HEALING WITH PRECISION

50th Annual Meeting of the AANS/CNS Section on PEDIATRIC NEUROLOGICAL SURGERY

December 7-10, 2021
The Grand America Hotel | Salt Lake City

Get the Meeting App at 360.aans.org
Opening Reception  Sponsored by Medtronic
The Opening Reception takes place at The Grand America, in the Grand Salon. Make time to join your colleagues and friends to enjoy a beverage, appetizers and an evening of stimulating conversation to kick off the meeting.

This is a ticketed event. All registered attendees and guests will need to wear a meeting badge for access to the event. Additional tickets are available for $100.

Meeting Room WiFi
Complimentary WiFi access is available in all meeting spaces Tuesday, Dec. 7-Friday, Dec. 10.
Network: peds2021
Passcode: peds2021

Health and Wellness – Mask Requirement
All attendees, exhibitors and guests are required to wear a mask during the meeting, except when presenting at the podium to reduce risk of spreading the COVID-19 virus.

Masks are available the Registration Desk.

Meeting App
Find an interactive meeting schedule, attendee/speaker listings, exhibitor map, poster abstracts and more within the AANS 360 app. Visit 360.aans.org to get started.
Join the Conversation in the NeuroZone
Stop by the NeuroZone in the Exhibit Hall during breakfast, lunch and breaks to find out what is happening. This is a perfect opportunity to meet up with others, as well as dialogue with key speakers. Residents and medical students are invited to meet with leadership on Wednesday morning during breakfast. Consult the program schedule for additional details.

Prize Drawing
All attendees will receive a raffle ticket upon entering the Wine & Cheese Reception on Wednesday in the Exhibit Hall with a chance to win a prize. Drawing will take place in the NeuroZone during the reception. You must be present to win.

Abstract and Poster Presentations
Poster presenters are available to answer questions Thursday, 12:15-12:45 pm. View posters and visit with presenters in the back of the general session room. Top 10 Posters are available for viewing throughout the meeting. E-Posters are available at the kiosks, as well as in the meeting app.

Photography and Capture
By attending this meeting, you grant the AANS the right to use captured images, videos, and biographies in print, electronic or other media. All posting become the property of the AANS and may be displayed, distributed or used by the AANS for any purpose. Attendees are prohibited from live streaming, photography and video capture without the consent of the AANS. The AANS is not responsible for unauthorized media capture performed by meeting attendees.
TUESDAY, DEC. 7
ANNUAL MEETING PROGRAM SCHEDULE

12-5:05 pm
ACPNF/AANS-CNS JOINT SECTION ON PEDIATRIC NEUROSURGERY FELLOW’S BOOTCAMP
Location: Murano

12-1 pm
Fellow’s Bootcamp Lunch

1-1:14 pm
How to Create a Successful Academic Career
David Limbrick, MD, PhD, FAANS

1:15-1:29 pm
How to Create a Successful Private Career
David Gruber, MD, FAANS

1:30-1:44 pm
Advances in Neuroimaging Every Pediatric Neurosurgeon Should Know
John Rampton, MD

1:45-1:59 pm
Advances in Precision Medicine Every Pediatric Neurosurgeon Should Know
Samuel Cheshier, MD, PhD

2-2:09 pm
Break

2:10-2:24 pm
Medicolegal Issues: Staying Out of Trouble, Navigating the System
Jeffrey Leonard, MD, FAANS

2:25-2:39 pm
ROSA, LITT, SEEG, Epilepsy Planning
Robert Bollo, MD

2:40-2:54 pm
Clinical Trials: What Every Pediatric Neurosurgeon Should Know
John Kestle, MD, FAANS

2:55-3:09 pm
The Pros and Cons of Getting an MBA
Sandi Lam, MD, MBA, FAANS

3:10-3:24 pm
International Work
James Johnston Jr., MD, FAANS

3:25-3:34 pm
Break

3:35-3:49 pm
Pediatric Spine: Ortho/Neuro Issues
Richard Anderson Anderson, MD, FAANS

