



# PARKWOOD INSTITUTE RESEARCH

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2021  
ANNUAL REPORT  
ABRIDGED VERSION





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# A Word from the Beryl and Richard Ivey Research Chair

Greetings!

Following a year of great challenges due to COVID-19, I am proud to recognize the researchers, staff, students, patients, patient family members, and community supports for their courage, resiliency, ingenuity, kindness, and ability to come together. I have watched them seize every opportunity, dedicating themselves to the pursuit of excellence in the provision of patient care and research during a time of uncertainty.

There have been incredible advances in knowledge about COVID-19, cognitive vitality and brain health, mental health, and mobility and activity. These advances have been made possible through pivots in practices with emphasis on safety, adherence to new and changing public health guidance, controlled site access, investments combining clinical and research practice, student training, and enhancing partnerships between patients, care givers, and researchers.

I am incredibly proud of what we have achieved throughout a difficult year and how this community's contributions have allowed Parkwood Institute Research to grow in 2021. You are true leaders and an inspiration. I am honoured to be a part of this community and its commitment to achieve better health for all. May you all continue to make progress and thrive in 2022.

Yours in research,

Cheryl Forchuk, RN PhD O Ont FCAHS

Beryl & Richard Ivey Research Chair in Aging, Mental Health, Rehabilitation and Recovery, Parkwood Institute Research; Distinguished University Professor, Arthur Labatt School of Nursing, Faculty of Health Sciences, and Department of Psychiatry, Schulich Faculty of Medicine and Dentistry, Western University; Assistant Director and Scientist, Lawson Health Research Institute





# **ABOUT PARKWOOD INSTITUTE RESEARCH**

# WELCOME

Parkwood Institute Research, Lawson Health Research Institute, is a leader in Canada and recognized internationally for its work to help people regain their health and, whenever possible, return home or to other community settings.

Located in London, Ontario, Canada, Parkwood Institute provides care, rehabilitation, and recovery to those with complex and chronic illnesses.

Our Institute consists of three sites – Parkwood Institute Main Building, Parkwood Institute Mental Health, and Southwest Centre for Forensic Mental Health Care.

As a clinical research program embedded in St. Joseph's Health Care, an active teaching hospital, Parkwood Institute Research focuses on advancing innovations and discoveries directly related to patient care.

The work at Parkwood Institute Research is supported by The Beryl and Richard Ivey Chair in Aging, Rehabilitation, and Mental Health, full-time Research Facilitator, full-time Administrative Assistant, more than 60+ affiliated scientists and researchers, access to three Patient and Family Advisory councils, as well as staff, trainees, and volunteers.

Cognitive Vitality and Brain Health, Mobility and Activity, and Mental Health form the three major research programs at Parkwood Institute, with considerable overlap and synergies existing among the groups. This inter-disciplinary research provides unique opportunities for collaboration resulting in the incorporation of new knowledge into patient care at Parkwood Institute.

Through strong partnerships and collaborations, we will achieve better health for all.

innovation  
mobility  
rehabilitation  
mental health  
Parkwood Institute Research  
healthcare  
aging cognitive vitality  
collaboration  
research activity  
brain health





# FAST FACTS - Year at a Glance

**NEW GRANTS AND RESEARCH FUNDING (\$ MILLIONS)**

**\$21+**

**ACTIVE STUDIES AT PARKWOOD MENTAL HEALTH BUILDING**

**63**

**ACTIVE STUDIES AT PARKWOOD MAIN BUILDING**

**187**

**AFFILIATED SCIENTISTS AND RESEARCHERS**

**60+**

**PEER REVIEWED PUBLICATIONS**

**214**

**RESEARCH TALKS GIVEN WORLDWIDE**

**204**

# VISION, MISSION, AND GOALS

## VISION

Parkwood Institute Research will measurably enhance lives by leading the discovery, evaluation and implementation of innovations in rehabilitation and recovery.

## MISSION

Parkwood Institute provides care, rehabilitation and recovery to those with complex and chronic illnesses. The mission of Parkwood Institute Research is to conduct research that makes a meaningful difference in the lives of those we serve. We strive to empower all individuals who are touched by our Institute and beyond. We will accomplish this by developing and evaluating innovative solutions which improve health in a way that intentionally integrates mind, body and spirit. Through strong partnerships and collaborations, we will achieve better health for all.

## GOAL

Parkwood Institute Research will be a leader in research related to care, rehabilitation and recovery of complex and chronic illnesses by:

- discovering and implementing the best practices of tomorrow;
- consistently generating and translating new knowledge into practice and policy;
- specializing in the full integration of mind, body, and spirit;
- integrating clinical practice and research;
- improving our approach to research through measurement, monitoring, and responding; and
- cultivating and nourishing partnerships with key stakeholders including patients, family and other care givers, community agencies, funders, and industry.

