



THIRD  
ANNUAL

# CONCUSSION ACROSS THE SPECTRUM OF INJURY

## The Latest in Diagnosis and Management

Provided by NYU Post-Graduate Medical School

Friday, February 26, 2016

Register online at:

[www.med.nyu.edu/cme/concussion](http://www.med.nyu.edu/cme/concussion)

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# CONCUSSION ACROSS THE SPECTRUM OF INJURY

## GENERAL INFORMATION

### LOCATION

NYU Skirball Performing Arts Center  
566 LaGuardia Place  
New York, NY 10012

### MAILING ADDRESS AND CONTACT INFORMATION

Registration Office  
NYU Post-Graduate Medical School  
550 First Avenue  
New York, NY 10016  
Phone: (212) 263-5295  
Fax: (212) 263-5293

### COURSE FEES

**Full Fee:** \$250

**Reduced Fee\*:** \$150

**PT Network Members (MRN):** \$100

**NYU Langone Faculty and Staff:** \$100  
(must provide valid NYU Langone ID)

**NYU Langone Residents and Fellows:** Waived  
(must provide valid NYU Langone ID)

\*Reduced fee applies to NYU School of Medicine alumni, former residents and fellows; physician-in-training; physicians employed by the Department of Veterans Affairs Medical Center; fulltime active military personnel; nurse practitioners; retired physicians; and all other non-physician healthcare professionals.

### CME ACCREDITATION STATEMENT

The NYU Post-Graduate Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### CME CREDIT DESIGNATION STATEMENT

The NYU Post-Graduate Medical School designates this live activity for a maximum of 7.25 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### NURSING CREDIT

7.1 Contact hours will be provided.

NYU Hospitals Center is an approved provider of continuing nursing education by New Jersey State Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

### PHYSICAL THERAPY CREDIT

NYU Hospitals Center is a New York State Education Department approved provider for physical therapy and physical therapy assistant continuing education. This course is approved for a maximum of 7.5 physical therapy/physical therapy assistant contact hours (.95 CEUs).

### OCCUPATIONAL THERAPY STATEMENT

This course is approved for a maximum of 7.25 occupational therapy contact hours (0.725 CEUs). The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA.

**Level:** Introductory

**Classification Code:** Intervention and Approaches to intervention

### BOC APPROVED PROVIDER STATEMENT



NYU Hospitals Center is recognized by the Board of Certification, Inc. to offer continuing education for Certified Athletic Trainers. This program has been approved for a maximum of 7.25 hours of Category A continuing education. Certified Athletic Trainers

are responsible for claiming only those hours actually spent participating in the continuing education activity.

BOC Approved Provider Number: P2540

### DISCLOSURE STATEMENT

The NYU Post-Graduate Medical School adheres to ACCME accreditation requirements and policies, including the Standards for Commercial Support regarding industry support of continuing medical education. In order to resolve any identified conflicts of interest, disclosure information is provided during the planning process to ensure resolution of any identified conflicts. Disclosure of faculty and commercial relationships, as well as the discussion of unlabeled or unapproved use of any drug, device or procedure by the faculty, will be fully noted at the meeting.

### HOTEL ACCOMMODATIONS

Rooms are in very heavy demand in New York City; we urge you to make your reservations early. You may obtain a list of hotels located near NYU Skirball Center for Performing Arts by visiting their website: <http://nyuskirball.org/page/visit/hotels>

### PARKING

For information, please visit <http://nyuskirball.org/page/visit/parking>

We cannot validate parking for registrants.

