



IPSO 2024 Congress Program Preview

Inspiring Innovation, Transforming Care and Improving Outcomes in Pediatric Stroke

March 22nd-24th, 2024

Toronto, Canada

Hospital for Sick Children

Peter Gilgan Centre for Research and Learning

686 Bay St. Toronto, ON M5G 0A4, Canada

IPSO 2024 Congress Session Dates/Times:

Friday, March 22nd, 2024: 8:45AM-5:35PM EDT

Saturday, March 23rd, 2024: 8:00AM-5:15PM EDT

Sunday, March 24th, 2024: 8:00AM-12:30PM EDT

Pre-Congress Events Date/Times:

Thursday, March 21st, 2024: 5:00PM-6:30PM EDT

Friday, March 22nd, 2024: 7:30AM-8:40AM EDT

Saturday, March 23rd, 2024: 7:15AM-8:15AM EDT

Post-Congress Events Date/Times:

Friday, March 22nd, 2024: 5:35PM-7:35PM

Saturday, March 23rd, 2024: 5:30PM-9:30PM EDT

Sunday, March 24th, 2024: 12:30PM-2:45PM EDT

Congress Session Locations:

Check-In: Lobby on 2nd Floor

All Sessions (Friday, Saturday, Sunday): Auditorium

Poster Sessions (Friday & Saturday): Event Rooms 1 & 2

Lunch: Gallery

Post-Congress Sessions: Refer to the program for each event's specific location.

The IPSO 2024 Congress will offer:

- Both multidisciplinary and international speakers
- Diverse content of interest to multiple disciplines
- Content will range from clinical review sessions to clinical debates
- Oral Abstract & Poster Sessions
- Networking with Colleagues & Industry Sponsors
- IPSO committees, councils, and working groups meetings

PNCRG Meeting: The Pediatric Neurocritical Care Research Group (PNCRG) is hosting their spring meeting on **Thursday, March 21st, 2024**, the day before the IPSO 2024 Congress starts. The PNCRG meeting will also be held at the Hospital for Sick Children. Checkout their website for more information on how to attend their meeting: <https://www.pncrg.org/>.

Join us in the Gallery of the Congress Venue for an IPSO & PNCRG Networking Event Thursday, March 21st, at 5:00PM. Light bites and refreshments will be provided.

*Note: This program is subject to change.
Times in EST*

Pre-Congress: Thursday, March 21st, 2024

- 5:00PM-6:30PM: IPSO & PNCRG Networking Event
 - Location: Gallery

Pre-Congress: Friday, March 22nd, 2024

- 7:30AM-8:40AM: Check-In & Poster Set Up (Friday Session Only)

Day 1: Friday, March 22nd, 2024, 8:45AM-5:35PM

- 8:45AM: Opening of the IPSO 2024 Congress (General Assembly): Updates on Collaborative Initiatives
- 9:30AM: Keynote: Fetal Embolization of Vein of Galen Malformation: A New Paradigm
- 10:00AM: Session #1: Clinical Focus: Advances in the Care of Cerebral Vascular Malformations
 - Advances in Endovascular Therapies for Brain AVMs
 - Standard and emerging therapies for cavernous malformations
- 10:50AM: Session #2: Clinical Highlight: Cerebral Proliferative Angiopathy
 - Cerebral Proliferative Angiopathy: How Diffuse is the Definition
- 11:20AM-12:20PM: Poster Session (Abstract Categories C, E, F, G & H)
 - Location: Event Rooms 1 & 2
- 11:20AM-12:50PM: Lunch
- 12:50PM: Oral Abstracts Session
 - Stimulation for Perinatal Stroke Optimizing Recovery Trajectories (SPORT): A Randomized, Controlled Clinical Trial
 - Juvenile mice are susceptible to infarct-induced neurodegeneration that causes cognitive decline
 - Pediatric Craniocervical Arterial Dissection: Clinical Presentation, Risk Factors, Neuroimaging and Pediatric NIH Stroke Scale in a Series of Chilean Patients
 - Do Pokes Prevent Strokes? Incomplete Immunization Status Elevated in Pediatric Stroke Population
 - Spatial-omics characterization of immune triggers in Moyamoya disease
 - Utilising multi-contrast MRI-based machine learning to predict cognition in people with Sickle Cell Disease
- 2:05PM: Session #3: Clinical Focus: Idiopathic intracranial hypertension (IIH) as a Venous Disease
 - "Idiopathic intracranial hypertension" versus "symptomatic venous stenosis": what is the evidence?

