

Registration Form

Fax, email or mail this completed form with your payment. **Course is limited to 30 participants.** We will email your receipt as confirmation.

Pedscourses@gmail.com

Fax: 845-362-7788

Registration fee: *Early registration before July 14, 2018: \$275 (includes lunch)*
After July 14th \$325 (includes lunch)

Contact Info

Name: _____

Profession: _____

Facility: _____

Address: _____

Phone (cell): _____

Email: _____

PPOT reserves the right to cancel any course due to insufficient registration or extenuating circumstances. Please do not make non-refundable travel arrangements until you have called us and received confirmation that the course will be held. We are not responsible for any expenses incurred by participants if the course must be cancelled.

I have read the refund policy and understand

Billing/Payment

Same as "Contact" address

Name: _____

Address: _____

Phone: _____

Visa/Mastercard # _____

Exp date: _____ Security Code _____

Signature: _____

OR Check # _____ enclosed (payable to Pediatric Physical & Occupational Therapy, PLLC)

Developmental Orthopedics of the Trunk and Lower Extremities

Part 2- LAB SESSION
July 29, 2018

**Please see brochure for
further information!**

Instructor Bio– Beverly Cusick, PT, MS

Beverly (Billi) received her BS in PT in 1972 at Northeastern University, summa cum laude. Received her MS in Clinical and College Teaching for Allied Health Professionals– University of Kentucky.

She has worked at Spaulding Rehabilitation, UCP Center, Kluge Center, PT Education faculty at MUSC, Cardinal Hill Hospital Head Trauma & Pediatrics Team, Children's Hospital Stanford CA and has been in private practice for 23 years.

Billi has published quite a few articles, textbook chapters, articles for journals, conference proceedings and professional newsletters, including a series on Pediatric Orthopedics for NDTA Network.

Billi has been a guest lecturer for annual conferences of the APTA, the NDTA and American Academy of CP and Developmental Medicine in the U.S. and Canada, the British Association of Prosthetists and Orthotists and the American Academy of Orthotics and Prosthetics.

Instructor of more than 400 courses by invitation in 18 countries.

Associate Professor for Rocky Mountain University for Health Professions-Pediatric Program .

Since 1993, Billi has been consulting and practicing privately in or near Telluride, CO. There she maintains a private practice, devoting most of her professional effort to generating literature and educational materials, to teaching and to developing therapeutic products, including her invention,

Cancellation Policy

If after enrolling you cannot attend, you may send another qualified professional clinician in your place. However, neither Progressive Gaitways nor PPOT will be responsible for any financial arrangements, refunds or exchanges between you and your replacement.

One and Two day Courses: Tuition, less \$50 administration fee, is refundable with a written request at least 21 days prior to the start of the course. No refund is possible less than 21 days prior to the start of the course.



Developmental Orthopedics of the Trunk and Lower Extremities



July 28, 2018

Instructor:
Beverly (Billi) Cusick, PT, MS

Location
Pediatric Physical & Occupational Therapy, PLLC
873 Route 45 Suite 107
New City, NY 10956
(Corner of Route 45 and New Hempstead Road)
(Exit 11 off of the Palisades Parkway)

Developmental Orthopedics of the Trunk & Lower Extremity

Course Description

This program features an overview of somato-sensory function and development, the role of postural control in movement acquisition and physiologic adaptation, skeletal modeling mechanisms and influences, and ideal and pathomechanical features of orthopedic development of the trunk and lower extremity.

Normal developmental events are related to:

- The operations of the somatosensory system
- Postural control acquisition and body weight management
- Biomechanical influences of full-term gestation
- Functioning postural and limb joint alignment
- Elements of Sahrman's approach to analysis of the Movement System
- The process of physiologic adaptation of bone, soft tissues, and the sensorimotor cortex

Deformity development is discussed in relation to:

- Spasticity
- Ligament laxity
- Premature birth
- Movement strategies in the presence of inadequate postural control and innate righting reactions
- Use history in postural malalignment
- Skeletal modeling errors

Management strategies are related to:

- Body weight distribution onto the functioning base of support
- Functioning joint alignment and related muscle lengths
- Weakness
- Skeletal modeling potential
- Musculoskeletal assessment findings.

Instructor describes selected musculoskeletal assessments and the implications of their findings, and brings them to therapeutic and orthotic management planning designed to optimize bone and joint development via movement. The relevance of the findings obtained in them musculoskeletal assess-

Course Objectives

- Describe these features of normal, postnatal immaturity of skeletal structure and alignment: thoracolumbar kyphosis, hip flexion contracture, increased femoral anteversion, increased femoral antetorsion, coxa valga, genu varum, and medial thigh-foot angle.
- Distinguish between strain and load, and apply this distinction to the skeletal modeling process and to modeling potential in an aging child.
- Describe how the normal neonatal hip flexion contracture influences the early modeling of the spine in the sagittal plane.
- Relate ideal, full-term neonatal posture and lower limb joint alignment to postural control acquisition in prone, supine, sitting, and standing positions.
- Relate ideal, full-term neonatal posture and lower limb joint alignment to the acquisition of skilled transitions between quadruped and sitting positions.
- Describe the typical progression from postural control acquisition to movement acquisition in sequential play postures, and relate this progression to neuromotor re-education.
- Differentiate between femoral anteversion and femoral antetorsion, and explain the relevance of the distinction to the safe use of orthotic interventions.
- Describe the anatomical components of the thigh-foot angle and its typical developmental progression.
- Explain the relationship between frontal-plane weight shift skill, the swing limb torque generator in gait, and long bone torsion reduction in the lower extremities.

Level: Intermediate Level

Pre-course readings assigned.

Target Audience

Rehabilitation team members including orthotists, physical therapists, occupational therapists, physical medicine and rehabilitation physicians and pediatric orthopedists.

Pediatric Physical & Occupational Therapy of Hudson Valley, PLLC is recognized by NYSED's State Board for PT as an approved provider of PT and PTA continuing education. **NJ CEU's Pending.
7.25 Contact Hours will be awarded

Program Schedule

Start	Topics	
8:00	Register	00
8:30	An Overview of Developmental Changes in the Spine and Lower Extremities	.25
8:45	Strain and Load: Shaping Bones and Joints with Skeletal Modeling	.50
9:15	Proximal Before Distal: The Contributions of Postural Control Acquisition and Maintenance to Orthopedic Development	.75
10:00	Break– 15 min	
10:15	Biomechanical Advantages of Full Term Gestation in Orthopedic Development	.50
10:45	Contributions of Weight Shifting & Walking to Lower Limb Skeletal Modeling	.50
11:15	Pelvic & Femoral Modeling in the Transverse Plane & Related Assessments	.75
12:00	Lunch (provided)	00
1:00	The Modified Ryder's Test for Femoral Torsion- Clinical Implications	.25
1:15	The Knee, Leg, & Foot in the Transverse Plane – Clinical Implications	.75
2:00	Break– 15 min	00
2:15	Ideal Lower Limb Soft Tissue Extensibility– Evidence of Use History	.75
3:00	Lower Extremity Contracture Development in Children with Diplegic CP	.50
3:30	Break– 15 min	00
3:45	Movement System Analysis: Implications for Optimizing Orthopedic Development	.50
4:15	Videotaped Cases	1.00
5:15	Questions & Discussion	.25
5:30	Adjourn	Didactic Contact Hours 7.25