

# Parkwood Institute Research

## The PIR Newsletter

### *A message from the Interim Chairs . . .*

*Greetings,*

It is our pleasure to welcome you to the inaugural edition of the **Parkwood Institute Research (PIR)** Program Newsletter. As interim chairs, we are honoured to have the opportunity to provide leadership to the program as it develops over the coming months. We would like to thank Dr. Rob Petrella for his leadership over the course of the past 10 years in his role as the first Beryl & Richard Ivey Research Chair. Under Rob's leadership, the ARGC saw significant growth in terms of the breadth and quality of research. Now, the development of the Parkwood Institute has provided the impetus and opportunity for the development of new programs, new collaborations and increased opportunity to combine our efforts in our three research themes of *Cognitive Vitality and Brain Health, Mental Health Care, and Mobility and Activity*. The selection process for the next Ivey Research Chair will begin shortly, and you will certainly hear more about that in the New Year. In the meantime, as interim chairs, we look forward to working closely with Bonita, Maria, and all of the researchers within Parkwood Institute in continuing to move our research agenda forward. Our offices and email boxes are open to your input and inquiries – so please feel free to reach out to any of us.

We truly believe we have an exciting opportunity at the Parkwood Institute to develop and lead programs of research that will have a meaningful impact on our patients and community. We look forward to working with all of you over the coming months as we move forward together. As we approach the holiday season, we hope that each and every one of you have an opportunity to spend some downtime with friends and family reflecting on all of the many blessings we share as a research and hospital community.



Dr. Tim Doherty



Dr. Michael Borrie



Dr. Dick O'Reilly

### **Inside this Issue –**

<i>A message from the Interim Chairs</i>	1
<i>Special Remarks</i>	2
<i>Communication Updates</i>	3
<i>Notable Accomplishments</i>	8
<i>Community Connection</i>	9
<i>Grants &amp; Research Funding</i>	9
<i>Presentations &amp; Invited Lectures</i>	11
<i>Publications</i>	14
<i>Calendar of Events</i>	17



## ~ *Special Remarks* ~



Shuffling the pack, be it cards or ideas, is always exciting. That is exactly what we have done for research based at the Parkwood Institute site of St. Joseph's Health Care with a new name entitled, **Parkwood Institute Research (PIR)**. While PIR remains an integral part of Lawson Health Research Institute, the research has been recast within three main thematic areas, **Cognitive Vitality and Brain Health, Mobility and Activity, and Mental Health Care**. With each area led by a successful and respected clinician scientist, the next research priorities are being formulated for each program with emphasis on inter-disciplinary synergy and the ability to move research evidence into innovative care for the benefit of Parkwood patients and residents. Dementia, depression, recovery, healthy aging, and patient involvement in care design ~ these words represent strategic priorities for every health system in the developed world. They are also key elements of St. Joseph's Health Care strategic plan. It's goals include challenging the status quo through research and knowledge transfer in the area of Rehabilitation and Recovery. Congratulations to all PIR researchers, their staff and students in formulating research goals that will put the '**Institute**' into Parkwood.

**David Hill, D.Phil., FCAHS**  
*Scientific Director, Lawson Health Research Institute*  
*Integrated Vice President,*  
*Research for London Health Sciences Centre and*  
*St. Joseph's Health Care London*



It is a special privilege to provide remarks to this inaugural issue of The PIR Newsletter. The alignment of the Ivey Research Chair and the establishment of research priorities of our three research teams sets us up for success in galvanizing the recovery and rehabilitation vision for Parkwood Institute Research.

I look forward to supporting the evolution of our research focus on recovery and rehabilitation by catalyzing the work that will harmonize the patient populations we serve at Parkwood, the models of care that are common to the populations, and pursuit of patient experience and outcome measures.

**Karima Velji, RN, PhD, CHE**  
*Integrated Vice President,*  
*Mental Health Services*  
*St. Joseph's Health Care London*



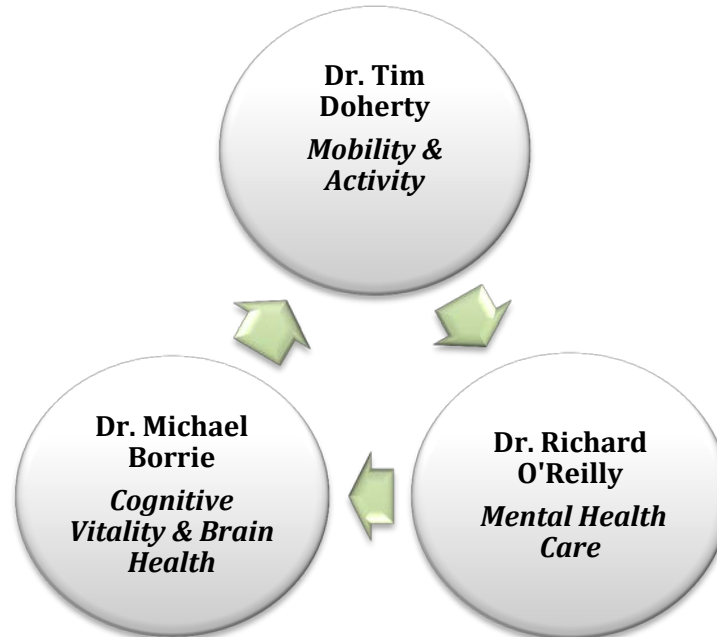
I feel very fortunate to be part of the leadership team at Parkwood Institute Research during this time of exciting and significant change. The talented group of clinicians and researchers at Parkwood Institute Research provides a strong foundation from which to grow our emerging areas of Cognitive Vitality & Brain Health, Activity & Mobility, and Mental Health Care. Our focus on interdisciplinary research, knowledge translation and innovative models of care delivery will pave the way for us to be leaders in recovery and rehabilitation. I am excited about what the future holds and look forward to our work together.