- The glymphatic system – what it means, how we can image it, and how it might play a role in IHH
- Endovascular management of IHH: Pros and Cons
- **3:15PM-3:45PM: Break (Light Refreshments)**
- **3:45PM: Clinical Review #1: Fetal and Perinatal Stroke**
 - Insights into Perinatal stroke: exploring the spectrum from arterial to venous
 - Improving Function for Perinatal Stroke in 5 Scientific Steps
- **4:35PM: Harnessing Multidisciplinary Care for Hyperacute Pediatric Stroke**
- **5:35PM: Day 1 Ends**
- **5:35PM-6:35PM: Opening Reception & Additional Poster Viewing, Sponsored by UCSF Benioff Children’s Hospital**
 - **Location:** Gallery
- **6:35PM-7:35PM: Poster Removal (Friday Session Only)**

Day 2: Saturday, March 23rd, 2024, 8:00AM-5:15PM

- **7:00AM-8:00AM: Poster Set Up (Saturday Session Only)**
- **7:00AM-8:00AM: IPSO Neurointerventional Specialty Council Meeting (Council Members Only)**
 - **Location:** Event Room 3A/B
- **7:30AM-8:00AM: IPSO Communications Committee Meeting**
 - **Location:** Multimedia Room
 - *Note: Open to active Committee Members and active health professional IPSO Members who are interested in joining*
- **8:00AM: Day 2 Welcome**
- **8:00AM: Challenging Case Conference, Neurointerventional Radiology Focused**
- **9:30AM: Community Story**
- **9:45AM-10:15AM: Break (Light Refreshments)**
- **10:15AM: Global Perspective Session**
 - Global Alliance for Pediatric Stroke Epidemiology and Resources (GAPSER)
 - Pediatric Stroke in Estonia
- **10:50AM: Session #4: Clinical Focus: Endovascular Thrombectomy (EVT) in Children with Large Vessel Occlusion**
 - Challenges in Pediatric LVO
 - Emerging Adult Literature and How It Should Affect Pediatric Practice
 - The Evolution of Pediatric EVT: Results from the Save Childs Pro prospective study
- **11:50AM-12:50PM: Poster Session (Abstract Categories A, B, D, F & H)**
 - **Location:** Event Rooms 1 & 2
- **11:50AM-1:20PM: Lunch**
- **1:20PM: Session #5: Scientific Session: Anatomy and Biology of Cerebrovascular Disease in Childhood**
 - Insights from single cell genomics on the development of cerebral vasculature
 - Genetic Discovery for Cerebral Vascular Malformations: The Story of the KRAS Mutation
 - Biology of Pediatric Aneurysms and Drivers of Growth
 - Endoluminal Biopsy for Vein of Galen Malformation

