

# REGISTRATION FORM

## Comprehensive Concussion Management: "Need to Know" Information for Physical Therapists

APTA #: \_\_\_\_\_ Neurology Academy Member? Yes No  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Daytime Tel: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
E-mail: \_\_\_\_\_

### Course Location

#### University of Colorado Hospital

Anschutz Outpatient Pavilion  
Room 2005/2006  
1635 Aurora Ct.  
Aurora CO 80045

Registration Type (circle one)	>30 days prior early bird	30 days or fewer prior
PT Member of the Neurology, Orthopedics, Sports, or Pediatrics Academy	\$350	\$425
APTA PT Non-section Member	\$400	\$475
Non-APTA Member	\$475	\$550

\*Fees cover continental breakfast and break snacks, as well as a link to course materials for download. Please note the course materials will not be printed for registrants.

### Registration Options:

- Register Online:  
<http://neuropt.org/education/events/2019/10/19/default-calendar/aurora-co-concussion>

- By Mail

Method of Payment  MasterCard  Visa  Amex

Card #: \_\_\_\_\_  
Exp. Date: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Billing Zip Code: \_\_\_\_\_

Or mail this form, with a check made payable to ANPT to:

ANPT  
5841 Cedar Lake Rd. S.  
Ste 204  
Minneapolis, MN 55416

Questions? Please contact ANPT at 952-646-2038, or by email at [info@neuropt.org](mailto:info@neuropt.org).

Academy of Neurologic Physical Therapy  
5841 Cedar Lake Rd. S Ste 204  
Minneapolis, MN 55416

# Comprehensive Concussion Management: "Need to Know" Information for Physical Therapists

Nicole Miranda, PT, DPT  
Tim Rylander, PT, MPT, OCS

Oct 19-20, 2019

University of Colorado Hospital  
Aurora, CO



## PARTICIPANTS, LOCATION AND HOUSING

For information on lodging, driving directions, and/or parking, Please visit: <http://neuopt.org/education/events/2019/10/19/default-calendar/aurora-co-concussion>

## CANCELLATION POLICY

Course is open to licensed Physical Therapists. Cancellations received on or before 30 days prior to the event will be refunded in full. A 20% handling fee will be charged for cancellations received between 30 and 7 days prior to the course. No refunds will be given for no-shows or cancellations less than 7 days prior to the course. On-site registrations will be accepted on a space available basis ONLY. The Neurology Academy and Brigham & Women's reserve the right to cancel this course without penalty up to two weeks prior to the event. In the event of cancellation by The Neurology Academy or host facility due to unforeseen circumstances, participants will be refunded their registration fee. We encourage participants to purchase trip insurance.

## COURSE OBJECTIVES

1. Describe current practice in concussion diagnosis and discuss related neuroimaging and other diagnostic testing.
2. Summarize the pathophysiology of concussion and implications for clinical management.
3. Describe risk factors that contribute to prognosis and outcome following concussion.
4. Describe common symptom profiles post-concussion and characteristics that indicate likely impairment categories such as cervical involvement, visual disturbances, and vestibular dysfunction in order to streamline assessment.
5. Demonstrate select methods for assessment of identified impairments within categories of cervical, oculomotor, and vestibular dysfunction.
6. Summarize treatment strategies to address cervical spine, oculomotor/vestibular pathology, headache, exertional and psychogenic issues post-concussion.
7. Highlight characteristics of guidelines to progressively return to activity as reflected by published guidelines and current best practice.
8. Identify means to increase the interdisciplinary and holistic nature of intervention for individuals with concussion who have persistent symptoms.

## COURSE DESCRIPTION

The purpose of this course is to focus on "need to know" information for PTs to identify concussion, and to examine and intervene with adolescents and adults with concussion who do not recover with rest alone. Embedded in the described approach is the need to identify the primary triggers of ongoing symptoms and recognize the need for referrals to maximize and expedite recovery.

## TENTATIVE COURSE SCHEDULE

### Day 1

8:00-9:00	Introduction/Imaging
9:00-10:30	Symptom Patterns
10:30-10:45	Break
10:45-12:15	Dizziness & cervicogenic dizziness
12:15-1:15	Lunch (on your own)
1:15-2:45	Cervical involvement, whiplash parallels
2:45-3:15	Headache & Migraine
3:15-3:30	Break
3:30-4:30	Lab focused on dizziness
4:30-5:00	Lab continued
5:15	Adjourn

### Day 2

8:00-8:45	Lab focused on cervical issues
8:45-9:45	Exertional symptoms
9:45-10:45	Psychogenic & PPPD
10:45-11:00	Break
11:00-11:30	Outcome Measures
11:30-12:00	Return to Activity-Practice Guideline Resources
12:00-1:15	Lunch (on your own)
1:15-2:30	Case examples with small group work
2:30-3:30	Discussion and feedback on cases
3:30-3:45	Break
3:45-4:15	Essential features of concussion management
4:15-5:00	Returning patients to activity & participation/ Clinical pearls; question & answer
5:15	Adjourn

## CEUs

This course provides for 1.6 CEUs. A post-course survey will be sent electronically to all registrants within 1 week after the course. The survey will contain a post-test and will assess course logistics and satisfaction. This information will help the Academy meet educational standards and strategic objectives. A participant must complete the survey within one week to obtain an emailed PDF CEU certificate.

## THE FACULTY

**Nicole Miranda, PT, DPT** has over 20 years of clinical experience in acute care and outpatient neuro-rehabilitation in large multidiscipline centers, as well as private practice and home health settings. She specializes in neuro-rehabilitation, vestibular rehabilitation and integration of sensory/motor processing across the lifespan. Her current passions involve mentoring therapists to develop critical thinking skills necessary to evaluate and treat patients with expert and compassionate care. Dr. Miranda has been an affiliate faculty member and guest lecturer at Regis University since 2005, and has published an educational resource article on concussion recovery for public access on the Vestibular Disorders Association website. Dr. Miranda is currently investigating the impact of dysautonomia and autoimmune conditions affecting concussion recovery. She has interest in digital technology and product development that could enhance differential diagnosis of symptoms related to concussion injuries.

**Tim Rylander, PT, MPT, OCS** serves as the Director of Vestibular Rehabilitation and Concussion Management for Athletico Physical Therapy. He received his Master of Physical Therapy degree from Governors State University where he is currently pursuing his Doctor of Education degree. He is also an adjunct professor of neuroscience at Governors State University's Doctor of Physical Therapy program. As a certified vestibular rehabilitation specialist and an APTA certified orthopedic clinical specialist, he utilizes an eclectic approach coupled with a model of enablement in his clinic practice and brings nearly ten years of clinical experience specifically working with individuals following TBI and concussion.

**Course Developers:** Karen Heide Lambert, PT, MPT, NCS; Karen L. McCulloch, PT, PhD, NCS; Anne Mucha PT, DPT, MS, NCS; James M. Elliott, PT, PhD; Susy Halloran, DPT; Airelle Giordano, PT, DPT, OCS, SCS; Kim Gottshall PhD, PT, ATC; Nicole Miranda, PT, DPT; Michael R. Borich, DPT, PhD; Susan Linder, PT, DPT, NCS.

## MATERIALS

**We ask that all participants bring their own Maddox Bar, Headband laser, and Brock String. Below are suggested retailers:**

Maddox Bar: Bayou Ophthalmic Instruments, Inc.: 504-734-9399

Brock string (10 feet): Bernell VTP: <http://www.bernell.com/product/3202/143>

Headband with laser pointer: <http://calcellular-store.stores.yahoo.net/led-hlp-12.html>