



***The 20th Annual Conference: Management Strategies
for Functional Impairments in Children
with Neuromuscular Conditions***

Presented by

**The University of Virginia Department of Orthopaedic Surgery
Division of Pediatric Orthopaedics
Motion Analysis & Motor Performance Laboratory**

***December 5-6, 2014
Darden Executive Education Center
Charlottesville, VA***

Goal

To provide a comprehensive update on treatments available to enhance motor function and ease disability in patients with neuromusculoskeletal conditions.

Purpose

Present and integrate multidisciplinary perspectives on the management of motor dysfunction in neuromuscular conditions and to aid health care professionals and families of children with disabilities in their roles as advisors, decision makers and caregivers.

Course Description

Health care professionals are increasingly challenged to provide treatments that are based on a strong scientific foundation. This course will describe the basic and clinical science underlying the pathophysiology of impairments and functional deficits in children with cerebral palsy and other common neuromuscular disorders. Movement patterns, motor prognosis (effect on motor development) and associated co-morbid conditions will be described as well as techniques for assessing these impairments. Cerebral palsy (CP), spina bifida, Duchenne's muscular dystrophy and neuromuscular scoliosis as well as other similar disorders may be discussed. Nationally recognized clinicians and research scientists will present in detail the most effective current options for management of spasticity, contractures, bony deformities, and weakness for ambulatory and non-ambulatory patients. Because a cure for these conditions is mostly lacking,, emphasis will also be placed on treatments such as bracing as well as adaptive equipment to enhance participation in the community. Orthopaedic surgeries will be described including spinal stabilization , bony osteotomies and muscle- tendon surgery. The risks and benefits of neurosurgical interventions, aimed at alleviating spasticity, such as intrathecal Baclofen pump infusion, selective dorsal rhizotomy and brain stimulation will be described as well as the role of less invasive therapies such as oral medications and botulinum toxin injections. Finally physical and occupational therapy treatment programs to enhance motor function and to complement surgical treatments will be presented and reviewed. Audience participation will be encouraged by ample time for questions and multiple case studies involving an interdisciplinary panel.

Educational Objectives

(15 hours) Continuing Education Units – No CME's are awarded for attending this course

- Better understand the pathophysiology of neuromuscular conditions such as CP, spina bifida and muscular dystrophy and the impact that the pathology has on motor functional status.
- Understand range of impairments seen such as spasticity, weakness, extra-pyramidal movement disorders, mental retardation, and muscle contractures.
- Provide an update on the mechanisms and science behind prevalent treatments such as orthopaedic surgery, neurosurgery, botulinum injections, physical therapies, orthotics and mobility equipment.
- Discuss the role of 3D gait analysis, electromyography and spasticity measures in pre- and post assessments.
- Appreciate the magnitude of functional change as well as impact on community participation from different treatments in neuromuscular conditions to aid in goal setting and treatment decisions.
- Understand the complementary roles of surgery, medications, physical therapy, occupational therapy and orthotics in management of neuromuscular conditions.

Who Should Attend

This course is designed for medical professionals who care for persons with neuromuscular conditions including physical and occupational therapists and assistants, neurologists, neurosurgeons, developmental pediatricians, orthopaedic surgeons, physiatrists, orthotists and pediatric nurse practitioners. Families of children with disabilities are also encouraged to attend.

Disclosures

All faculty participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and (2) with any commercial supporters of the activity (significant financial interest or other relationship can include such things as grants or research support, employee, consultant, major stock holder, member of speakers bureau, etc.). The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but rather to provide listeners with information on which they can make their own judgments. It remains for the audience to determine whether the speaker's interests or relationships may influence the presentation with regard to exposition or conclusion.

Disclosure of Non-FDA uses for pharmaceutical products or medical devices: The University of Virginia School of Medicine requires that all faculty presenters identify and disclose any "off label" uses for pharmaceutical and medical device products. The University of Virginia School of Medicine recommends that each physician investigate new medical therapies fully before incorporating them into the delivery of patient care.