- **2:40M: Clinical Review #2: Stroke in Congenital Heart Disease: Risks and Neurodevelopmental Outcomes**
 - Monitoring for Stroke in the Congenital Heart Disease Population in the ICU
 - Neurodevelopmental Outcomes in Children with Congenital Heart Disease
- **3:20PM-3:50PM: Break (Light Refreshments)**
- **3:50PM: Clinical Review #3: Michael Scott Memorial Symposium on Clinical Management of Moyamoya**
 - Broad Strokes" on the Medical Management of Paediatric Moyamoya
 - Beyond moyamoya disease: from surgical outcome to associated conditions
 - How should imaging guide decision making in moyamoya?
- **5:15PM: Day 2 Ends**
- **5:30PM-6:30PM: AVM Research Interest Group Meeting**
 - **Location:** Multimedia Room
- **5:30PM-6:30PM: Moyamoya Research Interest Group Meeting**
 - **Location:** Event Room 3A/B
- **5:30PM-6:30PM: Additional Poster Viewing**
- **7:00PM-9:30PM: Congress Dinner Event (Ticketed Event), Sponsored by Cook Children's Health Care System**
 - **Location:** Ricarda's

Day 3: Sunday, March 24th, 2024, 8:00am-12:30pm

- **7:00AM-8:00AM: Poster Removal (Saturday Session Only)**
- **8:00AM: Day 3 Welcome**
- **8:00AM: Clinical Review #4: Tools for Managing Pediatric Cerebrovascular Disease**
 - Antithrombotic Treatment for Childhood Ischemic Stroke: Arterial and Venous - Laboratory Part
 - Antithrombotic Treatment for Childhood Ischemic Stroke: Arterial and Venous - Clinical Part
 - The Journey of Endovascular Therapy for Cerebrovascular Diseases
- **9:00AM: Session #6: Clinical Debates: Controversies in Managing Brain AVMS**
 - Syndromic brain AVMs in children – is management different?
 - Risk of AVM recurrence in the pediatric population
 - Mixed modality approach to treating high-grade brain AVMs
- **10:30AM-10:55AM: Break (Light Refreshments)**
- **10:55AM: Session #7: Clinical Focus: Looking Towards the Future: Technology Improving the Care of Cerebrovascular Diseases in Children**
 - 3D Modeling and Endovascular Simulation in Pediatric Neurovascular Disorders
 - Bootle Blast a Home-Based Gaming Rehabilitation Program for Pediatric Stroke Survivors
 - Invasive speech neuroprostheses: current state and potential to help pediatric stroke survivors
- **11:50AM: Collaborative Research Updates**

Speakers:

 - International Pediatric Stroke Study Collaboration & Beyond

- Vein of Galen Malformation: International Registry Update
- Molecular Pathogenesis of Moyamoya Disease: Insight for a Clinical Trial
- **12:20PM: Closing Remarks**
- **12:30PM: IPSO 2024 Congress Ends**

Post-Congress: Sunday, March 24th, 2024

Workshops, 12:45PM-1:45PM

- **12:45PM-1:45PM: Workshop: Endovascular Workshop for Pediatric Ischemic & Hemorrhagic Stroke, Sponsored by Penumbra, Stryker & Hospital for Sick Children**
 - **Location:** Gallery
- **12:45-1:45PM: Workshop: A Novel “Brain Stress Test” for the Practical Assessment of Cerebrovascular Reactivity in Children, Sponsored by Thornhill Medical**
 - **Location:** Multimedia Room
- **12:45-1:45PM: Pediatric Stroke Families Mental Health Panel Event**
 - **Location:** Event Room 1

Meetings, 12:45PM-2:45PM

- **12:45PM-1:30PM: IPSO Education Committee Meeting**
 - **Location:** Event Room 3a
 - *Note: Open to active Committee Members and active health professional IPSO Members who are interested in joining*
- **12:45PM-1:30PM: IPSO Hemorrhagic Pediatric Stroke Working Group (Working Group Members Only)**
 - **Location:** Event Room 3b
- **12:45PM-1:30PM: IPSO GAPSER Working Group Meeting**
 - **Location:** Auditorium
 - *Note: Open to active Working Group Members and active health professional IPSO Members who are interested in joining*

Executive Meetings, 12:30PM-2:45PM

- **12:30PM-2:00PM: IPSO Board of Directors Meeting**
 - **Location:** Event Room 2a/b
- **1:30PM-2:00PM: IPSO Steering Committee Meeting**
 - **Location:** Event Room 2a/b
- **2:15PM-2:45PM: IPSO & Advocacy Meeting**
 - **Location:** Event Room 2a/b

Disclaimer: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of UCSF and the International Pediatric Stroke Organization (IPSO) and Hospital for Sick Children, and Vanderbilt University Medical Center. UCSF is accredited by the ACCME to provide continuing medical education for physicians.

