51ST ANNUAL MEETING OF THE JOINT SECTION ON
PEDIATRIC NEUROLOGICAL SURGERY

E PLURIBUS UNUM
ADVOCACY, HEALTH CARE POLICY AND THE FUTURE OF PEDIATRIC NEUROSURGERY

DECEMBER 1-4, 2022
MARRIOTT MARQUIS
WASHINGTON, D.C.
cns.org/pediatric

The 51st Annual Meeting is jointly provided by the Congress of Neurological Surgeons and the AANS/CNS Section on Pediatric Neurological Surgery

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 Board of Directors of the AANS and the Executive Committee of the CNS can be apprised of the activities and the advances in the subspecialty of pediatric neurosurgery.
- Serving as a resource for the Board of Directors of the AANS and the Executive Committee of the CNS for conducting special studies and proposing solutions to problems in pediatric neurosurgery when directed to do so.
- Service as a section to assist the AANS and CNS 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 provider ship 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 24 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.
Abstract and Poster Presentations

Poster presenters are available to answer questions on Saturday, 12:00-1:00 pm. View posters and visit with presenters in Salon 12/13. Top 10 Posters are available for viewing throughout the meeting.

Attire

Professional attire is appropriate for the meeting and for the Exhibit Hall.

Meeting App

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

Log in with event code: PEDS22

Neuro Corner

Visit the Neuro Corner in the Exhibit Hall during breaks and lunches to enjoy short presentations and engaging conversations with speakers. This is a great opportunity for residents, fellows, and medical students to engage with leadership and network with peers.
Registration

Marquis Foyer - Meeting Level 2
Thursday, December 1 ................................ 7:00 am-5:00 pm
Friday, December 2 .................................... 7:00 am-7:00 pm
Saturday, December 3 .................................7:00 am-6:00 pm
Sunday, December 4 ................................. 7:00 am-12:00 pm

Speaker Ready Room

Marquis Salon 15 - Meeting Level 2
Thursday, December 1 ................................ 7:00 am-5:30 pm
Friday, December 2 ..................................... 7:00 am-6:00 pm
Saturday, December 3 .................................7:00 am-6:30 pm
Sunday, December 4 ................................. 7:00 am-12:00 pm

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: MarriottBonvoy_Conference
Passcode: Peds2022

NETWORKING EVENTS

Thursday, December 1
6:00-7:30 pm
Opening Reception
Join us for the opening reception at the Marriott Marquis Lounge on the Mezzanine Foyer level of the hotel. Reconnect with colleagues and friends while enjoying cocktails and hors d’oeuvres. Sponsored by Medtronic

Friday, December 2
5:20-5:30 pm
Jay Wellons Book Reading
All That Moves Us: A Pediatric Neurosurgeon, His Young Patients, and Their Stories of Grace and Resilience. Don’t miss the opportunity to meet Dr. Jay Wellons and get a signed copy of his book during the Wine and Cheese Reception in the Exhibit Hall.

5:30-7:00 pm
Wine and Cheese Reception
Enjoy some time with friends and colleagues during this networking event in the Exhibit Hall.
Scientific Session I  
Friday, December 2 • 8:45-9:05 am  
Marquis Salon 6

Pediatric Neurosurgery Service in Ukraine Before and During War

Yurii Perekopaiko  
Adult and Pediatric Neurosurgeon  
National Cancer Institute  
Kyiv, Ukraine

After finishing Bogomolets National Medical University in 2012, Yurii Perekopaiko started his three-year Neurosurgery Residency Program in Kyiv Regional Hospital. He was involved in the Neurosurgery Fellowship Program in the Main Military Clinical Hospital in Kyiv (NATO role 4) and provided care to the wounded in Eastern Ukraine. He earned his PhD degree at the National Healthcare University in Kyiv and parallel worked in the private hospital as a consultant. He completed his one-year Fellowship in Pediatric Neurosurgery at the Dana Dwek Children’s Hospital, in Tel Aviv, Israel. In 2022, Perekopaiko provided neurosurgery care for wounded adults and children during the Russian-Ukraine War. Currently he is working in the Neurosurgery Department at The National Cancer Institute in Kyiv, Ukraine.

Scientific Session VII  
Saturday, December 3 • 1:05-1:50 pm  
Marquis Salon 6

What Have We Truly Accomplished in Treatment of Tumors/Future/End of Knife?

Roger J. Packer  
Senior Vice-President, Center for Neuroscience and Behavioral Medicine  
Children’s National Hospital  
Washington, D.C.