**Roy Butler, Ph.D.**  
*Vice President*  
*Patient Care and Quality*  
*St. Joseph's Health Care London*

## COMMUNICATION UPDATES. . .

### *Parkwood Institute Research Program*

**Parkwood Institute Research** is a program of the Lawson Health Research Institute representing the researchers and research programs of Parkwood Institute. As part of St. Joseph's Health Care London, Parkwood Institute is a vibrant academic health care community providing physical and mental health care, teaching and research, based on an understanding that conditions of the body and mind are integrally linked. **Cognitive Vitality and Brain Health, Mobility and Activity, and Mental Health Care** form the three major research programs at Parkwood Institute Research, with considerable overlap and synergies existing among the groups. This inter-disciplinary research provides unique opportunities for synergies resulting in the incorporation of new knowledge into patient care at Parkwood Institute. By minimizing the effects of injury, disease and disability we help individuals live their lives to the fullest. As a clinical research program embedded in an active teaching hospital, **Parkwood Institute Research** focuses on advancing innovations and discoveries directly related to patient care.



### New PIR Administration Email Address ~



Have a Parkwood Institute Research administration question? Effective immediately, we encourage you to please direct all PIR administration-related emails to:

**[PIR\\_info@sjhc.london.on.ca](mailto:PIR_info@sjhc.london.on.ca)**

This triage email is monitored regularly during business hours Monday through Friday. All inquiries will be answered promptly. We appreciate your patience during this transition.

For more information, please contact ~ **Maria van Burgsteden**, PIR Program Administrative Assistant, at extension: 519-685-4292 extension 42856

## Parkwood Institute Branding ~

When referring to the Parkwood Institute site with any communications and/or correspondence, please be sure to reference one of the following:

### OPTION 1:

Parkwood Institute Research  
**Main Building**  
 550 Wellington Road  
 London, ON N6C 0A7

OR

### OPTION 2:

Parkwood Institute Research  
**Mental Health Care Building**  
 550 Wellington Road  
 London, ON N6C 0A7



**NOTE:** The former "Parkwood Hospital" is no longer acceptable when referring to Parkwood Institute. Please also ensure your **GroupWise electronic signature** "closing salutation" refers to one of the above-mentioned address options.

For more assistance, please email the Parkwood Institute Research Program Administration Office:

**[PIR\\_info@sjhc.london.on.ca](mailto:PIR_info@sjhc.london.on.ca)**

## *"Welcome" New Research Personnel ~*

We would like to extend a special welcome to our new research personnel, who have joined the Parkwood Institute Research (PIR) program over these past few months:

- ❖ **Igor Angelovski** - Igor is a first-year Masters of Science student at Western's Department of Neuroscience presently working in Dr. Tim Doherty's lab to investigate the electromyographic properties of neuromuscular junctions in chronic myopathies and recovering nerve injuries. A graduate of Western University, Igor received his Bachelors of Science degree in 2015 pursuing an Honours Double Major in Physiology and Biology. Research into nerve-muscle interactions has become a personal passion for Igor as it relates to his desire for playing music, being a pianist classically-trained in the Royal Conservatory of Music himself. He also takes great pride in serving the community of Windsor-Essex from which he hails, having been heavily involved with the Kiwanis Club and its goal of empowering under-privileged youths locally and abroad. In his spare time, Igor enjoys the thrill of playing recreational squash, the joy of singing original compositions, and the serenity of a warm cup of tea. Igor is certain his studies with Dr. Doherty will be an experience that is rewarding both academically and individually. 
- ❖ **Narlon BoaSorteSilva** - Narlon is currently working as a research assistant in Parkwood Institute Research Program, under the supervision of Dr. Rob Petrella. During his undergraduate studies, Narlon became interested in the interaction of human aging and physical exercise. Subsequently, he decided to pursue the Human Anatomy & Kinesiology Monitoring Program in Sao Paulo, Brazil. Narlon's studies were completed at the Faculty of Physical Education at Nove de Julho University where he obtained a Bachelors of Physical Education 

in 2014. As a result of his work in the academic research field, Narlon was awarded the Globalink Research Internship (GRI) scholarship; a highly competitive program for international students in Canada funded by MITACS. With this funding, and under the guidance of Dr. Petrella, he collaborated on the research project "*Health Mind, Health Mobility: combining aerobic and dual-task exercise for older adults with cognitive impairment*" during the summer of 2014 at Western University. Now a Master's of Science student at Western's School of Kinesiology, Narlon has again been awarded MITACS funding for development of his studies regarding the "*underlying mechanisms of physical exercise effects on mobility: executive function and cognition of older adults*"; something he considers a fortunate opportunity allowing him to continue building on his experience as a young researcher.

- ❖ **Josh Brar** – Josh is currently working under the supervision Dr. Bob Teasell to update the Stroke Rehabilitation Evidence-Based Review in the CORRE Research Group. Graduating from Western University with an honours specialization in medical cell biology, Josh's academic interests revolve around understanding biological systems; his thesis was based on the "*interaction between human DNA polymerase and ubiquitinated PCNA.*"



- ❖ **Andreea Cotoi** - Andreea recently joined Dr. Teasell's CORRE research team. Andreea is a recent MSc graduate from Queen's University where she studied the behavioral and neural correlates of conditioned pain modulation in the human brainstem and spinal cord by means of functional MRI. Prior to her graduate degree, Andreea worked with Dr. Gary Rodin and his team at the Princess Margaret Hospital in Toronto to understand the psychosocial burden carried by patients and their caregivers during palliative care. Andreea's interests lie within the health sciences, with a strong focus on the knowledge translation field of research, particularly in the areas related to mental health, neuropsychopharmacology and neuroscience.