TUESDAY, DEC. 7
7 am-7 pm
Registration
Location: Grand Foyer

12-4 pm
The AANS/CNS Section on Pediatric Neurological Surgery Executive Committee Meeting
Location: Savoy

12-5 pm
Speaker Ready Room
Location: Venezia

4-5 pm
Education Committee
Location: Savoy

12-1 pm
Fellow’s Bootcamp Lunch

1-1:14 pm
How to Create a Successful Academic Career
David Limbrick, MD, PhD, FAANS

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Break

3:35-3:49 pm
Pediatric Spine: Ortho/Neuro Issues
Richard Anderson Anderson, MD, FAANS
TUESDAY, DEC. 7
ANNUAL MEETING PROGRAM SCHEDULE

3:50-4:04 pm
Getting Involved in Organized Neurosurgery
Alan Cohen, MD, FACS, FAAP, FAANS

4:05-4:19 pm
Bias, Ethics, Diversity and Inclusion
Susan Durham, MD, MS, FAANS

4:20-4:34 pm
Coding Basics
Mark Proctor MD, FAANS

4:35-4:49 pm
Important Topics in ABPNS Board Certification
James Drake, MD, FAANS, MSc, FRCS

4:50-5:05 pm
Getting a Job
David Wrubel MD, FAANS

6-7:30 pm
OPENING RECEPTION
Location: Grand America, Grand Salon
This is a ticketed event. All registered attendees and guests will need to wear a meeting badge for access to the event. Additional tickets are available for $100.
ANNUAL MEETING PROGRAM SCHEDULE

WEDNESDAY, DEC. 8

7 am-4:30 pm
Speaker Ready Room
Location: Venezia

7 am-5 pm
Registration
Location: Grand Foyer

7 am-5:30 pm
Exhibit Hall
Location: Grand Ballroom BC

7:15-8 am
Continental Breakfast in the Exhibit Hall - NeuroZone: Residents and Medical Students Meet the Leadership
Location: Grand Ballroom BC

8-10:15 am
SCIENTIFIC SESSION I: ABSTRACT HIGHLIGHTS
Location: Imperial Ballroom
Moderators
Edwin Kulubya, MD
Ruth Bristol, MD, FAANS

8:26-8:32 am
1. Chiari Intervention Type Does Not Impact Overall Quality Of Life
Thanda Meehan

8:33-8:39 am
2. SPAK kinase links immune cell signaling to epithelial secretion at the choroid plexus-cerebrospinal fluid interface
Benjamin Reeves

8:40-8:46 am
3. Radiomics can distinguish between pediatric supratentorial embryonal tumors, high-grade gliomas and ependymomas.
Michael Zhang, MD

8:47-8:53 am
4. Racial Differences in Clinical Recovery from Sports-Related Concussion are Mediated by Disparities in Initial Symptom Burden and Concussion History
Aaron Yengo-Kahn, MD

8:54-9 am
5. The clinical course and role of surgery in pediatric malignant peripheral nerve sheath tumors.
Victor Lu, MD

9:01-9:07 am
6. Point-of-Care Pathogen Diagnostics from Brain Imaging
Mallory Peterson, PhD
9:08-9:14 am
7. Predictors of Neurosurgical Intervention and Image Progression in Children with Mild Traumatic Brain Injury and Intracranial Injury Undergoing Repeat Imaging
Gabrielle Johnson

9:15-9:25 am
Discussion Session - Abstract Group 1

9:26-10:05 am
Raimondi Lecture
Lynn Jorde, PhD

10:06-10:15 am
Question and Answer Session with Raimondi Lecturer
Lynn Jorde, PhD

10:47-11:11 am
Point/Counter-Point - Hydrocephalus
Moderator John Kestle, MD, FAANS
- 10:47-10:53 am
Does Ventricle Size Matter in Treating Hydrocephalus? - No
Jay Riva-Cambrin, MD, MSc, FAANS
- 10:54-11 am
Does Ventricle Size Matter in Treating Hydrocephalus? - Yes
Jeffrey Blount, MD, FAANS