Roger J. Packer is Senior Vice-President, Center for Neuroscience and Behavioral Medicine, the Gilbert Distinguished Professor of Neurofibromatosis, and Director of both the Gilbert Neurofibromatosis Institute and the Brain Tumor Institute of Children’s National Hospital (CNH), Washington, DC. He is Professor of Neurology and Pediatrics at The George Washington University. His clinical research has touched on various aspects of child neurology and neuro-oncology, including pediatric brain tumors, neurofibromatosis type 1, and the neurologic aspects of childhood neurogenetic diseases. Presently, Packer is Chair of the PBTC Low-Grade Glioma Committee; Principal Investigator (CNH) of the Neurofibromatosis Clinical Trials Consortium; Chair of the Medulloblastoma Committee of the Children’s Oncology Group; and co-chair of the Brain Malignancy Steering Committee (NCI). He has published over 450 original articles and 380 reviews and chapters.
THURSDAY, DECEMBER 1

1:00-4:00 pm
AANS/CNS Pediatric Section
Executive Committee Meeting
Marquis Salon 9-10

12:00-5:20 pm
Fellows Bootcamp
Marquis Salon 7-8

   12:00-1:00 pm
   Fellows Bootcamp Lunch

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

   1:05-1:20 pm
   How to Create a Successful Academic Career
   David D. Limbrick

   1:20-1:40 pm
   How to Create a Successful Private Career
   David P. Gruber

   1:40-2:00 pm
   Medicolegal Issues: Staying Out of Trouble
   Jeffrey R. Leonard

   2:00-2:20 pm
   Medicolegal Issues: Navigating the System
   Robert F. Keating

   2:20-2:30 pm
   Break

   2:30-2:50 pm
   Update on Fetal Surgery
   Daniel Donoho

   2:50-3:10 pm
   Important Topics in ABPNS Board Certification
   Ian F. Pollack

   3:10-3:30 pm

Understanding Urodynamics
Briony Varda

3:30-3:50 pm
Coding Basics
Mark R. Proctor

3:50-4:00 pm
Break

4:00-4:20 pm
The Pros and Cons of Getting an MBA
Sandi Lam

4:20-4:40 pm
Bias, Ethics, Diversity and Inclusion
Susan R. Durham

4:40-5:00 pm
International Work
Brandon G. Rocque

5:00-5:20 pm
Pediatric Spine: Ortho/Neuro Issues
Richard C.E. Anderson

12:00-4:05 pm
Advanced Practice Provider’s Meeting

Please visit the registration desk if you have not registered for this meeting and would like to attend.
University of DC/Catholic University Rooms

   12:00-12:10 pm
   Introduction
   Robert F. Keating, Haley Vance

   12:10–12:30 pm
   The Scope of Practice of an APP in Pediatric Neurosurgery at Children’s National
   Stephanie Gurevich, Kerri Thorn

   12:30–1:00 pm
   Correlating the Radiographic Picture to the Clinical Signs and Symptoms of the Pediatric Patient
   John Myseros
1:00–1:20 pm
Innovation in Pediatric Functional Neurosurgery
Chima Oluigbo

1:20–1:40 pm
Methodical Radiology Review
Jason L. Schroeder

1:40–2:00 pm
Pediatric Spine Injuries and Emergent Treatment; Including Congenital
Hasan R. Syed

2:00–2:20 pm
Common Pediatric Neurosurgical Issues-Where Are We Today?
Robert F. Keating

2:20–2:30 pm
Break

2:30–2:45 pm
New innovations in NSG-HIFU
Robert F. Keating

2:50–3:05 pm
Vascular Injuries/Treatment
Hasan R. Syed

3:05–3:25 pm
ICU management of TBI
Marisa Mize

3:25–3:45 pm
The Complex Shunt Patient: A Case Study
Daniel Donoho

3:45–4:05 pm
QI in Neurosurgery: APP Role
Amit Kumar Saha

3:00–4:00 pm
International Collaborative/Section Meeting
Chris Bonfield, Samer K. Elbabaa, Caitlin Hoffman, Eylem Ocal
Marquis Salon 14

4:00–5:00 pm
Education Committee Meeting
Marquis Salon 9-10

6:00–7:30 pm
Opening Reception
Mezzanine Foyer
MEETING AGENDA
FRIDAY, DECEMBER 2

FRIDAY, DECEMBER 2

7:00-8:00 am
Complimentary Breakfast
Marquis Salon 6 Foyer

8:00-10:00 am
SCIENTIFIC SESSION I:
Global Pediatric Considerations and Future Directions
MODERATORS: Frederick Boop, John Ragheb
Marquis Salon 6