Accommodations

A block of rooms has been reserved for December 5-6 at the Darden Inn in Charlottesville, Virginia. Please call (434)243-5000 before November 15, 2014 to make reservations. In order to receive the special rate, please inform the staff that you are attending the UVA Orthopaedics course. Discount rates of \$135.00 + taxes per night are available based on space available.

Registration Fees

Registration fees include CEUs, lectures, continental breakfast, refreshments, lunch and, syllabus materials for the 2-day conference. Group discounts are not available.

Registrants \$395

Refunds will be granted if the request is received in writing by November 15, 2014. A 15% processing fee will be charged for refunds.

Conference Coordinator: Diane Sullivan | 434-243-0281 | lds5j@virginia.edu

Registration Coordinator: Rose Herndon

Department of Orthopaedic Surgery

(434) 243-0220 | FAX (434) 243-0230 | rmh5n@virginia.edu

<http://www.medicine.virginia.edu/clinical/departments/orthopaedics/orthodivisions/pediatrics/neuromuscular-conference.html>

Special Needs

The 1992 American Disabilities Act requires that all individuals, regardless of their disabilities, have equal access. We are pleased to assist participants with special needs. Requests need to be made in writing by 11/15/2014.

UVA COURSE DIRECTORS

Mark F. Abel, MD
Division Head of Pediatric Orthopaedics
Professor, Orthopaedic Surgery Department
Director, Motion Analysis & Motor Performance Lab

Mark J. Romness, MD
Associate Professor of Pediatric Orthopaedic Surgery
Associate Medical Director, Motion Analysis & Motor
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GUEST FACULTY

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Medical Director
Cerebral Palsy International Research Foundation

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Professor of Movement Science and
Neuroscience & Education
Teachers College, Columbia University

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Phoenix Children's Hospital

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Diane Damiano, PhD, PT
Tenure-track Scientist
Chief, Functional & Applied Biomechanics Section
Rehabilitation Medicine Department
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Bettina M. Gyr, MD
Assistant Professor
Orthopaedic Surgery Department
Wake Forest University

Ginny Paleg, PT, DScPT, MPT
Silver Spring, MD

Christopher D. Lunsford, MD
Physical Medicine and Rehabilitation
University of Pittsburgh Medical Center
Children's Hospital of Pittsburgh

UNIVERSITY OF VIRGINIA FACULTY

Ruth A. Goldeen, OTR
Occupational Therapy

Marc Gilgannon, PT
Physical Therapy

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Department of Pediatrics

Sharon Hostler, MD
Vice Provost for Faculty Development

Kevin King, CPO Certified
Prosthetist & Orthotist

Kenneth Norwood, MD
Associate Professor, Developmental Pediatrics
Department of Pediatrics

Patty Payne, PT Senior
Physical Therapist

Richard Stevenson, MD
Professor, Developmental Pediatrics
Department of Pediatrics

Management Strategies for Functional Impairments in Children with Neuromuscular Conditions**Friday – December 5, 2014**

