Get a Leg Up on Gait Analysis and Intervention: Applied Biomechanics as a Foundation for Clinical Decision Making

Saturday, June 29, 2013 • 8:00 am - 5:00 pm

*Due to space restrictions in our Motion Analysis Laboratory, class participation is limited. Register Now!*  
Register online at https://secure.jotform.us/form/30444881010141

Name: ______________________________________  
Specialty/Title: ________________________________  
Address: _______________________________________  
City: ____________________________________________  
State: __________________ Zip: ____________  
Phone: __________________ Alt. Phone ____________  
Email: _________________________________________  

Lunch Options (check one)  ❑ Vegetarian  ❑ Non-Vegetarian  ❑ None  
Special Requirements (dietary or otherwise): ____________  

CEU Credit: .75 CEU  

Tuition:  
Before June 20, 2013  
Physical Therapists: $185.00  
Physical Therapy Assistants: $160.00  
Physical Therapy Students: $50.00  

After June 20, 2013  
Physical Therapists: $205.00  
Physical Therapy Assistants: $180.00  
Physical Therapy Students: $65.00  

Payment:  
In order to assure your security, our online registration and payment systems are kept separate. If you register online, you will receive detailed payment instructions in your online registration confirmation. Or, you may detach and mail this registration form along with your payment to our office no later than June 20, 2013. Make checks payable to “Emory University.” You will receive confirmation of payment by email once your payment has been received. Send payments to the following address:

Jenifer Markley  
Assistant Director for Continuing Education  
Emory University PT School  
1441 Clifton Road, NE, Suite 210  
Atlanta, GA 30322

For More Information and to Register, VISIT:  
http://www.rehabmed.emory.edu/pt/ce/courses.shtml

Emory University School of Medicine  
Lecture Hall 110  
1648 Pierce Drive, NE  
Atlanta, GA 30322  
CEU Credit: .75 CEU
Description and Objectives

The purpose of this course is to refresh your memory and update your knowledge on the fundamental biomechanical principles governing human movement, and to apply this information while developing interventions for common gait compensations found within individuals who have sustained neurological or orthopedic injury. Attendees will be given the opportunity to experience biomechanical principles within Emory University's state-of-the-art Motion Analysis Laboratory and will work alongside Emory Faculty in determining interventions that could facilitate best alignment and normalized movement patterns during gait. The course will be led by Faculty from the Division of Physical Therapy at Emory University, each of whom have expertise in clinical biomechanics and gait analysis. They will provide unique examples of how these principles may be implemented to develop and quantitatively evaluate rehabilitation interventions related to gait in individuals with stroke, children with cerebral palsy, and individuals with foot & ankle pain. The course format will include lecture, hands-on lab sessions and clinical case discussions.

Upon completion of this course, the participants will be able to:

- Identify the basic biomechanical principles that underlie human posture and movement
- Summarize how a knowledge of basic gait biomechanics can help guide your clinical decision making
- Analyze how the redistribution of the body's center of mass influences joint moments for a series of static and dynamic movements
- Apply biomechanical principles to the rehabilitation of gait in individuals with stroke, children with cerebral palsy, and individuals with foot & ankle pain
- Apply biomechanical principles to interpret mechanisms underlying common gait compensations encountered in clinical practice

Program Agenda

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<th>Time</th>
<th>Session</th>
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<tr>
<td>8:00 AM - 8:30 AM</td>
<td>Registration and Breakfast</td>
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<tr>
<td>8:30 AM - 10:00 AM</td>
<td>Remembering what we have probably forgotten: A primer on Biomechanics and Human Gait</td>
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<tr>
<td>10:00 AM - 10:15 AM</td>
<td>Move into Group Sessions</td>
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<tr>
<td>10:15 AM - 12:30 PM</td>
<td>AM Group Sessions</td>
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<tr>
<td>12:30 PM – 1:15 PM</td>
<td>Lunch (provided on site)</td>
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<tr>
<td>1:15 PM - 4:45 PM</td>
<td>PM Group Sessions</td>
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<tr>
<td>4:45 PM – 5:00 PM</td>
<td>Post-test</td>
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Program Continued

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<th>Time</th>
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<tbody>
<tr>
<td>4:45 PM – 5:00 PM</td>
<td>Question and Answer Session</td>
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Faculty

Trisha Kesar, PT, PhD
Dr. Kesar is an Assistant Professor in the Division of Physical Therapy and is the Director of the Motions Lab at Emory University. Dr. Kesar is a rehabilitation researcher experienced with the use of functional electrical stimulation and treadmill training as rehabilitation interventions for people who have sustained a stroke.

Benjamin Rogozinski, PT, DPT
Dr. Rogozinski is an Assistant Professor in the Division of Physical Therapy at Emory University. Dr. Rogozinski is a clinician with expertise in the use of quantitative gait analysis in the development and assessment of intervention strategies to improve function and quality of movement in children with neuromuscular disorders.

Marie Johanson, PT, PhD, OCS
Dr. Johanson is an Associate Professor and the Associate Director in the Division of Physical Therapy at Emory University. Dr. Johanson's research focus is on the relationship between lower extremity impairments and gait kinetics/kinematics, and the effect of physical therapist interventions on lower extremity impairments and gait.

Kathleen Geist, PT, DPT, OCS, COMT
Dr. Geist is an Assistant Professor in the Division of Physical Therapy and is the Director of the Orthopedic Physical Therapy Residency Program at Emory University. She teaches the musculoskeletal content of the DPT program and works clinically within the faculty clinical practice.

Laura Zajac-Cox, PT, NCS
Laura Zajac-Cox is a clinical specialist in Neurorehabilitation, and she is an Instructor within the Division of Physical Therapy, as well as the Director of the Neurologic Physical Therapy Residency Program at Emory University. She teaches the adult neurorehabilitation course within the DPT program, and as an experienced clinician, she focuses on the rehabilitation of individuals who have sustained a stroke.