

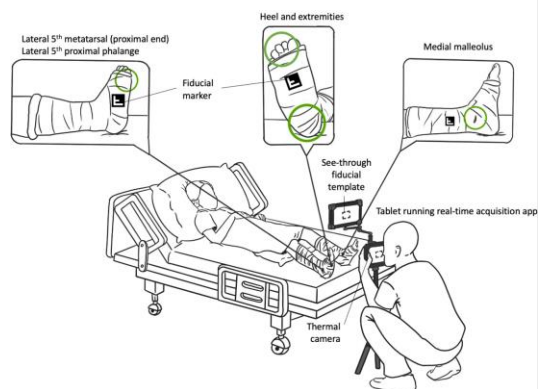
Participate in Research

Describing the relationship between the temperature profiles of the skin covered by a leg cast and the health of that skin in hospitalized children with disabilities



Principal Investigator:

Dr. Tom Chau



CONTACT INFORMATION:

To ask questions or to sign up, please contact:

Jason Leung

PRISM Lab

Bloorview Research Institute

jleung@hollandbloorview.ca

416-425-6220 x6236

Date Posted:

Version Date: July 24, 2024

eREB#: 0723

Is your child staying at Holland Bloorview for a leg cast?

Consider participating in our research study to monitor pressure injuries in children with a leg cast.

What is this study about?

Children with disabilities are at risk of having pressure injuries from long stays at the hospital. This is especially a concern for non-verbal or pre-verbal children since they cannot express discomfort and may have reduced sensation. We are investigating the use of thermal imaging to monitor pressure injuries due to leg casts. The study involves collecting thermal images of the casted limbs and clinical assessments of skin condition twice a day over one week. This research may help us develop technology to monitor and prevent pressure injuries for patients in the future.

Who can participate?

To be eligible to participate in the study, you must:

- Be 18 years old or under,
- Be able to independently communicate in English without requiring an interpreter,
- Are admitted for inpatient rehabilitation at the Specialized orthopedic and developmental rehab (SODR) unit,
- Have a leg cast (plaster or fiberglass) that will stay on for at least 1 week,
- Are at risk for a pressure injury,
- Can tolerate 5 minutes of thermal imaging at a time.

What's involved?

- We will collect some personal health information about you, such as personal characteristics, primary diagnosis, details of your orthopedic surgery and casting, pressure injury risk and prevention strategies.
- **Thermal imaging sessions** of 10 minutes per day over 1 week. Images of your leg cast and the room will be taken twice daily (morning and evening) on weekdays. This will take 5 minutes each.
- Your clinician will periodically check your skin condition and assess any pressure injuries (if present).

Potential benefits?

You will not benefit directly by participating, but you will help us develop technology for monitoring pressure injuries in children.

Potential risks?

You may get tired during the sessions. You will be able to take breaks and rest if that happens.

Participants will receive a gift card to thank them for their time.