



Online Continuing Education Courses
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AOTA Approved Provider #4023

Course Title: Concussion 106

Subtitle: Blood-Based Biomarkers for the Identification of Sports-Related Concussion

Course Description: Sports-related concussions (SRCs) are common among athletes in the United States. Most athletes who sustain an SRC recover within 7 to 10 days; however, many athletes who sustain the injury do not recover as expected and experience prolonged, persistent symptoms. In this document, the authors provide an overview of the empirical evidence related to the use of blood-based brain biomarkers in the athlete population for diagnosis of SRCs, prognosis of recovery and return to play guidelines, and indications of neurodegeneration. The course also provide a summary of research challenges, gaps in the literature, and future directions for research.

Target Audience: PT/PTA, OT/OTA and Other Healthcare Professionals

Course Length: 1 hour

Course Instructor: Brown, MS, OTR/L, CHT

Educational Level: Introductory, Intermediate, Advanced

The course is written at the intermediate level, but learners of all levels will benefit from the information.

Course Objectives:

At the end of the course, participants will be able to:

- Describe the neurobiology of serum biomarkers for traumatic brain injury and list 3 blood-based brain biomarkers of sports-related concussion
- Describe the diagnosis of sports-related concussion using blood-based biomarkers
- Describe the role that serum biomarkers play in the prognosis of symptom resolution and return to play
- Describe the diagnostic process for chronic traumatic encephalopathy
- List 3 challenges that need to be addressed before the use of blood-based biomarkers can be used on the sideline

Outline of Content:

Hour #1

- Key points

- Introduction
- Neurobiology of serum biomarkers for traumatic brain injury
- Overview of blood-based biomarkers of sports-related concussion
 1. Diagnosis of Sports-Related Concussion
 2. Prognostication of Symptom Resolution and Return to Play
 3. Neurodegeneration
- Challenges and future directions

Instructional Methods and Formats:

Online course available 24/7 at www.OnlineCE.com includes Audiovisual format and PDF downloadable handout. See course formats for additional details.

Course Completion Requirements:

A minimum passing score of 100% is required for course completion. You will have as many attempts as needed until your passing score of 100% is achieved. Upon successful completion of course, you will receive your certificate of completion.

Additional Policies:

OnlineCE Policies are available by clicking on the tab – Policies – located in the left-hand navigation bar.