8:00-8:05 am
Welcome and Opening Remarks
Robert F. Keating

8:05-8:10 am
Chair of Pediatric Section Address
Bermans Iskandar

8:10-8:40 am
KEYNOTE SPEAKER
Past and Future Challenges for Diversity in the Health Care Environment
Wayne A. I. Frederick
President of Howard University

8:40-8:45 am
Question and Answer

8:45-9:05 am
KEYNOTE INTERNATIONAL SPEAKER
Pediatric Neurosurgery in Ukraine Before and During the War
Yurii Perekopaiko, Kiev, Ukraine

9:05-9:15 am
Where is the World Today with Folic Acid and Reduction of Neural Tube Defects
Gail Rosseau

9:15-10:00 am
International Roundtable Discussion on the Challenges for Local/Regional Pediatric Neurosurgery
Mohammed El Beltagy, Anthony Figaji, Wan Tew Seow

9:30 am-7:00 pm
Exhibit Hall
Marquis Salon 1-5

10:00-10:35 am
Beverage Break in the Exhibit Hall
Neuro Corner: Pediatric Fellows Gathering
Marquis Salon 3-5

10:35 am-12:00 pm
SCIENTIFIC SESSION II:
Hydrocephalus/Basic Science
MODERATORS: Paul Kanev, Carolyn Quinsey
Marquis Salon 6

10:35-10:45 am
Point/Counterpoint: The Application of ETV/CPP Has Stood the Test of Time
Jay Riva Cambrin, Abhaya Kulkarni

10:45-11:05 am
History of Hydrocephalus
Marion Walker

11:05-11:10 am
EVIDENCE-BASED MEDICINE BEST PAPERS
The Low Utility of Routine Cranial Imaging After Pediatric Shunt Revision
Mark R. Proctor

11:10 am-12:00 pm
Oral Abstract Presentation Session 1: Hydrocephalus/Basic Science

11:10-11:16 am
Miniaturized Microfluidic Chip with ICP Control Valve for Hydrocephalus Treatment
Seunghyun Lee

11:17-11:23 am
Clinical Effectiveness of Routine Brain Imaging in Asymptomatic Patients with Shunted Hydrocephalus
Casey Madura

11:24-11:30 am
Re-evaluation of ETV Success Score in Children with Hydrocephalus: Multicentered Cohort Study of Clinical Research Network
Leonard Verhey
11:31-11:37 am  
Papilledema in Pediatric Middle Cranial Fossa Arachnoid Cysts: Report of 48 Cases from a Single Institution  
Joanna Papadakis  

11:38-11:44 am  
Influence of the COVID-19 Pandemic on Incidence of CSF Diversion Procedures for Hydrocephalus: Nationally Representative Multi-Center Study  
Paige Lundy  

11:45-11:51 am  
Predictors and Time Course for Hydrocephalus Development in Patients Undergoing Prenatal vs. Postnatal Treatment for MMC  
Sasidhar Karuparti  

11:52 am-12:00 pm  
Discussion  

12:00-1:00 pm  
Complimentary Lunch in the Exhibit Hall  
Marquis Salon 3-5  

12:00-1:00 pm  
LUNCHEON SEMINAR 1:  
Avoiding and Managing Complications – Lessons Learned: For Young and Old Neurosurgeons  
MODERATOR: Jennifer Strahle  
SPEAKERS: Frederick A. Boop, W. Jerry Oakes, Tadanori Tomita, Howard L. Weiner  
Marquis Salon 7-8  

12:00-1:00 pm  
LUNCHEON SEMINAR 2:  
Basic Science/NIH Symposium – Part 1  
MODERATORS: David J. Daniels, Virendra R. Desai, Hasan R. Syed  
SPEAKER: Stephan J. Korn  
Marquis Salon 9-10  

1:00-3:00 pm  
SCIENTIFIC SESSION III: Epilepsy/Neuromodulation/Basic Science  
MODERATORS: Michael H. Handler, Zulma S. Tovar-Spinaza  
Marquis Salon 6  

1:00-1:30 pm  
KEYNOTE SPEAKER  
Future Avenues for Neuromodulation/Brain Computer Interface/Al  
George Ibrahim  

1:30-1:45 pm  
Point/Counterpoint: Is There a Future for Open Epilepsy Surgery?  
Chima Oluigbo, John Ragheb  

1:45-1:50 pm  
EVIDENCE-BASED MEDICINE BEST PAPERS  
Responsive Neurostimulation Device Therapy in Pediatric Patients with Complex Medically Refractory Epilepsy  
Jesse Skoch  

