

Participate in Research

The Effect of Multi-Session Transcranial Direct Current Stimulation (tDCS) on Cognitive Performance in Youth with Persisting Concussion Symptoms



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CONTACT INFORMATION:

TO ASK QUESTIONS OR TO SIGN UP, CONTACT

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Bloorview
RESEARCH INSTITUTE

Canada's Only Hospital-Based
Childhood Disability Research Institute

Holland Bloorview
Kids Rehabilitation Hospital

Do you have trouble with lasting symptoms after a concussion? Participate in a clinical trial about non-invasive brain stimulation:

What is this study about:

Some youth with concussion have symptoms weeks after their injury, such as problems with multitasking. We want to see if transcranial direct current stimulation (tDCS), which delivers a low level of electricity to the brain, can help reduce these symptoms.

Who can participate?

We are looking for adolescents ages 13-18 who

- Have experienced a concussion at least 4 weeks ago
- Still have symptoms
- Meet certain safety criteria
- A total of 30 adolescents will be able to participate

What's involved?

- Three visits (2 hours, 1 hour, and 1 hour sessions) spaced over one week to Holland Bloorview for tDCS and doing a computer task
- Sharing some medical information
- Being assigned to either a control (low brain stimulation) or experiment (higher brain stimulation) group

Potential Benefits?

- It's possible tDCS may help some of your symptoms, like difficulty with multi-tasking.
- We may learn more about the usefulness of tDCS in youth with lasting concussion symptoms.

Potential Risks?

- Some people find the tDCS sensation uncomfortable, or develop a headache
- Possible fatigue when completing questionnaires

Participants will receive high school volunteer hours, a small token of appreciation to thank them for their time, as well as reimbursement for parking or TTC expenses.

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