# The Latest in Diagnosis and Management

## COURSE INFORMATION

### COURSE DESCRIPTION

Concussion, also known as mild traumatic brain injury (mTBI), is a very common condition in the United States, accounting for 80% of all traumatic brain injuries with as many as 3.8 million injuries occurring yearly from sport-related events alone. Although the vast majority of individuals with a single concussion recover within days to weeks, a significant minority develop long-term problems which collectively are known as post-concussion syndrome. Recent evidence suggests that repetitive concussions, which are commonly seen in professional sports, can be associated with progressive cognitive, psychiatric and motor degeneration, which has recently been termed chronic traumatic encephalopathy. Although rare, second-impact syndrome is a catastrophic condition that can occur in adolescents and children who sustain a second concussion prior to recovering from a previous injury, typically resulting in death or severe disability. The body of literature about concussion is constantly changing and expanding and an annual medical conference is the perfect avenue by which to update medical professionals about these changes. Physicians and clinicians are responsible for returning patients to school, play, work and all life activities and will benefit from updates that have been made in the literature over the past year. Clinicians will benefit from learning how to manage the sports and non-sports related concussion with many concussions occurring due to falls, motor vehicle accidents, assaults and military injuries. This full one-day course will include addressing clinical assessment and management, emerging neuroimaging technologies to study and better understand concussion, advances in blood and imaging biomarkers, rule changes in youth sports, concussion in the female athlete, advances in headache management, the role of neurocognitive testing in returning athletes to school and play, rehab treatment including assessment and treatment of cervical injuries, vestibular and vision problems in concussion, among other important topics in related to all concussion. The course will consist of a series of didactic lectures.

### TARGET AUDIENCE

The target audience for this educational conference includes specialists in family medicine, internal medicine, pediatrics, neurology, emergency medicine, orthopaedic surgery, rehabilitation medicine, sports medicine, as well as nurses and other health care providers involved in the diagnosis and/or management of concussions such as physical therapists, occupational therapists, speech language pathologists, psychologists and athletic trainers.

### EDUCATIONAL OBJECTIVES

At the conclusion of this activity, clinicians should be able to:

- Obtain an appropriate history and physical examination to diagnose and / or recognize concussion in pediatric and adult patients
- Identify chronic post-concussion problems and determine which patients to treat or refer to other health care professionals for additional treatments
- Determine who's appropriate to refer to therapy services such as vestibular, vision, cervical physical therapy and psychology
- Describe the utility and limitations of standard neuroimaging technologies in diagnosing and management patients with concussion
- Describe the advances made in the realm of treating headaches related to concussion
- Describe how to assess and treat cervical injuries resulting from concussion
- Describe the possible implications for biomarkers in making the diagnosis of concussion



### REGISTRATION

Visit our secure website

[www.med.nyu.edu/cme/concussion](http://www.med.nyu.edu/cme/concussion)

to submit online registration

# FACULTY

## COURSE DIRECTORS

### **Laura J. Balcer, MD, MSCE**

Professor of Neurology, Population Health and Ophthalmology  
Vice Chair, Neurology  
NYU School of Medicine  
New York, NY

### **Dennis A. Cardone, DO**

Associate Professor of Orthopaedic Surgery  
Chief, Primary Care Sports Medicine  
NYU School of Medicine  
New York, NY

### **Steven R. Flanagan, MD**

Howard A. Rusk Professor of Rehabilitation Medicine  
Chair, Department of Rehabilitation Medicine  
NYU School of Medicine  
New York, NY

## COURSE PLANNERS

### **Dina Pagnotta, MPT, MPH**

Director, Musculoskeletal Rehabilitation Network  
NYU Langone Medical Center  
New York, NY

### **Roseann Pokoluk, MA, RN-BC, CNRN, LMT**

Director, Department of Nursing Education  
NYU Langone Medical Center  
New York, NY

### **Mara F. Sproul, MPA, CRRN, RN-BC**

Program Manager  
NYU Langone Concussion Center  
New York, NY

## GUEST FACULTY

### **James R. Clugston, MD, MS**

Associate Professor  
University of Florida  
Team Physician  
University of Florida Athletic Association  
Gainesville, FL

### **Gerard A. Gioia, PhD**

Professor of Pediatric Neuropsychology  
Division Chief Pediatric Neuropsychology  
George Washington University School of Medicine  
Washington, DC

### **Robert A. Stern, PhD**

Professor of Neurology, Neurosurgery, and Anatomy and  
Neurobiology  
Boston University School of Medicine  
Boston, MA

## NYU LANGONE FACULTY

### **William B. Barr, PhD, ABPP**

Associate Professor of Neurology and Psychiatry  
NYU School of Medicine  
New York, NY

### **Tara V. Denham, PT, MA**

Outpatient Program Manager Physical Therapy  
NYU Langone Medical Center  
New York, NY

### **Steven Galetta, MD**

Philip Moskowitz Professor and Chair  
Professor of Ophthalmology  
NYU School of Medicine  
New York, NY