UCSF designates this live activity for a maximum of 17.5 *AMA PRA Category 1 credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The IPSO 2024 Congress is supported by the below sponsors. We would like to extend our gratitude to each sponsor for their generous support.

Gold Level:

Bayer

Description:

Bayer is a global enterprise with core competencies in the life science fields of health care and nutrition. Its products and services are designed to help people and the planet thrive by supporting efforts to master the major challenges presented by a growing and aging global population. Bayer is committed to driving sustainable development and generating a positive impact with its businesses. The Bayer brand stands for trust, reliability and quality throughout the world.

Website: [Advancing Life at Bayer | Bayer](#)

Facebook: <https://www.facebook.com/Bayer>

Twitter: <https://twitter.com/bayer>

LinkedIn: <https://www.linkedin.com/company/bayer/>

Contact:

Pablo Iveli: pablo.ivel@bayer.com



Silver Level:

Moyamoya Foundation

Description:

Founded in 2018, the Moyamoya Foundation (aka MoyaMoya Foundation Co) is a disease focused 501(c)(3) non-profit foundation. Moyamoya vasculopathy is a rare, progressive group of diseases in which the main arteries supplying the brain with blood (the internal carotid arteries and intracranial branches) narrow overtime and collateral vessels called "moyamoya vessels" develop as an attempt to compensate for the lack of blood flow. Moyamoya patients are at increased risk for stroke, among other neurological complications. Currently, the typical intervention for moyamoya patients is revascularization surgery.



MOYAMOYA FOUNDATION



We are a fully volunteer organization consisting of many moyamoya patients, caregivers, and others with personal connections to moyamoya disease. We are managed by a six-member Board of Directors and our primary funding comes from donations through social media and our website.

Our mission is to promote awareness of moyamoya and advance moyamoya research through collaboration with healthcare professionals and academics about research priorities for moyamoya patients. We also provide assistance to families and patients undergoing moyamoya treatment.

We recently launched the "Global Moyamoya Patient Registry", a collective effort to gather comprehensive data about this rare disease. Patients can securely share important data such as, demographics, symptoms, treatments, family history, and unique experiences of living with a rare disease, such as delays in diagnosis, misdiagnosis, and travel considerations for specialty care. This collection of data will be used by researchers to improve outcomes for patients.

Website: <https://moyamoya-foundation.org/>

Facebook – <https://www.facebook.com/moyamoyafoundation>

LinkedIn – <https://www.linkedin.com/company/mmfc/?viewAsMember=true>

X (Twitter) - [@moyamoyafdn](https://twitter.com/moyamoyafdn)

Contact:

Dean Houle: dhoule@moyamoya-foundation.org

Catherine Stratton: cstratton@moyamoya-foundation.org

Silver Level

Thornhill Medical

Description:

Marking 20 years in 2024 as a global innovator in respiratory and oxygen-related scientific research and advanced technologies. The team collaborates each day with customers, innovation leaders, industry, hospital, and military partners in more than 19 countries and in 65+ research institutes, while pushing the boundaries of what's technologically possible in interoperability, remote or autonomous delivery and the use of AI, and developing solutions that can transform vascular diagnostics through arterial blood gas control. Drawing on two decades of pioneering scientific and engineering innovations that address the needs of health systems and providers, Thornhill Medical is unlocking tomorrow's medical technology solutions, today.



