Youth Engagement in Research Partnerships: Exploring Training Needs of Youth with Neurodevelopmental Disabilities

**Presenter: Samantha Dong** 

Supervisor: **Dr. Jan Willem Gorter** 

Co-supervisor: Linda Nguyen

**Pediatrics** 

McMaster Child Health Research Day 2022













## **BACKGROUND**

**Patient-oriented research (POR)** is a "continuum of research that engages patients as partners, focuses on patient-identified priorities and improves patient outcomes" according to the Canadian Institutes of Health Research.<sup>1</sup>

## What are the gaps?

Lack of tailored POR training available for youth with neurodevelopmental disabilities (NDD) ages 18-25

Needs and training opportunities expressed by youth with NDD at CP-NET Stakeholder Meeting

# Formation of CanChild's Youth Engagement in Research Team in August of 2020



Jan Willem Gorter
Principal Investigator
Physician-Scientist



Samantha Dong
Student Investigator
BHSc Candidate
Knowledge Translator



Co-Investigator
PhD Candidate
Sibling Engagement in



Amanda St. Dennis
Co-Investigator
Disability Studies Graduate
Lived Experience



Amanda Doherty-Kirb
Co-Investigator
Family Engagement in Researc
Course Graduate
Parent of Youth with Lived



Danny Steeves
Co-Investigator
Podcast Host
Lived Experience



Natasha Trehan
Co-Investigator
BSc Student
Lived Experience



Jessica Geboers
Co-Investigator
Journalist
Lived Experience



Andrea Cross
Co-Investigator
Co-Developer of the Family
Engagement in Research



Dayle McCauley
Co-Investigator
Research Development



Alice Kelen Soper
Co-Investigator
PhD Student
Family Engagement in
Research Teaching Assistan

# **RESEARCH QUESTIONS**

1) What are the training needs for adolescents and young adults with neurodevelopmental disabilities to enhance their knowledge, confidence, and skills, as research partners?

2) What are the benefits and challenges of engaging in an integrated knowledge translation (iKT) research approach?



# **METHODS**

#### **Phase I: Individual Interviews**



Youth with NDD (age 18-25) are consulted about barriers and needs in POR.

# Phase II: Virtual Symposium September 15 & 25, 2021

Youth and researchers from various NDD networks were invited to further discuss training needs, brainstorm delivery methods, and prioritize training topics.



## **Phase III: Training Material Development**

Co-development of training opportunities for youth and researchers.

Data from interview, virtual symposium, and the literature will inform the training material content.

# **Qualitative Content Analysis**

- Two members independently analyze each transcript from interviews via Dedoose.
- Interview and virtual symposium data compared.
- Generated codes were organized into a codebook.

Knowledge Translation (Ongoing)

# **METHODS**

### Integrated Knowledge Translation Approach (iKT)

- Co-investigators: four youth with lived experience, one parent with lived experience, and five researchers
- Communication methods: monthly full team meetings, email correspondence, individual check ins between student investigator and partners before each study phase
- Tools: Involvement Matrix (track tasks and level of contribution) during individual check ins; Public and Patient Engagement Evaluation Tool questionnaire administered to partners at the end of each phase (reflect on the iKT process)<sup>2,3</sup>

### Patient partners' contributions throughout the research process

## **Preparation**

- Co-designed protocol
- Shaped focus group and interview questions
- Filmed recruitment videos
- Provided feedback on ethics and grant application

#### **Execution**

- Recruited participants
- Conducted focus groups and interviews
- Co-hosted and facilitated the virtual symposium
- Collaboratively analyzed qualitative data

# **Knowledge Translation**

- Co-developed prototypes of training opportunities (video and infographic)
- Co-presented findings at research conferences
- Manuscript preparation

<sup>2.</sup> Smits DW, Van Meeteren K, Klem M, Alsem M, Ketelaar M. Designing a tool to support patient and public involvement in research projects: the Involvement Matrix. Research involvement and engagement. 2020:6(1):1-7.

<sup>3.</sup> Public & Patient Engagement | PPE Evaluation Tool [Internet]. healthsci.mcmaster.ca. 2018. Available from: https://healthsci.mcmaster.ca/ppe/our-products/public-patient-engagement-evaluation-tool

# **PRELIMINARY RESULTS**

#### **Phase I: Interview**

What are the training needs for adolescents and young adults with neurodevelopmental disabilities to enhance their knowledge, confidence, and skills, as research partners?

