

2023 Joint Pediatric Section Annual Meeting

# NEW FRONTIERS IN PEDIATRIC NEUROSURGERY



Pediatric Neurological Surgery

**NOVEMBER 29-DECEMBER 2, 2023**

*Omni Oklahoma City Hotel | Oklahoma City, OK*

**SCIENTIFIC PROGRAM GUIDE**

The 2023 Joint Pediatric Section Annual Meeting is provided by the Congress of Neurological Surgeons and the Joint Section on Pediatric Neurological Surgery



Congress of  
Neurological  
Surgeons



# THE JOINT SECTION MISSION & PROGRAM PURPOSE

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.



[CNS.ORG/PEDIATRIC](https://www.cns.org/pediatric)



## AMA CREDIT DESIGNATION STATEMENT

The CNS designates this live activity for a maximum of 23.5 *AMA PRA Category 1 Credits*<sup>™</sup>. 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.

## ATTIRE

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

## MEETING APP

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



Log in with event code:

**PEDS23**

## 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.

# GENERAL INFORMATION

## 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*

## SONS LECTURER

Thursday, November 30 • 1:10-1:45 pm  
Five Moons Ballroom

### Global Vaccines: The Science versus The Anti-Science

**Peter Hotez** | *Dean*

*National School of Tropical Medicine,  
Baylor College of Medicine*



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.

## RAIMONDI LECTURE

Friday, December 1 • 8:00-8:35 am  
Five Moons Ballroom

### Championship Mindset

**Patty Gasso** | *Head Coach*

*University of Oklahoma Softball*



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

**W** 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*

# MEETING AGENDA

WEDNESDAY, NOVEMBER 29, 2023

**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

**Th 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*

**8:44-8:50 am**

**Intraventricular Hemorrhage  
Modulates ANO1 Expression During  
Development in Ependyma and  
Choroid Plexus Epithelial Cells**

*Grace Halupnik*

**8:50-9:10 am**

**Question and Answer Session**

**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*


**9:35-10:09 am**

**Oral Abstract Presentations**

 **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*



# MEETING AGENDA

THURSDAY, NOVEMBER 30, 2023

**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*

**11:00-11:34 am**  
**Oral Abstract Presentations**

**11:00-11:06 am**  
**Modular Toolkit for Development of Effective, Ethical, and Equitable Neurophysiology Education and Collaboration**  
*Martina Gonzalez-Gomez*

**11:07-11:13 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*

**11:14-11:20 am**  
**Assessing Survival Outcomes in Pediatric Craniopharyngioma at the US-Mexico Border: A Cross-Border Neuro-Oncology Initiative**  
*Alexander Tenorio*

**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*

# MEETING AGENDA


THURSDAY, NOVEMBER 30, 2023

**1:45-1:55 pm**

**Question and Answer Session**


**2:00-3:10 pm**

**SONS Oral Abstract Presentations**

 **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 Craniostomosis 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 Jensen*

**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*

# MEETING AGENDA

FRIDAY, DECEMBER 1, 2023

 **4:44-4:50 pm**  
**Racial Disparities in Hydrocephalus Mortality and Shunt Revision: A Study From the Hydrocephalus Clinical Research Network**  
*Brandon Rocque*

 **4:51-4:57 pm**  
**Geographic Distribution of Fellowship-Trained Pediatric Neurosurgeons in the United States**  
*Bianca Luna-Lupe*

 **4:58-5:04 pm**  
**Mapping the Landscape of Pediatric Neurosurgery: Geography, Gender, and Trends over Time**  
*Logan Muzyka*

**5:05-5:25 pm**  
**Question and Answer Session**

**5:25-5:35 pm**  
**Award Presentations for Hydrocephalus Association, AAP/SONS, Global Surgery, and Tim George Award for Inclusion and Diversity**