# AFFILIATED SCIENTISTS AND RESEARCHERS

## LEADERSHIP

Cheryl Forchuk	Beryl and Richard Ivey Research Chair	Mental Health
Michael Borrie	Theme Lead	Cognitive Vitality and Brain Health
Arlene MacDougall	Theme Lead	Mental Health
Siobhan Schabrun	Theme Lead	Mobility and Activity

## GENERAL SCIENTISTS AND RESEARCHERS

Colleen McGrath	Jorn Diedrichsen	Laura Diachun
David Keast	Joy Mangel	Penny Welch-West
Jennifer Bjazevic	Keith St. Lawrence	

## PRIMARY THEME: COGNITIVE VITALITY AND BRAIN HEALTH

Michael Borrie (Lead)	Jennie Wells	Manuel Montero-Odasso
Jaspreet Bhangu	Elizabeth Finger	Sarah A. Morrow
Steven Pasternak	Robert Teasell	

## PRIMARY THEME: MENTAL HEALTH

Arlene MacDougall (Lead)	Iouri Rybak	Naghmeh Mokhber
Akshya Vasudev	Jared Scott	Richard O'Reilly
Anthony Nazarov	Jason Quinn	Ruth A. Lanius
Cheryl Forchuk	Kamini Vasudev	Stephanie Dubois
Clark Heard	Ken Lee	Verinder Sharma
Deborah Corring	Lisa Van Brussel	Victoria Smye
Donald J. Richardson	Marnin Heisel	
Felicia Ketcheson	Mervin Blair	

## PRIMARY THEME: MOBILITY AND ACTIVITY

Siobhan Schabrun (Lead)	Janelle Unger	Robert Teasell
Ali Bateman	Jamie Fleet	Shannon Janzen
Alison Rushton	Jayne Garland	Shannon McGuire
Amanda McInyre	Jeff Weiler (2021 Interim Lead)	Stephanie Cornell
Anna Kras-Dupuis	Jenny Thain	Steven Macaluso
Caitlin Cassidy	Keith Sequeira	Sue Peters
Dalton Wolfe	Laura Brunton	Susan Hunter
Denise Connelly	Laura Graham	Swati Mehta
Eldon Loh	Michael Payne	Thomas A. Miller
Heather MacKenzie	Ricardo Viana	Timothy J. Doherty

# COMMITTEES



# ADVISORY COMMITTEE

**Cheryl Forchuk (Co-Chair)**

The Beryl and Richard Ivey Research Chair in Aging, Mental Health, Rehabilitation and Recovery

**Cathie Gauthier (Co-Chair)**

Parkwood Institute Mental Health Care Family Advisory Council

**David Hill**

Scientific Director, Lawson Health Research Institute

**Jodi Younger**

Vice President Patient Care and Quality

**Sandy Jansen**

Vice President, Patient Care and Risk

**Paula Rawlinson**

Parkwood Institute Mental Health Care Family and Patient Advisory Councils

**Jayne Garland**

Dean Faculty of Health Sciences, Western University

**Michael Borrie**

Theme Lead Cognitive Vitality and Brain Health

**Arlene MacDougall**

Theme Lead Mental Health

**Jeff Weiler**

Interim Theme Lead Mobility and Activity, Coordinator for the Gray Centre for Mobility and Activity

**Clark Heard**

Southwest Centre for Forensic Mental Health Care

**Manuel Montero-Odasso**

Director of the Gait & Brain Lab at Parkwood Institute Research

**Robert Teasell**

Director of the Collaboration of Rehabilitation Research Evidence (CORRE) Program at Parkwood Institute Research

**Dalton Wolfe**

Director of the Research to Practice (R2P) Program at Parkwood Institute Research

**Taryn Sendzik**

Parkwood Institute Research Facilitator

# RESPONDING TO THE PANDEMIC

*Turning Challenges Into Opportunities*



# RESPONDING TO THE PANDEMIC

## *Turning Challenges Into Opportunities*

- Ten new research projects focusing on the COVID-19 pandemic funded
- Seven papers published in peer-reviewed journals advancing our knowledge of COVID-19 and its impact
- Field work adapted to the changing needs of the community
- Staff working with hybrid model of in-office/at-home while necessary
- Labs continue to perform research with adaptations as required
- Participants and volunteers continue to give enthusiastic contribution to trials and studies
- Students continue to provide valuable input while learning and adapting to COVID adjustments
- Events and training move to virtual platforms and formats



*The Mental Health Nursing Research Alliance research team wear N95 masks and use tents to conduct participant interviews.*



*Development and use of more online surveys, across research themes.*



*Members of the VIP4SCI and Rehab groups provide care using protective equipment.*



**No Fixed Address: A collaborative approach to preventing homelessness**  
Lawson Health Research Institute

*Transitioning to virtual events, such as the virtual launch event pictured above.*

# NEW INITIATIVES

In 2021, we began laying the groundwork for several new initiatives to advance care, clinical practice, and research

## Persons with Lived Experience Research Committee

- The experience and voice of patients, family members, and caregivers are valued in research
- This committee seeks to support research partnership and leadership by patients, family members, caregivers
- The committee is composed of members of the Patient and Family Advisory Councils, Patient Care and Care Partnership Offices, Researchers, and administrative support.