11:01-11:11 am
Point/Counter-Point Question and Answer Session

11:12-11:18 am
8. Multi-omic analysis elucidates the genetic basis of hydrocephalus
Andrew Hale, MD, PhD

11:19-11:25 am
9. Preoperative Risk and Postoperative Outcome from Subdural Fluid Collections in African Infants with Postinfectious Hydrocephalus
Jessica Lane, MD

11:26-11:32 am
10. Time to shunt failure in children with myelomeningocele: An analysis of the National Spina Bifida Patient Registry
Isaac Shamblin, MSBME

10:16-10:46 am
Beverage Break in the Exhibit Hall – NeuroZone: Continue the Discussion
Ingraham Lifetime Achievement Award
Marion Walker, MD, FAANS(L)
Judy Goodrich
Location: Grand Ballroom BC

10:47-11:46 am
SCIENTIFIC SESSION II: HYDROCEPHALUS
Location: Imperial Ballroom
Moderators
Clarence Greene, MD, MHA, FAANS
Naina Lynn Gross, MD, FAANS
11:33-11:39 am
11. Large cohort integrative multiomic analysis reveals epigenetic basis to congenital hydrocephalus pathogenesis
Kedous Mekbib, BS

11:40-11:46 am
Discussion Session - Abstract Group 2

11:47-12:47 am
Lunch in the Exhibit Hall
Location: Grand Ballroom BC

12:48-2:08 pm
SCIENTIFIC SESSION III: FELLOWS/VASCULAR
Location: Imperial Ballroom
Moderators
Annie Drapeau, MD, FRCSC, FAANS, FAAP
Peter Dirks, MD, PhD, FRCSC

12:48-12:58 pm
Introduction of Fellows
Annie Drapeau, MD, FRCSC, FAANS, FAAP
Peter Dirks, MD, PhD, FRCSC

12:59-1:05 pm
12. Concordance of Functional MRI Memory Task and Resting State Functional MRI Connectivity Used in Surgical Planning for Pediatric Temporal Lobe Epilepsy
Diem Kieu Tran, MD

1:06-1:12 pm
13. Characterization of pediatric patients requiring revision posterior fossa decompression for Chiari-I malformation and syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium
Ryan Jafrani, MD

1:13-1:19 pm
Ariana Barkley, MD

1:20-1:26 pm
15. Effect of Prior Embolization on Outcomes after Stereotactic Radiosurgery for Pediatric Brain Arteriovenous Malformations: An International Multicenter Study
Rebecca Burke, MD, PhD

1:27-1:33 pm
Discussion Session - Abstract Group 3

1:34-1:40 pm
16. A Survey and Analysis of Pediatric Stroke Protocols
Jonathan Scoville, MD

1:41-1:47 pm
17. Ivy Sign: A Diagnostic and Prognostic Biomarker for Pediatric Moyamoya
Alaa Montaser, MD, PhD

1:48-1:54 pm
18. MRI/MRA is Non-inferior to Catheter Angiography for Annual Follow-up of Pediatric Moyamoya Patients and is Associated with Cost Reduction: a Cost Outcomes Analysis
Wes Northam, MD

1:55-2:01 pm
19. Natural History of Fetal Encephaloceles
Nisha Gadgil, MD

2:02-2:08 pm
Discussion Session - Abstract Group 4
2:09-2:39 pm  
**Beverage Break in the Exhibit Hall – NeuroZone: Pediatric Neurosurgery Fellows Gathering**  
**Location:** Grand Ballroom BC

1-4:30 pm  
**ADVANCED PRACTICE PROVIDER SESSION**  
**Location:** Grand Ballroom A  
**Moderator:** Sidney Tanner, PNP

1-1:30 pm  
**Broad Topic Hydrocephalus: Current Management of IVH in the Premature Infant LCDR**  
Vijay Ravindra, MD