**5:35-7:00 pm**  
**Wine and Cheese Reception in the Exhibit Hall**  
*Oklahoma Station*

**F DECEMBER 1**

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

**8:00-8:05 am**  
**Introduction of Raimondi Lecturer**  
*Five Moons Ballroom*

**8:05-8:35 am**

**Keynote Speaker**

**Championship Mindset**  
*Coach Patty Gasso*


**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**

**9:15 am-3:45 pm**  
**Exhibit Hall**  
*Oklahoma Station*

**9:40-10:05 am**  
**Beverage Break in the Exhibit Hall**  
**What's New Sessions" in NeuroZone**  
*Oklahoma Station*

# MEETING AGENDA

FRIDAY, DECEMBER 1, 2023

**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 am-12:00 pm**

**General Scientific Session 8: Craniofacial**

Moderators: *Ruth Bristol, Joanna Gernsback*

*Five Moons Ballroom*

**11:00-11:34 am**

**Oral Abstract Presentations**



**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 Szufliuta*

**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*

# MEETING AGENDA

FRIDAY, DECEMBER 1, 2023

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**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*

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**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*

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**1:10-2:05 pm**

**General Scientific Session 9: Spine**

*Moderators: Steve Hwang, Rajiv Iyer  
Five Moons Ballroom*

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**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 Dastagirzada*

 **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**

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**2:05-3:00 pm**

**General Scientific Session 10: Chiari**


*Moderators: Syed Hassan Akbari,  
Michael Cools*

*Five Moons Ballroom*

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**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*

# MEETING AGENDA

FRIDAY, DECEMBER 1, 2023


**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*


**Sa** 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*

# MEETING AGENDA

SATURDAY, DECEMBER 2, 2023

 **8:21-8:27 am**  
**Embolization with an Intention to Cure in Management of Pediatric Arteriovenous Malformations: A Systematic Review**  
*Nangorgo Coulibaly*

**8:28-8:34 am**  
**Pediatric Vasospasm Associated with Nonaneurysmal Hemorrhage**  
*Sarah Merrill*

**8:35-8:55 am**  
**Question and Answer Session**

**9:00-9:25 am**  
**Beverage Break**  
*Five Moons Foyer*

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**9:25-11:15 am**  
**General Scientific Session 13:  
Late Breaking Abstracts**  
*Moderators: David Gonda, Ryan Jafrani*  
*Five Moons Ballroom*

**9:25-10:54 am**  
**Oral Abstract Presentations**

 **9:25-9:31 am**  
**Surgical Treatment of Ruptured Middle Fossa Arachnoid Cysts**  
*Torin Karsonovich*


**9:32-9:38 am**  
**Barriers to Transitional Care Clinics for Medically Complex Pediatric Patients: A Call to Action**  
*Kelsey Hundley*

**9:39-9:45 am**  
**Pediatric Sinogenic and Otogenic Intracranial Infections: Preliminary Results of a Multicenter Study**  
*Megan Anderson*

 **9:46-9:52 am**  
**The Effect of Race and Socioeconomic Status on Neurosurgical Outcomes in Pediatric Patients with CNS Tumors at a Tertiary Care Institution**  
*Joel Katz*

**9:53-9:59 am**  
**Testing for Shunt Independence in Pediatric Hydrocephalus: A Novel Technique and Algorithm to Limit Return to the Operating Room**  
*Brendan Klein*

**10:00-10:20**  
**Question and Answer Session**

 **10:20-10:26 am**  
**Surgical Yield From a Pediatric Neurosurgery Clinic: Why Do We Do It?**  
*Ira Bowen*

**10:27-10:33 am**  
**Exploring Sociodemographic Variables and Their Relationship to Readmission Rates and Post-operative Events in Elective Craniotomy for Pediatric Brain Tumors**  
*Randaline Barnett*

**10:34-10:40 am**  
**Use of iMRI in Pediatric Tumor Resection: An Institutional Experience at Hassenfeld Childrens Hospital at NYU Langone Medical Center**  
*Yosef Dastagirzada*

