

IPSO 2024 Congress Program

Inspiring Innovation, Transforming Care and Improving Outcomes in Pediatric Stroke

March 22nd-24th, 2024

Toronto, Canada

IPSO 2024 Congress Session Dates/Times:

Friday, March 22nd, 2024: 9:00AM-6:35PM EDT

Saturday, March 23rd, 2024: 8:15AM-6:15PM EDT

Sunday, March 24th, 2024: 8:00AM-12:15PM EDT

Pre-Congress Events Date/Times:

Friday, March 22nd, 2024: 8:00AM-9:00AM EDT

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

Post-Congress Events Date/Times:

Saturday, March 23rd, 2024: 7:00PM-9:30PM EDT

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

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

Registration: <https://members.internationalpediaticstroke.org/event/IPSO2024Congress>

Website: <https://internationalpediaticstroke.org/2024-congress/>

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/>.

Note: This program is subject to change.

Times in EDT

Pre-Congress: Friday, March 22nd, 2024

- 8:00AM-9:00AM: Check-In & Poster Set Up (Odd Numbers)

Day 1: Friday, March 22nd, 2024 9:00am-5:30pm

- 9:00AM: 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**
Moderator: Heather Fullerton, MD, MAS | Neurology | San Francisco, United States
Speaker: Darren Orbach, MD, PhD | Neurointerventional Radiology | Boston, United States
- **10:00AM: Session #1: Clinical Focus: Advances in the Care of Cerebral Vascular Malformations**
Moderators:
Silvia Buratti, MD | Neonatology and Neurocritical Care | Genoa, Italy
Anthony Wang, MD | Neurosurgery | Los Angeles, United States
Speakers:
Genetics of intracranial vascular malformations in children and the role of endovascular biopsy
Daniel Cooke, MD | Neurointerventional Radiology | San Francisco, United States
Standard and controversial approaches to treating cavernous malformations: surgical resection to obliterative surgery to medical management
Sandro Benichi, MD | Neurosurgery | Paris, France
- **10:50AM: Session #2: Clinical Highlight: Cerebral Proliferative Angiopathy**
Moderator: Tim Bernard, MD | Neurology | Aurora, United States
Cerebral Proliferative Angiopathy
Speaker: Alfred See, MD | Neurointerventional Radiology & Neurosurgery | Boston, United States
- **11:20AM-12:50PM: Lunch and Poster Session (Odd Posters)**
- **12:50PM: Oral Abstracts Session**
Moderator: *Coming soon!*
Speakers:
Stimulation for Perinatal Stroke Optimizing Recovery Trajectories (SPORT): A Randomized, Controlled Clinical Trial
Adam Kirton, MD, MSc, FRCPC | Neurology | Alberta, Canada
Juvenile mice are susceptible to infarct-induced neurodegeneration that causes cognitive decline
Elizabeth Mayne, MD, PhD | Neurocritical Care Neurology | Palo Alto, United States
Pediatric Craniocervical Arterial Dissection: Clinical Presentation, Risk Factors, Neuroimaging and Pediatric NIH Stroke Scale in a Series of Chilean Patients
Fernanda Balut Oyarzun, MD | Neurology | Santiago, Chile
Do Pokes Prevent Strokes? Incomplete Immunization Status Significantly Elevated in Pediatric Stroke Population
Dominic Camperchioli, MD | Neurology Resident | Salt Lake City, United States
Multi-omics characterization of immune triggers in Moyamoya disease
Dimitri Hemelsoet, MD | Neurology | Ghent, Belgium
- **2:00PM-2:10PM: Break**
- **2:10PM: Session #3: Clinical Focus: Idiopathic intracranial hypertension (IIH) as a Venous Disease**
Moderators:
Matt Amans, MD | Neurointerventional Radiology | San Francisco, United States
Adam Rennie, MB, BS, BMSc, FRCR | Neurointerventional Radiology | London, United Kingdom
Speakers:
Title: "Idiopathic intracranial hypertension" versus "symptomatic venous stenosis": what is the evidence?
Mesha Martinez, MD | Neurointerventional Radiology | Indianapolis, United States
Title: The glymphatic system – what it means, how we can image it, and how it might play a role in IIH
Birgit Ertl-Wagner, MD, PhD, MHBA, FRCPC | Neuroradiology | Toronto, Canada
Title: Endovascular management of IIH: Pros and Cons

Grégoire Boulouis, MD, PhD | Neurointerventional Radiology | Tours, France

- **3:20PM-3:40PM: Break**
- **3:40PM: Clinical Review #1: Fetal and Perinatal Stroke**

Moderators:

Andra Dingman, MD | Neurology | Aurora, United States

Janette Mailo, MD, PhD | Neurocritical Care Neurology | Washington D.C, United States

Speakers:

Title: Insights into Perinatal stroke: exploring the spectrum from venous to arterial and unraveling hemorrhagic Infarction in term-born infants

Maria Luisa Tataranno, MD, PhD | Neonatal Neurology | Utrecht, Netherlands

Title: Improving function for perinatal stroke survivors: from standard to experimental approaches