- ❖ **Shannon Davidson** - In 2015, Shannon received her undergraduate degree in Kinesiology from Western University and, in the same year, was on the Dean's Honour List. She is currently pursuing her Masters of Science in Kinesiology under the supervision of Dr. Tim Doherty, and plans to successfully defend in 2017. Aside from academia, Shannon displays a passion for sports, specifically softball. As a captain in her final year of undergrad for the Western Mustangs, she holds a 4x provincial and national championship title. Shannon is also a former member of the Women's National Softball Program where she has competed worldwide. Some of her fondest memories include placing 2<sup>nd</sup> at the 2010 Pan Am games and placing 4<sup>th</sup> at the 2011 World Championships in Colombia and South Africa, respectively. Shannon looks forward to the opportunities that will come from working in Dr. Doherty's lab.



- ❖ **Ashna Jinah** – Ashna is presently working under the supervision of Dr. Bob Teasell to update the Stroke Rehabilitation Evidence-Based Review (SREBR); she is a Master's student at Western University in the Epidemiology & Biostatistics degree program and is nearing completion of her Master's thesis December 2015. Her thesis explores the association between neighbourhood walkability and adult obesity prevalence in urban Canada, using data from the National Population Health Survey (NPHS) in 2010/11. Prior to her graduate studies, Ashna completed her undergraduate education at the University of Waterloo with an Honour's Bachelor of Science, majoring in Health Studies & Gerontology, with a Health Research Specialization. Ashna was also a part of the co-op program and worked as a project analyst with Shared Information



Management Services (SIMS) at the University Health Network (UHN) on Information Management/ Information Technology (IM/IT) Health care projects. Ashna also has had an opportunity to travel to Nairobi, Kenya where she worked at the Aga Khan University Hospital as a research assistant in the Department of Medicine and was involved in several research projects in the Cardiology Clinic. Some of Ashna's academic and research interests include the epidemiology of chronic & infectious diseases, pharmacoepidemiology, global health, and mental health & aging.

- ❖ **Jacqueline Kueper** - Jacqueline recently joined the Gait and Brain Lab as a Master's student in Epidemiology and Biostatistics at Western University, co-supervised by Drs. Manuel Montero-Odasso and Mark Speechley. Jacqueline completed her Bachelor of Science in Psychology and Interdisciplinary Life Sciences at McGill University where she became passionate about examining the many interacting factors that contribute to the well-being of vulnerable populations. She looks forward to using her academic experiences for the development of sensitive measures for cognitive and mobility decline that can be used in the diagnosis and treatment of mild cognitive impairment.



- ❖ **Navena Lingum** - Navena is a first year Master's candidate working under the supervision of Dr. Montero-Odasso in the Gait and Brain Lab. Navena recently completed her undergraduate degree (BA Hons) at York University where she examined the effects of stereotype priming on physical and psychological functioning among older adults. She has also worked on various projects investigating differences in goal-directed cognition among young and older individuals. In joining the Gait and Brain Lab, Navena brings her passion for aging and brain research. Her Master's project will focus on interventions that alter the progression of white matter lesions in cerebral small vessel disease as well as its interaction on clinically relevant gait and cognitive outcomes.



- ❖ **Ana-Bianca Popa** - Ana-Bianca is involved in a number of projects working as a research assistant in the Gait and Brain Lab under the supervision of Dr. Montero-Odasso. As a 4<sup>th</sup> year undergraduate student in Health Sciences at Western, Ana-Bianca has previously worked on a pilot study exploring the effects of weighted compression vests on executive function in people with mild traumatic brain injury.



- ❖ **Brendan Riggan** - Brendan is a proud "Mustang" having completed both his Bachelor of Arts Honors Specialization in Kinesiology and Masters of Arts in Kinesiology at Western University where he achieved Dean's Honor List. Brendan is working with Dr. Petrella on the HockeyFIT project as the coach of the Sarnia Hockeyfit site. Brendan was an assistant coach for the Western Men's Ice Hockey team for two years prior to becoming the head coach of the Strathroy Rockets. He has been a guest lecturer for a fourth year sports marketing course at the Western School of Kinesiology where he taught contemporary marketing concepts including: relationship, cause, social and ethnic marketing. Brendan hopes to pursue a career in the sports management industry and incorporate his research experience. Brendan is currently pursuing a PhD in Sports Management with a research interest in corporate social responsibility.



- ❖ **Ann Rowe** - Ann was the clinical coordinator for the ALS Team and clinical trials for 25 years with Drs. Michael Strong and Christen Shoosmith. After a 10-month retirement, Ann

returned to part-time work in clinical trials with diabetes. As of August, Ann is happy to be working with the Cognitive Neurology Clinic Team and with Dr. Stephen Pasternak on a project looking into Parkinson's Disease Dementia.

- ❖ **Natalie Scime** - Natalie joined Dr. Dalton Wolfe's team in August 2015 as a research assistant working on literature reviews in the area of self-management in persons with SCI. She recently graduated with distinction from the Bachelor of Health Sciences at Western University and is continuing her studies at Western with a Master's degree in Health Promotion. Natalie is also a recipient of a CIHR Canada Graduate Scholar Masters Award for 2015-2016. Natalie hopes to pursue a career in research and is eager to expand on her skills and experience in her role with Dalton's team.



- ❖ **Jonatan Snir** - Jonatan is pleased to be working under the mentorship of Dr. Manuel Montero-Odasso, whose prestigious work was of interest to him long ago. As a post-doctoral fellow at Parkwood Institute, Jonatan is researching the association between the gait and MRI of older adults; this study may have implications toward early diagnosis and better understanding of dementia onset and progression. During his recent PhD study, Jonatan helped develop and successfully test a novel molecular imaging contrast agent for the detection of Cathepsin D activity, a lysosomal protease associated with Alzheimer's disease development. Jonatan grew up in Israel, immigrating with his family to Canada in 2001 and arriving in London in 2002. Aside from working, Jonatan enjoys classical music and is a hobbyist photographer.



- ❖ **Jerry Shum** - Jerry is a 4<sup>th</sup> year BMSc student at Western University currently working under the supervision of Dr. Richard O'Reilly; Jerry has enthusiastically taken on the initial and daunting task of conducting a literature review of public available information to survey the psychiatric bed numbers in international jurisdictions that have mental health systems similar to Ontario.

