Fourth Annual
Diagnosis and Management of Concussion:
Seeing Concussion Through New Eyes

Friday, April 1, 2016

Ruth and Tristram Colket, Jr. Translational Research Building
at The Children’s Hospital of Philadelphia

www.chop.edu/cme
Course Information

Course Overview
This one-day conference is intended for clinicians and school personnel who are involved in the management, return to school and return to physical activity of students with concussion. Sessions will provide guidelines for the evaluation and diagnosis of concussion, including the latest developments. Models for managing student athletes in the academic setting from elementary school through college will be presented. Therapeutic strategies for managing concussions with prolonged symptoms will be reviewed in depth, including vestibular and aerobic rehabilitation, as well as vision therapy. Issues relating to the intersection of concussion with behavioral and mental health issues and their management will also be presented.

General Information
The conference will be held in the Ruth M. and Tristram Colket, Jr. Translational Research Building on Friday, April 1, 2016. Registration will begin at 7 a.m. The registration fee includes breakfast, lunch, breaks and syllabus materials.

Registration
Preregistration is required. The deadline for registration is Thursday, March 24, 2016. Those wishing to attend may register by mail, fax or online at The Children’s Hospital of Philadelphia CME website, www.chop.edu/cme. Instructions for mailing or faxing registrations are on the registration form included in this brochure. If you have not received a confirmation letter within 15 days of sending your registration, please contact the Continuing Medical Education Department at 215-590-5263.

Course Objectives
Upon completion of this course, attendees should be able to:
1. Recognize the signs and symptoms of concussion
2. Evaluate, diagnose and initiate appropriate management of acute concussion
3. Understand the role of neurocognitive testing within a comprehensive treatment plan for concussion
4. Implement academic accommodations and classroom management of the concussed student
5. Understand rehabilitative and counseling approaches in managing a concussion with prolonged recovery
6. Address behavioral and mental health issues as they intersect with concussion

ACCME Accreditation Statement
The Children’s Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement
The Children’s Hospital of Philadelphia designates this live activity for a maximum of 7.75 AMA PRA Category 1 credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Accreditation Statement
The Children’s Hospital of Philadelphia is an approved provider of continuing nursing education by the Pennsylvania State Nurses Association an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation.

Athletic Training Continuing Education
The Children’s Hospital of Philadelphia is approved by the Board of Certification, Inc. to offer continuing education for Certified Athletic Trainers. This program is eligible for a maximum of 7.75 Category A hours/CEUs. ATs should claim only those hours actually spent in the educational program.

Physical Therapy Accreditation
Continuing Education Credits have been applied for: PA Physical Therapist.

Hotel Accommodations
A block of rooms with reduced rates has been reserved at the Sheraton University City Hotel, 36th and Chestnut streets, Philadelphia, Pa., 19104. The group rates are $172 single and double occupancy plus a 15.5 percent room tax. Participants are required to make their own hotel reservations by calling the hotel directly at 888-627-7071 or 215-387-8000. Please mention the CHOP Concussion Conference. The special room rate will be available until Tuesday, March 1, 2016. After that date, reservations will be accepted on a space and rate availability basis.

Cancellation and Refund Policy
The Children’s Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, the Hospital will refund registration fees, less a $40 service fee, but is not responsible for any related costs, charges or expenses to participants, including cancellation charges assessed by airlines or travel agencies. In order to process refunds, cancellations must be received in writing by Tuesday, March 22, 2016. No refunds will be issued thereafter.

Services for People with Disabilities
If special arrangements are required for an individual with a disability to attend this meeting, please contact the Continuing Medical Education Department at 215-590-5263.
7 a.m.  Registration

7:25 a.m.  Welcome and Introduction
Christina L. Master, M.D.; M. Sean Grady, M.D.

7:30 a.m.  Acute Evaluation of Head Injury and Clinically Important TBI (ciTBI)
Michael L. Nance, M.D.

8:10 a.m.  In-office Concussion Assessment: Does Age Matter?
Matthew Grady, M.D.; Christina L. Master, M.D.

8:50 a.m.  Concussion: Biomechanics of Prevention
Susan Margulies, Ph.D.; Kristy Arbogast, Ph.D.

9:30 a.m.  BREAK

9:40 a.m.  Keynote Speaker
Navigating the Concussion Frontier
Brian Hainline, M.D.

10:30 a.m.  Using Neuroimaging to See Concussion: Is it Possible?
Andrew Mayer, Ph.D.

11:10 a.m.  Biomarkers for Concussion: Promises and Pitfalls
Douglas H. Smith, M.D.

11:50 a.m.  Lunch — Keynote Speaker
The UNTOLD Foundation
Graham Thomas, Founder

12:30 p.m.  The Use of Exercise Testing in Adolescents with Sport-Related Concussion
John Leddy, M.D.

1:10 p.m.  Overcoming Barriers to Learning and Sport Participation: From Vestibular-Oculomotor Deficits to the Cervicogenic Headache
Edwin Crane III, D.P.T., D.A.C.

1:50 p.m.  Vision Issues in Concussion —
Objective Assessment of Eye Movements after Treatment of Concussion-related Convergence Insufficiency
The Underlying Mechanism of Vision Therapy Revealed Using Functional Imaging
Mitchell Scheiman, O.D.; Tara Alvarez, Ph.D.

