

Registration Form

Email or mail this completed form with your payment. **Course is limited to 25 participants.** We will email your receipt as confirmation.

Registration Fee
\$400 before 11/30/19
\$450 after 11/30/19

Contact Info

Name: _____
Profession: _____
Facility: _____
Address: _____

Phone (cell): _____
Email: _____

Billing/Contact Info

Billing Address for Credit Card: _____

Visa/Master Card #: _____
Exp. Date: _____ Security Code: _____
Sign: _____

Please make checks payable to:
Weeefun Therapy

Weeefun Therapy 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 canceled.

I have read the cancellation and refund policy and understand.

Billing/Payment

Mail to:
Fiona Rea
Weeefun Therapy
724 E. Foothill Blvd.
San Dimas, CA 91773

Questions? Contact Fiona Rea,
fiona@weeefun.com or ph. 626.841.1115

Developmental Orthopedics

January 10th & 11th, 2020

**Target Audience:
Physical & Occupational
Therapists in Developmental
Pediatrics**

Instructor Bio

Beverly (Billi) graduated with her BS in PT in 1972 at Northeastern University, in Boston, and after 9 years on staff at a pediatric rehabilitation center, she taught college in Charleston, SC and later received her MS in Clinical and College Teaching for Allied Health Professionals at the University of Kentucky. Billi has published several articles, textbooks chapters, conference proceedings and professional newsletters, including a series on Pediatric Orthopedics for NDTA Network and Developmental Orthopedics for the APTA. Billi has lectured at annual conferences of the APTA, the NDTA, the American Academy of CP and Developmental Medicine in the U.S. and Canada, the American Academy of Orthotics and Prosthetics, the American Orthotics and Prosthetics Association, and the British Association of Prosthetists and Orthotists. To date, Billi has presented more than 460 courses by invitation in 19 countries. She is an Associate Professor for the Pediatric Program at Rocky Mountain University for Health Professions. Since 1993, Billi has been consulting worldwide and practicing privately in or near Telluride, CO. There she devotes most of her nonclinical effort to generating literature and educational materials for the Cusick Center for Learning and for her courses in pediatric rehabilitation, and to developing therapeutic products, including precision calipers and her invention, TheraTogs™ orthotic systems.

Cancellation Policy

If after enrolling you cannot attend, you may send another qualified professional clinician in your place. However, Weeefun Therapy will not be responsible for any financial arrangements, refunds or exchanges between you and your replacement. If you are unable to arrange a qualified replacement, the cancellation fee is an \$80 administration fee with the balance of tuition refunded upon sponsor's receipt of a written request 30 or more days prior to the start of the course. Tuition is nonrefundable less than 30 days prior to the January 10, 2020.



Weeefun Therapy for Children

Developmental Orthopedics of the Trunk and Lower Extremities



January 10th & 11th, 2020

**Instructor:
Beverly (Billi) Cusick, PT, MS**

**At:
Weeefun Therapy for Children
724 E. Foothill Blvd
San Dimas, CA 91773**

Developmental Orthopedics of the Trunk & Lower Extremity

Course Description

This program features an overview of somatosensory 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, including the foot
- 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.

Course Objectives

- Describe these features of typical, postnatal immaturity of bone structure and alignment: thoraco-lumbar kyphosis, hip flexion contracture, increased femoral anteversion, increased femoral antetorsion, coxa valga, genu varum, and medial leg rotation.
- 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.
- Relate ideal, full-term neonatal lower limb joint alignment to postural control acquisition in prone, supine, sitting, and standing positions.
- Relate ideal, full-term neonatal 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 the common, 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.
- Relate weight shifting history to hip joint development.
- Relate foot segment loading to lower limb alignment and the upright drive.

Level: Intermediate. Pre-course readings assigned.

Target Audience: Physical Therapists, Occupational Therapists, PTA's, Cota's, and Orthotists.

14 Hours of Continuing Education Credits (1-4 PT CEU's. CER # 19-30636-2)

This course has been approved for CEUs by CERS an approval agency for the California Board of Physical Therapy.

DEVELOPMENTAL ORTHOPEDICS PROGRAM SCHEDULE

St	Topic - Day 1	HR
8:45	Register and settle in	--
9:00	An Overview of Developmental Changes in the Spine and Lower Extremities	.50
9:30	Strain and Load: Shaping Bones and Joints w/Skeletal Modeling	1.00
11:00	Proximal Before Distal: The Contributions of Postural Control Acquisition & Maintenance to Orthopedic & Neuromotor Development	1.25
12:15	Lunch	
1:30	Biomechanical Advantages of Full-Term Gestation	1.25
3:00	Body Weight Distribution in Neuromotor & Orthopedic Development	1.00
4:00	Ideal Lower Limb Soft-Tissue Extensibility - Evidence of Use History	.50
4:45	Ideal Lower Limb Soft-Tissue Extensibility	.50
5:00	Role of Postural Control Deficits In Deformity Development	.75
5:45	Questions and Discussion	.25
6:00	Adjourn Didactic Contact Hours	7.00

St	Topic - Day 2	HR
8:15	Clarifying Femoral Torsion and Version	.50
8:45	Developmental Changes in the Pelvis & Femur in the Transverse Plane	1.00
10:15	Developmental Changes in "Hip" Rotation ROM Clinical Implications	.50
10:45	Assessing "Hip" (ROM)	.50
11:15	Assessing Femoral Torsion	.75
12:00	Lunch	
1:00	Clin.Implications of Transverse Plane Hip and Femur Findings	.75
1:45	Videotaped Case	.50
2:30	Devel Changes in the Knee, Leg & Foot in the Transverse Plane	1.00
3:45	Clinical Implications-Transverse Plane Knee & Leg Findings	.50
4:15	Associating Foot Alignment with Orthopedic Development in Diplegic CP	.75
5:00	Questions and Discussion	.25
5:15	Adjourn Didactic Contact Hours	7.00