RESEARCH PORTFOLIO
2017-2022
About Us

Grandview Children’s Centre is an independently operated not-for-profit organization. We are the only Children's Treatment Centre in Durham Region providing specialized programs, outpatient clinical treatment, and support to thousands of children and youth with special needs and their families.

Grandview offers a variety of programs and services including:

- Occupational Therapy
- Physiotherapy
- Speech-Language Pathology
- ABA-based Autism Services
- Medical Services
- Social Work Services
- Audiology
- Preschool Outreach Program (POP)
- Specialized Clinics: including Orthopaedics, Orthotics and Muscle Tone
- Therapeutic Recreation

Our Mission

Every child and youth living life at their full potential.

Our Vision

To provide family-centred paediatric and rehabilitation services for children and youth with physical, communication and developmental needs.

Our Values

- Caring and Commitment
- Whole Child and Family-Centred
- Trust and Respect
- Innovation and Continuous Learning
- Accountability
- Excellence

Seven locations across Durham Region
Main site: 600 Townline Road South
Oshawa, Ontario L1H 0C8
905.728.1673 or 1.800.304.6180
www.grandviewkids.ca
Table of Contents

Research Philosophy ................................................................. 4
Research Project Approval Process .......................................... 5
Grandview Children’s Centre Research Committee .................. 5
Current Research ...................................................................... 6
Past Research .......................................................................... 9
  Recent Publications ................................................................ 13
Formal Quality Improvement Projects & Invited Lectures .. Error!
Bookmark not defined.
Research Philosophy

Grandview will build knowledge through innovation, high quality research and partnerships that propel the field of childhood disability forward.

Grandview’s participation in research will aim to foster hope and improve quality of life, social inclusion, and community participation for “Grandview Kids” and their families.
Research Project Approval Process

All projects involving Grandview Children’s Centre (GCC) clients and/or their families must be approved by the Grandview Children’s Centre Research Committee (GCCRC). The GCCRC meets bi-monthly to review internal and external research applications.

For an application to be reviewed, applicants are required to complete the Grandview Children’s Centre Application for Approval of a Research Study, provide a copy of their Research Ethics Board Approval, and submit appropriate supporting documentation. Applications are reviewed for their relevance to GCC clients and families, alignment with GCCRC’s Research Philosophy and Guiding Principles, feasibility, and impact on GCC staff, clients, and their families. Feedback and requests for additional information may be provided to applicants before projects are approved.

Grandview Children’s Centre Research Committee

The Grandview Children’s Centre Research Committee (GRCCRC) was established in 2008 to evaluate and approve internal and external project applications involving GCC clients and/or their families.

The GCCRC is currently comprised of eleven members, including two Ex-officio members and a Recorder. It is led by the Medical Director of GCC and has representation from Occupational Therapy, Speech-Language Pathology, Client Services, Physiotherapy, Medical Services, Research, Ontario Tech University and the GCC Family Advisory Committee. Each member sits on the GCCRC for a two year term with an option of a two year renewal.

Below is a list of the current GCCRC members.

- **Dr. Carolyn Hunt**, Medical Director & Developmental Pediatrician (Chair)
- **Jackie Down**, Medical Services Assistant (Recorder)
- **Lindsay Gurr**, Physiotherapist
- **Janet Isaac**, Clinical Manager, Occupational Therapy
- **Angela Kielbowski**, Research Assistant
- **Dr. Shannon Knights**, Developmental Pediatrician
- **Karen Jagne**, Communicative Disorders Assistant
- **Anna Murray**, Service Navigator
- **Heather Shearer**, Family Advisory Committee Member
- **Leslie Suite**, Director of Clinical Services (Ex officio)

The GCCRC can be reached via email at research.committee@grandviewkids.ca
Current Research

The following is a list research projects which are currently in progress.

1. **Childhood Cerebral Palsy Integrated Neuroscience Discovery System (Phase 2 & 3): Clinical Database Platform**
   The purpose of this project is to improve understanding of cerebral palsy (CP), including its etiology, and accelerate the development of new treatments. This project is considered Phase 2 & 3 (Childhood Hemiplegic Cerebral Palsy Integrated Neuroscience Discovery Network was Phase 1). The Clinical Database is comprised of five focus areas: Genomics, Clinical Risk Factors, Neuroimaging, Neurodevelopmental, and Psychosocial and Participation.