1:50-3:00 pm  
Oral Abstract Presentation Session 2: Epilepsy/Neuromodulation/Basic Science  

1:50-1:56 pm  
Functional Hemispherectomy Outcomes and Complications: The 35-Year Experience at the Hospital for Sick Children  
Jennifer Quon  

1:57-2:03 pm  
Access to Epilepsy Surgery by Children from the Developing World: Advancing the Policy Framework and Implementation Science  
Kevin Paul Ferraris  

2:04-2:10 pm  
MRI-guided Laser Interstitial Thermal Therapy for Complete Corpus Callosotomy (MRigLITT-CC) in Pediatric Patients: Single Institution Outcomes  
Jonathan Pindrik
2:11-2:17 pm
National 20 Year Epilepsy Surgery Landscape Shows the Rise of Open and Minimally Invasive Pediatric Epilepsy Surgery
Meena Vessell

2:18-2:24 pm
Yearly Trends in LITT vs Open Surgery for Intractable Epilepsy in Pediatric Patients: A Nationwide Analysis
Sima Vazquez

2:25-2:31 pm
Incidence and Prediction of Hydrocephalus Following Hemispherectomy for Epilepsy in 329 Pediatric Patients
Akshay Sharma

2:32-2:38 pm
Payor Type Predicts Time to Neurosurgical Consult and Surgery From Diagnosis of Lesional Target in Pediatric Drug Resistant Epilepsy
Grace Lai

2:39-2:45 pm
Comparison of Outcomes After SEEG and Subdural Grid Monitoring in Pediatric Tuberous Sclerosis Complex
Thomas Larrew

2:46-2:52 pm
Surgical Outcomes of Corpus Callosotomy for Pediatric Epilepsy
Rebecca Reynolds

2:53–3:00 pm
Discussion

3:00-3:35 pm
Beverage Break in the Exhibit Hall

3:35-5:20 pm
SCIENTIFIC SESSION IV: Dysraphism/Fetal
MODERATORS: Robin M. Bowman, Gregory G. Heuer
Marquis Salon 6

3:35-4:05 pm
KEYNOTE SPEAKER
Where Are We Today with Fetal Repair/Future Directions?
Samer K. Elbabaa

4:05-4:15 pm
Point/Counterpoint: Is Fetal Repair Worth It: Do the Long-Term Outcomes Outweigh the Risks?
Robin M. Bowman, Matthew Whitehead

4:15-4:20 pm
EVIDENCE-BASED MEDICINE BEST PAPERS
Comparison of Intrathecal Baclofen Pump Insertion and Selective Dorsal Rhizotomy for Nonambulatory Children with Predominantly Spastic Cerebral Palsy
Jennifer L. Quon

4:20-5:05 pm
Oral Abstract Presentation Session 3: Dysraphism/Fetal

4:20-4:26 pm
Fetoscopic, Three-Miniport Technique for Prenatal Myelomeningocele Repair: Technical Evolution and Outcomes in 60 Consecutive Cases
Amanda Kwasnicki

4:27-4:33 pm
Neurosurgical Outcomes in Fetal Spina Bifida Repair: A Comparison of Fetoscopic, Open Fetal, and Postnatal Approaches at a Single Institution
Melissa LoPresti
4:34-4:40 pm  
Sexual Health and Experiences Among Patients with Spina Bifida: A Cross-Sectional Survey at a Tertiary Transitional Spina Bifida Center  
Suzannah Rogers

4:41-4:47 pm  
Presentation, Treatment Outcomes and Referral Patterns of Neural Tube Defects in Southwestern Uganda  
Maria Punchak

4:48-4:54 pm  
“Inappropriate” Spinal Ultrasounds for Suspected Occult Spinal Dysraphism  
Nicholas Sader

4:55-5:01 pm  
National Trends in Postnatal Myelomeningocele Repair Before and After the MOMS Trial  
Belinda Shao

5:02-5:05 pm  
Discussion

5:05-5:20 pm  
Challenges and Advocacy for Adult Transition  
Jeffrey P. Blount

5:20-5:30 pm  
Jay Wellons Book Reading  
Marquis Salon 1-5

5:30-7:00 pm  
Wine and Cheese Reception and Jay Wellons Book Signing in Exhibit Hall  
Marquis Salon 1-5
SATURDAY, DECEMBER 3

