NEW FRONTIERS IN PEDIATRIC NEUROSURGERY

NOVEMBER 29-DECEMBER 2, 2023
Omni Oklahoma City Hotel | Oklahoma City, OK

SCIENTIFIC PROGRAM GUIDE
The objectives of the Section shall be to enhance and assure the advancement of the subspecialty of pediatric neurosurgery by:

- Serving as a forum for the intimate exchange of ideas and information among a group of neurological surgeons whose interests are directed towards the infant and child.
- Serving as a vehicle through which the Joint Pediatric Section can be apprised of the activities and the advances in the subspecialty of pediatric neurosurgery.
- Serving as a resource for the Joint Pediatric Section for conducting special studies and proposing solutions to problems in pediatric neurosurgery when directed to do so.
- Service as a Joint Pediatric Section to advance education, research, and patient care in the area of pediatric neurosurgery.

Upon completion of this CME activity, participants should be able to:

- Discuss new clinical updates and scientific research regarding tumor, epilepsy, congenital and traumatic pediatric neurosurgical conditions.
- Recognize innovative research conducted by pediatric neurosurgical fellows.
- Discuss the concept of precision medicine and how it applies to pediatric neurosurgery.

ACCME ACCREDITATION STATEMENT
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 the Congress of Neurological Surgeons and AANS/CNS Section on Pediatric Neurological Surgery. The Congress of Neurological Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

AMA CREDIT DESIGNATION STATEMENT
The CNS designates this live activity for a maximum of 23.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.
DISCLOSURES
The Congress of Neurological Surgeons controls the content and production of this CME activity and attempts to assure the presentation of balanced, objective information. In accordance with the Standards for Integrity and Independence in Accredited Continuing Education established by the Accreditation Council for Continuing Medical Education (ACCME), speakers are asked to disclose all relationships they have with ineligible companies over the previous 24 months which may be related to the content of their lecture. Speakers who have disclosed a relationship with an ineligible company whose products may have relevance to their presentation will be listed for viewing before the event.

A list of financial disclosures relevant to the meeting is posted on the meeting’s web page and app.

DISCLAIMER
The material presented at the Joint Section on Pediatric Neurological Surgery Meeting has been made available by the Joint Section for educational purposes only. These materials are not intended to represent the only, nor necessarily the best method or procedure appropriate for the medical situations discussed, but rather are intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations.

All drugs and medical devices used in the United States are administered in accordance with the Food and Drug Administration (FDA) regulations. These regulations vary depending on the risks associated with the drug or medical devices compared to products already on the market, and the scope of the clinical data available.

Some drugs and medical devices demonstrated or described within the print publications of the Joint Section on Pediatric Neurological Surgery Meeting have FDA clearance for use for specific purposes or for use only in restricted research settings. The FDA has stated that it is the responsibility of the physician to determine the FDA status of each drug or device they want to use in compliance with applicable laws.

Neither the content (written or oral) of any course, seminar, or other presentation in the program, nor the use of a specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program, should be construed as indicating endorsement or approval of the views presented, the products used, or the materials exhibited by the any Joint Section on Pediatric Neurological Surgery Meeting, or by its committees, commissions or affiliates.

ABSTRACT PRESENTATIONS AND DIGITAL POSTERS
Oral Abstract Presentations will take place at the podium in the General Session. Visit the kiosks located in the Exhibit Hall to view digital posters.

MEETING APP
Conveniently manage your schedule, browse program content, and keep up with what’s going on.

Log in with event code: PEDS23

ATTIRE
Professional attire is appropriate for the meeting, Opening Reception, and Exhibit Hall.

NEURO ZONE
Make the most of your breaks by visiting the Neuro Zone in the Exhibit Hall. This is an excellent opportunity for all medical attendees to network with peers and experts, engage with industry, and enhance your knowledge while exploring the latest advances in pediatric technology during the What’s New Sessions.
REGISTRATION
Five Moons Ballroom Foyer

Wednesday, November 29 .................................................. 7:00 am-6:30 pm
Thursday, November 30 ...................................................... 7:00 am-5:30 pm
Friday, December 1 ............................................................ 7:00 am-5:00 pm
Saturday, December 2 ....................................................... 7:00-11:30 am

SPEAKER READY ROOM
Myriad

Wednesday, November 29 .................................................. 7:00 am-5:30 pm
Thursday, November 30 ...................................................... 7:00 am-5:30 pm
Friday, December 1 ............................................................ 7:00 am-5:30 pm
Saturday, December 2 ....................................................... 7:00-11:30 am

All speakers and abstract presenters should visit the Speaker Ready Room at least one hour prior to their presentation.

