

Course Title: Concussion 106 – 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: OT / OTA and other healthcare professionals

Course Type: Video vs. Text-based

Educational Level: Beginner, Intermediate, Advanced

CE Hours: 1 contact hour / .1 ceu

Course Prerequisites: None

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

Learning Objectives:

- 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

Agenda:

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

Course Completion Requirements:

A 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 and completing a satisfaction survey, you will receive your certificate of completion.

Additional Course Information

Course Registration: Register for Free at www.OnlineCE.com. Once registered, you can begin to purchase courses. Contact info@onlinece.com for special needs requests and assistance.

Refund Policy: There will be no refunds for courses taken at OnlineCE.com or monies deposited into My CE Bank. Any money on account will be used for taking future courses. If you start a course in error, or if you are dissatisfied with a course, please contact us in the first part of the course and we will void the course and you can select a replacement course.

Cancellation Policy: Only available courses are offered online and on-demand and available for purchase. No registration fees are collected for courses that are not provided on-demand. Due to the online and on demand format, courses are not cancelled.

Course Date and Location: This is an independent course that is available 24/7 on-demand at www.OnlineCE.com.

Required Materials and Equipment: Courses offered on OnlineCE.com can be accessed on any type of computer or device. No special software is required but we do recommend the use of the Chrome Browser (recommended, not required). All course materials are contained within the courses and no prerequisites are required.



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