- ❖ **Ming-Kin Wong** - Ming-King joined Dr. Dalton Wolfe's team as a research assistant working on a project to develop a decision support system for physiotherapists, in regards to various activity-based therapies. Ming-King's previous experience involved working on the REDCap system to recreate the SCAT and ISNCSCI forms on this platform so that data collection can be centralized and digitized. Ming-King is a recent graduate from Western University having obtained his Bachelors of Health Sciences with distinction majoring in Rehabilitation Sciences. As an undergrad, Ming-King worked with Dr. Bert Chesworth and (now) Dr. Clayton Hamilton (Post-doctoral Fellow in Knowledge Translation, Department of Physical Therapy, UBC) on a research paper investigating measures of illness behaviours and perceptions in patients with knee pain and knee osteoarthritis. This work has been accepted for publication in the Pain Practice journal. The publication will be called "*Validated measures of illness perception and behavior in people with knee pain and knee osteoarthritis: A scoping review*". Presently, Ming-King is completing his 5<sup>th</sup> year undergrad courses and working towards acceptance into the Masters of Physical Therapy program, in order to pursue a career as a Physical Therapist.



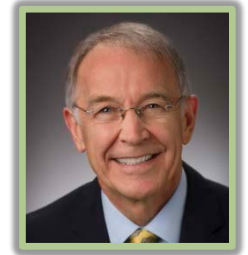
## Parkwood Institute Research Events ~

### Mental Health Care Research Half Day

Many thanks to all of the presenters and participants for contributing to the Mental Health Care Research Half Day held on Friday September 25, 2015. This marked the first Research Half-Day held at the Parkwood Institute Mental Health Care Building.

With over 100 registered, this day was well attended with a wide array of quality oral and poster presentations reflective of the diverse research in mental health.

We were delighted to have **Dr. Edward Coffey**, President and CEO of the Menninger Clinic, Houston, Texas as our keynote speaker for the 11<sup>th</sup> Annual Tony Cerenzia Research Lecture. Dr. Coffey's keynote address was entitled "*An Overview on Neurostimulation: Current and Future Approaches*".



Dr. Edward Coffey,  
President and CEO  
Menninger Clinic,  
Houston, Texas

### The IX Annual Gait & Brain Seminar Series

The IX Annual Gait & Brain Seminar Series held on October 6, 2015 was a great success. We would like to extend our appreciation to guest speaker **Dr. Nicolaas Bohnen** from the University of Michigan for taking the time to visit with us and share his valuable expertise. Attendance was at an all-time high and feedback was very positive. Dr. Bohnen's presentation "*Role of Cholinergic Therapy to Improve Mobility and Reduce Falls in Parkinson's disease: Implications for Older Adults*" has been archived and is available for viewing online through the OTN website: <http://webcast.otn.ca/mywebcast?id=47094722>



Dr. Nicolaas Bohnen (right)  
accepting his gift of  
appreciation from Dr.  
Montero-Odasso (left)

### Dr. Nicole Marlatt

In the previous newsletter, Nicole's work with Dr. Iris Gutmanis was featured; however, since then, she has begun working on a part-time basis as a Project Manager with the Mental Health Care Program, under the supervision of Dr. Richard O'Reilly. As Project Manager, Nicole's first major task is well underway in working with researchers to guide the development of strategic plans in three primary areas of psychiatric research: Mood and Anxiety Disorders, Suicide, and Smart Technology, which will be presented to senior leadership in late January 2016.

## NOTABLE ACCOMPLISHMENTS. . .



**Dr. Bob Teasell's** CORRE team presented four posters, which were award recipients at the 92<sup>nd</sup> Annual Conference of the **American Congress Rehabilitation Medicine (ACRM)** in October in Dallas Texas. ACRM is a major international conference in rehabilitation with a combination of PhD and MD researchers and clinicians. One poster was awarded the top overall poster, a second was awarded the third overall poster, a third was awarded the Spinal Cord Injury-SIG Early Career Poster Award and the fourth was awarded the Second Place Award for Stroke ISIG Posters. Since 2003 this brings the total number of recognition awards given to the CORRE Research Group to 42. The awarded posters were:

- ❖ **1st Place Poster Award:** Mehta S, Rice D, Serrato J, Janzen S, Getty G, Shapiro A, Morley-Forster P, Sequeira K, Teasell R. *Mood and disability among a subgroup of chronic pain individuals with high experiential avoidance and anxiety sensitivity.*



- ❖ **2nd Place Award ISIG Poster:** McIntyre A, Thompson S, Burhan AM, Mehta S, Janzen S, Teasell R. *Treatment of vascular depression and post-stroke depression using repetitive transcranial magnetic stimulation: Systematic review.* (This work was a joint effort of Physical Medicine and Rehabilitation and Psychiatry at Parkwood Institute.)
- ❖ **3<sup>rd</sup> Place Poster Award:** Mehta S, Rice D, Shapiro A, Pope J, Harth M, Morley-Forster P, Sequeira K, Teasell R. *Psychological distress in outpatients assessed for chronic pain compared to those with rheumatoid arthritis.* (This work was a joint effort of a number of SJHC programs including Physical Medicine and Rehabilitation, Psychology, The Pain Clinic and Rheumatology.)
- ❖ **SCI-SIG Early Career Poster Award:** Mehta S, McIntyre A, Guy S, Teasell R, Loh E. *Effectiveness of transcranial direct current stimulation for the management of neuropathic pain after spinal cord injury: A meta-analysis.*

**Swati Mehta** (MA PhD candidate), **Amanda McIntyre** (MSC RN), and **Shannon Janzen** (MSc) accepted the conference awards.