Table 1. Interview Demographic

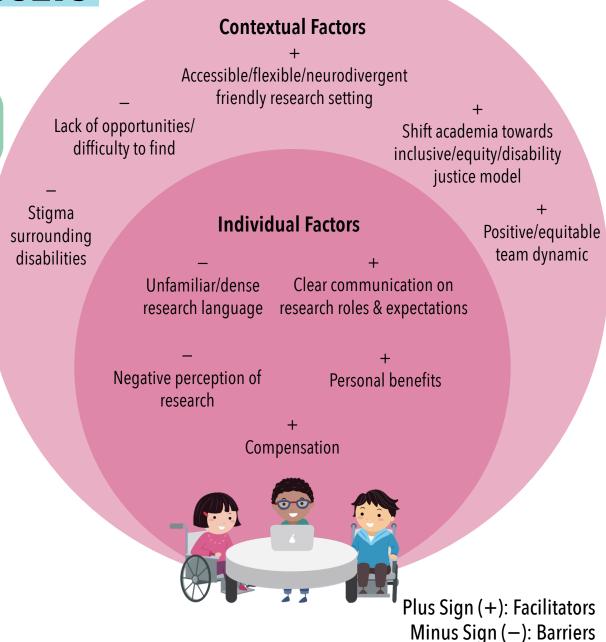
		n	%
Youth (age 18-25)		7	100%
	ASD	1	25%
	СР	2	25%
	ADHD	3	38%
	ASD and ADHD	1	13%
Gender	Male	2	25%
	Female	3	38%
	Other	2	25%

#### Acronyms

ADHD: Attention Deficit Hyperactivity Disorder

ASD: Autism Spectrum Disorder

**CP: Cerebral Palsy** 



## PRELIMINARY RESULTS

#### **Phase II: Virtual Symposium**

What are the training needs for adolescents and young adults with neurodevelopmental disabilities to enhance their knowledge, confidence, and skills, as research partners?

Table 2. Virtual Symposium Demographic

		n	%
Total Participant		17	100%
Youth (age 18-25)		10	59%
	ASD	1	6%
	CP	4	24%
	ADHD	3	18%
	ASD and ADHD	1	6%
	CP and ASD	1	6%
Researchers		7	41%
Gender			
	Male	5	29%
	Female	11	65%
	Other	1	6%

### **Prioritized Training Topics**

- Communication training between youth and researchers
- 2. Research roles and responsibility
- 3. Finding research partnership opportunities

### **Potential Training Formats**

- Mentorship (personal check-ins)
- Online interactive modules
- Integrate quizzes, activities, and reflections
- Simulations (e.g., scenarios + solutions)
- Videos with a person speaking 'to you'
- Whiteboard animations with narrator voiceover

## **DISSEMINATION**

#### **Presentations**

2021 Children's Healthcare Canada Conference



2021 CP-NET Science and Family Day



# **NEXT STEPS**

- Co-develop a training material prototype (e.g., videos and infographics) – created by youth and researchers for youth and researchers.
- 2. Complete the manuscript, which will report on the results from the interviews and virtual symposium.



### **Potential Impact**

Training opportunities could bring more lived experiences onto research teams, ensuring more meaningful and relevant research that benefit patient stakeholders.

# INSTRUCTIONS

**DELETE this slide prior to submitting your presentation** – it is intended for guidance only

#### Slide structure & submission

- The goal is to highlight the significance of your work by presenting complex information in an engaging, accessible, and compelling way.
- Your presentation should contain 8 slides: 1 title slide + 7 content slides
- The 7 content slides should address the following (select headers applicable to your research): background, research question, methods, results, discussion, knowledge translation/next steps/implications of the work.
- You will need to convert your final 8 slides (1 title slide + 7 content slides) from Powerpoint to PDF (File>Save As Adobe PDF). Use the last name of the principal applicant & Session # as the file name (e.g. Smith A1).
- Once registrations have been processed, you will receive a link to upload your slides <u>as a single PDF file</u> (1 title slide + 7 content slides). Use the last name of the principal applicant & Session # assigned as the file name (e.g. Smith A1).
- The deadline for submission is March 23, 2022.

#### What to expect

- Each presenter will have 5 minutes to deliver an oral presentation of their work. An additional 3 minutes will be allotted for questions from the audience.
- Presentation sessions will be facilitated by a faculty member.
- Slides will be managed centrally during the session. Your session's administrative lead will display and advance your slides on your cue ('next slide, please'). Please also have your slide deck available/open on your computer in the event of unforeseen technical issues.