7:00-8:00 am	REGISTRATION & CONTINENTAL BREAKFAST
8:00-8:10	WELCOME – Paul Matherne, MD
8:10-8:40	WHAT IS CEREBRAL PALSY - Richard Stevenson, MD
8:40-9:10	NEUROMUSCULAR CONDITIONS: MANAGEMENT OBJECTIVES FOR MOTOR IMPAIRMENT - Mark Abel, MD
9:10-9:20	Questions for Drs. Stevenson & Abel
9:20-9:40	Break and Vendor Visits
9:40-10:20	TRENDS IN THERAPY FOR CP-HOW MUCH HAS CHANGED IN THE PAST 20 YEARS AND WHAT'S ON THE HORIZON? - Diane Damiano, Ph.D, PT
10:20-10:25	Questions
10:25-11:05	GUEST LECTURER - PHYSICAL MEDICINE: APPROACHES TO TONE MANAGEMENT - Chris Lunsford, MD
11:05-11:10	Questions
11:10-11:20	Break and Vendor Visits
11:20-12:00 pm	GUEST LECTURER - UPPER EXTREMITY DEFICITS IN CP: IMPLICATIONS FOR TREATMENT - Andrew Gordon, MD
12:00-12:10	Questions
12:10-12:40	OCCUPATIONAL THERAPY OPTIONS FOR CP - Ruth Goldeen, OTR
12:40-12:45	Questions
12:40-1:45	Lunch and Vendor Visits
1:45- 2:25	GUEST LECTURER - THE ROLE OF SURGERY FOR UPPER EXTREMITY FOR CP - Ann Van Heest, MD
2:25-2:35	Questions
2:35-3:15	UPPER EXTREMITY CASE DISCUSSIONS - Dr. Gordon, Dr. Van Heest, Ms. Goldeen, Dr. Stevenson
3:15-3:30	Break and Vendor Visits
3:30-4:00	LOWER EXTREMITY ORTHOTICS FOR CP - Kevin King, CPO and Patty Payne, PT
4:00-4:45	DISCUSSION & CASES Dr. Romness, Dr. Damiano, Dr. Abel, Mr. King and Ms. Payne
4:45	Adjourn
5:15-6:00	Tour of Battle Building and Reception

Saturday – December 6, 2014

7:00-8:00 am	Registration & Continental Breakfast
8:00-8:10	OPENING COMMENTS – Sharon Hostler, MD
8:10-8:50	GUEST LECTURER: RESEARCH UPDATE ON PREVENTIONS & TREATMENTS FOR CP – James Blackman, MD
8:50-9:00	Questions
9:00-9:30	CONSIDERATIONS FOR MOTOR MANAGEMENT IN TRAUMATIC BRAIN INJURY – Ken Norwood, MD
9:30-9:35	Questions
9:35-9:55	Break and Vendor Visits
9:55-10:35	GUEST LECTURER: NEUROSURGICAL APPROACHES FOR TONE MANAGEMENT – Kelly Mahaney, MD
10:35-10:45	Questions
10:45-11:15	MANAGEMENT OF HIP IN CP & OTHER NEUROMUSCULAR CONDITIONS – Mark Romness, MD
11:15-11:20	Questions, Break and Vendor Viewing
11:20-11:40	Break and Vendor Visits
11:40-12:20 pm	GUEST LECTURER: STANDING PROGRAMS FOR CP – Ginny Paleg, PT, DScPT, MPT
12:20-12:30	Questions
12:30-1:30	Lunch and Vendor Visits
1:30-2:10	PANEL DISCUSSION ON EVIDENCE FOR PT: HOW THEY SHOULD INFLUENCE PRACTICE Dr. Damiano, Dr. Paleg, Dr. Blackman, Mr. Gilgannon, Dr. Romness and Dr. Abel
2:10-2:40	SPINAL DEFORMITY MANAGEMENT IN NEUROMUSCULAR CONDITIONS – Mark Abel, MD
2:40-2:45	Questions
2:45-3:00	Break and Vendor Visits
3:00-3:50	GUEST LECTURER: ORTHOPAEDIC SURGERY FOR CORRECTION OF LEVER ARM DYSFUNCTION – Bettina Gyr, MD
3:50-4:00	CLOSING REMARKS/ADJOURN

Management Strategies for Functional Impairments in
Children with Neuromuscular Conditions

December 5 & December 6, 2014
Darden Executive Education Center, Charlottesville, Virginia

Registration Form

Name _____

Address _____

City, State, ZIP _____

Telephone _____

FAX _____

E-mail _____

Please print clearly as your confirmation receipt will be emailed to you

May we share your email with other conference participants? Yes No

Specialty _____

Do you require special assistance because of a disability, or have any dietary restrictions or other special needs?

If so, please describe: _____

Fees

Registrants \$395.00

Fees are payable by check, VISA, or MasterCard. Checks should be made payable to: UVA/Orthopaedic Surgery

VISA

MasterCard

Card Number _____

Expiration Date _____

Signature _____

Please send to:

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