

Registration

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License #		
Home Address		
City	State	Zip
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Primary treatment domain:	Adult	Peds
Visa or MasterCard		
Exp. Date	3 digit sec. code	
Course Location		
I am aware of the cancellation policy		
Signature X		

Tuition \$165

We accept check, Visa or MC.

Make Checks Payable to:

Mobility Research
PO Box 3141
Tempe, AZ 85280
800-332-9255 ext. 7103
education@litegait.com

*Late registration begins 10 days prior to the scheduled date of the course. Registrations received less than 10 days prior to the course will be charged a \$30 late fee.

About the Instructor

Denise Begnoche, PT, DPT has more than 25 years of clinical experience in pediatric physical therapy. Her areas of interest include gait development in children with cerebral palsy, publishing and presenting on this and related topics. Interested in integrating theory and empirical evidence into pediatric clinical practice, Denise is a doctoral student in Rehabilitation Sciences at Drexel University in Philadelphia.

Cancellation Policy

Cancellations received at least two weeks prior to a course will receive a 50% refund or a certificate to use for the full value for up to 2 years. **Cancellations received less than 2 weeks before a course will be issued a certificate only.**

About Our Company

Mobility Research is a company of rehabilitation professionals dedicated to the transfer of the latest technology and research knowledge to the rehabilitation arena. We are a team of clinicians, researchers, educators, and engineers dedicated to providing products, education, and rehabilitation solutions for pediatric and adult populations with motor control related disabilities.

Mobility Research Education Department is pleased to present:

Designed for Walking:

Developing Gait in Children with Cerebral Palsy and Neuromotor Disorders

Denise Begnoche, PT, DPT

Sacramento, California
Easter Seals - Pediatric Services
October 16, 2010

Eligible for .7 ceus or 7 contact hours

Course Description

Pediatric physical therapists have long sought strategies to improve functional ambulation in children with cerebral palsy and other neuromotor disorders. While a variety of treatments have evolved from NDT, dynamic systems approach, and intensive stretching, strengthening, and postural control programs, no clinical treatment methodology has been published that establishes positive measurable outcomes in the development of gait. More recent tools have emerged to expand treatment options including partial body weight treadmill training, (PBWTT), supportive garments, and assistive devices for gait. However, the challenge remains for the physical therapist to incorporate all of these techniques into an effective strategy for increasing independence in ambulation in children with cerebral palsy.

This course will review typical walking development in children, the components of bipedal locomotion in mature walking, and the necessary systems to support independent locomotion. A discussion of gait development in children with neuromotor disorders will focus on barriers in pre-ambulation skills, opportunities for impairment-based and activity-focused interventions, and optimal timing for establishing key components of gait. Using an assessment-interventions-outcomes treatment paradigm, therapeutic exercises and activities will be discussed to stimulate postural control, strength, and gait parameters in children with CP.

Additionally, the course instructor will discuss her pilot study, which measured the effects of a 4-week intensive physical therapy program on locomotor skills in children with spastic cerebral palsy. The study included progression of PBWTT and the use of GMFM, PEDI, pedographs, and timed walks to measure outcomes. Finally, through the use of videotape reviews and treatment demonstration, the instructor will review clinical decision-making skills to promote walking.

Course Schedule

7:30	Registration.
8:00	Development of Mature Walking – Understanding key components of gait.
9:15	Gait Studies – Typical Gait / Gait in children with CP.
10:00	Break.
10:15	Physical therapy using Dynamic Systems Approach.
11:15	Impairment Based and Activity Focused Interventions – Assessments, Interventions, Outcomes
12:00	Lunch (provided)
1:00	Treatment demonstration.
2:00	Assessments, Interventions, and Outcomes.
3:00	Predictive Preparation for Walking. Gait Training – PBWTT and over ground.
3:45	4-Week Intensive Physical Therapy with Treadmill Training – A Pilot Study
4:15	Clinical Decision Making to Promote Walking – Discussion
4:30	Adjourn

Course Objectives

- Understand key components of typical walking. Compare and contrast with the development of gait in children with neuromotor disorders.
- Discuss development of infant locomotion and opportunities for impairment-based and activity-focused interventions in a dynamic systems model.
- Apply assessment-interventions-outcomes strategy to advancing locomotor goals.
- Identify sensitive periods of readiness for motor learning and task-specific practice in stimulation of gait parameters.
- Discuss therapeutic exercises and activities to improve postural control, strength, and timing of muscle activation in developing gait.
- Utilize PBWTT in treatment to enhance stepping and walking skills.
- Demonstrate effective stimulation of gait training over ground in order to maximize potential for least supportive walking.
- Utilize outcomes measures such as GMFM, PEDI, and pedographs in pediatric physical therapy clinical decision-making.
- Discuss recreational community activities to promote ambulation skills.
- Support treatment approaches through current research evidence.