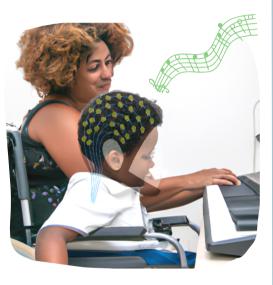
PARTICIPATE IN RESEARCH

Quantifying Behavioral and Neurologic Plasticity Induced by EEG Brain Computer Interface-Enabled Neurologic Music Therapy in Children with Cerebral Palsy



PRINCIPAL INVESTIGATOR: Dr. Tom Chau

CENTRE FOR LEADERSHIP: Innovations



CONTACT INFORMATION:

To ask questions or sign up, please contact:

Jenny Tou

PhD Candidate PRISM Lab, Bloorview Research Institute 416-425-6220 x3085 jtou@hollandbloorview.ca

eREB #: 0642

Date Posted: May 1, 2024 Version Date: April 2, 2024

How do children's brains change with music therapy?

Help us design and test ALPACA- a brain-controlled music instrument for children with cerebral palsy!

WHAT IS THIS STUDY ABOUT?

We are developing a system for children with cerebral palsy to play music by the brain in music therapy sessions. We also investigate changes in the brain after using this music instrument system for 8 weeks.

WHO CAN PARTICIPATE? Children with cerebal palsy

- 8-19 years old
- Able to provide a yes/no response (non-verbal/ verbal cues)
- Have normal or corrected-to-normal hearing and vision
- Able to follow simple instructions in English
- X Metallic implants or fragments in the body
- 🗙 History of photosensitive epilepsy or psychosis

WHAT'S INVOLVED?



Learn to use the brain-controlled music instrument in **16 music therapy sessions** (2 sessions x 8 weeks). Each session is 1 hour.



2 MRI brain scan sessions. Each session is 1 hour.
2 EEG brain waves sessions with attention challenges for children.
" Each session is 1.5 hours.

POTENTIAL RISKS?

There is no known risks associated with music therapy, MRI or the EEG.

POTENTIAL BENEFITS?



• You will receive 8 weeks of complimentary music therapy sessions from qualified music therapists.



qualified music therapists. Your participation in this study will help us design new music-based

rehabilitation and accessible music instruments for children with disabilities!

TOKEN OF APPRECIATION



You will receive a small token of appreciation each session to thank them for their time.

Parking will be covered for sessions at Holland Bloorview.

Bloorview RESEARCH INSTITUTE

Canada's Only Hospital-Based Childhood Disability Research Institute

Holland Bloorview

Kids Rehabilitation Hospital