2:30 p.m.  BREAK

2:40 p.m.  Learning, Attentional and Psychological Factors in Protracted Recovery From Concussion
Mary Lazar, Psy.D.; Mary Rourke, Ph.D.

3:10 p.m.  Avoiding Insult to Injury: Understanding Post-Concussive Anxiety
John D. Guerry, Ph.D.

3:50 p.m.  Depression and Suicidal Risk in Concussed Athletes: Detection, Assessment, and Management
David A. Brent, M.D.

4:30 p.m.  Panel Discussions: Q & A
All

5 p.m.  Adjourn
Course Faculty

**Course Director**
Christina L. Master, M.D., CAQSM
Attending Physician, Sports Medicine and Performance Center
Division of Orthopedics
Associate Program Director, Primary Care Sports Medicine Fellowship
Associate Professor of Clinical Pediatrics

**Course Faculty**

**Kristy B. Arbogast, Ph.D.**
Co-scientific Director and Engineering Core Director, The Center for Injury Research and Prevention
Investigator, Division of Emergency Medicine
Research Associate Professor of Pediatrics

Matthew F. Grady, M.D., CAQSM
Attending Physician, Sports Medicine and Performance Center
Division of Orthopedics
Program Director, Primary Care Sports Medicine Fellowship
Assistant Professor of Clinical Pediatrics

**John D. Guerry, Ph.D.**
Psychologist
Assistant Professor of Clinical Psychology in Psychiatry

Michael L. Nance, M.D., F.A.C.S., F.A.A.P.
Director of Pediatric Trauma Program
Investigator, Center for Injury Research and Prevention
Professor of Surgery

**Guest Faculty**

**Tara Alvarez, Ph.D.**
Professor Department of Biomedical Engineering
Director of the Vision and Neural Engineering Laboratory
New Jersey Institute of Technology
Newark, N.J.

David A. Brent, M.D.
Professor of Psychiatry, Pediatrics, Epidemiology and Clinical and Translational Science
University of Pittsburgh School of Medicine

Edwin Crane, III, D.P.T, D.A.C.
Physical Therapist
Market Manager for NovaCare Rehabilitation

**M. Sean Grady, M.D.**
Chair, Department of Neurosurgery
University of Pennsylvania Health System
Professor of Neurosurgery

Brian Hainline, M.D.
Senior Vice President and Chief Medical Officer
National Collegiate Athletic Association
Clinical Professor, Department of Neurology
New York University School of Medicine

Mary F. Lazar, Psy.D.
Director, Neuropsychology Assessment Center
Institute for Graduate Clinical Psychology
Widener University

**John J. Leddy, M.D.**
Medical Director, State University of New York at Buffalo Concussion Management Clinic
Clinical Professor, Department of Orthopaedics
Jacobs School of Medicine and Biomedical Sciences
SUNY at Buffalo

**Susan S. Margulies, Ph.D.**
Professor of Bioengineering
School of Engineering and Applied Science
University of Pennsylvania

**Andrew R. Mayer, Ph.D.**
Associate Professor of Translational Neuroscience
The Mind Research Network
Adjunct Assistant Professor of Neurology
University of New Mexico Health Science Center

**Mary Rourke, Ph.D.**
Co-founder & Co-director Dragonfly Psychological Associates
Director of School Psychology
Co-director Widener Child Therapy Clinic
Assistant Professor of Clinical Psychology
Institute for Graduate Clinical Psychology
Widener University

**Mitchell Scheiman, O.D.**
Dean of Research
Director, Pediatric and Binocular Vision Programs
Professor of Optometry
Pennsylvania College of Optometry
Salus University

**Douglas H. Smith, M.D.**
Director, Penn Center for Brain Injury and Repair
Vice Chairman for Research & Education
Department of Neurosurgery

**Graham Thomas**
Founder, Untold Foundation
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Friday, April 1, 2016 – Registration Deadline: Thursday, March 24, 2016

Name _______________________________________________________________________________________

Credentials ___________________________________________________________________________________

Institution/Hospital/School District _______________________________________________________________________________________

Home Address _______________________________________________________________________________________

City _______________________________________________ State ___________ ZIP _____________________

Phone ___________________________________________ Fax ________________________________________

Email _______________________________________________________________________________________

☐ Special Dietary Needs: ________________________________________________________________________

Conference Registration Fees

☐ Physicians: $125

☐ Allied Healthcare Professionals: $100

☐ Educators: $75

Registration will not be processed unless accompanied by full payment. Faxed registrations will be accepted for credit card payments only.

Method of Payment

☐ Personal check ☐ Institutional check

(Please make check payable to The Children's Hospital of Philadelphia.)

☐ Discover ☐ MasterCard ☐ American Express ☐ VISA

Credit Card # ________________________________________________________________________________

Exp. Date __________________________________________

Mail/fax the completed registration form and payment to:

Ms. Micah Holliday
Continuing Medical Education Department
The Children's Hospital of Philadelphia
34th Street and Civic Center Boulevard
Philadelphia, PA 19104-4399
215-590-5CME
Fax 215-590-4342
hollidaydm@email.chop.edu

Register online at www.chop.edu/cme

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