During the Fall, Dr. Bob Teasell was involved in the following roles:

- *Committee Member* to coordinate the 6<sup>th</sup> Canadian Stroke Congress, September 18, 2015, Toronto, ON
- *Chair* for the “Rehabilitation Session” for 6<sup>th</sup> Canadian Stroke Congress, September 18, 2015, Toronto, ON
- *Chair* for Session entitled “Looking Ahead: Potential Gamechangers in Stroke Recovery”, at the Canadian Partnership for Stroke Recovery Annual Meeting, September 16-17, 2015, Toronto, ON
- *Principal Organizer of CME Advances* in the Continuing Management of Stroke, a local conference in London, ON on November 6, 2015

## COMMUNITY CONNECTION. . .

Ashleigh DeCruz in conjunction with Dawn Gill and Dr. Rob Petrella presented “*Hockey FIT – A healthy lifestyle study for male hockey fans*” at the Men’s Retirement & Leisure Fair in Covent Garden Market on November 1, 2015 in London, Ontario. This event was sponsored by the Western University Schulich School of Medicine & Dentistry, Lawson Health Research Institute, Movember Foundation and Rogers TV. For further information please click on the following link: <http://www.mensfair2015.com/>

## GRANTS & RESEARCH FUNDING. . .



**Principal Investigator: Borrie M**

**Co-Investigators: Wells J, Finger E, Pasternak S**

**Study Title:** Amyloid and glucose PET Imaging in Alzheimer and vascular cognitive impairment patients with significant white matter disease (MITNEC C6)

**Year:** 2015-2016

**Principal Investigator: Borrie M**

**Co-Investigators: Wells J, Finger E, Pasternak S**

**Study Title:** A phase 3 multicenter, randomized, double-blind, placebo-controlled, parallel-group study to evaluate the efficacy and safety of Aducanumab (BIIB037) in subjects with early Alzheimer's Disease

**Year:** 2015-2016

**Principal Investigator: Borrie M****Co-Investigators: Wells J , Finger E, Pasternak S****Study Title:** A randomized, open-label, proof of concept study of Telmisartan vs. Perindopril in hypertensive mild-moderate Alzheimer's Disease patients**Year:** 2015-2016**Principal Investigators: Montero Odasso M, Burhan A****Co-Investigators:** Bartha R, **Borrie M, Doherty T**, Hachinski V, Speechley M**Study Title:** Periodic brain MRI as a synergistic tool in predicting gait variability, cognitive decline and progression to dementia in older adults with mild cognitive impairment**Agency:** Dean's Research Grant Initiative (Pilot Study)**Year:** 2015**Amount:** \$40,000**Principal Investigator: O'Reilly R****Co-Investigators:** Gray J, Shum J**Study Title:** Psychiatric bed numbers: An analysis of available public information**Year:** 2015-2016**Agency:** The Coalition of Ontario Psychiatrists**Amount:** \$5,000**Principal Investigator: Pasternak S****Co-Investigators: Borrie M, Finger E,** Jenkins M, Jog M, Morrow S**Study Title:** Ambroxyl as a novel disease modifying treatment for Parkinson's Disease Dementia**Year:** 2015-2016**Principal Investigator: Pasternak S****Co-Investigators: Borrie M, Wells J, Finger E****Study Title:** Transtech**Year:** 2016-2017**Principal Investigator: Wells J****Co-Investigators: Borrie M, Finger E, Pasternak S****Study Title:** A phase III, multicenter, randomized, double-blind, placebo-controlled, parallel-group, efficacy and safety study of Crenezumab in patients with prodromal to mild Alzheimer's Disease**Year:** 2016-2017**Principal Investigator: Wolfe D****Co-Investigators:** Gilvesy J**Study Title:** Protocol development and implementation planning: Building the foundation for clinical and research innovation in locomotor training**Year:** 2015 - 2016**Amount:** \$190,166

## PRESENTATIONS & INVITED LECTURES. . .

### SEPTEMBER

Bassett-Spiers K, Athanasopoulos P, Wolfe D, Flett H, Bowman T, Boles L

*Integrating people with SCI in best practice implementation across the continuum of care: Prevention and treatment of pressure sores.* Ministry of Health and Long Term Care Meeting. Toronto, ON

Meyer M, Teasell R, Thind A, Koval J, Fang J, Aslani E, Speechley M  
*Assessing variability in access to post-stroke inpatient rehabilitation across Ontario: A multi-level cohort analysis.* Stroke Congress. Toronto, ON

Nelson M, Kelloway L, Dawson D, McClure JA, McKellar K, Menon A, Munce S, Ronald K, Teasell R, Wasdell M, Lyons R  
*Stroke rehabilitation and patients with multimorbidity: A scoping review.* (oral presentation) Stroke Congress. Toronto, ON

Teasell R  
*Community Rehabilitation and Long-Term Rehabilitation Management.* Canadian Stroke Congress Meeting. Toronto, ON

## OCTOBER

Allen L, John-Baptiste A, Richardson M, Meyer M, Speechley M, Ure D, Willems D, Teasell R  
*A cost-effectiveness study of home-based stroke rehabilitation.* Society for Medical Decision Making Conference. St. Louis, MI

Bocti J, Petrella R  
*Multiple modality mind-motor effect on single and dual-task gait, balance and executive function in older adults with a subjective cognitive complaint.* Canadian Society for Exercise Physiology (CSEP). Hamilton, ON

Borrie M  
*Mild cognitive impairment, Alzheimer Disease, diagnosis, treatment and research.* Alzheimer's Outreach Service, McCormick Home. London, ON

DeForge R  
*Culture of Innovation* Canadian College of Health Leaders Southwestern Ontario Chapter Study Tour, Chatham Kent Health Alliance, Chatham ON

Dogra S (Chair), Copeland J, Petrella R, Chilibeck P  
*Making a case for increasing physical activity and cardiorespiratory fitness. "How can we best promote healthy aging: Focus on sedentary time, physical activity or resistance training?"* The Canadian Society for Exercise Physiology (CSEP): Where Science is the New Steel. Hamilton, ON

Gutmanis I  
*Findings from the Geriatric Cooperative Evaluation: 2015.* Huron/Perth Geriatric Cooperative Meeting. Seaforth, ON; Middlesex/London Geriatric Cooperative Meeting. London, ON; Grey-Bruce Geriatric Cooperative Meeting. Owen Sound, ON