## ACE (Assessment Consultation and Education) Service

- Supervisor:** Dr. Stephanie Dubois
- This project focuses on providing psychological assessment for inpatients and outpatients in the context of a highly interdisciplinary team environment

## ACE – Pilot Project with Pain Clinic

- Project in progress
- Processed completed
- Ready to launch
- Tying up loose ends

## Grand Rounds

- Focusing on bringing education in interdisciplinary care in mental health
- Draft guidelines have been created
- Stakeholder input has occurred and proposed to TRIQ committee

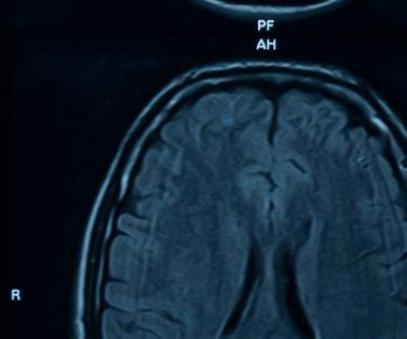
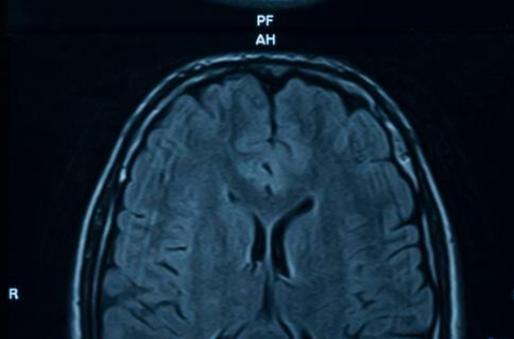
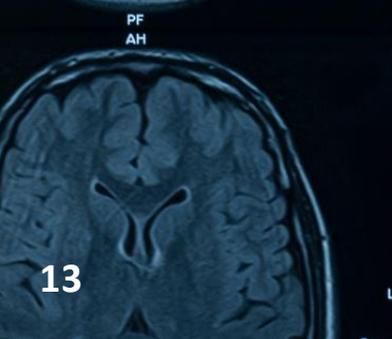
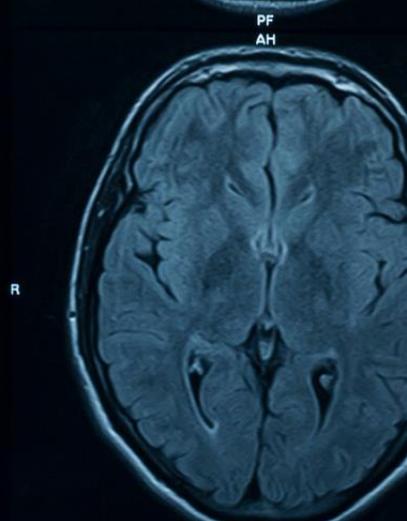
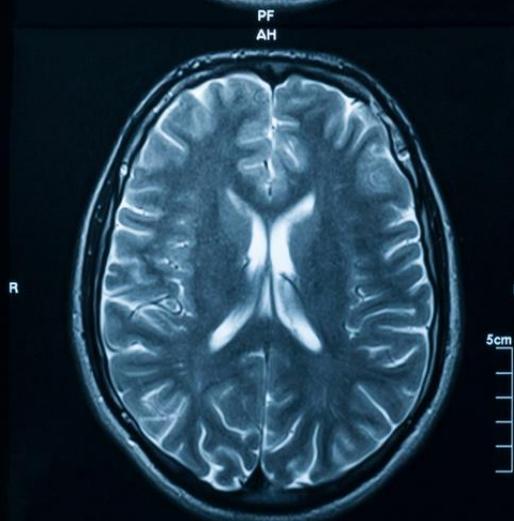
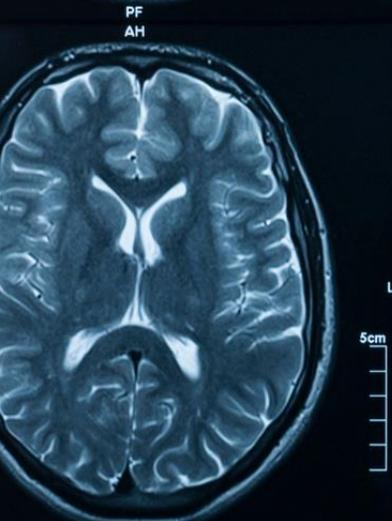
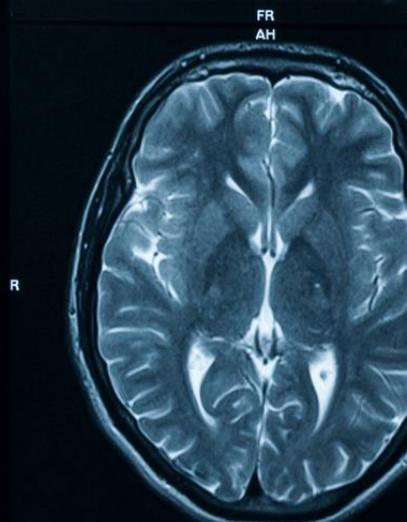
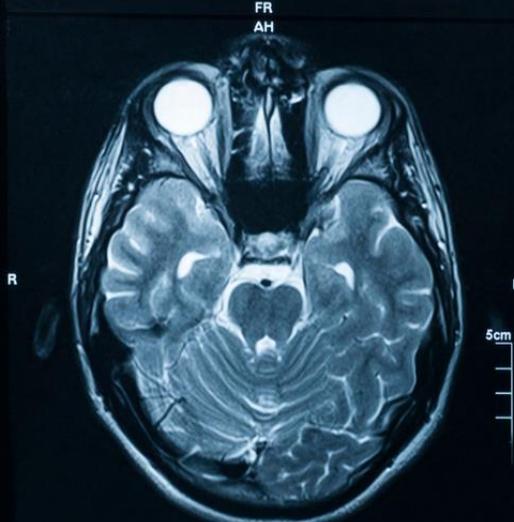
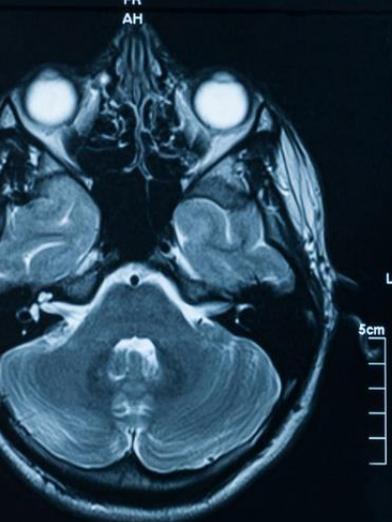
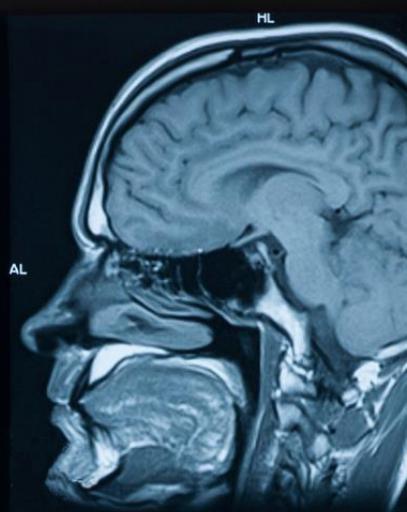
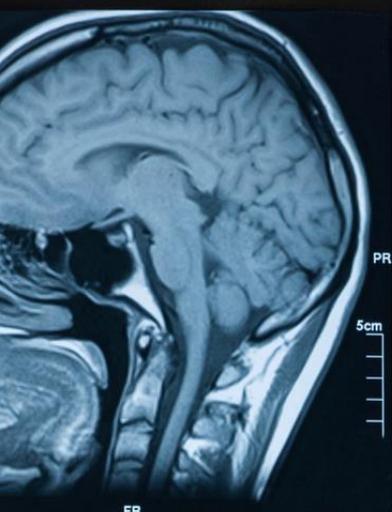
## Trauma informed Care (TIC)

