

# **Experiencing problems with: Thinking? Memory? Concentration? Study seeks participants who have had one or more Traumatic Brain Injuries**

**VA Boston Healthcare System, Jamaica Plain campus, and  
Boston University School of Medicine, Department of Neurology**

## **Investigational Research: Light Therapy to Improve Cognition in Traumatic Brain Injury (TBI) Study.**

### **Seeking Veterans, Non-Veterans, Athletes – Men and Women**

The VA Boston Healthcare System, Jamaica Plain campus, and Boston University School of Medicine, Department of Neurology, are recruiting study participants who have had TBI(s) and are willing to travel to Boston. The purpose of this research study is to examine whether light-emitting diode (LED) treatment applied to the head can improve thinking and memory in people who have suffered one or more traumatic brain injuries (TBI). After a TBI, some cells in the brain may not fully recover. Applying light to the head, in specific red and near-infrared wavelengths, may help to repair cells that may not be functioning properly after injury.

- **Participation will include visits to the VA Boston Healthcare System and Boston University Center for Biomedical Imaging. Participants undergo the following:**
- Screening for Eligibility
- Memory and Thinking Tests
- Mood and Behavior Questionnaires
- MRI Scan of the Brain
- LED, Light-Therapy Treatments, which are painless and non-invasive

### **Some requirements to enter the study:**

- Ages 18 - 75. May be a veteran or a non-veteran.
- Are willing to travel to Boston for testing, treatment, and follow-up appointments.
- Must have experienced TBI(s) at least 6 months ago, prior to the screening visit.
- The TBI(s) may be mild to moderate, associated with car accidents, blast injury in veterans, and work-related or sports related injuries, including repetitive head impacts as may occur in American football, ice hockey, soccer, etc.

For more information, or to find out if you are eligible to participate contact the LED Neuromodulation Research Team at: **(857)-364-4029.**