

Program Overview:

Locomotor training, an activity-based therapy, provides task-specific practice of standing and walking by optimizing the sensory cues to generate improved motor activity for mobility, standing, and walking after neurologic injury. Locomotor retraining is provided on a treadmill using partial body weight support and manual facilitation. Improved neuromuscular capacity is then transferred to overground skills that are integrated into the home and community.

Participants will learn the scientific basis, hands-on skills, clinical decision-making, and administrative and management strategies for providing locomotor training in a three and one-half day intense course.

Course Schedule:

Day 1

Registration: 7:30-8:00 AM

Course Program: 8:00 AM–5:00 PM

All participants will attend lectures that will focus on developing an understanding of the basic science and guiding principles of activity-based therapy, with an emphasis on locomotor training. All participants will be introduced to the skills and clinical-decision-making required to deliver locomotor training. Considerations for implementing activity-based therapy into rehabilitation programs will be discussed.

Days 2-4

Course Program Day 2: 8:00 AM–5:00 PM

Course Program Day 3: 8:00 AM -6:00 PM

Course Program Day 4: 8:00 AM-12:00 PM

Clinical team members will participate in intensive skill development of locomotor training techniques. This includes patient evaluation and progression using a body weight support treadmill system, locomotor training, overground assessment and progression, and community ambulation and activity training.

Course Objectives

This intensive three and one-half day course combines didactic teaching and practical skills development with hands on treatment of individuals with spinal cord injury. At the completion of this program, participants will:

1. Demonstrate a working knowledge of the basic science related to activity-based therapy.
2. Demonstrate a working knowledge of the guiding principles of activity-based therapy, with an emphasis on locomotor training on the treadmill, over ground, and in the community.
3. Identify and incorporate the principles of locomotor training during patient evaluation and progression.
4. Demonstrate knowledge of trainer positions and the roles of each trainer during locomotor training.
5. Demonstrate introductory level hands on skills as a trainer of locomotor training (in preparation for continued practice and skill development upon return to own clinical site).
6. Describe the resources necessary to establish an effective and efficient activity-based therapy program, with an emphasis on locomotor training.
7. Discuss how to effectively integrate locomotor training into an existing comprehensive therapy program.

Target Audience:

Program directors, physical therapists, physical therapist assistants, and rehab technicians.

Translation of learning to the therapists' and technicians' home clinical environment is most effective if teams of therapists/technicians all participate in the training. Each clinic is strongly encouraged to send multiple staff members for the most beneficial training outcome. "Hands-on" skills development requires significant physical participation by all therapists and technicians.

Instructors:

Senior Course Instructor* will be one of the following individuals:

- Susan Harkema, PhD, Director NeuroRecovery Network; Department of Neurological Surgery, University of Louisville; Rehabilitation Research Director Frazier Rehabilitation Institute, Louisville, KY. Dr. Harkema developed the Locomotor Training Program based on knowledge gained from her research and collaborations during the past 16 years. These are enabling her to translate the latest scientific findings into clinical rehabilitative strategies.

- Andrea Behrman, PhD, PT, Co-Director NeuroRecovery Network; Associate Professor, Department of Physical Therapy, University of Florida. Dr. Behrman, a physical therapist, has specialized in adult neuro-rehabilitation. She is committed to the development of best practice of walking recovery based on principles of activity-dependent plasticity and the intrinsic biology of the nervous system.

- Elizabeth Ardolino, PhD, PT, Co-Director NeuroRecovery Network; Physical Therapist, Riverkids Home Health, Austin, Texas. Dr. Ardolino specializes in utilizing activity-based therapy in the adult and pediatric neuro-populations and was formerly the clinical supervisor of the NRN locomotor training clinic at Magee Rehabilitation. Her research focuses on outcome measurement development and the recovery of balance.

NeuroRecovery Network Clinic Team:

The director and clinical team members from each site will be serving as primary instructors. The Locomotor Training teams at each site are comprised of specialty trained and experienced physical therapists and rehab technicians, presently serving a variety of neurologic patient populations.

*Subject to change.

Dates & Site Information:

February 23-26, 2012

Dual Hosts Frazier Rehabilitation Institute &
Ohio State University Medical Center
**Training held at Frazier Rehabilitation
Institute, Louisville, KY.**

Mail registration form to: Ann Krull
220 Abraham Flexner Way Louisville, KY 40202
502-582-7673 Ann.Krull@jhsnh.org
Online registration: www.jhsnh.org/locomotor2012

May 17-20, 2012

Dual Hosts Kessler Institute for Rehabilitation &
The Center for Rehabilitation at Boston Medical Center
**Training held at Kessler Institute for
Rehabilitation, West Orange, NJ.**

Mail registration form to: Milda Woods
1199 Pleasant Valley Way West Orange, NJ 07052
973-324-3569 mwoods@kesslerfoundation.org
Jane Wierbicky, RN – 617-638-7316
Jane.Wierbicky@bmc.org

June 21-24, 2012

Shepherd Center - Atlanta, GA.
Mail registration form to: Diane Johnston, MSPT
2020 Peachtree Rd. NW, Atlanta, GA 30309
404-367-1386 diane_johnston@shepherd.org

October 18-21, 2012

Magee Rehabilitation Hospital - Philadelphia, PA.
Mail registration form to: Colleen Johnson, PT, NCS
1513 Race St. Philadelphia, PA 19102
215-587-3116 cjohnson@mageerehab.org

November 1-4, 2012

The Institute for Rehabilitation &
Research - Houston, TX.
Mail registration form to: Rhonda Abbott, PT
1333 Moursund Houston, TX 77030
713-797-5709 Rhonda.Abbott@memorialhermann.org

Either site specific state physical therapy
board continuing education units or contact
hours awarded from the University of Florida
will be provided for each course.

Registration Form:

*Locomotor Training Principles and Practice:
An Activity-Based Therapy Course*

Location and Date You Plan to Attend:

Name _____

Title (PT, Tech, etc.) _____

Organization _____

Mailing Address _____

City/State/Zip _____

Daytime Phone _____

Email Address _____

Work Setting _____

Registration Fees: # of Persons

Day 1 only: \$125 per person _____

Day 1-4: \$1,045 per person _____
includes 1 copy of the book *Locomotor Training:
Principles & Practice*

Team of 3-5 \$3,135 _____
includes 3 copies of the book *Locomotor Training:
Principles & Practice (add'l copies \$50 each)*

Send me ___ extra copies of the book at \$50 each

**Please make checks payable to the facility
where you will be attending this course.**

Amount Enclosed: \$ _____

Cancellation of registration within 2 weeks of the start of
the course will result in forfeit of registration fee. All other
cancellations will be assessed 25% of registration fee.

Registration is NOT transferable between
NeuroRecovery Network Facilities.



**Locomotor Training
Principles and Practice
an Activity-Based Therapy Course**