

# PROGRAM

## Tenth Annual G.F. Strong Rehab Research Day GF Strong Rehabilitation Centre May 8, 2019

### Registration

0915 | G.F. Strong Lecture Theatre

### Podium Presentations: Session 1

#### G.F. Strong Lecture Theatre

- 0945** | Opening Remarks
- 0952** | Matthew Dorton. *Establishing a cardiovascular disease risk profile for individuals with spinal cord injury.* PhD Candidate. Cardiovascular Physiology Lab, Simon Fraser University.
- 1005** | Chieh-Ling Yang. *A study evaluating the implementation of the Graded Repetitive Arm Supplementary Program (GRASP) for individuals with stroke in a local community centre.* Postdoctoral Fellow. Rehabilitation Research Program, G.F. Strong Rehab Centre.
- 1018** | Thalia Otamendi. *Advice to rest for more than two days after mild traumatic brain injury is associated with delayed return to productivity: a case-control study.* MSc Student. Sport and Exercise Psychology Lab, School of Kinesiology. UBC.
- 1031** | Tara Klassen. *Double and quadruple the dose during stroke inpatient rehabilitation improves walking recovery: results from the Determining Optimal post-Stroke Exercise (DOSE) randomized controlled trial.* Research Associate. Rehabilitation Research Program, G.F. Strong Rehab Centre.
- 1044** | Bulmaro Valdés. *Using a robotic device to enhance upper-limb 3D proprioception.* Postdoctoral Fellow. Menrva Lab, Simon Fraser University.
- 1057** | Anna Beradi. *Assistive Technology prevalence and demographics in Canada.* Occupational Therapist. Rehabilitation Research Program, G.F. Strong Rehab Centre.
- 1110** | Elham Esfandiari. *Education after lower limb amputation: a qualitative study on clinicians' perspectives.* PhD Candidate. Rehabilitation Research Program, G.F. Strong Rehab Centre.



- 1123** Suzanne Humphreys. *The Rick Hansen Spinal Cord Injury Registry (RHSCIR) – a look at traumatic SCI in Canada*. Manager, Data Services Group and RHSCIR Data Steward, Rick Hansen Institute.
- 1135** Special Presentation- Dr. Amanda Chisholm. *REACH BC – an online platform connecting you to health research in BC*. Project Manager, Vancouver Coastal Health Research Institute.

## Lunch & Lunchtime session

- 1145** Lunch served in **Boardroom 109**
- 1215** **G.F. Strong Lecture Theatre**  
**“Medical Marijuana in Rehabilitation: What do clinicians need to know?”**  
 Dr. Zeid Mohamedali MD, PhD, FRCS(C)

## Poster Session

- 1315** **G.F. Strong Gym**  
 “let them eat cake”
- 1445** **BREAK**

## Podium Presentations: Session 2

### G.F. Strong Lecture Theatre

- 1500** Kendra Todd. *An examination of the acute relationships between exercise and neuropathic pain among adults with spinal cord injury*. PhD Candidate. School of Health & Exercise Sciences, UBC.
- 1513** Richard Ho. *Prevalence and functional impact of suprascapular nerve injury pre and post-operatively in the setting of chronic, massive rotator cuff tears: A pilot study*. Resident in Physical Medicine & Rehabilitation, UBC.
- 1526** Sue Peters. *The brain activation associated with 'active' and 'passive' gait: Considerations for exoskeleton use in gait retraining*. Postdoctoral Fellow, Rehabilitation Research Program, G.F. Strong Rehab Centre.



- 1539** Jordan Farag. *Casting as an adjunct to botulinum toxin for limb spasticity: A systematic review*. Resident in Physical Medicine & Rehabilitation, UBC.
- 1552** Alvin Ip. *Canadian physician use of adjunct therapies following botulinum toxin injection for spasticity management: A cross-sectional survey*. Resident in Physical Medicine & Rehabilitation, UBC.
- 1605** Special Presentation- Dr. Aziz Ghahary. *Complicated wounds in patients with spinal cord injuries*. Professor, UBC Department of Surgery; Director of BC Professional Firefighters' Burn and Wound Healing Research Group.
- 1630** **Plenary Session**  
**Dr. Eva Widerstrom-Noga**  
 Professor, Neurological Surgery University of Miami, Miller School of Medicine Miami  
 Project to Cure Paralysis  
**“Pain after spinal cord injury – a multidimensional problem”**
- 1715** Closing remarks and award presentations