**10:41-10:47 am**  
**Impact of Shunts and Seizures on Hospital Visits by Children Born Preterm with Severe Intraventricular Hemorrhage**  
*Rachel Pruitt*

**10:48-10:54 am**  
**Bladder Involvement In Limited Dorsal Myeloschisis: A Systematic Review**  
*Albert Tu*

**10:55-11:15 am**  
**Question and Answer Session**

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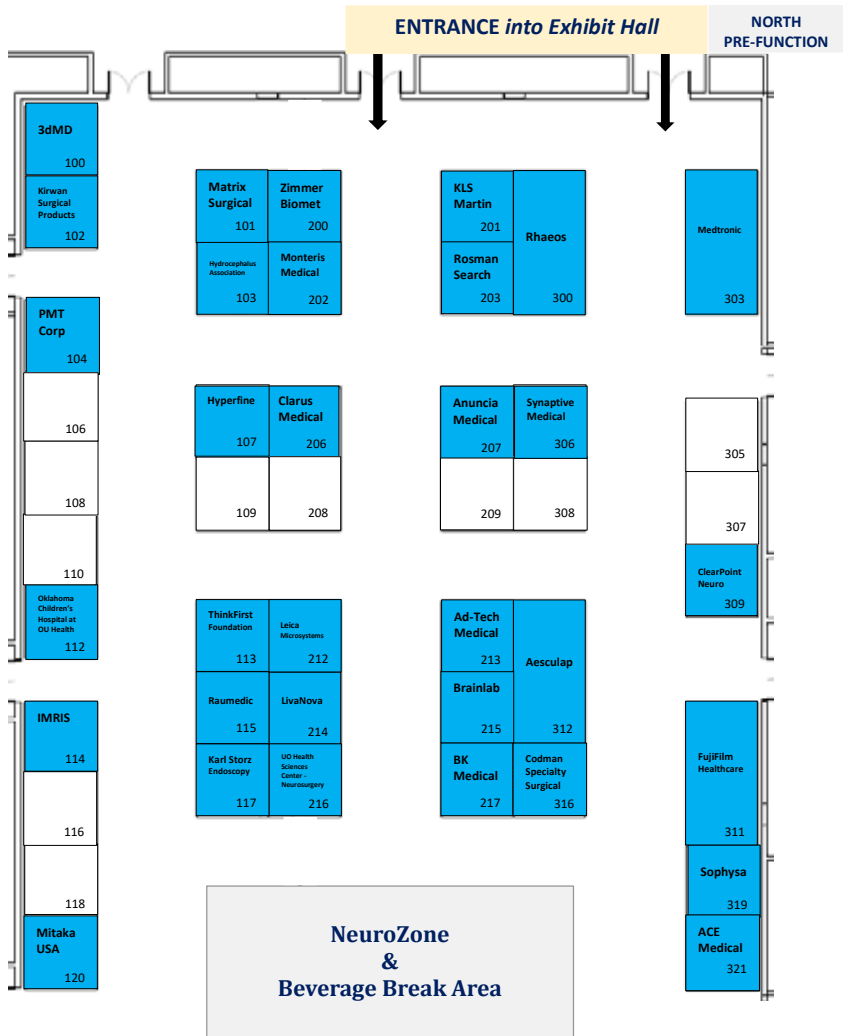
**11:15-11:25 am**  
**Presentation of Schulman and Molly Hubbard Awards**  
*Five Moons Ballroom*

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**11:25-11:30 am**  
**Closing Remarks**  
*Five Moons Ballroom*