1:31-2:01 pm  
**Surgical Evaluation of the Pediatric Epilepsy Patient**  
Robert Bollo, MD, FAANS

2:02-2:32 pm  
**Complex Pediatric Spine**  
Rajiv Iyer, MD

2:44-3:14 pm  
**Quality Improvement Intro**  
Rajendu Srivastava, MD, FRCP(C), MPH

3:15-4:30 pm  
**Roundtable Discussions: Quality Improvement**

2:40-4:30 pm  
**SCIENTIFIC SESSION IV: TECHNICAL/FUNCTIONAL**  
**Location:** Imperial Ballroom  
**Moderators:** Zulma Tovar-Spinosa, MD, IFAANS  
Mark Krieger, MD, FAANS

2:40-2:46 pm  
20. **Synthetic Digital Subtraction Angiography: Novel Postprocessing to Reduce DSA Radiation Dosages**  
Andrew Abumoussa, MD, MSc

2:47-2:53 pm  
21. **Evaluating Vagus Nerve Stimulation Treatment with Heart Rate Monitoring in Pediatric Patients with Intractable Epilepsy**  
Brandon Santhumayor, BA

2:54-3 pm  
William Lambert

3:01-3:07 pm  
23. **Yield and predictive variables of positive insular sampling for insular epilepsy in the pediatric population**  
Shelly Wang, MD, MPH, FRCSC, FAANS

3:08-3:14 pm  
**Discussion Session - Abstract Group 5**
3:15-3:21 pm
24. Deferoxamine Prevents Early Hydrocephalus in Neonatal Intraventricular Hemorrhage: Role of Choroid Plexus Clearance
Dakota DeFreitas, MA

3:22-3:28 pm
25. Treatment of Sleep Disordered Breathing in Children with Myelomeningocele
Addison Stewart, BS

3:29-3:35 pm
26. Prevalence of ADHD and association with clinical and demographic factors in a Pediatric Hydrocephalus Prospective Cohort
Pedram Malekenia, MBA

3:36-3:42 pm
27. Preliminary Experience Suggests the Addition of Choroid Plexus Cauterization to Functional Hemispherectomy May Reduce Risk of Post-Hemispherectomy Hydrocephalus
H. Westley Phillips, MD

3:43-3:49 pm
28. Seizure outcomes following functional hemispherectomy or hemispherotomy for the treatment of hemimegalencephaly in pediatric patients: An individual participant data meta-analysis
Anwesha Dubey

3:50-3:56 pm
Discussion Session - Abstract Group 6

3:57-4:21 pm
Point/Counter-Point - Bicoronal Synostosis: Anterior vs. Posterior Approaches
Moderator Christopher Bonfield, MD

3:57-4:03 pm
Bicoronal Synostosis: Anterior Approaches
Mark Proctor, MD, FAANS

4:04-4:10 pm
Bicoronal Synostosis: Posterior Approaches
Matthew Smyth, MD, FAANS

4:11-4:21 pm
Point/Counter-Point Question and Answer Session

4:22-4:27 pm
QI Committee Introduction
Annie Drapeau, MD, FRCSC, FAANS, FAAP
Carolina Sandoval-Garcia, MD

4:28-4:30 pm
Announcements
Douglas Brockmeyer, MD, FAANS

4:30-5:30 pm
WINE AND CHEESE RECEPTION IN THE EXHIBIT HALL
NeuroZone: Raffle Prize Drawing
Location: Grand Ballroom BC
CONTINUING MEDICAL EDUCATION CREDIT

Annual Meeting Learning Objectives
Upon completion of this CME activity, participants should be able to:

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

Accreditation/Designation 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 AANS and the AANS/CNS Section on Pediatric Neurological Surgery. The AANS is accredited by the ACCME to provide continuing medical education for physicians.