   **Partner:** Holland Bloorview Kids Rehabilitation Hospital, Ontario Brain Institute (OBI)
   **Collaborators:** Darcy Fehlings and team
   **GCC Staff Involved:** Carolyn Hunt, Angela Kielbowski
   **Type:** Multi-faceted – Grandview is a recruiter site for the CPNET Clinical Database
   **Status:** Ongoing, 2013-2023

2. **Developing an Autonomous Wheelchair Application for School Aged Children with Cerebral Palsy (CP)**
   This project seeks to develop an autonomous wheelchair for use by school-aged children with Cerebral Palsy (CP).

   **Partner:** University of Ontario Institute of Technology
   **Collaborators:** Scott Nokleby, Heta Diwan and team
   **GCC Staff Involved:** Janet Isaac
   **Status:** Ongoing – awaiting additional funding

3. **Province of Ontario Neurodevelopmental Disorders Network (POND-Network): Characterizing Autism**
   This multi-faceted research study seeks to understand how genes and biology affect the brain and behavior of children with neurodevelopmental disorders. Typically-developing individuals and individuals with a neurodevelopmental disorder who participate in this study may be asked to provide a blood sample and neuroimaging, answer questionnaires, and participate in interviews, activities and a medication trial.

   **Partner:** Province of Ontario Neurodevelopmental Disorders (POND) Network, Bloorview Research Institute Autism Research Centre, Ontario Brain Institute (OBI)
   **Collaborators:** Evdokia Anagnostou, Jessica Brian
   **Type:** Multi-faceted – recruitment only
   **Status:** Ongoing, 2011-2020

**Publications**
For a list of publications from this project please visit http://pond-network.ca/home/
4. **Testing the ‘Measure of Early Vision Use’ (MEVU)**
This research project aims to develop and validate a descriptive assessment of visual ability for children with cerebral palsy (CP).

**Partner:** Australian Catholic University, McMaster University  
**Collaborators:** Belinda Deramore Denver, Elspeth Froude, Christine Imms & Peter Rosenbaum  
**Type:** Online survey, Recruitment only  
**Status:** Ongoing – end of 2019

5. **Partnering with families to mobilize 21st century concepts in childhood disability: A family-centered integrated knowledge translation project**
The overall aim of this study is to work with an integrated team of researchers and families to develop and evaluate an online Knowledge Hub promoting the F-words in Childhood Disability. The purpose of the Knowledge Hub is to inform families and service providers on 21st century concepts in childhood disability and provide action-oriented tools to support the uptake of a family-centered biopsychosocial approach in practice. Our specific research objectives are to: (i) Develop an online family-centered Knowledge Hub promoting the F-words in Childhood Disability; and (ii) evaluate the reach, usefulness, and the use of the Knowledge Hub by parents and service providers.

**Partner:** CanChild  
**Collaborators:** Dr. Peter Rosenbaum, Andrea Cross  
**Type:** Survey and Interview – recruitment only  
**Status:** Ongoing – end of 2020

6. **A randomized placebo-controlled trial of tideglusib vs. placebo in the treatment of adolescents with ASD**
The Autism Research Centre at Holland Bloorview Kids Rehabilitation Hospital is conducting a research study to see if the medication tideglusib helps to improve symptoms of Autism Spectrum Disorder, specifically social engagement, social functioning (e.g. learning how to talk to others, making friends) and repetitive behaviours in people with ASD aged 12-17.

**Partners:** Holland Bloorview Kids Rehabilitation Hospital Autism Research Centre and Bloorview Research Institute  
**Collaborators:** Naomi Peleg  
**Type:** Randomized Controlled Trial – Recruitment only  
**Status:** Ongoing - end of 2020
7. **SoloWalker**  
In this study, researchers are looking to find the strengths and weaknesses of a robotic walker. This project will use focus groups to discuss the good points and weak points of the adult Gait Enable walker. The goal is to help change the Gait Enable walker so it can meet the needs of individuals 13-22 years of age, with Cerebral Palsy who use wheelchairs as their usual way to get around. The facts found from the focus group will also be used to help therapists in making walking programs with the walker for youth with Cerebral Palsy. After this project is complete, we hope to test the changed walker and its training program in a larger study.