## Poster Session: Presenters

|                           |   |  |
|---------------------------|---|--|
| <b>Sharon Jang</b>        | <i>Comparing skill performance between indoor and outdoor environments among experienced scooter users</i>  | Master's Student, ICORD.   |
| <b>Martin Keung</b>       | <i>Urodynamics and histological evaluation of the bladder in a porcine model of spinal cord injury</i>  | MSc student Neuroscience at ICORD.                                   |
| <b>Amanda Cheung</b>      | <i>Measuring the effects of mean arterial pressure changes on spinal cord hemodynamics in a porcine model of acute spinal cord injury using a novel optical technique</i> | MSc Student, ICORD.  |
| <b>Arshdeep Marwaha</b>   | <i>Lower body negative pressure: A pre-clinical model of orthostatic hypotension following spinal cord injury</i>   | Research Assistant, ICORD.   |
| <b>Eric Chow</b>          | <i>Near-infrared spectroscopy as a novel spasticity outcome measure: A systematic review</i>  | Research Assistant, G.F. Strong Spasticity clinic.                   |
| <b>Kiran Pawar</b>        | <i>Biomaterial scaffold-based strategies for spinal cord repair</i>   | Post Doctoral Fellow, Dr. Krassioukov Lab. ICORD.                    |
| <b>Nathan Hitchman</b>    | <i>Radial palsy in an individual with high level chronic spinal cord injury</i>   | second year UBC medical student, ICORD.                              |
| <b>Xin Zhang</b>          | <i>Using EEG as an objective motor function evaluation</i>  | PhD student, Menrva Lab, Simon Fraser University.                    |
| <b>Glenys MacIsaac</b>    | <i>Improving ISNCSCI classification using a computerized algorithm: reach, use and usefulness of a new technology</i>   | Product manager IT, Rick Hansen Institute.                           |
| <b>Nader Fallah</b>       | <i>A longitudinal analysis of neurological recovery based on timing of early post-injury neurologic assessment in acute spinal cord injury</i>                            | Senior Biostatistician, Rick Hansen Institute.                       |
| <b>Abdullah Alrashidi</b> | <i>Association between peak oxygen uptake and left ventricular systolic function in individuals with cervical and upper-thoracic spinal cord injury</i>                   | PhD candidate, Experimental Medicine, UBC.                           |
| <b>Andrea Ramirez</b>     | <i>Long-term neurogenic lower urinary tract dysfunction: A case of cardiovascular nightmares</i>  | Clinical Research Facilitator, Autonomic Research Laboratory, ICORD. |



|                          |   |   |
|--------------------------|---|---|
| <b>Jessica McDougall</b> | <i>Near infrared spectroscopy for non-invasive monitoring of muscle hemodynamic and metabolic changes following botulinum toxin injection for spasticity management</i> | PhD student<br>GF Strong spasticity clinic & ICORD.           |
| <b>Nancy Thorogood</b>   | <i>Pediatric spinal cord injury in Canada</i>   | Research Associate,<br>Rick Hansen Institute.                 |
| <b>Shane Balthazaar</b>  | <i>Left ventricular function in individuals with acute and chronic spinal cord injury</i>   | MSc Candidate<br>ICORD.                                       |
| <b>Jasmin Ma</b>         | <i>So, your physical activity intervention was successful, now what? Considerations for implementation in the physiotherapist setting</i>                               | Post-Doctoral Fellow,<br>Department of Physical Therapy, UBC. |
| <b>Amanda Lee</b>        | <i>Cannabis use in women with spinal cord injury: physician and patient perspectives</i>  | Research Coordinator,<br>Dr. Krassioukov lab.                 |
| <b>Katherine Green</b>   | <i>Exploring somatization in adolescents with persistent post-concussive symptoms</i>   | MSc student, Experimental<br>Medicine, UBC.                   |
| <b>Rahul Sachdeva</b>    | <i>The evolution of a evolution: a noninvasive neuroprosthesis for cardiovascular recovery following spinal cord injury</i>   | Post Doctoral Fellow,<br>ICORD.                               |
| <b>Kylie Nabata</b>      | <i>The therapeutic potential of cannabis in persons with spinal cord injury: a systematic review</i>  | 2nd year Medical Student,<br>ICORD.                           |



# Acknowledgements

## Sponsors

Thank you to our sponsors for contributing to the success of the  
10<sup>th</sup> Annual GF Strong Rehabilitation Research Day

### SILVER SPONSORS:

BRAIN & INJURY LAW;  
WEBSTER &  
ASSOCIATES



RICE HARBUT ELLIOT  
LLP



ALLERGAN



### ADDITIONAL SPONSORS:

MURPHY BATTISTA LLP  
DAVID H. DOIG & ASSOCIATES

## Partners

Thank you to our partners who provide the staff and resources each year, contributing the success of  
the GF Strong Rehabilitation Research Day.



THE UNIVERSITY OF BRITISH COLUMBIA  
Division of Physical Medicine & Rehabilitation  
Faculty of Medicine



THE UNIVERSITY OF BRITISH COLUMBIA  
Division of Physical Medicine & Rehabilitation  
Faculty of Medicine

