRehab/Einstein employees will automatically be placed on a waiting list and notified by email if space is available.
- For questions about the program or registration, please contact Sheila Wallace, [WallacSh@einstein.edu](mailto:WallacSh@einstein.edu) or by phone **215-663-6457**.



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For a complete list of MossRehab  
continuing education conferences, go to  
[www.MossRehabConference.com](http://www.MossRehabConference.com).