WI-FI SERVICE

Complimentary Wi-Fi access is available in all meeting spaces.

NETWORK: PEDIATRIC MEETING

Passcode: PEDS2023

NETWORKING EVENTS

Wednesday, November 29
6:00-7:30 pm
OPENING RECEPTION

Join us on the Scissortail Terrace at the Omni Hotel for our Opening Reception. Enjoy cocktails, hors d’oeuvres, and networking with colleagues. Experience the sounds of Midas 13, a high-energy band from OKC, playing everything from the 70s to current top 40 hits!

Supported by Medtronic, University of Oklahoma Health Sciences Center Department of Neurosurgery, and OU Health

Thursday, November 30
5:35-7:00 pm
WINE AND CHEESE RECEPTION

Reconnect with colleagues and make new connections while enjoying wine and cheese at our networking event in the Exhibit Hall.

Supported by Karl Storz Endoscopy
Peter Hotez is an internationally recognized physician-scientist in neglected tropical diseases and vaccine development. As co-director of the Texas Children’s CVD, he leads a team and product development partnership for developing new vaccines. In 2017 he was named by FORTUNE Magazine, while in 2018 he received the Sustained Leadership Award from Research!America. In 2022 Hotez and his colleague Maria Elena Bottazzi were nominated for the Nobel Peace Prize for “their work to develop and distribute a low-cost COVID-19 vaccine to people of the world without patent limitation.” Most recently as both a vaccine scientist and autism parent, he has led national efforts to defend vaccines and to serve as an ardent champion of vaccines going up against a growing national “antivax” threat.

Recently completing her 28th season at the University of Oklahoma in 2022, NFCA Hall of Fame head coach Patty Gasso has molded the OU softball program into a national power and permanently placed herself among the elite college softball coaches in the country. Oklahoma has won six national championships and is one of just three programs in NCAA history to win more than two national titles. She has reached the Women’s College World Series 15 times during her tenure, and in the process, advanced to the postseason in each one of her 28 seasons. Gasso and her staff have consistently been recognized for their efforts on and off the field. The staff was awarded three consecutive Speedline/NFCA Midwest Region Coaching Staff of the Year awards and received the national honor across multiple years.
MEETING AGENDA
WEDNESDAY, NOVEMBER 29, 2023

NOVEMBER 29

8:00 am-4:00 pm
Advanced Practice Provider’s Meeting
Please visit the registration desk if you have not registered for this meeting and would like to attend. Automobile Alley A

7:30-8:00 am
Complimentary Breakfast

8:00-8:10 am
Welcome
Andrew Jea, Laura Propester, Jami Valenzuela

8:10-8:15 am
APP Committee Report
Haley Vance

8:15-8:45 am
NeuroRadiology
Ben Cornwell

8:45-9:15 am
Spine
Chris Bonfield

9:15-9:45 am
Urology
Dominic Frimberger

9:45-10:00 am
Break

10:00-11:30 am
Roundtable Discussions

11:30 am-12:30 pm
Industry Sponsored Lunch

12:30-1:00 pm
Hydrocephalus – HCRN Update
Todd Hankinson

1:00-1:30 pm
Functional
Virendra Desai

1:30-2:00 pm
ICU and TBI Management
Andrew Gormley

2:00-3:00 pm
Roundtable Discussions

3:00-4:00 pm
Hands-on Session
Automobile Alley B

12:00 pm-4:30 pm
Spine Practical Course
Pinon

12:00 pm-5:05 pm
Fellows Boot Camp
Automobile Alley C

12:00-1:00 pm
Complimentary Lunch

1:00-1:05 pm
Introduction
Douglas L. Brockmeyer

1:05-1:15 pm
How to Create a Successful Academic Career
David Delmar Limbrick

1:15-1:30 pm
How to Create a Successful Private Career
David P. Gruber

1:30-1:45 pm
Medicolegal Issues: Staying Out of Trouble
Jeffrey R. Leonard

1:45-2:00 pm
Medicolegal Issues: Navigating the System
John Ragheb

2:00-2:15 pm
Break

2:15-2:30 pm
Coding Basics
Mark R. Proctor
2:30-2:45 pm
Important Topics in ABPNS Board Certification
Bermans Iskandar