Heath M, Gregory M, Gillen C, Gill D, Petrella R  
*A six-month exercise-training program improves cognitive-motor control in persons with an identified cognitive complaint: Evidence from the anti-saccade task.* Society for Neuroscience Annual Meeting. Chicago, IL

Lindsay J, Sargeant S, Best S, Woolmore-Goodwin S, Borrie M  
*Case finding as a recruitment strategy for subjective and mild Cognitive Impairment Clinical Trials and Academic Studies.* Canadian Conference on Dementia. Ottawa, ON

McIntyre A, Thompson S, Mirkowski M, Burhan A, Miller T, Teasell R  
*The use of repetitive transcranial magnetic stimulation for spasticity post stroke.* American Congress of Rehabilitation Medicine. Dallas, TX  
McIntyre A, Thompson S, Burhan AM, Mehta S, Janzen S, Teasell R

*Treatment of vascular depression and post stroke depression using repetitive transcranial magnetic stimulation: Systematic review.* American Congress of Rehabilitation Medicine. Dallas, TX

Mehta S, Rice D, Shapiro A, Pope J, Harth M, Morley-Forster P, Sequeira K, Teasell R  
*Psychological distress in outpatients assessed for chronic pain compared to those with rheumatoid arthritis.* American Congress of Rehabilitation Medicine. Dallas, TX

Mehta S, Rice D, Serrato J, Getty G, Shapiro AP, Morley-Forster P, Sequeira K, Teasell R  
*Mood and disability among a subgroup of chronic pain individuals with high experiential avoidance and anxiety sensitivity.* American Congress of Rehabilitation Medicine. Dallas, TX

Mehta S, McIntyre A, Guy S, Teasell R, Loh E  
*Effectiveness of transcranial direct current stimulation for the management of neuropathic pain after spinal cord injury: A meta-analysis.* American Congress of Rehabilitation Medicine. Dallas, TX

Rice D, McIntyre A, Vermeer J, Viana R, Macaluso S, Teasell R  
*Correlates of depressive symptoms in stroke outpatients.* American Congress of Rehabilitation Medicine. Dallas, TX

Rice D, Janzen S, McIntyre A, Britt E, Teasell R  
*Effectiveness of hospital-based outpatient stroke rehabilitation.* American Congress of Rehabilitation Medicine. Dallas, TX

Shellington E, Gregory M, Gill D, Petrella R  
*Dual-task gait training and aerobic exercise improves information processing, memory, and gait in older adults with cognitive impairment.* Canadian Society for Exercise Physiology Annual General Meeting. Hamilton, ON

Teasell R  
*Why does intensity matter in stroke rehabilitation?* QBP Rehabilitation Planning; Achieving Best Practice for Stroke Therapy Intensity. London, ON

Thompson S, Rice D, McIntyre A, Richardson M, Teasell R  
*Complementary and alternative medicine in stroke rehabilitation.* American Congress of Rehabilitation Medicine, Dallas, TX

VanBussel L, Mihailidis A, Coahran M, Churchyard R, Michael K, Hillier L, Ross T, Gutmanis I, Black E, Burhan A  
*Nurse's perceptions of the use of artificial intelligence to detect falls in a geriatric psychiatry inpatient care setting.* Canadian Association on Gerontology. Calgary, AB

Wells J (Keynote speaker)  
*Before pills .... What works to prevent dementia.* The London Club. London, ON

Wolfe D, Athanasopoulos P  
*Making things happen by working together: Prevention and treatment of pressure sores.* Ontario Neurotrauma Foundation Board of Directors Meeting. Toronto, ON

Wolfe D, Flett H, Lala D, Musselman K  
*Implementing best practice guidelines to improve SCI care: Lessons learned from the trenches.* Ontario SCI Research Network Meeting. Toronto, ON

**NOVEMBER**

Burhan A, Teasell R

*The Hidden Epidemic: Depression Post Stroke.* Advances in the Continuing Management of Stroke. London, ON

Gutmanis, I

*Aging and Health Care. Emerging Trends in Health Care.* Western University. London, ON

Guy S

*Moving knowledge into practice for optimized outcomes: Lessons learned from the front lines of knowledge implementation.* 'PIRLs' of Wisdom 2015: Free Education and Discovery Night for Clinicians and the Public. London, ON; Ontario Neurotrauma Foundation Staff (Nov). Toronto ON

Mitchell D, Habib M, Pericleous L, Petrella R

*High low-density lipoprotein cholesterol levels are common among high-risk patients one year after initiating statin therapy: Results of a large Canadian cohort study.* American Heart Association. Orlando, FL

Mitchell D, Pericleous L, Petrella R

*Management of statin intolerance (SI) in patients at high risk for cardiovascular (CV) events: Results of a Canadian Study.* ISPOR 18<sup>th</sup> Annual European Congress. Milan, Italy

Mitchell D, Pericleous L, Petrella R

*Burden of dyslipidaemia in patients at high risk for cardiovascular (CV) events: Results of a Canadian Study.* ISPOR 18<sup>th</sup> Annual European Congress. Milan, Italy

Montero Odasso M

*The role of vascular risk factors in disability.* III International Congress of Clinical and Internal Medicine. Buenos Aires, AR

Montero Odasso M, Casas Herrero A

*Resolution of clinical cases about frailty with experts. Geriatric School Residents: Latin American Chapter III* International Congress of Clinical and Internal Medicine. Buenos Aires, AR

Sakurai R, Montero Odasso M, Yasunaga M, Murayama Y, Takeuchi R, Fujiwara Y, Ishii K

*Longitudinal relationship between cerebral glucose metabolism and gait speed in older adults.* Geriatric Society of America Conference. Orlando, FL

Ure D, Teasell R

*The Community Stroke Rehabilitation Teams.* Ontario Stroke Network Forum. London, ON