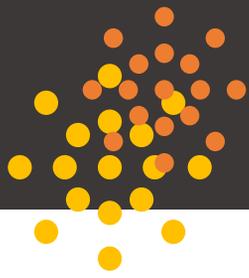
- Supported by leadership Feb 25th, 2022 for creating a TIC approach in mental health care.





# RESEARCH THEMES





# COGNITIVE VITALITY AND BRAIN HEALTH

## Research Projects

### Principal Investigator

### Studies

#### Dr. Micheal Borrie

1. Alzheimer's Disease Neuroimaging Initiative (ADNI 1-3) funded by the U.S. National Institutes of Health
2. Lead site for the Canadian Collaboration in Neurodegeneration and Aging COMPASS ND Study – 30 sites across the country
3. Site Investigator for 3 clinical trials in early Alzheimer's disease
4. Site investigator for dementia prevention trial (CAN-THUMBS UP: BHSP)

#### Dr. Jaspreet Bhangu

1. Orthostatic Hypotension Study with Dr. Fitzgibbon-Collins looking at low blood flow and cognitive impairment
2. The AHEAD 3-45 Study : examines preclinical Alzheimer's Disease from Eisai
3. Skyline: evaluates the efficacy and safety of Gantenerumab uses at the earliest stages of Alzheimer's Disease

#### Dr. Elizabeth Finger

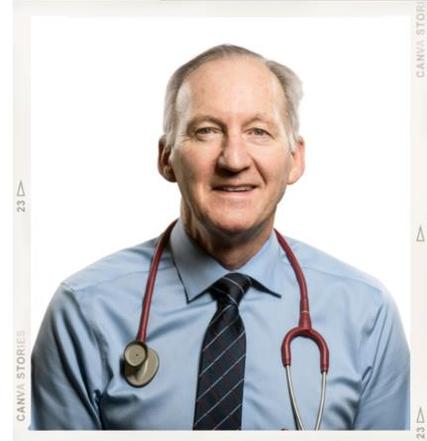
1. Neurodevelopmental vs. neurodegenerative: a study of consequences of FTD genetic mutations in at-risk youth (GENFI-NeuroDev)
2. Co-investigator on Genetic Frontotemporal Dementia Initiative (GENFI)
3. Phase II of the FOXY Trial, a multi-centre clinical trial of oxytocin for empathy deficits and apathy in frontotemporal dementia
4. Collaborating on developing a non-invasive early biomarker of Alzheimer's disease
5. Site PI for several Alzheimer's studies
6. Lead for Dale E. Creighton Brain & BioBank London, Canada

#### Dr. Sarah Morrow

1. Study of mixed-amphetamine salts, extended release (Adderall XR) for cognitive impairment in MS funded by the Multiple Sclerosis Society of Canada
2. Developing a cognitive impairment screening tool for people with MS in the clinic setting

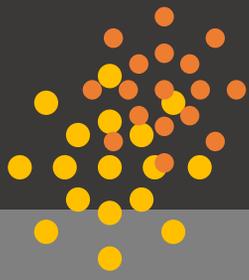
#### Dr. Stephen Pasternak

1. The Ambroxol study for treating people with Parkinson's dementia
2. Site investigator for two industry-sponsored control trials for people with mild to moderate Alzheimer's Disease