Thornhill Medical manufactures RespirAct® Clinical which is a computer-controlled gas blender used to control arterial CO₂ and O₂ in spontaneously breathing participants. Changing the partial pressure of CO₂ and O₂ in the blood is done to stimulate blood flow responses in organs which can then be monitored using imaging technology (i.e. TCD or MRI). Monitoring blood flow response to blood gas changes in these organs reveals aspects related to their vascular beds. There are many potential applications for this technology including understanding the mechanisms of injury in stroke patients.

Website: <https://thornhillmedical.com/>

LinkedIn: <https://www.linkedin.com/company/thornhillmedical/>

Facebook: <https://www.facebook.com/ThornhillMedical/>

Youtube: https://www.youtube.com/channel/UCDMm5j6_nNQ02h21danBBg

Contact:

Vepeson Wijeya: vwijeya@thornhillmedical.com

Bronze Level

Penumbra, Inc.

Description:

Penumbra, Inc., headquartered in Alameda, California, is a global healthcare company focused on innovative therapies. Penumbra designs, develops, manufactures and markets novel products and has a broad portfolio that addresses challenging medical conditions in markets with significant unmet need. Penumbra supports healthcare providers, hospitals and clinics in more than 100 countries.



Website: <https://www.penumbrainc.com/>

Twitter: <https://twitter.com/penumbrainc>

LinkedIn: <https://www.linkedin.com/company/penumbra-inc/>

Contact:

Buppha Thach: bthach@penumbrainc.com

Bronze Level

Scientia Vascular

Description:

At Scientia Vascular, we believe that without access, therapy can not exist. Through cutting-edge innovation, we're answering our calling to radically disrupt the way diseases of the brain are treated. Our teams have been at the forefront of neurovascular systems, pushing beyond established boundaries to deliver the products physicians and patients need most.



Website: <https://www.scientiavascul.com/>

LinkedIn: <https://www.linkedin.com/company/scientiavascul>

Twitter: <https://twitter.com/ScientiaInc>

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Bronze Level



Balt

Description:

For 45 years, Balt has been leading the way – collaborating with physicians and institutions to develop elegant neurovascular solutions. As the premier global platform focused on neurointerventional innovation, we always push the boundaries of what’s possible in patient care.

Website: www.baltgroup.com

Twitter: https://twitter.com/Balt_Group

Linkedin: <https://www.linkedin.com/company/balt-group/>

Contact:

Jade Cravens: jade.cravens@baltgroup.com



Bronze Level

Cerenovus

Decription:

CERENOVUS, part of the Johnson & Johnson Medical Devices Companies, is a global leader in neurovascular care. Our commitment to changing the trajectory of stroke is inspired by our long heritage and dedication to helping physicians protect people from a lifetime of hardship. CERENOVUS offers a broad portfolio of devices used in the endovascular treatment of hemorrhagic and ischemic stroke.

Website: <https://www.jnjmedtech.com/en-US/companies/cerenovus>

Twitter: https://twitter.com/CERENOVUS_HQ?s=20

Linkedin: <https://www.linkedin.com/company/cerenovus/>

Contact:

Carly Freidin: cfreidin@its.jnj.com



CERENOVUS

Institutional Partner

Children’s Medical Center Dallas

Description:

Children’s Medical Center Dallas, the flagship hospital of Children's Health, is the home of the Center for

Cerebrovascular Disorders in Children,

which provides a multidisciplinary approach to children with complex, often life-threatening disorders that impact or cause injury to the blood vessels that supply the brain. As the only Center of its kind in



Texas and one of a handful across the nation, we offer an unmatched level of experience. Our expert team specializes in neurointerventional radiology, neurosurgery, neurology, neurologic critical care and neuro-anesthesia. From strokes and arteriovenous malformations to vein of Galen malformations, Moyamoya disease and cerebral venous thrombosis, we work one-on-one with patients to assess, evaluate, manage and treat conditions.

