

Traumatic Brain Injury Study: VBIS & Christie Lab

Inclusion Criteria	Exclusion Criteria
<ol style="list-style-type: none"> 1. A self-reported history of moderate to severe traumatic brain injury: as defined by a loss of consciousness for greater than 30 minutes, posttraumatic amnesia for greater than a day, and a Glasgow Coma Scale score of 3-12 (if you received a score); 2. Greater than 1 year since most recent TBI; 3. 19 years of age or older; 4. Willing to provide physician, health practitioner, or walk-in clinic information in case of incidental findings 	<ol style="list-style-type: none"> 1. Presence of any diagnosed neurodegenerative disorder; 2. Presence of any diagnosed visual impairment that could impede NeuroTracker training (e.g., colour blindness, monocular vision, blindness); 3. Participation in NeuroTracker training within the past year; 4. Presence of severe aphasia or cognitive deficits that would impede participation in the intervention

Study purpose: To examine if a cognitive training intervention can improve outcomes following chronic moderate to severe traumatic brain injury. Specifically, how does it affect performance on neuropsychological assessments and biomarkers of oxidative stress, inflammation, and aging.

What is involved?

- Research intake: We will go over your history of brain injury and record demographic variables.
- Baseline assessment: Blood and saliva collection (at UVic) + neuropsychological assessment (online from home).
- Assignment to study group: Intervention or control group.
 - Note: the control group will have the opportunity to participate in the intervention following completion of the study.
- 5-weeks of NeuroTracker cognitive training (or activities as usual for control group)
 - 2 sessions per week (20-30 minutes each session)
 - Done online at-home
- Follow-up: Blood and saliva collection (at UVic) + neuropsychological assessment (online from home)
- 1-month follow-up: Blood and saliva collection (at UVic) + neuropsychological assessment (online from home)
- Done!