7:00-8:00 am
Complimentary Breakfast
Marquis Salon 6 Foyer

8:00-10:00 am
SCIENTIFIC SESSION V: Craniofacial/Basic Science
MODERATORS: Amy Lee, Matthew D. Smyth
Marquis Salon 6

8:00-8:03 am
Introduction of the Section Chair
Robert F. Keating

8:03-8:15 am
Section Chair Address
Bermans J. Iskandar

8:15-8:45 am
SONS Lecturer
Jesse Ehrenfeld

8:45-9:15 am
What Do We Know and Not Know About the Right Approach, ICP Considerations, LT Results, Cognitive Issues and The Future of CF Surgery?
Gary Rogers

9:15-9:25 am
Point/Counterpoint: Has Endoscopic Approach Demonstrated Superior Results Over the Long Run?
Mark R. Proctor, Matthew D. Smyth

9:25-10:00 am
Oral Abstract Presentation Session 4: Craniofacial/Basic Science

9:25-9:31 am
Distinguishing Benign Metopic Ridging from Metopic Craniosynostosis Using Photograph-Based Cranio- metrics
Summer Xu

9:32-9:38 am
Incidence of Reoperation in Children with Craniosynostosis
Natalie Limoges

9:39-9:45 am
Differences in Timing to Presentation and Outcomes in Patients with Craniosynostosis Due to Socioeconomic Disparities
Nirali Patel

9:46-9:52 am
Craniofacial Growth and Asymmetry in Newborns: A Longitudinal 3D Assessment
Shih-Dun Liu

9:53-10:00 am
Discussion

9:30 am-3:35 pm
Exhibit Hall
Marquis Salon 1-5

10:00-10:35 am
Beverage Break in Exhibit Hall
Neuro Corner: Academic Considerations
Marquis Salon 1-5

10:35 am-12:00 pm
SCIENTIFIC SESSION VI: Vascular/Endovascular
MODERATORS: Sandi Lam, Phillip B. Storm
Marquis Salon 6

10:35-11:05 am
Current Status/Future of Interventional Radiology and Pediatric Neurosurgery
Sudhakar Vadivelu

11:05-11:15 am
Point/Counterpoint: Open Vascular Surgery Will Be Obsolete in The Near Future?
Gerald A. Grant, Suresh N. Magge

11:15-11:20 am
EVIDENCE-BASED MEDICINE BEST PAPERS
Delayed Recurrence of Pediatric Arteriovenous Malformations After Radiologically Confirmed Obliteration
11:20 am-12:00 pm
Oral Abstract Presentation Session 5: Vascular/Endovascular

11:20-11:26 am
Predictors of Hemorrhage in Pediatric Arteriovenous Malformations Before and After Stereotactic Radiosurgery
*Rebecca Burke*

11:27-11:33 am
Current State of Cerebrovascular Disease Epidemiology in the Global Pediatric Population
*Albert Isaacs*

11:34-11:40 am
Middle Meningeal Artery Embolization in the Management of Subdural Hematoma in Medically Complex Pediatric Neurosurgical Patients
*Anne Coyle*

11:41-11:47 am
Cerebral Angiography and Tumor Embolization in Pediatric Patients Presenting with Intraventricular Tumors
*Kelsi Chesney*

11:48-11:54 am
Trends in Admissions and Treatment of Cerebrovascular Malformations in Pediatric Patients
*Sima Vazquez*

11:55 am-12:00 pm
Discussion

12:06-12:11 pm
Pediatric Neurosurgical Capacity in Low- and Middle-Income Countries: A Cross-Sectional Assessment
*Jordan Roach*

12:12-12:17 pm
The State of Pediatric Neurosurgery Disparities Research
*Sangami Pugazenthi*

12:18-12:23 pm
The Pediatric Neurosurgical Workforce
*Jessica Lane*

12:24-12:30 pm
Discussion

12:00-1:00 pm
LUNCHEON SEMINAR 3: State of Pediatric Neurosurgery
MODERATORS: *Daniel Donoho, Catherine Mazzola*
Marquis Salon 7-8

12:00-12:05 pm
Hydrocephalus Outcomes in Children Among Spanish Speaking Patients at a Single Institution
*Gabriela Ruiz Colon*

12:06-12:11 pm
Pediatric Neurosurgical Capacity in Low- and Middle-Income Countries: A Cross-Sectional Assessment
*Jordan Roach*

12:12-12:17 pm
The State of Pediatric Neurosurgery Disparities Research
*Sangami Pugazenthi*