This activity has been approved for 15.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nursing Contact Hours for the Advanced Practitioner Seminar
This activity has been submitted to the Ohio Nurses Association (OBN-001-91) for approval to award contact hours. The Ohio Nurses Association is accredited as an approver of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation.

Disclosures
Prior to the program, anyone in control of the educational content of this activity will disclose the existence of any financial interest and/or the relationship they have with ineligible companies. An ineligible company is any entity whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients. Disclosures will be included in the meeting app.

Watch for an email with instructions on self-reporting CME credit from this meeting.
THURSDAY, DEC. 9
ANNUAL MEETING PROGRAM SCHEDULE

8:20-8:26 am
31. Predictors of a Prolonged Pre-Diagnostic Symptomatic Interval in Pediatric Brain Tumor Patients: the Connecticut Experience
William Lambert

8:27-8:33 am
32. Headache relief for pediatric patients with Chiari I malformation and syringomyelia undergoing decompression: a Park-Reeves Syringomyelia Research Consortium study
Syed Hassan Akbari, MD

8:34-8:42 am
Discussion Session - Abstract Group 7

8:43-8:49 am
33. Younger Age at Spinal Cord Detethering is Potentially Associated with a Reduced Risk of Curve Progression in Children with Early Onset Scoliosis
Rajiv Iyer, MD

8-8:05 am
2022 Meeting Preview

8:06-8:12 am
29. Racial differences in the care of pediatric sagittal craniosynostosis: a single institution cohort study
Syed Hassan Akbari, MD

8:13-8:19 am
30. The role of traditional social determinants of health in referral patterns, timing of surgery, and CHIP-determined QOL in children with symptomatic Chiari I Malformation
Katherine Kelly, MD
8:50-8:56 am
34. Treatment Outcomes of Pediatric Neuroblastoma with Spinal Involvement
Diana Chang, MA, MS

8:57-9:03 am
35. Timing of clinical and intraoperative neurophysiological monitoring (IONM) recovery after termination of pediatric spinal deformity surgery due to loss of IONM signals
Travis CreveCoeur, MD

9:04-9:10 am
36. Development of Virtual Pediatric Spinal Biomechanical Models
Than Huynh

9:11-9:19 am
Discussion Session - Abstract Group 8

9:20-10 am
AAP/SONS Lecture
Michael Agus, MD

10:01-10:31 am
Beverage Break in the Exhibit Hall – NeuroZone: Continue the Conversation with the AAP/SONS Lecturer
Michael Agus, MD
Location: Grand Ballroom BC

10:32-10:47 am
Precision Medicine
Josh Bonkowsky, MD, PhD

10:48-10:54 am
37. Characterization of Children with Repeat Head Imaging after Mild Traumatic Brain Injury and Intracranial Injury
Gabrielle Johnson

10:55-11:01 am
38. Predicting Early and Late Recovery from Sport-Related Concussion Using Decision Tree Analysis
Jackson Allen, BA

11:02-11:08 am
Nicholas Sader, MD, MSc

11:09-11:15 am
40. Factors Associated with Repeat Imaging in Pediatric Patients with Mild Traumatic Brain Injury and Intracranial Injury
Gabrielle Johnson

11:16-11:24 am
Discussion Session - Abstract Group 9

11:25-11:31 am
41. Factors Associated with Unplanned Post-Craniotomy Reintubation in Children: a NSQIP-Pediatric Analysis
Annie Drapeau, MD, FRCSC, FAANS, FAAP
11:32-11:38 am
42. Diffuse Correlation Spectroscopy as an Accurate and Precise Option for Non-Invasive ICP Measurement
Michael McDowell, MD

11:39-11:45 am
43. The Fate of the Cervical Collar: An Observational Study Investigating Follow Up Care After Emergency Department Discharge in Children with Mild Traumatic Injuries
Douglas Brockmeyer, MD, FAANS

11:46-11:52 am
44. Implementation of a Clinical pathway for the treatment of chronic subdural hematomas of infancy
Ros Whelan, MB BCh BAO

