

Course Title: Concussion 110 – Imaging of Concussion in Young Athletes

Course Description: Conventional neuroimaging examinations are typically normal in concussed young athletes. A current focus of research is the characterization of subtle abnormalities after concussion using advanced neuroimaging techniques. These techniques have the potential to identify biomarkers of concussion. In the future, such biomarkers will likely provide important clinical information regarding the appropriate time interval before return to play, as well as the risk for prolonged post-concussive symptoms and long-term cognitive impairment. This article discusses results from advanced imaging techniques and emphasizes imaging modalities that will likely become available in the near future for the clinical evaluation of concussed young athletes.

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 gender differences in concussion
- Describe factors and considerations regarding the timing of imaging
- Discuss considerations regarding patient selection for imaging
- Describe two pathological findings on imaging of an individual with concussion
- Outline 3 Current concerns regarding imaging of sports-related concussion
- List and describe 5 important things that referring physicians need to know

Agenda:

Hour #1

Key points

Introduction

Epidemiology

Sex differences in concussion

Considerations regarding timing of imaging

1. Normal Anatomy and Imaging Technique

1. Traditional clinical anatomic imaging

2. Considerations regarding patient selection for imaging

2. Imaging Findings/Pathology

1. Clinical anatomic imaging

2. Structural quantitative high-resolution magnetic resonance imaging

3. Tissue architecture diffusion tensor imaging
 4. Susceptibility-weighted imaging of microhemorrhage
 5. Regional blood flow imaging
 6. Functional magnetic resonance imaging
 7. Metabolic imaging
 8. Current concerns regarding imaging of sports-related concussion
3. Diagnostic Criteria (List)
 4. Differential Diagnosis (List/Callout Box)
 5. What Referring Physicians Need to Know (List)
- 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.

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

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