

## ABSTRACT SUBMISSION FORM

LET'S TALK ABOUT

# SEX + GENDER

Exploring the role of sex and gender on health research



## CHR D 2020: Abstract Submission Form

### Submitter Name

Mandy Archibald

### Email

mandy.archibald@umanitoba.ca

### Title

Developing a Living Lab for Patient-Engagement and Knowledge Exchange in Pediatric Rehabilitation: Interim Results from a Mixed Methods Co-Design Project

### Background

: A continued health systems and health research emphasis on person-centered care and user experiences mandates innovation in sustained and integrated knowledge translation practices. Living labs have emerged as one such potential innovation, and are defined as user-centered, open-information sharing systems involving multiple stakeholders. While typically used to support aging in place initiatives, living labs have pronounced potential as a user-centered and integrated knowledge translation approach. However, living labs are underexplored in pediatric contexts, and underdeveloped as knowledge translation devices. This research responds to this gap by co-designing the first living lab for knowledge exchange in pediatric rehabilitation.

### Objective

To co-design the first living lab for knowledge exchange in pediatric rehabilitation.

### Methods

An exploratory sequential mixed methods study involving a transdisciplinary team and parental advisory group (PAG) is in progress. Interpretive qualitative and arts-based research with 18-21 youth, siblings, and parents/guardians (stage 1) will inform e-surveys (stage 2) for a projected sample of 455 youth, siblings, parents/guardians and clinicians, designed to identify and expand on research priorities and features of the living lab. Integrated crossover analysis and collaborative insights from our PAG and engineering team will inform development of the living lab (stage 3).

### Results

Stage 1 interim results from 14 youth, sibling and parental participants demonstrates under-engagement and concurrent interest for higher-research engagement in pediatric rehabilitation and development. We identified a strong orientation towards story sharing with a concurrent emphasis on individuality and

uncertainty about the future. Scaffolded lab development is commencing to enable early data on system functionality and user-engagement.

### Conclusion

This research will generate context-specific evidence for research exchange practices in pediatric rehabilitation and provide proof-of-concept data for living lab co-design generalizable to other health jurisdictions. Living labs as knowledge exchange systems is a novel innovation on integrated knowledge transition research, providing opportunities to systematize patient experience data to improve health services provision for families.

### Theme:

Clinical

### Do you have a table/figure to upload?

No

### Are you willing to participate in Goodbear's Den?

No

### Presenter Status:

Non-Trainee

### What was your role in the project?

Design

## Authors

Name	Email	Role	Profession
Mandy Archibald	mandy.archibald@umanitoba.ca	Presenting Author	Assistant Professor
Sandra Wiebe	sandra.wiebe@umanitoba.ca	Presenting Author	Research Coordinator
Kristy Wittmeier	kristy.wittmeier@umanitoba.ca	Co Author	Associate Professor
Carrie Costello		Co Author	Parent Advisor
Florencia Ricci		Co Author	Assistant Professor
Kelly Russell		Co Author	Associate Professor
Roberta Woodgate		Co Author	Distinguished Professor
Shea Hunt		Co Author	Electronics Engineer – Rehabilitation Engineering
Matthew Gale		Co Author	Manager, Rehabilitation Engineering