Shigematsu R, Okura T, Nakagaichi M, Nakata Y, Gill D, Petrella R

*A novel Stepping Test as a screening tool for mild cognitive impairment in older adults.* Gerontological Society of America. Orlando, FL

Wells J

*Comprehensive Geriatric Assessment.* Erie St. Clair LHIN, Chatham, ON

## PUBLICATIONS. . .

### Peer-Reviewed Articles:

Borrie M, Toledo J, Zetterberg H, van Harten A, Glodzik L, et al (Alzheimer's Disease Neuroimaging Initiative)

Alzheimer's disease cerebrospinal fluid biomarker in cognitively normal subjects. *Brain* 2015 Sep;138(Pt 9):2701-15

Burhan, AM, Subramanian P, Barnes B, Montero Odasso M

Modulation of the left prefrontal cortex with high frequency repetitive transcranial magnetic stimulation facilitates gait in multiple sclerosis. *Case Rep Neurol Med* 2015;2015:251829.

doi: 10.1155/2015/251829. Epub 2015 Sep 2

Campbell N, Rice D, Friedman L, Speechley M, Teasell R

Screening for cognitive impairment after stroke: Application of a shortened Montreal Cognitive Assessment (MoCA). *Disability and Rehabilitation* 2015 Jun 29:1-4 [Epub ahead of print]

Castellani C, Melka M, Gui J, O'Reilly R, Singh S

Integration of DNA sequence and DNA methylation changes in two monozygotic twin pairs discordant for schizophrenia. *Schizophr Res* 2015 Oct 2. pii: S0920-9964(15)00491-0

doi: 0.1016/j.schres.2015.09.021. [Epub ahead of print]

Dawson J, O'Reilly R

Residence conditions on community treatment orders. *Can J Psychiatry* 2015;60(11):523-527

Kalsi-Ryan S, Beaton D, Ahn H, Askes H, Drew B, Curt A, Popovic M, Wang J, Verrier M, Fehlings M

Responsiveness, sensitivity and minimally detectable difference of the Graded and Redefined Assessment of Strength, Sensibility, and Prehension, Version 1.0 (GRASSP V1). *J Neurotrauma*. 2015 Nov 11: (epub ahead of print)

Mayo N, Anderson S, Barclay R,... Teasell R

Getting on with the rest of your life after stroke: Evaluation of a complex intervention aimed at enhanced life participation post stroke. *Clinical Rehabilitation* 2015;29(12):1198-1211

Mehta S, McIntyre A, Guy S, Teasell R, Loh E

Effectiveness of transcranial direct current stimulation for the management of neuropathic pain after spinal cord injury: A meta-analysis. *Spinal Cord* 2015;53(11):780-785

McIntyre A, Campbell N, Vermeer J, Mays R, Janzen S, Teasell R

Motor interventions for stroke rehabilitation: Do the randomized controlled trials have good methodological quality? *Journal Stroke and Cerebrovascular Disease* 2015 Oct 20

[Epub ahead of print]

McIntyre A, Janzen S, Richardson M, Kwok C, Teasell R

An overview of Acquired Brain Injury research rehabilitation randomized controlled trials. *Journal of Head Trauma Rehab* 2015;30(6):E47-53

McKinnon M, Montero-Odasso M, Doherty T

Motor unit loss is accompanied by decreased peak muscle power in the lower limb of older adults. *Experimental Gerontology* 2015;70:111-18

McKinnon N, Montero-Odasso M, Doherty T

Motor unit loss is accompanied by decreased peak muscle power in the lower limb of older adults. *Exp Gerontol.* 2015 Oct; 70: 111-8. doi: 10.1016/j.exger.2015.07.007

Montero-Odasso M

Gait as a biomarker of cognitive impairment and dementia syndromes. Quo Vadis? *Eur J Neurol* 2015 Nov 26. doi: 10.1111/ene.12908. [Epub ahead of print]

Montero-Odasso M, Bherer L, Studenski S, Gopaul K, et al

Mobility and cognition in seniors. Report from the 2008 Institute of Aging (CIHR) Mobility and Cognition Workshop. *Can Geriatr J* 2015 Sep 30; 18(3): 159-67. doi: 10.5770/cgj.18.188.

Moore C, Kimpinski K, Allen M, Doherty T, Rice C

Reduced skeletal muscle quantity and quality in patients with diabetic polyneuropathy assessed by magnetic resonance imaging. *Muscle and Nerve* 2015. doi: 10.1002/mus.24779. [Epub ahead of print]

O'Reilly R, Gray J, Jung J

Sharing information with families that carry burden of care for relatives with severe mental illness. *JEMH* 2015 Nov 20; open volume: 1-5

Peters L, O'Connor C, Giroux I, Teasell R, Foley N

Screening and assessment of nutritional status following stroke: Results from a Canadian survey of registered dietitians. *Disability and Rehabilitation* 2015; 37(26): 2413-2417

Petrella R Wakeford C

Pain relief and improved physical function in knee osteoarthritis patients receiving ongoing hylan GF-20, a high-molecular-weight hyaluronan, versus other treatment options: data from a large real-world longitudinal cohort in Canada. *Drug Design, Development & Therapy* 2015; 9: 5633-5640

Salter K, McClure J, Foley N, Sequeira K, Teasell R

Pharmacotherapy for depression post traumatic brain injury: A meta-analysis. *Journal of Head Trauma Rehab* 2015; Oct 16 [Epub ahead of print]

Richardson M, Campbell N, Allen L, Meyer M, Teasell R

The Stroke Impact Scale: Psychometric performance, summary scores and usefulness of a quality of life measure in a community based stroke rehabilitation setting. *Disability and Rehabilitation* 2015; Oct 30(6): 1-6 [E published ahead of print]

Speechley, M, DeForge, R, Ward-Griffin, C, Marlatt, N and Gutmanis, I

Creating an Ethnodrama to catalyze dialogue in home-based dementia care. *Qualitative Health Research* 2015; 25: 1551-1559