### **Brian Hainline, MD**

Clinical Professor of Neurology  
NYU School of Medicine  
New York, NY  
Clinical Professor of Neurology  
Indiana University School of Medicine  
Indianapolis, IN

### **Jaime M. Levine, DO**

Clinical Assistant Professor of Rehabilitation Medicine  
NYU School of Medicine  
New York, NY

### **Yvonne W. Lui, MD**

Associate Professor of Radiology  
Section Chief, Neuroimaging  
NYU School of Medicine  
New York, NY

### **Mia Minen, MD, MPH**

Assistant Professor of Neurology  
Director of Headache Services  
NYU Langone Medical Center  
New York, NY

### **Mia R. Palazzo, PT, DPT, OCS, Cert. MDT**

Program Manager, Physical Therapy Occupational Therapy and the  
Sports Performance Center  
NYU Langone Medical Center  
New York, NY

### **Jonathan M. Silver, MD**

Clinical Professor of Psychiatry  
NYU School of Medicine  
New York, NY

### **Margaret Waskewicz, MS, OTR/L**

Unit Supervisor Adult Outpatient Occupational Therapy  
NYU Langone Medical Center- Rusk Rehabilitation  
New York, NY

### **Thomas Wisniewski, MD**

Lulu P. and David J. Levidow Professor of Neurology  
Professor of Neurology, Pathology and Psychiatry  
NYU School of Medicine  
New York, NY

Please check the course website for more information about our speakers

[www.med.nyu.edu/cme/concussion](http://www.med.nyu.edu/cme/concussion)

## PROGRAM



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**CONCUSSION ACROSS  
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The Latest in Diagnosis  
and Management

**7:15 am**

**Registration and Continental Breakfast**

**8:00**

**Introduction**

Steven R. Flanagan, MD

**8:05**

**Concussion Across the Spectrum**

Brian Hainline, MD

**8:35**

**Chronic Traumatic Encephalopathy:  
What We Think We Know and What  
We Need To Know Next**

Robert A. Stern, PhD

**9:00**

**Advances in Neuroimaging**

Yvonne W. Lui, MD

**9:25**

**Looking at the Brain through the Eyes**

Laura J. Balcer, MD, MSCE

**9:45**

**The Role of Vision Therapy**

Margaret Waskewicz, MS, OTR/L

**10:00**

**Question & Answer**

Moderator: Steven R. Flanagan, MD

**10:15**

**Coffee Break**

## CONCUSSION CENTER AT NYU LANGONE

The Concussion Center was established to provide comprehensive care for patients with concussions. The Center is led by nationally recognized physicians, all experts in the diagnosis and treatment of concussion. Our team of experts includes adult and pediatric neurologists and physical medicine and rehabilitation physicians, neurosurgeons, sports medicine physicians, emergency medicine physicians, nurses, neuropsychologists, physical and occupational therapists, speech and vocational therapists, social worker and neuroradiologists. By bringing together clinicians in these areas to work as a team, we are able to offer each patient a personalized treatment plan that best meets his or her needs.

If you have questions about our services or about concussion, we can also be reached via e-mail at [nyuconcussion@nyumc.org](mailto:nyuconcussion@nyumc.org).

- 10:30**  
**HA Assessment/Caveats on the H&P Exam**  
Mia Minen, MD, MPH
- 10:50**  
**Cervical-Physiotherapy Techniques**  
Mia R. Palazzo, PT, DPT, OCS, Cert. MDT
- 11:05**  
**Benefits of Vestibular and Exertional Therapy**  
Tara V. Denham, PT, MA
- 11:30**  
**Evidence Based Approaches to Assessment of Concussion Symptoms in Children**  
Gerard A. Gioia, PhD
- 12:00 PM**  
**Update on Computerized Neurocognitive Testing: Implications for Assessment of Adults**  
William B. Barr, PhD, ABPP
- 12:20**  
**Question & Answer**  
Moderator: Laura J. Balcer, MD, MSCE
- 12:35**  
**Lunch (on your own)**
- 1:35**  
**The Importance of Concussion Management Team in School**  
Mara F. Sproul, MPA, CRRN, RN-BC
- 1:50**  
**Prevention of Concussion in Sports – Proper Techniques and Rule Changes**  
James R. Clugston, MD, MS
- 2:15**  
**Sideline Testing/Initial Office Visit – What’s it all About?**  
Dennis A. Cardone, DO
- 2:35**  
**Question & Answer**  
Moderator: Steven Galetta, MD
- 2:50**  
**Coffee Break**
- 3:05**  
**Biomarkers for Concussive and Structural Brain Injuries**  
Thomas Wisniewski, MD
- 3:30**  
**Putting it All Together – Case Studies**  
Jaime M. Levine, DO
- 3:50**  
**The Landscape of Neuropsychiatric Illnesses**  
Jonathan M. Silver, MD
- 4:10**  
**Taking Science Forward**  
Steven Galetta, MD
- 3:30**  
**Question & Answer**  
Moderator: Dennis A. Cardone, DO
- 4:45PM**  
**Adjourn**