**Dr. Michael Borrie**  
Theme Lead





# COGNITIVE VITALITY AND BRAIN HEALTH

## Research Projects

### Principal Investigation

### Studies

#### Dr. Jennie Wells

1. Principal investigator for two trials in early Alzheimer's disease

#### Dr. Manuel Montero-Odasso

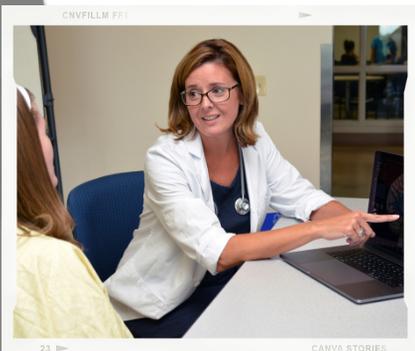
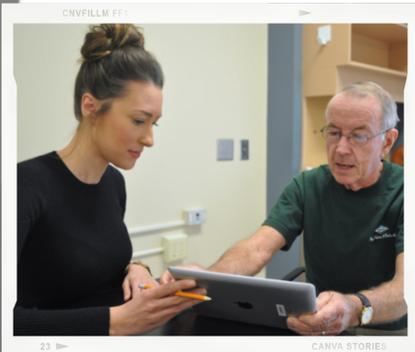
1. Recruited over 500 participants for the SYNERGIC trial looking at mobility, exercise, and cognition and the COMPASS-ND Study.
2. He has moved on to SYNERGIC Home and Synergic 2 funded by the Canadian Institutes of health Research and
3. Training and Capacity Building Lead for CCNA
4. Involved with CAN-THUMBS UP: BHSP study
5. Collaborating with Dr. Finger on the Gait and Balance Platform using wearables at home funded by ONDRI
6. Recently awarded over \$950K from CIHR to study gait as a clinical marker to predict progression to dementia syndromes in Mild Cognitive Impairment

#### Dr. Robert Teasell

1. Conducting several evidenced based reviews in stroke rehabilitation and spinal cord injury
2. Investigator for 5 clinical trials for stroke recovery funded by Brain Canada
3. Co-investigator on research examining function in people with balance and mobility limitations
4. Conducting study on interventions for moderate to severe traumatic brain injuries
5. Developing a predictive model for botulism toxin referral and treatment for post-stroke spasticity

## Notable Publications

- Montero-Odasso, M. M., Kamkar, N., Pieruccini-Faria, F., Osman, A., Sarquis-Adamson, Y., Close, J., Hogan, D. B., Hunter, S. W., Kenny, R. A., Lipsitz, L. A., Lord, S. R., Madden, K. M., Petrovic, M., Ryg, J., Speechley, M., Sultana, M., Tan, M. P., van der Velde, N., Verghese, J., Masud, T., ... Task force on Global Guidelines for Falls in Older Adults (2021). Evaluation of clinical practice guidelines on fall prevention and management for older adults: A systematic review. *JAMA Network Open*, 4(1), e2138911. <https://doi.org/10.1001/jamanetworkopen.2021.38911>
- Benussi, A., Premi, E., Gazzina, S., Brattini, C., Bonomi, E., Alberici, A., ... & Veldsman, M. (2021). Progression of behavioral disturbances and neuropsychiatric symptoms in patients with genetic frontotemporal dementia. *JAMA network open*, 4(1), e2030194-e2030194. <https://doi.org/10.1001/jamanetworkopen.2020.30194>

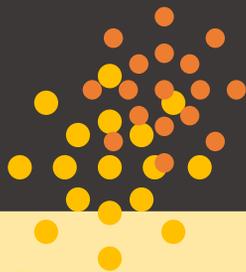




Keep going.

You are stronger than you think.

JAVA



# MOBILITY AND ACTIVITY

## Research Highlights



**Dr. Tim Doherty**  
Former Theme Lead



**Dr. Siobhan Schabrun**  
Theme Lead



**Dr. Robert Teasell**



**Dr. Jeff Weiler**

\*\* In absence of Dr. Doherty and prior to the arrival of Dr. Schabrun, Drs. Teasell and Weiler undertook major supportive roles to maintain momentum and steer the Mobility and Activity research theme

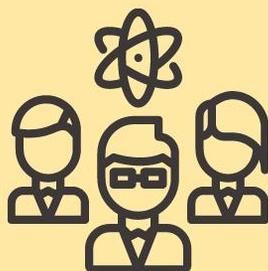
Over  
**50**  
rehabilitation research  
projects with  
**40**  
**million**  
in funding per annum



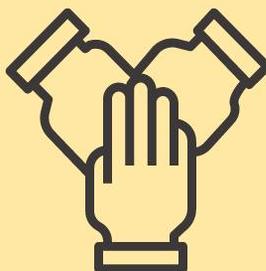
Gray Centre development was slowed by the **COVID-19 pandemic** but progressing quickly toward developing a world class centre for improved **mobility and activity**



**Gray Centre for Mobility and Activity** was established in 2020, following a large donation by **William and Lynne Gray**



The centre consists of a strong group of mobility and activity researchers from **Schulich School of Medicine and Dentistry, the Faculty of Health Sciences and Lawson Research Institute**



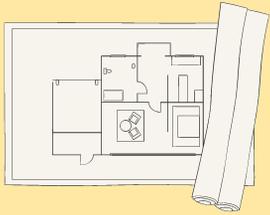
Work in conjunction with **rehabilitation teams** to best integrate the principles and components of successful implementation into their practice