12:18-12:23 pm
The Pediatric Neurosurgical Workforce
*Jessica Lane*

12:24-12:30 pm
Discussion

12:00-1:00 pm
LUNCHEON SEMINAR 4: Basic Science/NIH Symposium – Part 2
MODERATORS: *David J. Daniels, Virendra R. Desai*
Marquis Salon 9-10

12:00-12:06 pm
Multi-Scale Analysis of the Transcriptional Composition of Pediatric Adamantinomatous Craniopharyngioma
*Eric Prince*

12:07-12:13 pm
Identifying A Mechanism for Complement-Induced Injury Following Neonatal Intraventricular Hemorrhage in a Murine Model
*Mohammed Alshareef*

12:14-12:20 pm
Folate-Induced Transgenerational Inheritance of Spinal Axon Regeneration Trait is Mediated by DNA Methylation in the Gamete
*Joyce Koueik*
12:21-12:27 pm
Identifying Somatic Mutations Across Epileptic Networks
H. Westley Phillips

12:28-12:34 pm
Relationships Between Immune Microenvironment, Radiological, and Genomic Factors in Pediatric Medulloblastoma
Ariana Familiar

12:35-12:41 pm
MYCN and EZH2 Inhibition Restore MHC-I Expression and T-Cell Recruitment in Murine Medulloblastoma
Taemin Oh

12:42-12:48 pm
Multi-Omics Identifies Evolutionary, Temporal, and Cell-Lineage Origin of Hydrocephalus Risk Gene
Andrew Hale

12:49-12:55 pm
Cerebrospinal Fluid Liquid Biopsy for DNA Examined with Next Generation Sequencing in Pediatric Central Nervous System Tumors: A Protocol Aimed at Neurosurgeons
Nicholas Chapman

12:56-1:00 pm
Discussion

1:00-3:00 pm
SCIENTIFIC SESSION VII: Tumors/Basic Science
MODERATORS: Lissa C. Baird, Ian F. Pollack
Marquis Salon 6

1:05-1:50 pm
RAIMONDI LECTURER
What Have We Truly Accomplished in Treatment of Tumors/Future/End of Knife?
Roger Packer

1:50-1:55 pm
EVIDENCE-BASED MEDICINE BEST PAPERS
Nonoperative Management of Childhood Calvarial Langerhans-Cell Histiocytosis
David Sanberg

1:55-3:00 pm
Oral Abstract Presentation Session 6: Tumors/Basic Science

1:55-2:01 pm
Cell-Free miRNA in Cerebrospinal Fluid and Plasma as a Diagnostic Tool for Pediatric Brain Tumors
Anne Coyle

2:02-2:08 pm
Neoadjuvant Therapy for Pineal Region Tumors Aids Safe Surgical Resection
Cameron Brimley

2:09-2:15 pm
Characterizing Neuronal Networks Implicated in Posterior Fossa Syndrome: A Lesion Network Mapping Analysis
Karim Mithani

2:16-2:22 pm
Early Experience with Targeted Therapy as a First-Line Adjuvant Treatment for Pediatric Low-Grade Glioma
Nathan Leclair

2:23-2:29 pm
Neurosurgical Treatment and Outcome of Pediatric Skull Base Lesions: A Case Series and Systematic Review of the Literature
Ladina Greuter

2:30-2:36 pm
Racial Disparities in Pediatric Malignant Glioma Management: Current State of Affairs in the United States
Victor Lu
2:37-2:43 pm
Is EVD Necessary? The Role of Temporary CSF Diversion for Management of Posterior Fossa Tumor Resection: A 17-year Experience at a Single Institution
Nirali Patel

2:44-2:50 pm
Endoscopic Endonasal Fenestration and Marsupialization of Cystic Pediatric Craniopharyngioma: Preserving Pituitary Function and One-Year Outcomes
Christina Sarris

2:51-3:00 pm
Discussion

3:00-3:35 pm
Beverage Break in the Exhibit Hall
Neuro Corner: Academic Considerations
Marquis Salon 1-5

3:35-5:00 pm
SCIENTIFIC SESSION VIII: Chiari/Basic Science
MODERATORS: Stephanie Greene, John Myseros
Marquis Salon 6

3:35-4:05 pm
KEYNOTE SPEAKER
What Have We Truly Learned About Chiari/Future?
Karin M. Muraszko

4:05-4:15 pm
Point/Counterpoint: To open or not to open?
Richard C. Anderson, David D. Limbrick

4:15-4:20 pm
EVIDENCE-BASED MEDICINE BEST PAPERS
Comparison of Intrathecal Baclofen Pump Insertion and Selective Dorsal Rhizotomy for Nonambulatory Children with Predominantly Spastic Cerebral Palsy
Ann Mansur