2:45-3:00 pm
Neurogenic Bladder
Dominic Frimberger

3:00-3:15 pm
Update on Fetal Surgery
Daniel Donoho

3:15-3:30 pm
Break

3:30-3:45 pm
The Pros and Cons of Getting an MBA
Sandi Lam

3:45-4:00 pm
Bias, Ethics, Diversity, and Inclusion
Susan R. Durham

4:00-4:15 pm
International Work
James M. Johnston

4:15-4:30 pm
Pediatric Spine: Ortho/Neuro Issues
Richard C. E. Anderson

4:30-4:45 pm
How to Build a Multidisciplinary Program
Virendra Desai

4:45-5:00 pm
How to Assess the Movement Disorder Patient
Justin Ramsey

5:00-5:05 pm
Closing Remarks
Douglas Brockmeyer

1:00-3:00 pm
Pediatric Section Executive Committee Meeting
Route 66

5:00-6:00 pm
Craniocervical Spine Society
Route 66

6:00-7:30 pm
Opening Reception
Scissortail Terrace/Oklahoma Station Foyer
**MEETING AGENDA**

**THURSDAY, NOVEMBER 30, 2023**

---

**NOVEMBER 30**

**7:00-8:00 am**
**Complimentary Continental Breakfast**
Five Moons Foyer

---

**8:00-9:10 am**
**General Scientific Session 1: Basic Science**
Moderators: David Daniels, Todd Hankinson
Five Moons Ballroom

- **8:00-8:15 am**
  Welcome and Opening Remarks
  Joseph Harroz, Andrew Jea, Richard Lofgren, Matthew Smyth

- **8:16-8:50 am**
  **Oral Abstract Presentations**

  - **8:16-8:22 am**
    Endoluminal Sampling in Situ Enables Genetic Characterization of Vein of Galen Malformation
    Andrew Hale

  - **8:23-8:29 am**
    Drug-Tumor Residence Time Drives Efficacy of Convection-Enhanced Delivery in H3 K27-altered Diffuse Midline Glioma
    Julian Rechberger

  - **8:30-8:36 am**
    Development of Microglial Replacement Therapy for Neurological Disorders: Transplantation of Human Microglia Into a Mouse System
    Kevin Kumar

  - **8:37-8:43 am**
    CSF and Brain Development: Novel Insights Into Brain-CSF Interactions
    Peter Yang

---

**9:00 am-7:00 pm**
**Exhibit Hall**
Oklahoma Station

---

**9:10-9:35 am**
**Beverage Break in the Exhibit Hall**
Oklahoma Station

---

**9:35-10:30 am**
**General Scientific Session 2: Hydrocephalus**
Moderators: Andrew Kobets, Afshin Salehi
Five Moons Ballroom

- **9:35-9:41 am**
  Detection of Complement Activation Products in Cerebrospinal Fluid of Neonates with Intraventricular Hemorrhage
  Mohammed Alshareef

- **9:42-9:48 am**
  Quantitative Non-Invasive Measurement of CSF Flow in Shunted Hydrocephalus
  Peter Chiarelli

- **9:49-9:55 am**
  Effect of ETV on Risk of Subsequent Shunt Failure
  Michael Feldman

- **9:56-10:02 am**
  Re-Imagining the Durability of Hydrocephalus Treatment Using Conditional Survival
  Aaron Yengo-Kahn
10:03-10:09 am  
**Cerebrospinal Fluid-Based Extracellular Vesicle Signaling and Related T-cell Activation in Posthemorrhagic Hydrocephalus**  
Maria Garcia Bonilla

10:10-10:30 am  
**Question and Answer Session**

10:30-10:32 am  
**In Memoriam:** R. Michael Scott

10:35-11:00 am  
**Beverage Break in the Exhibit Hall**  
"What's New Sessions" in NeuroZone  
Oklahoma Station

11:00-12:00 pm  
**General Scientific Session 3: Global/International Neurosurgery**  
Moderators: Michael Dewan, Rebecca Reynolds, Heather Spader  
Five Moons Ballroom

11:00-11:06 am  
**Oral Abstract Presentations**

11:07-11:13 am  
**Modular Toolkit for Development of Effective, Ethical, and Equitable Neurophysiology Education and Collaboration**  
Martina Gonzalez-Gomez

11:14-11:20 am  
**Short-Term Outcomes of Endoscopic Third Ventriculostomy and Choroid Plexus Cauterization in Children with Hydrocephalus at Arusha Lutheran Medical Center in Northern Tanzania: A Cross-Sectional Study**  
Habib Rafka

11:21-11:27 am  
**WHA76.19 Resolution On Food Fortification: A Case Study on Successful Neurosurgery Centered Science Based Advocacy and Scientific Diplomacy**  
Jeffrey Blount