11:53-12:01 pm
Discussion Session - Abstract Group 10

12:02-1:02 pm
Lunch in the Exhibit Hall
Location: Grand Ballroom BC

12:02-1:02 pm
APP PROVIDER SESSION

1-4:30 pm
Location: Grand Ballroom A
Moderator: Sidney Tanner, PNP

1-1:29 pm
Speaker
Samuel Cheshier, MD, PhD

1:30-1:59 pm
Craniosynostosis
Christopher Bonfield, MD

1:59-2:29 pm
Vascular Imaging on CTA and MRA/MRV
Luke Linscott

2:30-2:44 pm
Beverage Break

2:45-4:30 pm
Roundtable Discussions

Location: Imperial Ballroom

THURSDAY, DEC. 9
ANNUAL MEETING PROGRAM SCHEDULE
1:03-2:21 pm
SCIENTIFIC SESSION VII: BASIC SCIENCE
Location: Imperial Ballroom
Moderators
David Daniels, MD, PhD, FAANS
Jeffrey Leonard, MD, FAANS

1:03-1:07 pm
Poster Award Announcement
Douglas Brockmeyer, MD, FAANS

1:08-1:14 pm
45. Mapping the transcriptional core regulatory circuitry governing H3.3 G34R/V high-grade glioma identifies transcription factor genes involved in cortical interneuron progenitor lineage specification
Jordan Roach, MS

1:15-1:21 pm
46. Lineage-specific epigenetic roles of STAT3 in pediatric glioma
Cody Nesvick, MD

1:22-1:28 pm
47. Treatment of Group 3 Medulloblastoma using Low dose Radiation followed by Gal-3 inhibition.
Aakash Shingala

1:29-1:35 pm
48. Variants in SWI/SNF Complex Component SMARCC1 Are Associated With Obstructive Hydrocephalus and Cardiac Defects in Humans and Model Organisms
Amrita Singh, BS

1:36-1:44 pm
Discussion Session - Abstract Group 11

1:45-1:51 pm
49. Immune activation and tight junction disruption in the choroid plexus as a mechanism for development of post-hemorrhagic hydrocephalus from intraventricular hemorrhage in infant ferrets
Ayodamola Otun

1:52-1:58 pm
50. Mechanisms of aberrant enhancer activation in H3K27M-mutant diffuse midline glioma
Cody Nesvick, MD

1:59-2:05 pm
51. Neuroinflammation and Progenitor Loss in the Subventricular Zone and Periventricular White Matter in Untreated Experimental Hydrocephalus
Maria Garcia-Bonilla, PhD

2:06-2:12 pm
52. DNA Methylic Map of Rodent Retina during Axonal Regeneration
Joyce Koueik, MD, MS

2:22-2:52 pm
Discussion Session - Abstract Group 12

2:22-2:52 pm
Beverage Break in the Exhibit Hall
Location: Imperial Ballroom
2:53-4 pm
**SCIENTIFIC SESSION VIII: TUMOR**

**Location:** Imperial Ballroom  
**Moderators:** Eric Thompson, MD, FAANS  
Caitlin Hoffman MD, FAANS

2:53-3:23 pm
**Point/Counter-Point - Tumor**
**The Role of Second Look Surgery in Medulloblastoma**  
**Moderator** David Daniels, MD, PhD, FAANS

2:53-3:02 pm
**The Role of Second Look Surgery in Medulloblastoma: Does the 1 cm² Rule Matter? - No**  
Paul Klimo, MD, MPH

3:03-3:12 pm
**The Role of Second Look Surgery in Medulloblastoma: Does the 1 cm² Rule Matter? - Yes**  
Samuel Cheshier, MD, PhD

3:13-3:23 pm
**Point/Counter-Point Question and Answer Session**

3:24-3:30 pm
53. **AP-1 controls a lost tumor-suppressive transcriptional regulatory network in atypical teratoid rhabdoid tumor**  
Cody Nesvick, MD