4:20-5:00 pm
Oral Abstract Presentation Session 7: Chiari/Basic Science

4:20-4:26 pm
Revision Chiari Malformation Surgery: Is Tonsillar Coagulation to Blame?
Kristen Stabingas

4:27-4:33 pm
Pre-Operative Screening Measures to Determine the Presence of an Arachnoid Veil in Chiari I Malformation
Kenneth Paik

4:34-4:40 pm
Association Between Radiographic Variables and Clinical Course in Pediatric Chiari Malformation Type I
Eric Montgomery

4:41-4:47 pm
Fourth Ventricle to Cervical Subarachnoid Space Stents for Persistent Syringomyelia Following Chiari Decompression
Rachael Han

4:48-4:54 pm
Posterior Fusion for Treatment of Pannus and Anterior Brainstem Compression in Chiari Malformation Type I
Eric Montgomery

4:55-5:00 pm
Discussion

5:00-5:30 pm
AAP Section on Neurological Surgery (SONS) Scientific Session
Marquis Salon 6

5:30-6:00 pm
Pediatric Section Annual Business Meeting
Marquis Salon 6
SUNDAY, DECEMBER 4

7:00-8:00 am
Complimentary Breakfast
Marquis Salon 6 Foyer

8:00-10:00 am
SCIENTIFIC SESSION IX:
Trauma/Basic Science
MODERATORS: Douglas L. Brockmeyer,
Mari L. Groves
Marquis Salon 6

8:00-8:30 am
KEYNOTE SPEAKER
Where Are We Today with Head Trauma/ICP Control/Non-Invasive ICP Monitoring?
P. David Adelson

8:30-8:45 am
Point/Counterpoint: Have Decompressive Craniotomies Helped?
Douglas L. Brockmeyer, John R. Kestle

8:45-9:00 am
EVIDENCE-BASED MEDICINE BEST PAPERS
Invasive Brain Tissue Oxygen and Intracranial Pressure (ICP) Monitoring versus ICP-only Monitoring in Pediatric Severe Traumatic Brain Injury
Shih-Shan Chen

8:50-10:00 am
Oral Abstract Presentation Session 8:
Trauma/Basic Science

8:50-8:56 am
Child Combatants in Syrian War: “You’ll Learn Not to Cry"
Nida Fatima

8:57-9:03 am
Healthcare Costs and Patient Characteristics of Children with Mild Traumatic Brain Injury and Post-Concussive Syndrome
Alexander Ren

9:04-9:10 am
Clinical, Radiographic and Laboratory Factors Associated with Mortality in Pediatric Intracranial Gunshot Wounds
Roboan Guillen Arguello

9:11-9:17 am
Utility of the Social Deprivation Index as a Metric to Identify at Risk Children for Severe Traumatic Brain Injury
Amber Gaulden

9:18-9:24 am
Socioeconomic Characteristics of Pediatric Traumatic Brain Injury Patients
Sima Vazquez

9:25-9:31 am
Clinical Complications of Surviving Gunshot Wounds to the Head in Children and Adolescents: The Miami Experience
Victor Lu

9:32-9:38 am
Insurance Disparities on Healthcare Resource Utilization and Outcomes in Adolescents with Spinal Cord Injury
Aladine Elsamadicy

9:39-9:45 am
Does New Research Address Persistent Questions Since the Publication of the CDC’s 2018 Pediatric mTBI Guideline
Rebecca Dann

9:46-9:52 am
Neurosurgical Management of Abusive Head Trauma During the SARS-CoV-2 Pandemic
Jasmine Hect

9:53-10:00 am
Discussion
10:00-10:35 am
Beverage Break
Marquis Salon 6

10:35 am-12:00 pm
SCIENTIFIC SESSION X:
Spine/Technology/Misc
MODERATORS: Jonathan E. Martin,
Christina M. Sayama
Marquis Salon 6

10:35-11:05 am
Role of AI/AR/VR in the Future
Samuel R. Browd

11:05-11:11 am
Development of Consensus for the
Management of Pediatric Cervical
Spine Disorders and Stabilization: A
Modified Delphi Study
Yosef Dastagirza

11:12-11:18 am
Validity of the Subaxial Cervical Spine
Injury Classification in Children
Martin Piazza

11:19-11:25 am
Pediatric Lumbar Disc Herniation:
Conventional Management vs.
Surgery
Max Gruber

11:26-11:32 am
Diagnosis and Management of
Pediatric Hydrocephalus Utilizing a
Low Field, Portable MRI
Max Gruber