**Partners:** Abilities Centre, Children’s Hospital of Eastern Ontario, Carleton University/GaitTronics Inc, Ottawa University  
**Collaborators:** Dr. Anna McCormick, Dr. Hana Alazem, Dr. Aliasgar Morbi, Richard Beranek, PhD Candidate  
**GCC Staff Involved:** Corrie Dixon  
**Type:** Focus Group and Interactive Comparison  
**Status:** Ongoing – Step 4 & 5 – end of 2019

This research seeks to determine whether early behavioral signs of Autism Spectrum Disorder (ASD) can be observed in young infants. Researchers are investigating whether differences in certain body signals (such as temperature, heart rate, sweating) during a variety of tasks can be observed and if these signs are different in infants who go on to have ASD, compared to those who do not.

**Partners:** Holland Bloorview Kids Rehabilitation Hospital; Holland Bloorview Research Institute  
**Collaborators:** Jessica Brian, Jessica Contini  
**Type:** Longitudinal- Recruitment only  
**Status:** Ongoing- December 2019
9. Motor Skills Intervention Study (MSIS)
This is a three year study on motor skills intervention for children with Autism Spectrum Disorder. The 12-week intervention will be provided to 100 children aged 3yrs and older over the period of the study. The program is free to families and scheduled to start in October 2017. Additional information regarding the program will be provided to Durham partners to assist with recruitment.

Partners: University of Ontario Institute of Technology
Collaborators: Dr. Meghann Lloyd
Type: Intervention – Recruitment only
Status: Ongoing – end of 2019

10. National Physical Activity Monitoring Study (NPAM) and Abilities Centre NPAM
Researchers in this study want to assess the levels of physical activity and sedentary behaviours among youth populations (ages 14 – 21) with physical disabilities. The purpose of this research is to better understand physical activity trends among youth across Canada, and understand how physical activity programming can be improved to further promote physical activity among youth with physical disabilities.

Partners: York University, University of Toronto, Abilities Centre
Collaborators: Ritu Sharma, Dr. Jennifer Leo
Type: Quantitative – Recruitment only
Status: Ongoing- end of 2020

11. How to get started in looking for work – for youth with physical disabilities
Researchers are investigating whether their employment intervention is useful for youth looking for jobs. They are comparing two different online employment programs—one with and the other without online peer mentoring.

Partners: Holland Bloorview Kids Rehabilitation Hospital; Bloorview Research Institute
Collaborators: Elaine Cagliostro, Dr. Sally Lindsay
Type: Online Focus Groups & Survey – Recruitment only
Status: Ongoing – end of 2019

12. Evaluation of Botley’s Bootle Blast (BBB) for Home Settings
The purpose of this project is to establish feasibility and acceptability of the Botley’s Bootle Blast (BBB) intervention.

Partners: Holland Bloorview Kids Rehabilitation Hospital; Children’s Hospital of Eastern Ontario
Collaborators: Dr. Anna McCormick, Dr. Elaine Bidis, Dr. Darcy Fehlings
GCC Staff Involved: Dr. Carolyn Hunt, Dr. Shannon Knights
Type: Feasibility Randomized Control Trial
Status: Application Submitted for Funding
The purpose of this study is to identify pain patterns in children & youth with cerebral palsy.

**Partners:** Holland Bloorview Kids Rehabilitation Hospital  
**Collaborators:** Heather Shearer, Dr. Darcy Fehlings  
**Type:** Cohort  
**Status:** September 2019 - end of 2021

The purpose of this research is to test the ACSF: SC-Integrated tool of social communication ability to see if it is a reliable measure of social communication for children between ages 2 to 21 with autism.

**Partner:** CanChild  
**Collaborators:** Peter Rosenbaum, Briano diRezze and team  
**GCC Staff Involved:** Angela Kielbowski  
**Type:** Reliability Study  
**Status:** Recruitment Complete. Data Analysis – April 2020

15. Exploring the Impacts of Exercise on Sleep Behaviour in Children with Autism Spectrum Disorder  
The purpose of this research is to better understand the relationship between exercise and sleep in the ASD population. Researchers are wondering whether or not a 4-week exercise intervention has a positive influence on sleep behaviour in 8-10 year-old children with ASD compared to controls. Additionally, they are testing if a visual perceived exertion scale is a feasible method to determining the intensity of exercise during an exercise intervention for children with ASD; and if an exercise intervention affects behavioral characteristics in children with ASD.

