

Sunday, November 24, 2024 – Calgary Marriott Downtown Hotel
 110 9 Ave SE, Calgary, AB

18:00-20:30
 Acadia AB

DINNER & NETWORKING EVENT
Trainee Pitch Presentations & SPiNGo & Speed Networking

Monday, November 25, 2024 – FOOTHILLS MEDICAL CENTRE
 3330 Hospital Dr NW, Calgary, AB

08:00-08:30
 HSC Hippocrates
 Mall

BREAKFAST

08:30-08:45
 Theatre One

WELCOME, INTRODUCTIONS & OPENING PRESENTATION
 Farrell Leibovitch & Executive Committee

08:45-11:30

Robotics & Stroke

Dr. Sean Dukelow

Overview: The Dukelow Lab focuses on advancing the understanding of neurological injuries such as stroke, traumatic brain injury (TBI), and spinal cord injury. The team develops innovative interventions using robotics, augmented reality, non-invasive brain stimulation, and neuroimaging to improve patient outcomes. These tools are used to assess changes in neurological function and promote recovery. Join a tour of the lab's research spaces to see how they are transforming care for individuals with neurological conditions.

11:30-12:30
 Coombs Theatre

TRAINEE PRESENTATIONS

Associations between multimorbidity and functional outcome, long-term care admission, and quality of life up to 10-years after stroke: an analysis of the population-based Oxford Vascular Study (*Matthew Downer*)
 YOGA-Fit: Impact of Yoga on the Brain: Feasibility and Impact of Virtual Training (*Dru Pierson*)
 Optimizing stroke rehabilitation care and services: A knowledge user-oriented approach (*Perrine Ferré*)
 Experiences of falls and risk factors for falls post-stroke (*Catherine George*)
 Exogenous Progesterone after Animal Models of Focal Ischemic Stroke (*Tiffany Kung*)
 The Role of Lipopolysaccharide in Bacteria-Induced Immune Response after Intracerebral Hemorrhage (*Angely Claire Suerte*)

12:30-13:30
 Coombs Atrium

LUNCH

13:30-14:30
 Coombs Theatre

Stroke & Cognition

Dr. Aravind Ganesh

Overview: Cognitive decline is increasingly recognized as an important complication of stroke. However, the collection and analysis of cognitive outcomes in stroke research is



	itself complicated by a few different factors. This session will encourage learners to think critically about how to approach the study of cognition in their stroke research projects and about potential strategies to improve the caliber of work in this field in the coming years.
14:30-15:30 Coombs Theatre	Global Stroke Trials Dr. Bijoy Menon <i>Overview:</i> Take part in a Q&A session with Dr. Menon about the ACT-GLOBAL Adaptive Platform Trial for Stroke, a multifactorial, multi-arm, multi-stage, randomized, global trial led by the Calgary Stroke Program and The George Institute for Global Health (Australia). Following the session, observe a committee meeting with members of the ACT-GLOBAL Platform to gain insights into decision making processes as trial data accumulates and learn how this global trial is managed.
15:30-16:00	NETWORKING BREAK & TRAVEL
16:00-17:00 Clara Christie Theatre	Imaging Function, Physiology and Inflammation After Stroke Dr. Jeff Dunn <i>Overview:</i> Explore advanced MRI methods for detecting stroke and gain insights into innovative techniques for imaging the brain over time during recovery. This session will include a discussion of what key changes may be occurring and how these changes – such as inflammation – can be effectively detected. Additionally, the use of near-infrared spectroscopy (NIRS) will be introduced, an emerging tool with the potential to monitor brain plasticity and physiology post-stroke.
17:00-18:00 Clara Christie Theatre	Stroke Mechanisms Dr. Roger Thompson <i>Overview:</i> Dive into research on stroke mechanisms including a novel pre-clinical model that induces stroke in awake, freely moving mice. This innovative approach uncovers the significant role of spreading depolarizations (SD) emanating from the infarct core of ischemic brain tissue on animal behaviour. Learn about the critical role of the peri-infarct tissue on stroke recovery including how sex differences in the frequency and intensity of SD may underpin the unique clinical presentations of stroke in males and females.
18:00-20:00 Feasby Student Lounge	DINNER & NETWORKING EVENT <i>Board games, trivia, social event</i>

Tuesday November 26, 2024 – ALBERTA CHILDREN’S HOSPITAL
 28 Oki Dr, Calgary, AB

<p>08:00-08:30 Conference Rooms 2 and 3</p>	<p>BREAKFAST Meet at the Main Entrance to the Alberta Children’s Hospital</p>
<p>08:30-11:30</p>	<p>Applied Neurotechnologies for Neurorehabilitation Dr. Adam Kirton <i>Overview:</i> Join us for an interactive workshop showcasing the latest advancements in neurotechnology in stroke recovery. Get your brain zapped with non-invasive brain stimulation with Transcranial Magnetic Stimulation (TMS), explore the evidence for Transcranial Direct Current Stimulation (tDCS) for stroke rehabilitation, delve into the fascinating world of Brain Computer Interfaces (BCI) for mind-controlled devices, and learn about advances in imaging of neuroplasticity in stroke.</p>
<p>11:30-12:30 Conference Rooms 2 and 3</p>	<p>NETWORKING EVENT <i>Designing Your Own Clinical Trial</i></p>
<p>12:30-13:30 Conference Rooms 2 and 3</p>	<p>LUNCH</p>
<p>13:30-14:30 Conference Rooms 2 and 3</p>	<p>Voices of Experience: Real World Impact of Stroke Research Mr. Brad Schneider Mr. Don Snider Ms. Donna Sharman <i>Overview:</i> Engage in a discussion with people affected by stroke about their personal experience with stroke and clinical trials, accessibility of research and any barriers or facilitators to participation, and the impact research had on their recovery journey.</p>
<p>14:30-15:00</p>	<p>BREAK</p>
<p>15:00-16:00 Conference Rooms 2 and 3</p>	<p>CanStim – Targeted Neuromodulation as a Non-Invasive Adjuvant to Advance Stroke Rehabilitation Dr. Dorothy Barthélemy Franziska Hildesheim, PhD(c) <i>Overview:</i> Discover the principles of neuroplasticity and the mechanisms of action behind neuromodulation techniques, namely repetitive transcranial magnetic stimulation (rTMS), with insights from CanStim members. This session will present the latest evidence supporting the use of neuromodulation as an adjunct to conventional therapies, enhancing motor and cognitive recovery after stroke. Gain insights into the ongoing ContraStroke Trial, a randomized feasibility trial using rTMS and GRASP therapy to improve upper extremity function in subacute stroke survivors. We will also explore key factors that influence the successful implementation of rTMS interventions in a multi-center clinical trial setting, and any challenges that may arise.</p>



**Canadian
Stroke
Trainee
Association in
Research**

Stroke Program in Neurorecovery (SPiN) Workshop 2024
Innovations in Translational Stroke Research
November 25-26, 2024

16:00-17:00
Conference
Rooms 2 and 3

Acute Clinical Trials in Stroke

Dr. Michael Hill

Overview: Hear from Dr. Hill, Calgary neurologist and director of the Provincial Integration and Innovation Network for Stroke, as he discusses exciting developments in acute stroke clinical trials and shares insights into the future of stroke care advancements.

17:00-20:00

DINNER & NETWORKING EVENT

The Banquet – University District (3957 University Ave NW)