11:28-11:34 am  
**Global Trends in Surgical Decision-Making for Sylvian Arachnoid Cysts**  
Pramath Kakodkar

11:35-12:00 pm  
**Question and Answer Session**

11:00 am-12:30 pm  
**AAP SONS Executive Committee Meeting**  
Mistletoe

12:00-1:00 pm  
**Complimentary Lunch in the Exhibit Hall**  
Oklahoma Station

12:00-1:00 pm  
**Luncheon Point-Counterpoint Fast Draw**  
1: Laser Tissue Ablation as an Early Treatment for Deep Lesions  
Speakers: Zulma Tovar-Spinoza, William Whitehead  
Automobile Alley A

12:00-1:00 pm  
**Luncheon Point-Counterpoint Fast Draw**  
2: Prophylactic Surgery for Asymptomatic Lipomyelomeningocele  
Speakers: Greg Heuer, Cormac Maher  
Automobile Alley B

1:10-1:15 pm  
**Introduction of SONS Lecturer**  
Five Moons Ballroom

1:15-1:45 pm  
**Keynote Speaker/SONS Lecturer**  
Global Vaccines: The Science versus The Anti-Science  
Peter Hotez
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:45-1:55 pm</td>
<td>Question and Answer Session</td>
</tr>
<tr>
<td>2:00-3:10 pm</td>
<td>SONS Oral Abstract Presentations</td>
</tr>
</tbody>
</table>
| 2:00-2:14 pm | Feasibility and Acceptability of Double Fortified Salt with Iodine and Folic Acid: Prospective Clinical Study  
Anastasia Smith |
| 2:15-2:29 pm | Expanding the Pediatric Emergency Care Applied Research Network Head Trauma Decision Rules with Machine Learning to Identify High Risk Patients for Neurosurgical Intervention  
Ethan Schonfeld |
| 2:30-2:44 pm | Closed-loop Stimulation Rescues Attention Deficits in Children  
Nebras Warsi |
| 2:45-2:59 pm | Socioeconomic Factors Associated with Delayed Presentation in Craniosynostosis Surgery at a Tertiary Children’s Hospital  
Nicholas Sader |
| 3:00-3:10 pm | Question and Answer Session                                                    |
| 3:10-3:35 pm | Beverage Break in the Exhibit Hall  
Oklahoma Station |
| 3:35-4:30 pm | General Scientific Session 4: Fetal/Spinal Dysraphism  
Moderators: Peter Madsen, Vijay Ravindra  
Five Moons Ballroom |
| 3:35-4:09 pm | Oral Abstract Presentations                                                   |
| 3:35-3:41 pm | Trend of Fetal Surgery Training for Myelomeningocele Closure in Fellowship  
Amanda Jenson |
| 3:42-3:48 pm | Perioperative Risk Factors Predicting CSF Leaks Following Tethered Cord Release  
Joseph McAbee |
| 3:49-3:55 pm | Differences in Brain Development and Need for CSF Diversion Based on MMC Level  
Sasidhar Karuparti |
| 3:56-4:02 pm | A Cost Benefit Analysis of Ultrasound versus Clinical Follow Up for Simple Coccygeal Dimples with Review of Outcomes in a Single Hospital System  
Benjamin Succop |
| 4:03-4:09 pm | Timing Matters: Evaluating the Optimal Age for Surgical Intervention in Dermal Sinus Tract  
Kelsi Chesney |
| 4:10-4:30 pm | Question and Answer Session                                                    |
| 4:30-5:35 pm | General Scientific Session 5: Diversity in Neurosurgery  
Moderators: Ziyad Makoshi, Meena Vessell  
Five Moons Ballroom |
| 4:30-5:04 pm | Oral Abstract Presentations                                                   |
| 4:30-4:36 pm | Gender Disparities in Pediatric Neurosurgery: An Analysis of Work-Life Balance, Discrimination, and Family Responsibilities  
Logan Muzyka |
| 4:37-4:43 pm | Author Diversity in Pediatric Spine Surgery Publications from 1902-2023  
Jamshaid Mir |
8:35-8:45 am
Question and Answer Session

8:45-9:40 am
General Scientific Session 6: Epilepsy
Moderators: Viren Desai, George Ibrahim, Jeffrey Raskin

8:45-9:19 am
Oral Abstract Presentations

8:45-8:51 am
Responsive Neurostimulation in Pediatric Patients with Intractable Epilepsy
Thomas Larrew

8:52-8:58 am
Successful Seizure Neuromodulation Correlates with Spectrally-Defined Seizure Onset Zones
Nealen Laxpati