Website: <https://www.childrens.com/>

Facebook: <https://www.facebook.com/childrens/>

LinkedIn: <https://www.linkedin.com/company/childrenshealth/>

Instagram: @childrens

X (Twitter):

https://twitter.com/childrens?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor

Contact:

Cat Page: catherine.page@childrens.com

Institutional Partner

Sickkids: Neurosciences and Mental Health (NMH)

Description:

We are uncovering innovative solutions for mitigating and curing brain diseases in children. The Neurosciences & Mental Health research program focus on the development and plasticity of complex neural systems in animal models and humans through a variety of approaches including molecular genetics, electrophysiology, behavior, cognition and neuroimaging. As a leader in paediatric neurosciences and mental health, and a hub of discovery for applied mental health research at SickKids, we've made a number of important research discoveries and published high-impact papers, translating our work into better health outcomes for children and youth.

Website: <https://www.sickkids.ca/en/research/research-programs/neurosciences-mental-health/>

Contact:

Donald Mabbott: donald.mabbott@sickkids.ca

Julie Ruston: julie.ruston@sickkids.ca

 SickKids®

Neurosciences &
Mental Health

Institutional Partner

Sickkids: Research Institute

Description

The SickKids Research Institute (RI) is Canada's largest, hospital-based child health research institute conducting and translating groundbreaking research, training the next generation of researchers, and supporting global scientific communities with knowledge and state-of-the-art facilities. We're taking more discoveries from

 SickKids®

RESEARCH
INSTITUTE

the lab bench to the bedside, making a bigger impact on children's lives around the world, sooner.

Website: <https://www.sickkids.ca/en/research/about-research-institute/>

Contact:

Stephen Scherer: Stephen.Scherer@sickkids.ca

Allison Gignac: allison.gignac@sickkids.ca

Sickkids: Garry Hurvitz Centre for Brain & Mental

Health

Description:

The Garry Hurvitz Centre for Brain & Mental Health (GH-CBMH) at SickKids cultivates the multidisciplinary integration of clinical care, research and education to improve the outcomes of children and youth living with brain and mental health disorders. By pioneering new understanding, therapies and approaches to care for the developing brain, and promoting and executing interdisciplinary and interprofessional activities, the centre strives to exceed its reputation as innovators in paediatric neurosciences and mental health care, both at SickKids and across global scientific communities.

Website: <https://www.sickkids.ca/en/care-services/centres/centre-for-brain-mental-health/>

Contact:

Heather Soberman: heather.soberman@sickkids.ca

 SickKids®

**Garry Hurvitz
Centre for Brain
& Mental Health**

UCSF Benioff Children's Hospital

Description:

UCSF Benioff Children's Hospitals are among the nation's leading pediatric specialty hospitals, according to U.S. News & World Report rankings. Their expertise covers

virtually all pediatric conditions, including cancer, heart disease, neurological disorders, pulmonology, diabetes and endocrinology, as well as the care of critically ill newborns. The two campuses in San Francisco and Oakland are known worldwide for basic and clinical research and are at the forefront of translating research into interventions for treating and preventing pediatric disease.

Website: <https://www.ucsfbenioffchildrens.org/>

Contact:

Valerie Pratz: valerie.pratz@ucsf.edu



Cook Children’s Medical Center

Description:

Every child deserves health care designed just for them. At Cook Children's, we're more than a health care system—we're your friends, neighbors and even family

members. And we're parents too, so we can see the world through your eyes. We see what you're going through—and how we can help you and your child get the best care and support possible.

From pediatricians to specialists we take care of kids from head to toe. That's why parents from all across Texas, the U.S. and around the world trust their children to our pediatric experts. Whether it's check-ups, injuries or serious illnesses, when you come to Cook Children's you can trust that we'll care for the one child that matters most, yours. That's what it means to deliver care that connects.

Website: https://www.cookchildrens.org/medical-center/fort-worth/?gclid=Cj0KCQjw-r-vBhC-ARIsAGgUO2DG3eJAa_9gRRD-9OibseYcR4I9T2Xz2alfR38sDwTggNlzJYBfiTwaApKnEALw_wcB

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