

Children's Brains, Neuroplasticity, and Pediatric Intervention:

What's the Evidence?

Patricia Montgomery, PhD, PT, FAPTA

Faculty

Patricia C. Montgomery, PhD, PT, FAPTA received a BS degree in physical therapy from the University of Oklahoma, an MS in educational psychology, and PhD in child psychology from the University of Minnesota. Dr. Montgomery is an NDT trained therapist and Faculty Emeritus of Sensory Integration International. She has taught in several physical therapy programs and is the author of several books and articles. Dr. Montgomery has worked in a hospital setting, a NICU, a public school, and had a pediatric private practice. She is a past president of the MN Chapter, served on the Board of Directors of the American Physical Therapy Association, and is a Fellow of APTA.

Financial: Patricia Montgomery receives a speaking fee from Education Resources, Inc.

Non-Financial: She has no non-financial relationships to disclose.

"Patricia is an outstanding speaker and does a wonderful job portraying and explaining new and complicated concepts. I have benefited greatly from this course, especially because it forces you to reevaluate the thought process of PT and how you look at each patient." - J. Ward

About this Course

This course is designed to present the most recent empirical evidence regarding efficacy of specific therapy-related interventions. Emphasis will be on strategies for children with cerebral palsy and other neurologic-based diagnoses. Videotapes of treatment sessions will be used to illustrate major points and to present longitudinal case studies. Recent information on neuroplasticity and motor learning principles as related to the developing child is included and implications for the most effective clinical interventions are suggested. Treatment strategies based on current knowledge of neuroplasticity, such as constraint-induced therapy, mirror therapy and treadmill training, are emphasized. The information presented should be immediately applicable to the organization of clinical treatment sessions and home, school, and community-based programs for children with a variety of developmental disabilities.

Objectives

- ① Describe critical elements that support brain plasticity
- ① Summarize major processes in normal brain development
- ① Link developmental disabilities associated with impaired brain development
- ① Compare generalized intervention strategies to specific function-based activities
- ① Apply principles of motor learning to treatment sessions
- ① Compare differing viewpoints on the role of muscle tone in motor control
- ① Discuss "critical periods" for CNS sensory system development in children
- ① Review research regarding perceptual-motor development in typically developing children
- ① Discuss rationale for early gait training
- ① Analyze varying environments in relation to "affordances" for motor behavior

Audience

Principles discussed in this course are applicable to children of all ages as well as adults. Treatment strategies presented are designed for the pediatric population. Course is designed primarily for PTs, OTs, PTAAs and COTAs and may be of interest to speech clinicians and other health-care and education professionals.

Schedule – Day 1

7:30-8:00	Registration/Continental Breakfast
8:00-9:30	Evidence-Based Practice: What We Do and How We Do It Predict and Manage Care? Video: <ul style="list-style-type: none"> • Spastic Diplegia
9:30-9:45	Break
9:45-10:45	Update: Neuroplasticity How can therapy affect the brain? Video: <ul style="list-style-type: none"> • Longitudinal Case Study (Ataxia)
10:45-11:45	Constraint-Induced Therapy and Mirror Therapy
11:45-12:45	Lunch (on your own)
12:45-1:30	Motor Control and "Affordances" Is "hands off" therapy effective? Video: <ul style="list-style-type: none"> • Community treatment session Spastic Diplegia
1:30-2:30	Motor Learning: Clinical Issues in Treatment Sessions: What's best practice? Video: Home-based treatment sessions Traumatic Brain Injury (TBI)
2:30-2:45	Break
2:45-3:15	Role of Cognition and Perception How does cognition impact motor behavior?
3:15-5:00	Perceptual-Motor Development Can we Help Children Develop Perceptual-Motor Skills?

Schedule – Day 2

7:30-8:00	Continental Breakfast
8:00-8:45	Neurogenesis: Normal and Abnormal development
8:45-9:30	Developmental Coordination Disorder Videos: <ul style="list-style-type: none"> • Treatment Session of Child with DCD • Evaluation: Non-Verbal Child
9:30-9:45	Break
9:45-10:45	The "Smart" Spinal Cord Can we "train" the spinal cord? Videos: <ul style="list-style-type: none"> • Idiopathic Toe Walkers • Case Study-Child with Spastic Quadriplegia • Developing Ambulation Skills
10:45-11:45	Review: Treadmill Intervention
11:45-12:45	Lunch (on your own)
12:45-1:45	Postural Control How do we evaluate and promote postural control? Video: <ul style="list-style-type: none"> • Longitudinal Study of Child with Spastic Quadriplegia Cerebral Palsy
1:45-2:30	"Muscle Tone" What is it? Can we alter muscle tone? Video: <ul style="list-style-type: none"> • Hypotonia
2:30-2:45	Break
2:45-4:00	Empirical Evidence Regarding Effects of Intervention: Issues of frequency and duration. Where Do We Go from Here?

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Credits

This course meets the criteria for 14 contact hours (1.4 CEUs).

Application has been made to the FL Physical Therapy Association for 16 .5 continuing education hours.

Approved provider by the FL Board of Occupational Therapy for 16.5 continuing education courses – CE Broker



Approved provider of continuing education by the American Occupational Therapy Association #3043, for 14 contact hours - Intermediate Level Occupational Therapy Process: assessment, intervention. The assignment of AOTA CEUs does not imply endorsement of specific course content, products or clinical procedures by AOTA.

NBCOT professional development provider – 14 PDUs

Please contact us with any special needs requests:
info@educationresourcesinc.com or 508-359-6533

Locations and Dates - 2019

October 12-13 Miami, FL Nicklaus Children's Hospital CHQ Training Center

Testimonials

"This was an extremely informational course that was well organized and helpful for evaluating and treating children. It helped me to realize different components of movements that I should look for in an evaluation." - N. DiNicola

"Patricia is one of the best presenters I have heard. Clearly knows her material and also has a wide background in various clinical settings. Very applicable material." - A. Veenis



\$435 fee. Deadline for registration is 3 weeks prior to course. Registration will be accepted after deadline on a space available basis. Cancellation accepted up until 2 weeks before course, minus an administration fee of \$75. NO REFUNDS WITHIN 2 WEEKS OF COURSE.

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Limited enrollment. We encourage you to register online!

Children's Brains, Neuroplasticity and Pediatric Intervention/Montgomery

Oct/FL

Course Registration Form

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Address: _____

City: _____ State: _____ Zip Code: _____

Home Phone: _____ Work Phone: _____

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Needed in the event of an emergency scheduling change

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