8:59-9:05 am
Postoperative Management Following Hemispherectomy in Pediatric Patients with Pre-Existing Ventriculoperitoneal Shunts: A Case Series
Nikita Das

9:06-9:12 am
Ictal Rhythms in the Centromedian Nucleus are Associated with Seizure Response to Deep Brain Stimulation
Karim Mithani

9:13-9:19 am
The Evolution of sEEG: Symbiotic Progress in Medical Imaging and Procedural Technologies
Sherwin Tavakol

9:20-9:40 am
Question and Answer Session

9:40-10:05 am
Beverage Break in the Exhibit Hall
What’s New Sessions" in NeuroZone
Oklahoma Station
10:05-11:00 am
General Scientific Session 7: Tumors
Moderators: Karl Balsara, Daniel Donoho
Five Moons Ballroom

10:05-10:39 am
Oral Abstract Presentations

10:05-10:11 am
Repurposing Vortioxetine for H3K27M- Midline Gliomas
Anand Thiraviyam

10:12-10:18 am
Stereotactic Radiosurgery for Ependymoma in Pediatric and Adult Patients: A Single-Institution Experience
Kelly Yoo

10:19-10:25 am
Optimizing Pediatric MRg-FUS Workflow: Insights From One Year of Experience
Kelsi Chesney

10:26-10:32 am
Impact of Socio-Economic and Racial Diversity on Outcome After Treatment of Pediatric Posterior Fossa Tumors, a Single Institutional Cohort Study
Mohammed Sayed

10:33-10:39 am
The Endoscopic Transnasal Approach to Pediatric Sellar Region Pathologies in Patients 6 Years and Below is Safe and Effective
Swetha Sundar

10:40-11:00 am
Question and Answer Session

11:00-11:06 am
Outcomes of the Early Endoscopic-Assisted Suturectomy for Treatment of Multisuture Craniosynostosis
Sina Zoghi

11:07-11:13 am
A Protocol Driven Approach to Improve Laboratory Utilization and Costs of Postoperative Care for Craniofacial Patients
Nicholas Szuflita

11:14-11:20 am
Advances in the Use of Virtual Surgical Planning and Venous Imaging to Optimize Surgical Decision Making and Outcomes
Rita Nguyen

11:21-11:27 am
Sports After Synostosis Surgery: A Survey of Synostosis Research Group (SynRG) Members
Christopher Bonfield

11:28-11:34 am
Cost Analysis of Endoscopic Versus Early-Open Cranial Vault Reconstruction for Patients with Sagittal Craniosynostosis
Matthew Perry

11:35 -11:56 am
Question and Answer Session

11:56-11:57 am
In Memoriam: David F. Jimenez

11:58 am-12:00 pm
In Memoriam: David Frim

12:00-1:00 pm
Complimentary Lunch in the Exhibit Hall
Oklahoma Station
12:00-1:00 pm
Luncheon Point-Counterpoint
Fast Draw 3: DBS vs RNS for Generalized Epilepsy
Speakers: Chima Oluigbo, Jeffrey Raskin
Automobile Alley A

12:00-1:00 pm
Luncheon Point-Counterpoint
Fast Draw 4: Spinal Column Shortening for Skeletally Immature Children with Recurrent Tethered Cord Syndrome
Speakers: Jeffrey Blount, Mari Groves
Automobile Alley B

1:10-2:05 pm
General Scientific Session 9: Spine
Moderators: Steve Hwang, Rajiv Iyer
Five Moons Ballroom

1:10-1:44 pm
Oral Abstract Presentations

1:10-1:16 pm
Endoscopic Fenestration of Multilevel Thoracic Cyst-Technical Note
Edwin Kulubya

1:17-1:23 pm
Range of Motion After Occipitocervical and C1-2 Posterior Spinal Instrumentation and Fusion in Children
Yosef Dastagirda

1:24-1:30 pm
Rett Syndrome Associated Scoliosis: Analysis of National Trends and Treatment Patterns of a Rare Indication for Posterior Instrumented Fusion
Vijay Ravindra

1:31-1:37 pm
Risk Factors Associated with Major In-Hospital Adverse Events: A Multicenter Observational Cohort Study of 1853 Pediatric Patients with Traumatic Spinal Cord Injury
Armaan Malhotra

1:38-1:44 pm
Pediatric Spinal Extradural Arachnoid Cysts: A Comparison of Patients with Idiopathic Versus Lymphedema Distichiasis Syndrome-Associated Cysts
Elise Yoon