Begun **investments in research projects** through small strategic catalyst grants. An open Catalyst Grant will launch in early 2022

# MOBILITY AND ACTIVITY

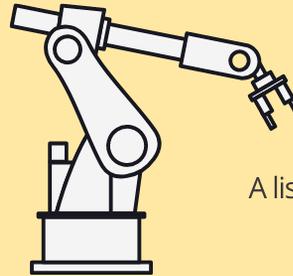
**Research Planning Group**, a facility consulting firm, has been hired to help **Design The Gray Centre**



**Parkwood Institute is providing space for The Gray Centre.** Decision are being made on how to renovate and reorganize that space



Parkwood Institute has **spaces devoted to Activity and Mobility**, including the Main Physical Therapy Gym and numerous smaller therapy hubs throughout the hospital



**Extensive consultation with researchers, clinicians and care partners**



Designed a Training and Coaching model which builds capacity in our clinicians to **incorporate new technology into practice**

A list of potential new technologies has been generated to help determine **technological investment**

## 5 Main Research Groups Established

Stroke and Adult Transition from Childhood Neurological Disorders

Neurotrauma Rehabilitation

Musculoskeletal/Neuromuscular/Amputees

Aging

Knowledge Translation and Clinical Application

A proposal for phased **resumption of Fitness Centre Activities** is currently underway



**Virtual programs** are being used to promote activity engagement and wellbeing among those with mobility impairments living in remote and underserved areas

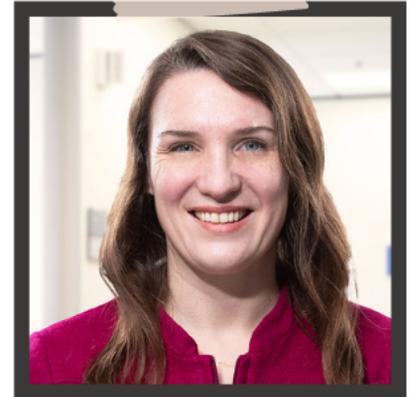




## Research Highlights

Articles from our staff were included in two volumes of our internal publication **Research Insights**

1. Vaithianathan, Van Bussel, & Burhan (Vol 17, No. 1) Optimising Mental Health Care for Seniors While Adjusting to COVID-19 Pandemic Health Regulations
2. Chuong & Quinn (Vol 17, No. 2) The Impact of COVID-19 on Forensic Mental Health Care



**Dr. Arlene MacDougall**  
Theme Lead

We hosted **3 Imaginarium Series** speakers:

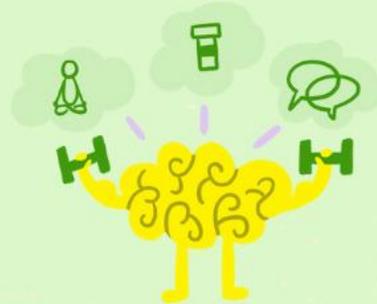
- Using Participatory Action Research to Improve Practice (Cheryl Forchuk)
- Understanding the Long-Term Mental Health Effects of Adolescent Cannabis Dependence (Stephen Laviolette)
- Exploring the Wellbeing of Veteran and Healthcare Communities: Longitudinal Investigations of the Effects of the COVID-19 Pandemic

Articles from our staff were included in two volumes of our internal publication **Research Insights**

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# MENTAL HEALTH

- Creation of the **Research Advisory Committee for People with Lived Experience**
- **MINDS of London-Middlesex** (a youth mental health social innovation lab) were highlighted as the recipients of the **2021 Breakfast of Champions**
- Library stands have been placed at Parkwood Mental Health Care and the Southwest Centre for Forensic Mental Health Care for researchers to share their work and provide information for patients and family members on ongoing research efforts
- The **Operational Stress Injury Research Centre** has been engaged in a longitudinal study of the effect of the COVID-19 pandemic on the mental health and wellbeing of Veterans and healthcare workers
- **Clark Heard and MINDS of London-Middlesex** were recipients of the **SJHC Crisis Fund** to aid in research efforts during the COVID-19 pandemic
- **Dr. Verinder Sharma** named one of the **top experts (0.1%) in postpartum depression and bipolar disorder (1%)** by Expertscape; he was also awarded a grant from AMOSO Academic Health Sciences Centre AFP Innovation Fund
- The **Occupational Therapy and Spiritual Care lab** exceeded **20,000 reads** from **119 countries**, across **3 published articles**



COUNSELLING



MEDICATION



SUPPORT GROUPS



# JOINT MENTAL HEALTH RESEARCH & INNOVATION DAY 2021

The Shifting Landscape of Mental Health  
Across the Lifespan



Annual Parkwood Institute  
Research Day  
*Moving Toward Better Health*

Schulich  
MEDICINE & DENTISTRY

LAWSON  
HEALTH RESEARCH INSTITUTE

ST. JOSEPH'S  
HEALTH CARE  
LONDON

Western  
UNIVERSITY • CANADA



# EVENTS

## Parkwood Institute Research Day

- Keynote speaker:
  - **Dr. Bill McIlroy** - "Mobility, activity, and brain health: What can we learn from wearable technology"
- **169** attendees
- **45+** poster presentations (**26** by student presenters)
- **4** breakout sessions, live panel, networking, activities, and prizes