**Partner:** OntarioTech University  
**Collaborators:** Dr. Meghann Lloyd and Tayler Runge  
**Type:** Master’s Thesis - Intervention Study  
**Status:** Ongoing - April 2020 – Recruitment only
16. Experiences in Introductory Parasport among Children with Physical Disabilities
The purpose of this study is to develop greater understanding of the parasport participants’ perspectives on introductory parasport to provide key information and context that can help to guide the development of future projects and promote best outcomes.

Partner: OntarioTech University
Collaborators: Dr. Meghann Lloyd and Mikaeli Cavell
Type: Master’s Thesis - interview
Status: Ongoing - April 2020 – Recruitment only

17. Music in Children and Families Survey
The purpose of the study is to assess factors related to musical experiences, social development, and emotional well-being in children and families. We will assess these factors in families of children with and without developmental, medical, or mental health needs.

Partner: Vanderbilt University, University of Toronto
Collaborators: Dr. Laura Cirelli, Miriam Lense
Type: Questionnaire
Status: Ongoing – December 2019 – Recruitment only

18. Feelings About Balance – Evaluation of Reliability and Validity
The current phase of this study focuses on three main objectives: to determine test-retest reliability of the FAB-CP; to evaluate convergent construct validity of the FAB-CP in terms of the relationships with each of balance performance, advanced gross motor skills, PA enjoyment, and PA participation; and to assess discriminant validity in youth with CP using known group analysis to compare FAB-CP scores between Gross Motor Function Classification System (GMFCS) Levels I & II.

Partner: University of Toronto, Holland Bloorview Research Institute
Collaborators: Megan Towns, Virginia Wright
Type: Reliability Study
Status: Ongoing – December 2019 – Recruitment only

The objectives of this study are to determine whether an evidence-informed early motor skill intervention is effective at improving motor skills in 4-6-year-old children with ASD when implemented in a community-based recreation program; to explore whether social interactions increase and social, communication, and behavioural skills improve after a motor skill intervention in 4-6-year-old children with ASD; and to determine the efficacy and feasibility of a motor skill intervention for children with ASD when implemented by a community organization. It is anticipated that the results of this study will generate a much needed first step in establishing the efficacy of a cost-effective, age-appropriate, and family-centered intervention for young children with ASD.
20. Development, implementation, and evaluation of an internet-based behavioral sleep intervention for children with Neurodevelopmental Disorders and insomnia

The eHealth program Better Nights, Better Days for Children with Neurodevelopmental Disorders (BNBD-NDD) was developed to target the needs of children with a range of NDD, including ADHD, ASD, CP, and FASD. Using a randomized controlled trial design with a pragmatic trial approach, the study will evaluate the effectiveness of the BNBD-NDD eHealth intervention in treating insomnia in children 4-12 years of age with a NDD, including a diagnosis of mild to moderate ADHD, ASD, CP, and/or FASD. The primary research objective is to determine whether the intervention leads to improved child sleep at the end of treatment (4 month assessment) and if improved sleep is maintained at the long-term follow-up (8 month assessment).

Partner: University of Toronto, Dalhousie University, Hospital for Sick Children
Collaborators: Dr. Shelly Weiss, Dr. Penny Corkum
Type: Intervention Study – RCT
Status: Ongoing – September 2020


We plan to study how expert physicians recognize, understand, and navigate “shifts” (adjustments in the clinician’s understanding of a child and family’s story that impacts how clinical care is provided) as they provide care. The objective of this study is to explore how expert physicians recognize, interpret, and navigate shifts in their understanding of the child and family’s story as they provide care. By carefully exploring this phenomenon in clinical practice, we may uncover key competencies for teaching health professions students and preparing them for future learning.

Partner: Holland Bloorview Kids’ Rehabilitation Hospital
Collaborators: Dr. Anne Kawamura
Type: Constructivist Grounded Theory with Interviews and Observation
Status: Ongoing – April 2020

New Projects Year to Date (April 1 2019-Dec 31 2019): 12 (5 in Q1, 5 in Q2; 2 in Q3)
Past Research

Recent Publications

1. Conventional resistance training versus a Nintendo Wii intervention to improve upper limb functionality in children ages 7-12 with spastic cerebral palsy.
The purpose of this Master’s Thesis was to compare a Nintendo Wii intervention to a single-joint upper-limb resistance training of a similar intensity for children with hemiplegic cerebral palsy aged seven to twelve and assess the impact each of these interventions had upon participants’ upper limb function, compliance and motivation levels.