Iona Novak, PhD, OT | Professor & Occupational Therapist | Sydney, Australia

- **4:30PM: Harnessing Multidisciplinary Care for Hyperacute Pediatric Stroke**

Moderators: Kristin Williams, MD, MSCI | Neurocritical Care Neurology | St. Louis, United States

Mahendra Moharir, MBBS, MD, M.Sc., FRACP | Neurology | Toronto, Canada

Speakers:

Samyami Chowdhury, BSc(hons), MBChB, MRCPCH | Neurology | Toronto, Canada

Panelists:

Megan Barry, DO | Neurology | Chicago, United States

Nicola Fearn, MD | Neurology | Melbourne, Australia

Dana Harrar, MD, PhD | Neurocritical Care Neurology | Washington D.C, United States

Elbert John Layug, MD, DPPS, FCNSP, FPNA | Neurology Stroke Fellow | Toronto, Canada

Jennifer Quon, MD | Neurosurgery | Toronto, Canada

Adam Rennie, MB, BS, BMSc, FRCR | Neurointerventional Radiology | London, United Kingdom

Marcela Torres, MD | Hematology | Fort Worth, United States

- **5:30PM: Day 1 Ends**
- **5:35PM-6:35PM: Poster Removal (Odd Numbers)**
- **5:35PM-6:35PM: AVM Research Interest Group Meeting**

Moderators: Helen Kim, MPH, PhD | Professor | San Francisco, United States

Ethan Winkler, MD, PhD | Neurosurgery | San Francisco, United States

Day 2: Saturday, March 23rd, 2023 8:30am-5:00pm

- **7:15AM-8:15AM: Poster Set Up (Even Numbers)**
- **8:15AM: Day 2 Welcome**
- **8:15AM: Challenging Case Conference**
- **9:45AM: Community Story**
- **10:00AM-10:15AM: Break**
- **10:15AM: Global Perspective Session**

Moderator: *Coming soon!*

Speakers:

Ilona Kopyta, PhD, MD | Neurology | Katowice, Poland

Manish Parakh, MD | Neurology | Jodhpur, India

- **10:45AM: Session #4: Clinical Focus: Endovascular Thrombectomy (EVT) in Children with Large Vessel Occlusion**

Moderators:

Todd Abruzzo, MD | Neurointerventional Radiology | Phoenix, United States

Amanda Baker, MD | Neurointerventional Radiology | New York City, United States

Speakers:

Title: Overview of Pediatric LVO: Picking Patients and Avoiding Pitfalls

Lucia Gerstl, MD | Neurology | Munich, Germany

Title: Emerging Adult Literature and How It Should Affect Pediatric Practice

Kartik Bhatia, MD | Neurointerventional Radiology | Sydney, Australia

Title: The Evolution of Pediatric EVT: Results from the Save Childs Pro prospective study

Peter Sporns, MD | Neurointerventional Radiology | Basel, Switzerland

- **11:45AM-1:15PM: Lunch and Poster Session (Even Posters)**
- **1:15PM: Session #5: Scientific Session: Anatomy and Biology of Cerebrovascular Disease in Childhood**

Moderators:

Johanna Fifi, MD | Neurointerventional Radiology | New York, United States

Prakash Muthusami, MBBS, MD | Neurointerventional Radiology | Toronto, Canada

Speakers:

Title: Insights from single cell genomics on the development of cerebral vasculature

Thomas Wälchli, MD, PhD | Neurosurgery | Zürich, Switzerland

Ethan Winkler, MD, PhD | Neurosurgery | San Francisco, United States

Title: Genetic Discovery for Cerebral Vascular Malformations: The Story of the KRAS Mutation

Ivan Radovanovic, MD, PhD, FMH | Neurosurgery | Toronto, Canada

Title: Biology of Pediatric Aneurysms and Drivers of Growth

Flavio Requejo, MD | Neurointerventional Radiology | Buenos Aires, Argentina

Title: Endoluminal sampling in situ enables genetic characterization of vein of Galen Malformation

Andrew Hale, MD, PhD | Neurosurgery | Birmingham, United States

- **2:45PM-3:00PM: Break**
- **3:00PM: Clinical Review #2: Stroke in Congenital Heart Disease: Risks and Neurodevelopmental Outcomes**

Moderators:

Elizabeth Mayne, MD, PhD | Neurocritical Care Neurology | Palo Alto, United States

Christine Mrakotsky, PhD | Neuropsychology | Boston, United States

Speakers:

Title: Monitoring for Stroke in the Congenital Heart Disease Population in the ICU

Michele Mills, RN, MSN, CPNP | Neurocritical Care Nurse Practitioner | Chicago, United States

Title: Neuropsychological outcomes and interventions in the Congenital Heart Disease Population (with or without stroke)

Renee Sananes, Ph.D, C. Psych | Psychology | Toronto, Canada

- **3:45PM: Clinical Review #3: Michael Scott Memorial Symposium on Clinical Management of Moyamoya**

Moderators:

Manoëlle KOSSOROTOFF, MD | Neurology | Paris, France

Ed Smith, MD, MBA | Neurosurgery | Boston, United States

Speakers:

Title: Moyamoya medical management

Alvin Ndong, MBChB, FCPaed | Neurology | Cape Town, South Africa

Title: Beyond moyamoya disease: moyamoya and associated conditions

Ji Hoon Phi, MD | Neurosurgery | Seoul, South Korea

Title: How should imaging guide decision making in moyamoya?

