

State of the Science: Clinical, Metabolic and Pathologic Effects of Multiple Concussions

Jan. 16, 2014 – 1-2:30 p.m. ET

During the past few years, professional athletes and their families have become increasingly concerned about the long-term neurologic effects of repeated concussions. The premature deaths of several professional football players has drawn attention to the relationship of multiple concussions with neurocognitive disorders that occur decades after these injuries, although similar changes in the brain were associated with boxing and first described in the 1920s.

This webinar will examine the findings of laboratory and clinical studies on the mechanisms responsible for brain injury following one or multiple concussions. The presentation will address a particular focus on a class of proteins called Tau protein and its association with some of the histologic features of multiple concussions with Alzheimer’s disease.

At the conclusion of this webinar, participants will be able to:

- Describe the pathophysiology of concussion.
- Summarize metabolic abnormalities caused by concussion and the window of vulnerability of the brain to a second concussion.
- Identify the long-term changes in patterns of protein deposition possibly associated with multiple concussions.
- Articulate the possible association of multiple concussions and long-term cognitive deficits.



Speaker:

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Speaker:

David A. Hovda, Ph.D.
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Speaker:

J. Clay Goodman, M.D., F.A.A.N.
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Moderator:

Donald Marion, M.D., M.Sc.
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For more information and to register for this free webinar, visit dvbic.dcoe.mil/online-education.

Visit dvbic.dcoe.mil for information on these and other webinars:

- The Battle Within: TBI, PTSD and Violence Risk
- Post-traumatic Headaches in the Military Population: Initial Management and Alternate Approaches
- Advancing TBI Care for Veterans: Updates from the Polytrauma System of Care
- Assessment of Effort and Validity in Neuropsychological Testing: The Importance of Determining Symptom Credibility
- Coaching Student Veterans and Service Members with mTBI
- The Role of Integrative Medicine in the Treatment of TBI

The mission of the Defense Centers of Excellence for Psychological Health and Traumatic Brain Injury (DCoE) is to improve the lives of our nation’s service members, families and veterans by advancing excellence in psychological health and traumatic brain injury prevention and care.