Partner: University of Ontario Institute of Technology
Collaborators: Caroline Kassee, Meghann Lloyd, Carolyn Hunt
Type: Intervention
Status: Completed 2014-2015, published May 2017

2. Childhood Hemiplegic Cerebral Palsy Integrated Neuroscience Discovery Network (CPNET Phase 1)
The purpose of this project is to improve understanding of hemiplegic cerebral palsy (CP), including its etiology, and accelerate the development of new treatments.

Partner: Holland Bloorview Kids Rehabilitation Hospital, Ontario Brain Institute (OBI)
Collaborators: Darcy Fehlings and team
GCC Staff Involved: Carolyn Hunt, Angela Kielbowski
Type: Multi-faceted – Grandview is a recruiter site for the CPNET Clinical Database
Status: Ongoing, 2011-2018 – manuscript accepted for publication

3. Neurodevelopmental Disorder Priority Setting Survey
Through this survey, researchers at the Ontario Brain Institute identified which questions stakeholders wanted answered about diagnosis, therapies, care, and other interventions for neurodevelopmental disorders. Individuals who have a neurodevelopmental disorder and those who care for or work with someone who does, were asked to help set research priorities for neurodevelopmental research through online surveys. The results were distilled into ten research priorities for neurodevelopmental disorders.

Partners: Ontario Brain Institute
Collaborators: Jessica Jordao
Type: Survey – Recruitment only
Status: Completed 2018 Video https://youtu.be/2wXOtPyObrY
   The purpose of this study was to evaluate the longer-term effectiveness of spasticity interventions on gross motor function in young ambulatory children with spastic CP over a three-year period. Secondary objectives include evaluation on improved community mobility and participation in recreational activities.

   **Partner:** Holland Bloorview Kids Rehabilitation Hospital, Hospital for Sick Children  
   **Collaborators:** Darcy Fehlings, Mark Mason  
   **GCC Staff Involved:** Carolyn Hunt, Jessica Todd, Cherie Kerr, Mark Mason, Grandview Children’s Centre Spasticity clinic  
   **Type:** Natural Cohort Clinical Trial  
   **Status:** Completed, 2010-2015, manuscript in progress

5. De novo and rare inherited copy number variations in the hemiplegic form of cerebral
   The purpose of this study was to build upon previous research. Hemiplegia is a subtype of cerebral palsy (CP) in which one side of the body is affected. Our earlier study of unselected children with CP demonstrated de novo and clinically relevant rare inherited genomic copy number variations (CNVs) in 9.6% of participants. In this study the prevalence and types of CNVs, specifically in hemiplegic CP were examined.

   **Partner:** CPNET Project (HEMI)  
   **Collaborators:** Darcy Fehlings, Mehdi Zarrei and HEMI CPNET team  
   **GCC Staff Involved:** Carolyn Hunt  
   **Type:** Cross-sectional study with genotype analysis  
   **Status:** Published 2017

   **Publication**
6. Cerebral Palsy
This was a chapter written for the textbook “A Comprehensive Guide to Intellectual & Developmental Disabilities, 2nd edition”.

Partner: Holland Bloorview Kids’ Rehabilitation Hospital, CanChild
Collaborators: Darcy Fehlings, Peter Rosenbaum
GCC Staff Involved: Carolyn Hunt
Type: Book Chapter
Status: Published, 2017

Publication
7. **Examining the Impact of a Multi-Sport Camp for Girls Ages 8-11 With Autism Spectrum Disorder**

The purpose of this study was to investigate whether a one week multi-sport skills camp could improve fundamental motor skills, physical activity, adaptive behavior and physical self-perceptions of school-aged females with Autism Spectrum Disorder (ASD).

**Partner:** University of Ontario Institute of Technology  
**Collaborators:** Meghann Lloyd, Lindsay Smith  
**GCC Staff Involved:** Cathy Kelly  
**Type:** Intervention  
**Status:** Completed, 2014; Published 2017

**Publication**


8. **Validating the Autism Classification of Social Functioning (ACSF) tool: A severity rating scale for Children with Autism.**

The purpose of this research was to create and validate the Autism Classification of Social Functioning (ACSF) Scale.