1:45-2:05 pm
Question and Answer Session

2:05-3:00 pm
General Scientific Session 10: Chiari
Moderators: Syed Hassan Akbari, Michael Cools
Five Moons Ballroom

2:05-2:39 pm
Oral Abstract Presentations

2:05-2:11 pm
Sleep Disordered Breathing in Pediatric Chiari 1 Malformation Patients
Matthew Jarrell

2:12-2:18 pm
Incidence of Tethered Cord Syndrome in Chiari Malformation Type I: Challenging Accepted Notions
Katherine Holste

2:19-2:25 pm
Morphological/Ultrastructural Investigation of the Posterior Atlanto-Occipital Membrane: Comparing Children with Chiari I Malformation and Controls
Vijay Ravindra

2:26-2:32 pm
Effect on Affect: Postsurgical Change in Cerebellar Neuropsychiatric Rating Scale Scores in Adults and Children with Chiari Malformation Type I
Belinda Shao

2:33-2:39 pm
Neurosurgical Management of Rubinstein-Taybi Syndrome: An Institutional Experience
Martin Piazza
### 2:40-3:00 pm
- Question and Answer Session

### 3:00-3:25 pm
- Beverage Break in the Exhibit Hall
- Oklahoma Station

### 3:25-4:30 pm
- General Scientific Session 11: Trauma
  - Moderators: Nisha Gadgil, Laila Mohammad
  - Five Moons Ballroom

### 3:25-3:59 pm
**Oral Abstract Presentations**

- **3:25-3:31 pm**
  - GM-CSF Treatment for Traumatic Brain Injury-Induced Immune Suppression
  - Eric Sribnick

- **3:32-3:38 pm**
  - Determining Correlation of Food Intake and Satiety Related Hormones with the Findings of Brain Computerized Tomography (CT) Scans and Psychological Disorders in Children with Mild to Moderate Traumatic Brain Injury
  - Sina Zoghi

- **3:39-3:45 pm**
  - Validating the Pediatric Brain Injury Guidelines at a Level I Trauma Center to Optimize Care of TBI Patients
  - Lindsey Freeman

- **3:46-3:52 pm**
  - The Safety and Efficacy of Bedside Transfontanelle Subdural Drain Placement in Infants
  - Julia Pazniokas

- **3:53-3:59 pm**
  - Non-Operative Management of Traumatic Craniocervical Junction Injuries: A Single-Institution Retrospective Study
  - Brynn Rankin

### 4:00-4:20 pm
- Question and Answer Session

### 4:20-4:30 pm
- Award Presentations for Bobby Jones Chiari & Syringomyelia Foundation and Meghan Rose Bradley Foundation Awards

### 4:30-5:00 pm
- Pediatric Section Annual Business Meeting
- Five Moons Ballroom

### DECEMBER 2

#### 7:00-8:00 am
- Complimentary Continental Breakfast
- Five Moons Foyer

#### 8:00-8:55 am
- General Scientific Session 12: Vascular
  - Moderators: Katrina Ducis, Alfred Pokmeng See
  - Five Moons Ballroom

#### 8:00-8:34 am
**Oral Abstract Presentations**

- **8:00-8:06 am**
  - Anticoagulation for the Treatment of Septic Cerebral Venous Sinus Thrombosis in the Setting of Pediatric Sinogenic and Otogenic Intracranial Infections
  - Pearl Sutter

- **8:07-8:13 am**
  - Combined Endovascular and Skull Base Surgical Management of Pediatric Craniocervical Pathology: A Case Series
  - Jonathan Scoville

