



US DEPARTMENT OF DEFENSE
BLAST INJURY RESEARCH PROGRAM
COORDINATING OFFICE

Education and Clinical Tools

Injury Prevention - Reset - Vision Trauma Research

VCE's work addresses effective solutions for the mitigation, diagnosis, and treatment of mTBI in Service Members and the potential development of vision restoration devices for Service Members who have sustained eye injuries. Additionally, VCE works towards both the better mitigation and treatment of traumatic eye injuries sustained by Service Members as well as better rehabilitation and reintegration strategies for Service Members with eye and vision dysfunction. Researchers at VCE work in collaboration with a wide variety of government and private sector partners to identify emerging clinical needs and address them through directed research efforts. VCE maintains its lead role in the development of the DoD vision research portfolio by chairing and participating in the USAMRMC CDMRP Vision Research Program Steering Committee activities, including identifying and updating vision research gaps, developing research program announcements, and reviewing proposals. In FY14, VCE chaired an expert working group in collaboration with the CCCRP to identify studies that support the potential uses of eye-movement techniques and technologies for the assessment of mTBI and concussion. Results were documented in a report, "Traumatic Brain Injury Detection using Oculomotor and Eye Movement Tracking – A Technical Working Group Critical Review." This report will be used to inform an IIPT at USAMRMC and will contribute to the selection and development process of effective solutions for mTBI in Service Members. VCE has also completed a manuscript of this report that will be submitted for publication in a peer-reviewed journal.