Please do not reduce or enlarge this form.

**PLEASE PRINT ALL INFORMATION CLEARLY IN BLOCK LETTERS AND NUMBERS.**

Register online at  
[www.med.nyu.edu/cme/concussion](http://www.med.nyu.edu/cme/concussion)

After 12 pm on February 24, 2016, only onsite registration is available, provided the course has not reached capacity. Onsite registrants will incur an additional \$20 charge and will receive a receipt by email in 1-2 weeks. Registration is non-transferable.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**COURSE CONFIRMATION:**

Please supply your email address to receive a confirmation letter. Make sure your email address is clearly written.

Degree \_\_\_\_\_ Day Phone ( ) \_\_\_\_\_ Fax ( ) \_\_\_\_\_

Email \_\_\_\_\_ Specialty \_\_\_\_\_

(REQUIRED FOR CME CREDIT)

- Full Fee:** \$250
- Reduced Fee\*:** \$100
- PT Network Members (MRN):** \$100
- NYU Langone Faculty and Staff:** \$100  
(must provide valid NYU Langone ID)
- NYU Langone Residents and Fellows:** Waived  
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*\*Reduced fee applies to NYU School of Medicine alumni, former residents and fellows; physicians-in-training; physicians employed by the Department of Veterans Affairs Medical Center; full-time active military personnel; nurse practitioners; retired physicians; and all other non-physician healthcare professionals.*

**METHODS OF PAYMENT:**

(Cash, email and phone registration are not accepted)

If faxing, do not mail or refax. This will only result in a duplicate charge to your account. Registration is non-transferable.

- Check in U.S. Dollars only: \$ \_\_\_\_\_
- Credit Card Payment (see below)
- International Postal Money Order: \$ \_\_\_\_\_  
(Foreign registrants, including those from Canada, must pay by International Postal Money Order or credit card.)

**MAKE CHECK PAYABLE TO:**  
 NYU Post-Graduate Medical School

**SEND TO:**  
 Registration Office  
 NYU Post-Graduate Medical School  
 550 First Avenue  
 New York, NY, 10016

**REFUND POLICY:**

In order to request a refund, you must email [maria.mercado@nyumc.org](mailto:maria.mercado@nyumc.org) **no later than 14 days prior to the first day of the course. An administrative fee of \$75 will be deducted from your refund.** Cancellations or no-shows after this date are not eligible for a refund. Fax and email cancellations are not accepted.

**COURSE CANCELLATION POLICY:**

If a course is cancelled due to inclement weather, insufficient enrollment, or any other reason, NYU PGMS will refund registration fees in full. NYU PGMS will provide at least two weeks' advance notice if cancelling due to insufficient enrollment and as soon as possible in all other circumstances. NYU PGMS is not responsible for any airfare, hotel, or other non-cancellable costs incurred by the registrant.

**PAYMENT BY CREDIT CARD:** Credit card payments may be faxed to (212) 263-5293.

Bill To:  Visa  MasterCard  American Express Amount to be charged: \$ \_\_\_\_\_

Credit Card Number: \_\_\_\_\_ Exp. Date \_\_\_\_\_ CV Code \_\_\_\_\_

Card Member's Name \_\_\_\_\_ Signature \_\_\_\_\_

(PLEASE PRINT)

 Special needs or requests: \_\_\_\_\_

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Post-Graduate Medical School  
550 First Avenue  
New York, NY 10016

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