# EXHIBIT HALL INFORMATION

## EXHIBIT HALL FLOOR PLAN





# EXHIBIT HALL INFORMATION

## Location:

Oklahoma Station  
Ballroom 1-8

## Hours:

Thursday, November 30  
9:00 am-7:00 pm

Friday, December 1  
9:15 am-3:45 pm

Company	Booth	Company	Booth
<b>3dMD LLC</b> <a href="http://3dmd.com">3dmd.com</a>	100	<b>KLS Martin</b> <a href="http://klsmartin.com">klsmartin.com</a>	201
<b>ACE Medical Company</b> <a href="http://acemedicalco.com">acemedicalco.com</a>	321	<b>Leica Microsystems</b> <a href="http://leica-microsystems.com">leica-microsystems.com</a>	212
<b>Ad-Tech Medical Instrument Corporation</b> <a href="http://adtechmedical.com">adtechmedical.com</a>	213	<b>LivaNova</b> <a href="http://livanova.com">livanova.com</a>	214
<b>Aesculap Inc.</b> <a href="http://aesculapusa.com">aesculapusa.com</a>	312	<b>Matrix Surgical USA</b> <a href="http://matrixsurgicalusa.com">matrixsurgicalusa.com</a>	101
<b>Anuncia Medical, Inc.</b> <a href="http://anunciamedical.com">anunciamedical.com</a>	207	<b>Medtronic</b> <a href="http://medtronic.com">medtronic.com</a>	303
<b>BK Medical</b> <a href="http://bkmedical.com">bkmedical.com</a>	217	<b>Mitaka USA</b> <a href="http://mitakausa.com">mitakausa.com</a>	120
<b>Brainlab</b> <a href="http://brainlab.com">brainlab.com</a>	215	<b>Monteris Medical Inc.</b> <a href="http://monteris.com">monteris.com</a>	202
<b>Clarus Medical, LLC</b> <a href="http://clarus-medical.com">clarus-medical.com</a>	206	<b>Oklahoma Children's Hospital at OU Health</b> <a href="http://ouhealth.com">ouhealth.com</a>	112
<b>ClearPoint Neuro, Inc.</b> <a href="http://clearpointneuro.com">clearpointneuro.com</a>	309	<b>University of Oklahoma Health Sciences Center-Department of Neurosurgery</b> <a href="http://medicine.ouhsc.edu/academic-departments/neurosurgery">medicine.ouhsc.edu/academic-departments/neurosurgery</a>	216
<b>Codman Specialty Surgical, a Division of Integra LifeSciences</b> <a href="http://integralife.com">integralife.com</a>	316	<b>PMT Corporation</b> <a href="http://pmtcorp.com">pmtcorp.com</a>	104
<b>FujiFilm Healthcare Americas Corporation</b> <a href="http://healthcaresolutions-us.fujifilm.com">healthcaresolutions-us.fujifilm.com</a>	311	<b>Raumedic</b> <a href="http://raumedic.com">raumedic.com</a>	115
<b>Hydrocephalus Association</b> <a href="http://hydroassoc.org">hydroassoc.org</a>	103	<b>Rhaeos</b> <a href="http://rhaeos.com">rhaeos.com</a>	300
<b>Hyperfine Inc.</b> <a href="http://hyperfine.io">hyperfine.io</a>	107	<b>RosmanSearch, Inc.</b> <a href="http://rosmansearch.com">rosmansearch.com</a>	203
<b>IMRIS</b> <a href="http://imris.com">imris.com</a>	114	<b>Sophysa USA Inc.</b> <a href="http://sophysa.com">sophysa.com</a>	319
<b>Karl Storz Endoscopy</b> <a href="http://karlstorz.com">karlstorz.com</a>	117	<b>Synaptive Medical</b> <a href="http://www.synaptivemedical.com">www.synaptivemedical.com</a>	306
<b>Kirwan Surgical Products, LLC</b> <a href="http://ksp.com">ksp.com</a>	102	<b>ThinkFirst Foundation</b> <a href="http://thinkfirst.org">thinkfirst.org</a>	113
		<b>Zimmer Biomet</b> <a href="http://Zimmerbiomet.com">Zimmerbiomet.com</a>	200

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## 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*

# NYC

## SAVE THE DATE

DECEMBER 12-15, 2024

2024 Joint Pediatric Section Annual Meeting  
Sheraton New York Times Square Hotel

# NYC



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Neurological  
Surgeons



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