## Joint Mental Health Research & Innovation Day

- Keynote speakers:
  - **Dr. Daphne Korczak** - "Changing childhood: The impact of the COVID-19 Pandemic on children's mental health"
  - **Dr. Linda Mah** - "Older adults and the mental health effects of COVID-19 and past pandemics"
- **211** attendees
- **35+** oral presentations & **27+** poster presentations

## Parkwood Institute Research Open House

- **170+** attendees, including **3** local dignitaries
- **12** participating research labs
- **11** live sessions
- Networking
- Article exchanges
- Interactive activities and games

## Education Workshops

- **7** education workshops, featuring speakers from various organizations
- Examples of this year's education topics include:
  - How to Engage Patients as Members of the Research Team;
  - Trauma and Violence Informed Care/Systems; &
  - Creating Virtual Poster Presentations



# AWARDS

# AWARDS: INTERNAL AND EXTERNAL

## Awards

### **Zeina Abu-Jurji**

First Place, Poster Presentation, Health Studies Student Association (HSSA) Rediscovering Research Showcase, Western University

### **Dr. Clark Heard**

Unsung Hero Award, School of Rehabilitation Sciences, McMaster University

### **Amanda McIntyre**

2021-2022 Sigma Theta Tau International Award, Canadian Nurses Foundation

### **Dr. Swati Mehta**

First place, 9<sup>th</sup> National Spinal Cord Injury Conference, Canadian Spinal Cord Injury Research Association, Technology Category

### **Dr. Rachel Plouffe**

University of Western Ontario 3-Minute Research Top 10 Winner

## Funding

### **Dr. Jacobi Elliott**

Spring 2021 Lawson Internal Research Fund Competition

### **Dr. Jenny Lui**

CIHR Fellowship

## Appointments

### **Stephanie Cornell**

Ambulatory Facilitator for the Gray Center for Mobility and Activity

### **Dr. Anthony Nazarov**

Chair of the Center of Excellence for PTSD Moral Injury Community of Practice

### **Dr. J. Don Richardson**

2020-2021 Department of Psychiatry Research Award Promotion to Professor, Schulich School of Medicine & Dentistry, Western University Department of Psychiatry

## Milestones

### **The MacDonald Franklin OSI Research Centre Research Project Pre-registration Approval**

Liu, J. J. W., Nazarov, A., Easterbrook, B., Plouffe, R., & Richardson, J. D. (2021). The effectiveness of pharmacotherapy versus psychotherapy for treating post-traumatic stress disorder in military populations: A meta-analysis. PROSPERO. Retrieved from [https://www.crd.york.ac.uk/prospero/display\\_record.php?ID=CRD42021245754](https://www.crd.york.ac.uk/prospero/display_record.php?ID=CRD42021245754) 2021 Schulich School of Medicine-Western University Internal Seed Grant Competition

### **Dr. Robert Teasell**

Robert Teasell Lecture in Physical Medicine and Rehabilitation

# PARKWOOD INSTITUTE RESEARCH SPECIFIC ENDOWMENTS (PIR-SE)

Parkwood Institute Research is committed to training the next generation of leaders in research and health care in partnership with St. Joseph's Health Care Foundation. In 2021, the PIR-Specific Endowment program offered **\$132,000** in funding across 3 Fellowships, 4 Studentships, and 4 Travel Scholarships. Congratulations to this year's recipients!

## Fellowships

### **Dr. Munira Sultana – *Fellowship in Care of the Older Adults***

- Supervisor:** Dr. Manuel Montero-Odasso
- Project Title:** Targeted metabolomics in a novel phenotype of older adults at high risk of dementia

### **Dr. Rachel Plouffe – *Gay Endowed Research Fellowship in Veteran's Care***

- Supervisor:** Dr. J. D. Richardson
- Project Title:** The roles of personality and resiliency in Veteran mental health

### **Dr. Jon Tran – *Mary Elizabeth Horney Fellowship in Rehab. Research***

- Supervisor:** Dr. Eldon Loh
- Project Title:** Nerve supply to lumbar facet joints: Clinical imaging analysis and cadaveric correlation study

## Studentships

### **Ashvene Sureshkumar – *Joseph A. Scott Studentship in Mobility and Aging***

- Supervisors:** Dr. Susan Hunter and Dr. Ricardo Viana
- Project Title:** The investigation of prosthetic rehabilitation outcomes following a lower limb amputation in the oldest old

### **Peter Van Dyken – *PIR Mental Health Studentship***

- Supervisor:** Dr. Lena Palaniyappan
- Project Title:** Schizophrenia and cortical association fibers: A connectomic study

