

Evidence-Based Concussion Certification Workshop

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Day 1

- I. Introduction
 - a. Functional Anatomy and Physiology
- II. Concussion Basics
 - a. What is a concussion?
 - b. Structural vs. metabolic damage
 - c. Implication of concussions
- III. Cortical vs. Labyrinthine Concussion
 - a. Functional anatomy of the inner ear
 - b. Who is at risk for concussion?
 - c. Signs and symptoms of concussion and TBIs
- IV. Neurocognitive Assessment and Management
 - d. Neuropsychology of concussion
 - e. Neurocognitive testing and management
 - f. Executive control assessment and management
 - g. Review of evidence based literature

Day 2

- I. Labyrinthine/Vestibular Assessment
 - a. Central Vestibular Compensation
 - b. Interactive demonstrations
 - c. Balance assessment
- II. Benign Paroxysmal Positional Vertigo (BPPV)
 - a. Pathophysiology
 - b. Identification of BPPV sub-types
 - c. Interactive assessment techniques
- III. The Role of Vestibular Rehabilitation Therapy (VRT) with Concussion
 - a. Review of Literature
 - b. Diagnosis Based Strategies
 - c. Vestibular Assessment Tools
 - d. Adaptation, Habituation, and Substitution

Day 3

- I. Building A Concussion Management Strategy
 - a. American Institute of Balance Vestibular-Cognitive Integration (AIB-VCI)
 - b. Interactive demonstrations
 - c. Score Interpretation
- II. Case Studies
 - a. AIB-VCI usage with and without heart rate incorporation
- III. Summary & Conclusions

Syllabus timeline is for general purposes only. Depending on interest of the class, depth of discussions, questions, demonstrations and any hands-on, timeline may be adjusted. All content, however, will be covered.