**Partner:** CanChild  
**Collaborators:** Peter Rosenbaum, Martha Cousins, Briano DiRezze and team  
**GCC Staff Involved:** Carolyn Hunt, Alishia Chamney  
**Type:** Tool development and validation – recruitment only  
**Start:** Completed, 2014-2016

9. **Investigating the effectiveness of a gymnastics and fine motor skills intervention on motor skills and balance of children ages 5-9 with Autism Spectrum Disorder**

This Master’s thesis seeks to identify the impact of gymnastics and fine motor skills intervention on the motor skills and balance of children aged 5-9 with Autism Spectrum Disorder. Twelve participants will be randomly divided into two equal groups. One group will receive a gymnastics intervention and the other will receive a fine motor skills intervention for one hour per week for six weeks.

**Partner:** University of Ontario Institute of Technology  
**Collaborators:** Shahrzad Pezhman, Meghann Lloyd  
**Type:** Intervention – recruitment only  
**Status:** Completed 2017  
**Presentation**

University of Ontario Institute of Technology 3MT (Finalist) in June 2016
10. Intact non-word repetition and similar error patterns in language-matched children with autism spectrum disorders: A pilot study
Researchers in this study investigated whether enhanced auditory short-term memory may contribute to the learning of novel word forms in children with Autism Spectrum Disorder. Additionally, they evaluated whether delayed but qualitatively normal, versus atypical, cognitive processes underlie non-word repetition in this population via a detailed error analysis.

**Partner:** McGill University  
**Collaborators:** Aparna Nadig  
**GCC Staff Involved:** Anjali Mulligan  
**Type:** Error Analysis  
**Status:** Completed. Publication March 2017

**Publication**

11. Evaluation of Preliminary CANS data for Grandview Children’s Centre Applied Behavioural Analysis (ABA) based program
The CANS-ASP is used to both describe and measure outcomes of children and youth who are receiving service through the Durham Applied Behaviour Analysis (ABA)-based Services and Supports for Children and Youth with ASD.

**Partner:** University of Ontario Institute of Technology  
**Collaborators:** Meghann Lloyd, Victoria Pequegnat and team  
**GCC Staff Involved:** Leslie Suite, Lorraine Sunstrum-Mann, Carolyn Hunt, Grandview Children’s Centre ABA program  
**Type:** Chart Review  
**Status:** Complete 2018

**Presentation**
Researchers are trying to identify whether parent ratings with the ACSF:SC tool can help predict what children’s social communication abilities will be like as they grow older.

**Partners:** CanChild  
**Collaborators:** Dr. Briano di Rezze, Helena Viveiros, and team  
**GCC Staff Involved:** Angela Kielbowski  
**Type:** Algorithm Study  
**Status:** Completed.  
**Publication**  

13. **Determining the Natural Course of Fatigue in Children and Adolescents with CP**  
The purpose of this research is to determine the natural course of fatigue in children and adolescents with CP. The researchers are also seeking to understand the relationships between fatigue and functional abilities and capacity for overall participation in meaningful life roles.

**Partners:** University of Western Ontario  
**Collaborators:** Dr. Laura Brunton  
**Type:** Survey – Recruitment only  
**Status:** Completed.  
**Publication**  

14. **Policy Dialogue: Rights Based Approaches to Children with Disabilities**  
This project aims at identifying the gaps and possible solutions in informing policy making to support the human rights of children with disabilities. It is being run by a research team based at McGill University.

**Partners:** McGill University  
**Collaborators:** Dr. Keiko Shikako-Thomas  
**Type:** Online Questionnaire, Interview, Focus Group  
**Status:** Completed.  
**Publication**  
15. **Optimizing life success through Residential Immersive Life Skills programs for youth with disabilities Study**
This is a questionnaire and interview based study which seeks to understand how youth with disabilities ages 14-21 years feel about themselves as they grow and change over the course of a year.

**Partners**: Holland Bloorview Kids Rehabilitation Hospital and Holland Bloorview Research Institute  
**Collaborators**: Dr. Gillian King, Dr. Amy McPherson & Alanna Rudzik  
**Type**: Interview & Questionnaire – recruitment only  
**Status**: Completed  

**Publication**  

16. **Therapy roles in family-centred care: Negotiating expectations between parents and service providers over time.**
The purpose of this research is to explore what expectations parents have for their own roles and the roles of service providers. Additionally, this research seeks to explain whether/how/why role expectations change over time. Finally this research seeks to assess the capacity of rehabilitation settings to support diverse role expectations and recommend relational- and systems-level strategies for supporting this capacity.

