

Course Title: Concussion 105 – Pathophysiology of Sports Concussion

Course Description: Concussion pathophysiology is complicated and involves numerous mechanisms, including excessive neurotransmitter release, metabolic derangements, neuroinflammation, cerebral blood flow changes, and axonal disruption. The initial biomechanical impact of a concussion results in abnormal function at the cellular level, which initiates a cascade of events that leads to microstructural changes and, in the minority of cases, more persistent, permanent damage.

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:

- Provide the most commonly accepted definition of “concussion” by McCrory
- Describe 3 mechanisms involved in the pathophysiology of sports concussion
- Describe cerebral blood flow changes that occur in sports concussion
- Outline 4 symptoms and the pathophysiology that occurs with sports concussion

Agenda:

Hour #1

Key points Introduction

Definition of concussion

1. Pathophysiology in Sports Concussion

Neurotransmitter dysregulation

Metabolic mismatch

Neuroinflammatory response

Cerebral blood flow changes

Diffuse axonal injury

Chronic pathophysiology

Symptoms and pathophysiology

Summary

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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