- **8:14-8:20 am**
  - Age-Related Patterns in Ischemic Stroke Presentation of Sickle Cell Disease
  - Joanna Papadakis
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:21-8:27 am</td>
<td>Embolization with an Intention to Cure in Management of Pediatric Arteriovenous Malformations: A Systematic Review</td>
<td>Nangorgo Coulibaly</td>
</tr>
<tr>
<td>8:28-8:34 am</td>
<td>Pediatric Vasospasm Associated with Nonaneurysmal Hemorrhage</td>
<td>Sarah Merrill</td>
</tr>
<tr>
<td>8:35-8:55 am</td>
<td>Question and Answer Session</td>
<td></td>
</tr>
<tr>
<td>9:00-9:25 am</td>
<td>Beverage Break</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Five Moons Foyer</td>
<td></td>
</tr>
<tr>
<td>9:25-11:15 am</td>
<td>General Scientific Session 13: Late Breaking Abstracts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Moderators: David Gonda, Ryan Jafrani</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Five Moons Ballroom</td>
<td></td>
</tr>
<tr>
<td>9:25-10:54 am</td>
<td>Oral Abstract Presentations</td>
<td></td>
</tr>
<tr>
<td>9:25-9:31 am</td>
<td>Surgical Treatment of Ruptured Middle Fossa Arachnoid Cysts</td>
<td>Torin Karsonovich</td>
</tr>
<tr>
<td>9:32-9:38 am</td>
<td>Barriers to Transitional Care Clinics for Medically Complex Pediatric Patients: A Call to Action</td>
<td>Kelsey Hundley</td>
</tr>
<tr>
<td>9:39-9:45 am</td>
<td>Pediatric Sinogenic and Otogenic Intracranial Infections: Preliminary Results of a Multicenter Study</td>
<td>Megan Anderson</td>
</tr>
<tr>
<td>9:46-9:52 am</td>
<td>The Effect of Race and Socioeconomic Status on Neurosurgical Outcomes in Pediatric Patients with CNS Tumors at a Tertiary Care Institution</td>
<td>Joel Katz</td>
</tr>
<tr>
<td>9:53-9:59 am</td>
<td>Testing for Shunt Independence in Pediatric Hydrocephalus: A Novel Technique and Algorithm to Limit Return to the Operating Room</td>
<td>Brendan Klein</td>
</tr>
<tr>
<td>10:00-10:20 am</td>
<td>Question and Answer Session</td>
<td></td>
</tr>
<tr>
<td>10:20-10:26 am</td>
<td>Surgical Yield From a Pediatric Neurosurgery Clinic: Why Do We Do It?</td>
<td>Ira Bowen</td>
</tr>
<tr>
<td>10:27-10:33 am</td>
<td>Exploring Sociodemographic Variables and Their Relationship to Readmission Rates and Post-operative Events in Elective Craniotomy for Pediatric Brain Tumors</td>
<td>Randaline Barnett</td>
</tr>
<tr>
<td>10:34-10:40 am</td>
<td>Use of iMRI in Pediatric Tumor Resection: An Institutional Experience at Hassenfeld Childrens Hospital at NYU Langone Medical Center</td>
<td>Yosef Dastagirzada</td>
</tr>
<tr>
<td>10:41-10:47 am</td>
<td>Impact of Shunts and Seizures on Hospital Visits by Children Born Preterm with Severe Intraventricular Hemorrhage</td>
<td>Rachel Pruitt</td>
</tr>
<tr>
<td>10:48-10:54 am</td>
<td>Bladder Involvement In Limited Dorsal Myeloschisis: A Systematic Review</td>
<td>Albert Tu</td>
</tr>
<tr>
<td>10:55-11:15 am</td>
<td>Question and Answer Session</td>
<td></td>
</tr>
<tr>
<td>11:15-11:25 am</td>
<td>Presentation of Schulman and Molly Hubbard Awards</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Five Moons Ballroom</td>
<td></td>
</tr>
<tr>
<td>11:25-11:30 am</td>
<td>Closing Remarks</td>
<td></td>
</tr>
<tr>
<td>Company</td>
<td>Booth</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-------</td>
<td></td>
</tr>
<tr>
<td>3dMD LLC</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td><a href="3dmd.com">3dmd.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACE Medical Company</td>
<td>321</td>
<td></td>
</tr>
<tr>
<td><a href="acemedicalco.com">acemedicalco.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ad-Tech Medical Instrument Corporation</td>
<td>213</td>
<td></td>
</tr>
<tr>
<td><a href="adtechmedical.com">adtechmedical.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aesculap Inc.</td>
<td>312</td>
<td></td>
</tr>
<tr>
<td><a href="aesculapusa.com">aesculapusa.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anuncia Medical, Inc.</td>
<td>207</td>
<td></td>
</tr>
<tr>
<td><a href="anunciamedical.com">anunciamedical.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BK Medical</td>
<td>217</td>
<td></td>
</tr>
<tr>
<td><a href="bkmedical.com">bkmedical.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brainlab</td>
<td>215</td>
<td></td>
</tr>
<tr>
<td><a href="brainlab.com">brainlab.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clarus Medical, LLC</td>
<td>206</td>
<td></td>
</tr>
<tr>
<td><a href="clarus-medical.com">clarus-medical.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ClearPoint Neuro, Inc.</td>
<td>309</td>
<td></td>
</tr>
<tr>
<td><a href="clearpointneuro.com">clearpointneuro.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Codman Specialty Surgical, a Division of Integra LifeSciences</td>