Wells J, Montero-Odasso M, Bherer L, Studenski S, et al

Mobility and cognition in seniors. Report from the 2008 Institute of Aging (CIHR) Mobility and Cognition Workshop. *Canadian Geriatrics Journal*, Sept 2015; 18(3): 159-67

## Magazine Articles



Dr. Michael Borrie discusses Jo's diagnosis with the couple

### "Jo Has Alzheimer's. He's 38. Inside his heartbreaking fight against time".

Read about Shannon Proudfoot's interview with **Dr. Michael Borrie** in the September issue of Maclean's magazine <http://site.macleans.ca/longform/alzheimers/>

## Book Chapters

Hussein N, Teasell R

General concepts: Therapies for rehabilitation and recovery. In: *Ischemic Stroke Therapeutics: A Comprehensive Guide*, Editors: Tanya Turan, Bruce Oviagele, Springer Science, 2016, p. 195-201

Viana R, McKenzie H

Therapies for rehabilitation and recovery: A Comprehensive Guide. In: *Ischemic Stroke Therapeutics: A Comprehensive Guide*, , Editors: Tanya Turan, Bruce Oviagele, Springer Science, 2016, p. 217-223

## Newspaper Articles

Science and Technology reporter Kate Allen from the Toronto Star recently interviewed Dr. Rob Bartha and Dr. Manuel Montero Odasso to highlight their innovative work as Team leaders in the CIHR/CCNA (Canadian Consortium of Neurodegeneration in Ageing). Sunday November 22<sup>nd</sup>

Read the full article here: <http://www.thestar.com/news/insight/2015/11/22/the-race-to-find-biomarkers-that-can-predict-dementia.html>

## Published Abstracts:

McIntyre A, Thompson S, Mirkowski M, Burhan A, Miller T, Teasell R

The use of repetitive transcranial magnetic stimulation for spasticity post stroke. *Archives of Physical Medicine and Rehabilitation* 2015;96(10):e118

Mehta S, Rice D, Serrato J, Janzen S, Getty G, Shapiro AP, Morley-Forster P, Sequeira K, Teasell R  
Mood and disability among a subgroup of chronic pain individuals with high experiential avoidance and anxiety sensitivity. *Archives of Physical Medicine and Rehabilitation* 2015;96(10):e65-e66

Mehta S, Rice D, Shapiro A, Pope J, Harth M, Morley-Forster P, Sequeira K, Teasell R  
Psychological distress in outpatients assessed for chronic pain compared to those with rheumatoid arthritis. *Archives of Physical Medicine and Rehabilitation* 2015;96(10):e65

Mehta S, McIntyre A, Guy S, Teasell R, Loh E

Effectiveness of transcranial direct current stimulation for the management of neuropathic pain after spinal cord injury: A meta-analysis. *Archives of Physical Medicine and Rehabilitation* 2015; 96(10):e119

Meyer M, Teasell R, Thind A, Koval J, Fang J, Aslani E, Speechley M

Assessing variability in access to post-stroke inpatient rehabilitation across Ontario: A multi-level cohort analysis. *International Journal of Stroke*, 2015; vol 10, S1 supplement 4:53



Nelson M, Kelloway L, Dawson D, McClure JA, McKellar K, Menon A, Munce S, Ronald K, Teasell R, Wasdell M, Lyons R

Stroke rehabilitation and patients with multimorbidity: A scoping review. *International Journal of Stroke*, 2015; vol 10, SI supplement 4:26

Rice D, McIntyre A, Vermeer J, Viana R, Macaluso S, Teasell R

Correlates of depressive symptoms in stroke outpatients. *Archives of Physical Medicine and Rehabilitation* 2015; 96(10):e36

Rice D, Janzen S, McIntyre A, Britt E, Teasell R

Effectiveness of hospital-based outpatient stroke rehabilitation. *Archives of Physical Medicine and Rehabilitation* 2015; 96(10):e36

Thompson S, Rice D, McIntyre A, Richardson M, Teasell R. Complementary and alternative medicine in stroke rehabilitation. *Archives of Physical Medicine and Rehabilitation* 2015; 96(10):e117.

Thompson S, McIntyre A, Burhan AM, Mehta S, Janzen S, Teasell R. Treatment of vascular depression and post stroke depression using repetitive transcranial magnetic stimulation: Systematic Review. *Archives of Physical Medicine and Rehabilitation* 2015; 96(10)

## MEDIA RELATIONS. . .

**Dr. Bob Teasell** participated in the following interviews:

- Radio 1290 London I November 5, 2015 on *Long-Term Management of Stroke*.
- Radio AM 980, The Savy Senior Program November 24, 2015 on *Stroke Recovery and Rehabilitation*.
- Rogers Television London, Daytime London November 26, 2015 on *Stroke Rehabilitation and Recovery*.

---

## CALENDAR OF EVENTS. . .

### London Health Research Day 2016

**March 29, 2016**

- ❖ London Convention Centre and the Hilton, London, ON

Details: <http://www.londonhealthresearchday.ca/>

### The 27th Annual Conference and Meeting of the Canadian Bioethics Society, "Achieving Better Health: The Role of Bioethics Education, Engagement and Exploration"

**May 25-28, 2016**

- ❖ Toronto, Ontario

Details: <https://www.bioethics.ca/ethics/conference.html>

### Alzheimer's Association International Conference

**July 24-28, 2016**

- ❖ Toronto, Ontario

Details: <https://www.alz.org/aaic/about/practical-information.asp>

In keeping with the Season and as a way of giving back to our community we are offering you the opportunity to be a Salvation Army Christmas "Angel" ~

- Visit our Christmas "Angel" Tree displayed in the Study Lounge at the Parkwood Institute, Main Building on 3B South.
- All gifts must be under the tree by no later than **Tuesday, December 15<sup>th</sup>**
- For more details, contact – Maria van Burgsteden @ extension 42856.

*Thank you for making a difference!*

