

Participate in Research

Dynamic Noise Reduction in Accelerometer-based Mechanomyography during Pediatric Gait

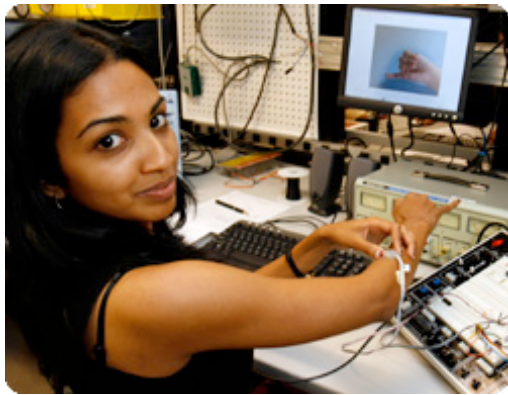


Principal Investigator:

Dr. Tom Chau

Centre for Leadership:

Bloorview Research Institute



TO ASK QUESTIONS OR TO SIGN UP, CONTACT:

Katherine Plewa

(kplewa@hollandbloorview.ca)

Date Posted:

Are you a healthy youth?

Participate in a walking study to measure the properties of MMG sensors

What is this study about:

When muscles contract to move or hold an object, they create small movements that can be recorded by a system called mechanomyogram (MMG). The purpose of this study is to compare two different ways of filtering MMG signals when the participant is walking and their muscles are contracting.

Who can participate?

We are looking for:

- Healthy Youth (8-18 years)
- No previous musculoskeletal or neurological conditions (such as spinal cord injury or cerebral palsy)
- No use of walking aids

What's involved?

- Only one half hour session
- Non-invasive sensors will be taped to 6 different parts along both legs
- The task is to walk for 15-mins around a gym at a comfortable speed
- Small muscle movements will be measured during walking

Potential Benefits?

- Information from this study will help us use MMG in rehab and technologies that help youth with disabilities communicate.

Potential Risks?

- Small discomfort when removing the tape and sensors