

Participate in Research

Monitoring pressure injuries under casts in children with disabilities



Principal Investigator:
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CONTACT INFORMATION:

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Does your child have a leg cast and is receiving care at Holland Bloorview?

They may be eligible to participate in our research study on monitoring the risk of pressure injuries.

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 children with disabilities who cannot express their discomfort and may have reduced sensation. We are investigating the use of thermal imaging to monitor the risk of pressure injuries under leg casts. The study involves collecting thermal images of your leg cast until it is cut open. 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 meet the following:

- Are 18 years old or under,
- Are within the first week of admission to any inpatient unit at HB,
- Have a full leg cast that is expected to remain in place for at least 1 week,
- Can keep your leg still for 30 minutes at a time for imaging

What's involved?

- We will collect information about your demographics, personal health, skin color, primary diagnosis, and details of your orthopedic surgery and cast.
- We will take thermal images of your leg twice daily (morning and evening). Each session will take up to 30 minutes. This will be done every weekday for up to 6 weeks or until your cast is cut open.
- 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.