Tuition/Registration

<table>
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<th>Until May 1, 2017</th>
<th>After May 1, 2017</th>
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<tbody>
<tr>
<td>Course (June 8-10, 2017)</td>
<td>$1000</td>
<td>$1200</td>
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<td>Course Student Rate</td>
<td>$750</td>
<td>$850</td>
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| Optional Lab Demonstration (June 7, 2017) | $200 | $250

Tuition includes comprehensive electronic course materials*, hard copy of case data, breakfasts, lunches, snacks and the Welcome Reception.

Cancellations must be requested in writing prior to May 15, 2017.

*Laptops suggested (U.S. power outlets provided)

Travel & accommodation information will be sent upon receipt of registration.

For More Information

Call Alicia DeMaria at the Center for Motion Analysis at 860.837.9201 or e-mail: motion.analysis@connecticutchildrens.org

Learn More And Register At
www.connecticutchildrens.org/gait

27th Annual Gait Course

CLINICAL GAIT ANALYSIS
A Focus on Interpretation

Connecticut Children’s Medical Center, Hartford, Connecticut, USA

June 7-10, 2017

Connecticut Children’s &  Avon Old Farms Hotel
399 Farmington Ave., Farmington, CT
279 Avon Mountain Road, Avon, CT

June 7, 2017  June 8-10, 2017

Sponsored by

Connecticut Children’s Medical Center, Center for Motion Analysis
in collaboration with
Gillette Children’s Specialty Healthcare, St. Paul, Minnesota &
University Hospital Pellenberg, Leuven, Belgium

Connecticut Children’s Medical Center is accredited
by the Connecticut State Medical Society to sponsor
continuing medical education for physicians

Connecticut Children’s Medical Center is a nationally
recognized, not-for-profit children’s hospital serving as the
primary teaching hospital for the Department of Pediatrics
at the University of Connecticut School of Medicine.
Connecticut Children’s is the only free-standing children’s
hospital in Connecticut that offers comprehensive, world-
class health care to children. Our pediatric services are
available at Connecticut Children’s Medical Center in
Hartford and at Saint Mary’s Hospital in Waterbury, with
neonatal intensive care units at Hartford Hospital and
the University of Connecticut Health Center, along with a
state-of-the-art ambulatory surgery center, five specialty
care centers and 11 other locations across the state.
Connecticut Children’s has a medical staff of nearly 1,100
practicing in more than 20 specialties.

For more information, visit
WWW.CONNECTICUTCHILDRENS.ORG
Course Information
This interactive course will provide the following: a background in gait analysis methods; a detailed explanation of measured gait parameters and their expected values for typical gait; the gait indications for surgical treatment in a variety of pathologies and interpretation and discussion of case examples. Case examples will include patients with neuromuscular disorders such as cerebral palsy as well as other gait pathologies. Skills attained in this course will be applicable to all clinical gait analysis applications. Plus: optional half day laboratory experience, with hands on demonstrations including, system calibration, motion and EMG data preparation and collection and quality assurance activities in small groups.

Target Audience
Orthopaedists, physiatrists, physical therapists, kinesiologists, engineers, biomechanists who are responsible for the interpretation and/or collection of gait analysis data.

Format
Lecture, case discussion, panel presentation, group discussion, question and answer.

Objectives
1. Identify components of computer-based gait analysis.
2. Understand normal and pathological gait in terms of gait analysis parameters.
3. Develop skills to perform gait analysis data interpretation, including kinematics, kinetics, and EMG.
4. Define the role of gait analysis for treatment decision making in patients with cerebral palsy and other gait disorders.

Faculty
Connecticut Childrens Medical Center
Center for Motion Analysis
Kristan Pierz, MD
Pediatric Orthopaedic Surgeon, Medical Director
Matthew J. Solomito, PhD
Engineer
Sylvia Öunpuu, MSc
Kinesiologist, Research Director
Katharine J. Bell, MS
Analyst
Kelly Pogemiller, DPT
Physical Therapist
Jennifer Rodríguez-MacClinic, DPT
Physical Therapist
Phil Mack, MD
Pediatric Orthopaedic Surgeon

Gillette Children's Specialty Healthcare, Minnesota
Motion Analysis Laboratory
Tom F. Novacheck, MD
Pediatric Orthopaedic Surgeon, Clinical Director
Michael Healy, MD
Pediatric Orthopaedic Surgeon
Jean L. Stout, MS, PT
Physical Therapist

Catholic University Hospital, Leuven, Belgium
Clinical Motion Analysis Laboratory
Guy Molenaers, MD
Pediatric Orthopaedic Surgeon, Medical Director
Ghislain Delbaere, PhD
Director, Motion Analysis Laboratory

Guest Faculty
Greenville Shriners Hospital for Children, South Carolina
Motion Analysis Laboratory
Roy B. Davis, III, PhD
Co-Director

Preliminary Program Schedule
Wednesday, June 7 • 1:00 p.m. to 6:00 p.m.
Optional hands on demonstration at the Center for Motion Analysis in Farmington, CT
- Marker Placement and Motion Data Collection
- Electrode Placement, Quality Assurance and Data Collection for Electromyography
- Motion Laboratory Specific Clinical Examination
- Questions and Answers
Welcome Reception and tour of the Center for Motion Analysis 6 to 7 pm (all course participants welcome)

Thursday, June 8 • 8:00 a.m. to 5:15 p.m.
- Qualitative Description of Typical Gait - Terminology
- Gait Model Basics (with marker placement demonstration)
- Kinematics, Kinetics and EMG: Concepts and Normal Patterns
- Data Quality and Interpretation Guides
- Small Group Review: Kinematics, Kinetics and EMG
- Case Study Presentation – A Model for Gait Data Interpretation

Friday, June 9 • 8:00 a.m. to 5:15 p.m.
- Introduction to Pathological Gait Concepts in Cerebral Palsy
- Sagittal, Transverse and Coronal Plane Gait Characteristics: - Typical Deviations & Possible Causes, Interpretation Misconceptions
- Interactions Across Planes and Role of Trunk Motion
- Kinematic and Kinetic Relationships in Pathological Gait
- Lever Arm Concepts in Understanding Pathological Gait
- Elective Sessions 1: Orthopaedic Surgical Procedural Details, Motion Analysis Applications in Sports, Rehabilitation after Surgery and Logistics of Setting Up a Gait Lab
- Case Studies (small groups) – Cerebral Palsy

Saturday, June 10 • 8:00 a.m. to 5:15 p.m.
- Treatment Options in Cerebral Palsy (soft tissue, skeletal, bracing, pharmacological)
- Crouch Gait in Cerebral Palsy (definition and treatment)
- Gait Analysis for Patients with Myelomeningocele and Charcot-Marie-Tooth
- Case Studies (small groups) – Cerebral Gait
- Elective Sessions 2 and 3: Foot Models, Toe Walking, Functional Outcomes Measures, PT Intervention for Gait, Instrumented Spasticity Management, Gait Analysis in Other Pathologies, Long-term Outcomes in CP, Motion Analysis and Insurance Coverage
- Avoidable iatrogenic Complications in Cerebral Palsy

Course enrollment will be limited, early registration is encouraged!