11:33-11:39 am
Natural Language Processing of
Patient EMR Predicts Pediatric Shunt
Failure
Alice Woolard

11:40-11:45 am
Discussion

11:45-12:00 pm
Closing Remarks
Robert F. Keating
Thank You

Medtronic

Platinum Industry Supporter of the 2022 51st Annual Meeting of the Joint Section on Pediatric Neurological Surgery
### EXHIBITOR HALL INFORMATION

**LOCATION:**  
Marquis Salon 1-5

**HOURS:**  
Friday, December 2  
9:30 am-7:00 pm  
Saturday, December 3  
9:30 am-3:35 pm

<table>
<thead>
<tr>
<th>EXHIBITOR</th>
<th>BOOTH#</th>
<th>EXHIBITOR</th>
<th>BOOTH#</th>
</tr>
</thead>
<tbody>
<tr>
<td>3dMD LLC</td>
<td>415</td>
<td>KLS Martin</td>
<td>306</td>
</tr>
<tr>
<td>3dmd.com</td>
<td></td>
<td>klsmartin.com</td>
<td></td>
</tr>
<tr>
<td>Ad-Tech Medical Instrument Corporation</td>
<td>402</td>
<td>Matrix Surgical USA</td>
<td>212</td>
</tr>
<tr>
<td>adtechmedical.com</td>
<td></td>
<td>matrixsurgicalusa.com</td>
<td></td>
</tr>
<tr>
<td>Aesculap Inc.</td>
<td>412</td>
<td>Medtronic</td>
<td>301</td>
</tr>
<tr>
<td>aesculapusa.com</td>
<td></td>
<td>medtronic.com</td>
<td></td>
</tr>
<tr>
<td>Anuncia Medical, Inc.</td>
<td>307</td>
<td>Monteris Medical Inc.</td>
<td>201</td>
</tr>
<tr>
<td>anunicamedical.com</td>
<td></td>
<td>monteris.com</td>
<td></td>
</tr>
<tr>
<td>BK Medical</td>
<td>213</td>
<td>Poriferous LLC</td>
<td>218</td>
</tr>
<tr>
<td>bkmedical.com</td>
<td></td>
<td>poriferous.com</td>
<td></td>
</tr>
<tr>
<td>Brainlab</td>
<td>215</td>
<td>Raumedic</td>
<td>417</td>
</tr>
<tr>
<td>brainlab.com</td>
<td></td>
<td>raumedic.com</td>
<td></td>
</tr>
<tr>
<td>Clarus Medical, LLC</td>
<td>400</td>
<td>Rhaeos</td>
<td>203</td>
</tr>
<tr>
<td>clarus-medical.com</td>
<td></td>
<td>rhaeos.com</td>
<td></td>
</tr>
<tr>
<td>ClearPoint Neuro, Inc.</td>
<td>312</td>
<td>RosmanSearch, Inc.</td>
<td>313</td>
</tr>
<tr>
<td>clearpointneuro.com</td>
<td></td>
<td>rosmanssearch.com</td>
<td></td>
</tr>
<tr>
<td>Codman Specialty Surgical, a Division of Integra LifeSciences</td>
<td>308</td>
<td>ShuntCheck Inc.</td>
<td>404</td>
</tr>
<tr>
<td>integralife.com</td>
<td></td>
<td>neurodx.com/shuntcheck</td>
<td></td>
</tr>
<tr>
<td>Hydrocephalus Association</td>
<td>302</td>
<td>Sophysa USA Inc.</td>
<td>314</td>
</tr>
<tr>
<td>hydroassoc.org</td>
<td></td>
<td>sophysa.com</td>
<td></td>
</tr>
<tr>
<td>IMRIS</td>
<td>214</td>
<td>Xoran Technologies, LLC</td>
<td>413</td>
</tr>
<tr>
<td>imris.com</td>
<td></td>
<td>xorantech.com</td>
<td></td>
</tr>
<tr>
<td>KARL STORZ Endoscopy-America, Inc.</td>
<td>406</td>
<td>Zimmer Biomet</td>
<td>300</td>
</tr>
<tr>
<td>karlstorz.com</td>
<td></td>
<td>Zimmerbiomet.com</td>
<td></td>
</tr>
</tbody>
</table>
SAVE THE DATE

November 29-December 2, 2023 • Omni Oklahoma City Hotel

52nd Annual Meeting of the Joint Section on

PEDIATRIC NEUROLOGICAL SURGERY

Visit cns.org/pediatric