REGISTRATION FORM

Name_____
Title_____
Organization_____
Address _____
City_____
State_____Zip_____
Phone_____
Email_____

Tuition

☐ **$80.00 Professional fee**

☐ **$40.00 Student fee**

Please send registration and check to:

Cardinal Hill Rehabilitation Hospital
Attn: Center of Learning
2050 Versailles Road
Lexington, KY 40504

Please fax credit card registrations to (859) 367-7188.

☐Visa ☐ MasterCard

☐ Amer. Express ☐ Other_____

Card # _____

Exp.Date_____

Name on Card_____
(Please print clearly)

Signature_____

CEU INFORMATION

CEU approval is pending for PT and PTA

5.50 hours

LOCATION

Cardinal Hill Rehabilitation Hospital
2050 Versailles Road
Lexington, KY
(859) 367-7189
www.cardinalhill.org

CONFIRMATION

Upon receipt of your registration, confirmation will be emailed to you to provide more information including area hotels and travel directions. Please contact us at (859) 367-7189 if you have special needs that we can address to make your participation more meaningful.

REFUND

Participants who cancel their registration in writing or email up until the week of the course will receive a full refund less a $25 processing fee. There will be no refund after the course has been completed.

In the event the program is cancelled, sponsors do not assume responsibility for any expense other than tuition fee.

Advances in Gait Training and Neuro-Rehab

October 26, 2013

Sponsored by

Cardinal Hill Rehabilitation Hospital

Hocoma

COURSE INFORMATION

This course will focus on the role of advanced therapeutic technologies and robotics for the improvement of gait for neurologically impaired patients with a focus on CVA, SCI and CP patients. Basic neuro-rehabilitation principles such as neuro-plasticity and motor control as it a pplies to gait dysfunction and training will be covered. General topics of gait dysfunction and treatment will be discussed and the latest research on treatment protocols, training, clinical outcomes and robotic technology implementation will be reviewed. Attendees will have a chance to participate in live workshops in which robotic technologies will be demonstrated and implemented on patients.

OBJECTIVES

- Recognize key gait motor dysfunctions, pathologies and impairments of neurologically involved patients.
- Determine the key challenges of locomotive training on patients with neurological dysfunction.
- Discuss the general principle of neuroplasticity and cortical reorganization in repetitive locomotive training.
- Review the role of new technologies such as robotics for gait training and locomotive therapy.
- Appraise locomotive training treatment protocols, parameters and dosage.
- Describe the general function of advanced technologies for gait training for patients with neurological dysfunction,
- Assess research and evidenced based practice as it relates to locomotive training and robotics.

AGENDA

08:00 – 08:30am Registration and Breakfast

08:30 – 09:00am Welcome & Introductory Remarks

09:00 – 10:30am General Principles of Neuro plasticity and Motor Control in the Recovery of Gait

10:30 – 10:45am Break

10:45 – 12:00pm Implementation of Advanced Technology for Gait Recovery in Neuro Rehabilitation

12:00 – 1:00pm Lunch

1:15 – 2:15pm Novel Treatment Protocols for Gait Recovery & Research

2:15 – 2:30pm Break

2:30 – 4:00pm Robotics Workshop

- General Overview of a Robotic System Lokomat (hardware, software, etc)
- Review of Clinical Parameters and Protocols
- Implementation of Virtual Reality / Augmented Performance Feedback
- Robotics and Spasticity Management

4:00pm Evalsl/Adjourn

SPEAKERS

Jennifer Schmit DPT, PhD, a pediatric physical therapist, directs the research program in Occupational and Physical Therapy at Cincinnati Children's Hospital Medical Center. She studies motor control in movement-disordered populations and is developing a program of research in the Division with an emphasis on intervention in Cerebral Palsy. Dr. Schmit serves on a number of relevant committees, including clinical specialization in CP and evidence-based practice on partial body weight supported treadmill training (e.g., robotic gait training). She manages the pediatric Lokomat® program at Cincinnati Children's and serves as Hocoma's only pediatric clinical instructor in the United States for Lokomat® facilities and institutions with newly acquired equipment.

Lumy Sawaki, MD, PhD is the Cardinal Hill Endowed Scholar in Stroke and Spinal Cord Injury Rehabilitation.. Her research foundation focuses on stroke and spinal cord rehabilitation and have received related grant awards from the American Heart Association, the Dana Foundation and the NIH. She has a special interest in neuroplasticity and the development of novel rehabilitative strategies to enhance functional motor recovery after stroke, brain injury, and spinal cord. Dr. Sawaki utilizes cutting-edge techniques of neurological stimulation, neurophysiological measurement and rehabilitation to support return to functional independence. She and her multi-disciplinary team, have a strong commitment to finding new ways to counteract devastating effects of neurological impairments.