## Travel Scholarships

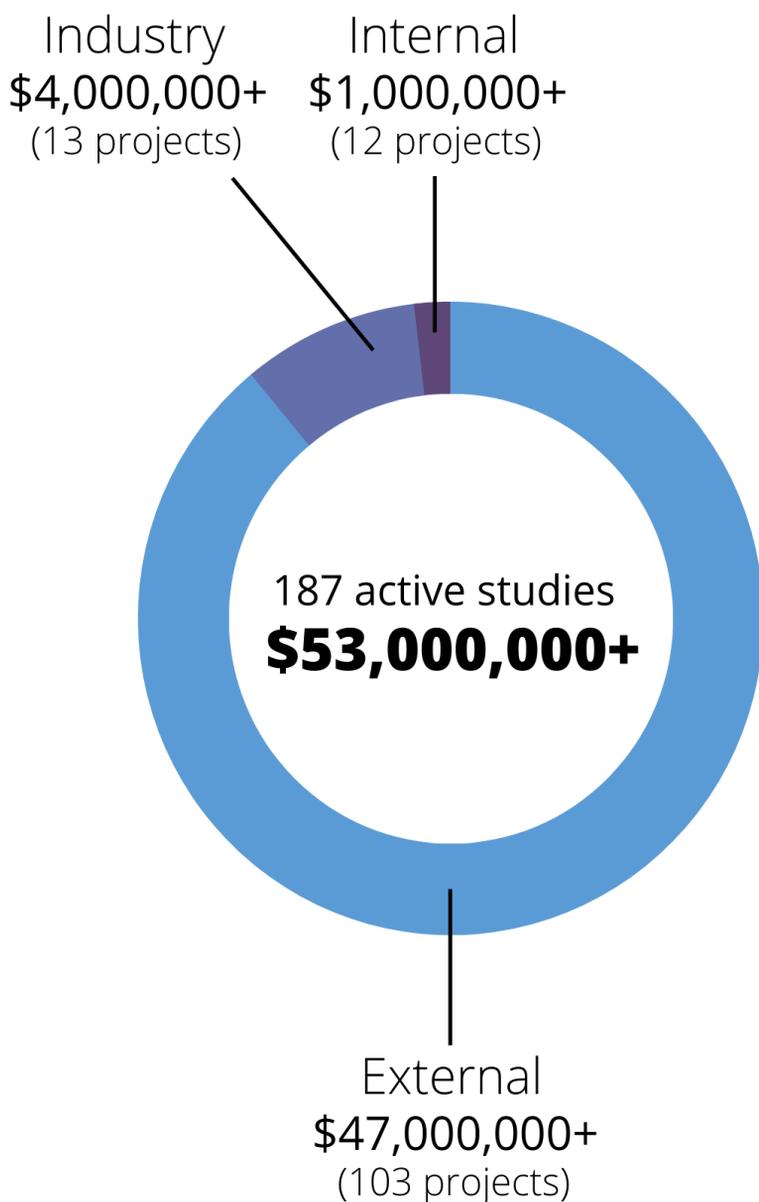
### **Dr. Munira Sultana – *Cognitive Vitality Travel Grant***

- Supervisor:** Dr. Manuel Montero-Odasso
- Conference:** International Association of Gerontology and Geriatrics
- Project Title:** Targeted metabolomics in a novel phenotype of older adults at a higher risk of dementia

### **Stephanie Marrocco – *Richard Hardy Memorial Fund For Spinal Cord Research Travel Grant***

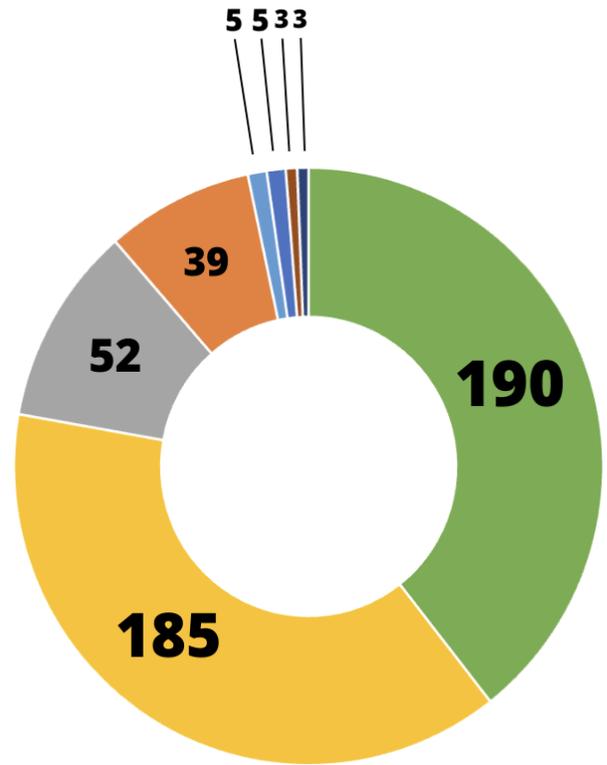
- Supervisor:** Dr. Dalton Wolfe
- Conference:** American Congress of Rehabilitation Medicine
- Project Title:** Evaluation alignment of Virtual Physical Activity program with the Toronto Rehab-Telerehab Toolkit

# ALL ACTIVE PROJECT FUNDING: 2015 - 2021

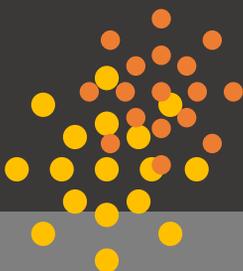


# RESEARCH PRODUCTS

In the past year, Parkwood Institute researchers and their affiliates generated a **total** of **482** research products.



- Books
- Book Chapters
- Media Appearances & Interviews
- Presentations & Invited Lectures
- Published Abstracts
- Academic Articles
- Reports
- Software & Technology



# SOCIAL MEDIA



- Started July 2018
- **236** followers
- **4** posts



- Started April 2021
- **103** posts
- **108** likes/shares/comments



- Started June 2018
- **242** followers
- **540** profile visits/month (avg)



- Started April 2021
- **130** videos
- **2,259** views

# PIR ANNUAL REPORT 2021



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