<td>316</td>
<td></td>
</tr>
<tr>
<td><a href="integralife.com">integralife.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FujiFilm Healthcare Americas Corporation</td>
<td>311</td>
<td></td>
</tr>
<tr>
<td><a href="fujifilm.com">healthcaresolutions-us.fujifilm.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocephalus Association</td>
<td>103</td>
<td></td>
</tr>
<tr>
<td><a href="hydroassoc.org">hydroassoc.org</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hyferfine Inc.</td>
<td>107</td>
<td></td>
</tr>
<tr>
<td><a href="hyperfine.io">hyperfine.io</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMRIS</td>
<td>114</td>
<td></td>
</tr>
<tr>
<td><a href="imris.com">imris.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Karl Storz Endoscopy</td>
<td>117</td>
<td></td>
</tr>
<tr>
<td><a href="karlstorz.com">karlstorz.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kirwan Surgical Products, LLC</td>
<td>102</td>
<td></td>
</tr>
<tr>
<td><a href="ksp.com">ksp.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KLS Martin</td>
<td>201</td>
<td></td>
</tr>
<tr>
<td><a href="klsmartin.com">klsmartin.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leica Microsystems</td>
<td>212</td>
<td></td>
</tr>
<tr>
<td><a href="leica-microsystems.com">leica-microsystems.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LivaNova</td>
<td>214</td>
<td></td>
</tr>
<tr>
<td><a href="livanova.com">livanova.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matrix Surgical USA</td>
<td>101</td>
<td></td>
</tr>
<tr>
<td><a href="matrixsurgicalusa.com">matrixsurgicalusa.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medtronic</td>
<td>303</td>
<td></td>
</tr>
<tr>
<td><a href="medtronic.com">medtronic.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mitaka USA</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td><a href="mitakausa.com">mitakausa.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monteris Medical Inc.</td>
<td>202</td>
<td></td>
</tr>
<tr>
<td><a href="monteris.com">monteris.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oklahoma Children's Hospital at OU Health</td>
<td>112</td>
<td></td>
</tr>
<tr>
<td><a href="ouhealth.com">ouhealth.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Oklahoma Health Sciences</td>
<td>216</td>
<td></td>
</tr>
<tr>
<td>Center-Department of Neurosurgery</td>
<td></td>
<td></td>
</tr>
<tr>
<td><a href="medicine.ouhsc.edu/academic-departments/neurosurgery">medicine.ouhsc.edu/academic-departments/neurosurgery</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMT Corporation</td>
<td>104</td>
<td></td>
</tr>
<tr>
<td><a href="pmtcorp.com">pmtcorp.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raumedic</td>
<td>115</td>
<td></td>
</tr>
<tr>
<td><a href="raumedic.com">raumedic.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhaeos</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td><a href="rhaeos.com">rhaeos.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RosmanSearch, Inc.</td>
<td>203</td>
<td></td>
</tr>
<tr>
<td><a href="rosmansearch.com">rosmansearch.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sophysa USA Inc.</td>
<td>319</td>
<td></td>
</tr>
<tr>
<td><a href="sophysa.com">sophysa.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synaptive Medical</td>
<td>306</td>
<td></td>
</tr>
<tr>
<td><a href="www.synaptivemedical.com">www.synaptivemedical.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ThinkFirst Foundation</td>
<td>113</td>
<td></td>
</tr>
<tr>
<td><a href="thinkfirst.org">thinkfirst.org</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zimmer Biomet</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td><a href="Zimmerbiomet.com">Zimmerbiomet.com</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
THANK YOU!

Platinum Industry Supporter
of the 2023 Joint Pediatric Section Annual Meeting
on Pediatric Neurological Surgery

THANK YOU!

Platinum Industry Supporter
of the 2023 Joint Pediatric Section Annual Meeting
on Pediatric Neurological Surgery
The Joint Pediatric Section gratefully acknowledges the 2023 Industry Supporters

**PLATINUM LEVEL SUPPORTER:**

![Medtronic](image1)

**EMERALD LEVEL SUPPORTER:**

![STORZ](image2)

**SAPPHIRE LEVEL SUPPORTER:**

![Other Companies](image3)

**WHAT'S NEW SESSIONS**

Meet in the NeuroZone within the Exhibit Hall to learn the latest from Industry

**THURSDAY**

10:39-10:49 am

Anuncia Medical

Keeping Shunts Working: First Clinical Experiences with the ReFlow™ Mini Flusher

*Ramin Eskandari*

**FRIDAY**

9:44-9:54 am

BK Medical

iUS Across Pediatric Procedures

*Jason Hauptman*