Nadia Khan, MD | Neurosurgery | Zürich, Switzerland

- 5:00PM: Day 2 Ends
- 5:05PM: Group Photo
- 5:15PM-6:15PM: Poster Removal (Even Numbers)
- 5:15PM-6:15PM: Moyamoya Research Interest Group Meeting

Post Congress: Saturday, March 23rd, 2023

- 7:00PM-9:30PM: Congress Dinner Event

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

- 8:00AM: Day 3 Welcome
- 8:00AM: Clinical Review #4: Tools for Managing Pediatric Cerebrovascular Disease
Moderators:
Leonardo Brandao, MD, M.Sc | Hematology | Toronto, Canada
Sudhakar Vadivelu, DO | Neurosurgery | Cincinnati, United States
Speakers:
Title: Antithrombotic treatment for childhood ischemic stroke: arterial and venous
Gordana Kovacevic, MD | Neurology | Belgrade, Serbia
Olivera Serbic, MD, PhD | Hematology | Belgrade, Serbia
Title: Endovascular devices and their improvements over time
Alhamza Al-Bayati, MD | Neurointerventional Radiology | Pittsburgh, United States
- 9:00AM: Session #6: Clinical Debates: Controversies in Managing Brain AVMS
Moderator: Rabia Qaiser, MD, FAANS | Neurosurgery | Indianapolis, United States
Speakers:
Title: AVMs in HHT: When to treat? When not to treat?
Greg James, MD, PhD, FRCS | Neurosurgery | London, United Kingdom
Title: AVMs in HHT: When not to treat?
Amal Abou-Hamden, MBBS, B.Med.Sc.(Hons) FRACS | Neurosurgery | Adelaide, Australia
Title: Risk of AVM recurrence in the pediatric population
Rashmi Saraf, MD | Neurointerventional Radiology | Mumbai, India
Title: Mixed modality approach to treating high-grade brain AVMS
Nalin Gupta, MD, PhD | Neurosurgery | San Francisco, United States
- 10:30AM-10:40AM: Break
- 10:40AM: Session #7: Clinical Focus: Looking Towards the Future: Technology Improving the Care of Cerebrovascular Diseases in Children
Moderator: Adam Kirton, MD, MSc, FRCPC | Neurology | Alberta, Canada
Speakers:
Title: 3-D Modeling of cerebral aneurysms and AVMS
Carmen Parra-Farinas, MD, PhD | Neuroradiology | Toronto, Canada
Title: Gaming for rehabilitation: Bootle Blast
Trish Domi, PhD | Post Doctoral Researcher | Toronto, Canada
Title: Invasive speech neuroprostheses: current state and potential to help pediatric stroke survivors
Alex Silva | Student MD/PhD | San Francisco, United States
- 11:35AM: Collaborative Research Updates from IPSO Members
Title: International Pediatric Stroke Study Collaboration & Beyond
Noma Dlamini, MD, M.Sc., PhD | Neurology | Toronto, Canada

Title: Vein of Galen Malformation: International Registry Update

Silvia Buratti, MD | Neonatology and Neurocritical Care | Genoa, Italy

Title: Moyamoya Research Updates: What is next?

Dianna Milewicz, MD, PhD | Medical Geneticist | Houston, United States

- **12:05PM: Closing Remarks**
- **12:15PM: IPSO 2024 Congress Ends**

Post-Congress: Sunday, March 24th, 2024

Workshops, 12:30PM-1:30PM

- **12:30PM-1:30PM: Workshop: Endovascular Workshop for Pediatric Ischemic & Hemorrhagic Stroke**
- **12:30-1:30PM: Workshop: A Novel “Brain Stress Test” for the Practical Assessment of Cerebrovascular Reactivity in Children, Sponsored by Thornhill Medical**

Meetings, 12:30PM-2:45PM

- **12:30PM-1:30PM: IPSO Education Committee Meeting**
- **12:30PM-1:30PM: IPSO Communications Committee Meeting**
- **12:30PM-1:30PM: IPSO Neurointerventional Specialty Council Meeting (Council Members Only)**
- **12:30PM-1:30PM: IPSO GAPSER Working Group Meeting**
- **12:30PM-2:00PM: IPSO Board of Directors Meeting**
- **1:30PM-2:00PM: IPSO Steering Committee Meeting**
- **2:15PM-2:45PM: IPSO & Advocacy Meeting**

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.

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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.



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:

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Catherine Stratton: cstratton@moyamoya-foundation.org

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

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.scientiavasculard.com/>

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

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

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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



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



**Neurosciences &
Mental Health**



scientific communities with knowledge and state-of-the-art facilities. We're taking more discoveries from 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/>

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