**Partner**: Holland Bloorview Kids Rehabilitation Hospital and Holland Bloorview Research Institute  
**Collaborators**: Eric Smart  
**Type**: Interview with Narrative Analysis - Recruitment only  
**Status**: Recruitment complete

17. **Understanding the clinical course of siblings of children with ASD.**
This is an in-depth analysis comparing infant siblings of children with Autism Spectrum Disorder (ASD) to control infants. Assessments in this study include eye gaze data, interviews, and the ADOS for toddlers. This study contributes to our understanding of the development of ASD in children.

**Partner**: University of Toronto  
**Collaborators**: Bonnie McKinnon  
**Type**: Clinical Trial – recruitment only  
**Status**: Recruitment completed
18. **Stimulation for Perinatal Stroke Optimizing Recovery Trajectories (SPORT)**  
This is a randomized double blind sham control trial comparing functional improvement in kids with hemiplegic cerebral palsy secondary to stroke who receive constraint therapy alone or constraint therapy plus transcranial magnetic stimulation  

**Partner:** Holland Bloorview and University of Calgary  
**Collaborators:** Darcy Fehlings and Adam Kirton  
**Type:** Randomized Double Blind Controlled Trial - offsite  
**Status:** Recruitment for Camp in 2018, 2019, recruitment completed

19. **Optimizing the identification and care pathway of Autism Spectrum Disorder in females**  
This is a qualitative and quantitative study designed to help better characterize the “female phenotype” of ASD.  

**Partner:** CAMH  
**Collaborators:** Meng-Chuan Lai, Caroline Kassee  
**Type:** Qualitative and quantitative study to design a measure, Recruitment only  
**Status:** Recruitment complete

20. **Parenting Stress in Parents of Children with Developmental Disabilities**  
Researchers are seeking to understand the experiences of African-Canadian immigrant parents who have a child with a developmental disability (e.g., autism spectrum disorder, Down syndrome, intellectual disability, genetic disorders) and the factors that are related to positive outcomes for these parents.  

**Partners:** York University  
**Collaborators:** Busi Ncube, Dr. Adrienne Perry  
**Type:** Survey and Interview – Recruitment only  
**Status:** Recruitment complete

21. **Understanding the relationship between pain trajectories in children and youth with cerebral palsy and their well-being: A pilot study.**  
The purpose of this pilot study is to assess the feasibility of conducting a multi-site five-week longitudinal cohort study of children and youth aged 8-18 years with CP. This pilot study is part of a larger study working to identify pain patterns in children & youth with cerebral palsy.  

**Partners:** Holland Bloorview Kids Rehabilitation Hospital  
**Collaborators:** Heather Shearer, Dr. Darcy Fehlings  
**GCC Staff Involved:** Angela Kielbowski  
**Type:** Questionnaire  
**Status:** Complete
22. **Children’s Treatment Centre Design Standard**  
The purpose of this project is to develop a design standard for Children's Rehabilitation Treatment Centres.

**Partners:** OCAD University  
**Collaborators:** Dr. Peter Coppin, Maya Desai, Pui Yee Nikki, Grace Mendez  
**Type:** Focus Group  
**Status:** Recruitment complete’

23. **Brain Change after Fun Athletic Sports-skill Training (BeFAST) or Brain Change after Strength Training Focusing on Gait (BeSTRONG)**  
This research study seeks to learn how physical activity based training (sports-skill and strength training focusing on gait) impacts brain activity. Researchers are also interested in determining if changes in movement and participation are linked to brain change. Researchers are recruiting 20 children ages 7-17 with hemiplegic cerebral palsy (GMFCS Level I – II) and 10 children with diplegic cerebral palsy (GMFCS Level I-II).

**Partner:** Holland Bloorview Kids Rehabilitation Hospital  
**Collaborators:** Virginia Wright  
**GCC Staff Involved:** Shannon Knights  
**Type:** Intervention  
**Status:** Completed 2016 – 2019
National and International Conference Presentations

2019


Quality Improvement Presentations and Posters

The following is a list of presentations and posters created or co-created by Grandview Children’s Centre Staff and shared at the Ontario Association of Children’s Rehabilitation Services (OACRS) Conferences from 2017-2022.

Presentations

2018


Presentations

2017


Seven locations across Durham Region. 
Main site: 600 Townline Road South 
Oshawa, ON  L1H 0C8

Tel: 905.728.1673 or 1.800.304.6180
Email: info@grandviewkids.ca

www.grandviewkids.ca