3:31-3:37 pm
54. **Cavernomas After Cranial Radiation in the Pediatric Population: Interim Report on Incidence, Latency, and Comparison with Spontaneous Cavernomas**  
Michelle Wedemeyer, MD, PhD

3:38-3:44 pm
55. **Complications following surgical resection of primary and recurrent pediatric posterior fossa ependymoma**  
Armaan Malhotra, MD

3:45-3:51 pm
56. **Surgical Revascularization of Pediatric Moyamoya: A Large Single Institution Series**  
Michael Jin, BS

3:52-4 pm
**Discussion Session: Abstract Group 13**

4-4:30 pm
**PEDIATRIC SECTION ANNUAL BUSINESS MEETING**  
**Location:** Imperial Ballroom

4:30-5 pm
**AAP SECTION ON NEUROLOGICAL SURGERY (SONS) SCIENTIFIC SESSION**  
**Location:** Imperial Ballroom
FRIDAY, DEC. 10
ANNUAL MEETING PROGRAM SCHEDULE

FRIDAY, DEC. 10

7-8 am
Continental Breakfast
Location: Imperial Ballroom Foyer

7-11 am
Registration
Location: Grand Foyer

7-11:30 am
Speaker Ready Room
Location: Venezia

8-9:34 am
SCIENIFIC SESSION IX:
CHIARI/DEVELOPMENTAL
Location: Imperial Ballroom
Moderators
Manish Shah, MD, FAANS
Heather Spader, MD, FAANS

8-8:24 am
Point/Counter-Point - Chiari
Moderator Bermans Iskandar, MD, FAANS

8-8:06 am
Does the Chiari 0.5 exist? - Yes
Jeffrey Greenfield, MD, PhD, FAANS

8:07-8:13 am
Does the Chiari 0.5 exist? - No
David Limbrick, MD, PhD, FAANS

8:14-8:24 am
Point/Counter-Point Question and Answer Session

8:25-8:31 am
57. Clinical, Radiological, and Surgical Factors Associated with Syrinx Location in Children Treated for Chiari Malformation Type I and Syringomyelia: A Park-Reeves Syringomyelia Research Consortium Study
A. Scott Emmert, BS

8:32-8:38 am
58. Complications and outcomes of Chiari decompression with versus without duraplasty for pediatric Chiari I malformation with syringomyelia: a study from the Park-Reeves Syringomyelia Research Consortium
Syed Hassan Akbari, MD

8:39-8:45 am
59. The utility of intraoperative neuromonitoring in cases of Chiari decompression
Audrey A. Grossen, BA

8:46-8:52 am
60. Can CXA and pB-C2 predict the need for occipitocervical fusion in pediatric Chiari patients?
Benjamin Best, MD

8:53-8:59 am
Discussion Session - Abstract Group 14
9-9:06 am
61. Intraoperative neurophysiological monitoring in tethered cord release of fetal myelomeningocele closure patients
Tracy Flanders, MD, MSCE

9:07-9:13 am
62. Prognostic Significance of Congenital Cardiac Abnormalities for Endoscopic Third Ventriculostomy and Shunt Failure in Premature Infants
Jamie Clarke, M.S.

9:14-9:20 am
63. Prevalence of Subdural Spaces in Infants with Benign Enlargement of Subarachnoid Space Using a Fast Brain Magnetic Resonance Imaging Protocol
Christopher Litts

9:21-9:27 am
64. Machine Learning-Driven Clinical Image Analysis to Identify Craniosynostosis: A Pilot Study of Telemedicine and Clinic Patients
Mitch Paro

9:28-9:34 am
Discussion Session - Abstract Group 15

9:35-10:05 am
Beverage Break
Location: Imperial Ballroom Foyer

10:06-10:12 am
65. Predicting Long-term Outcomes in Moderate and Severe Pediatric Traumatic Brain Injury
Kristin Nosova, MD

10:13-10:19 am
66. Local Conceptions of the Role of Folate in Neural Tube Defects in Zambia
Jeffrey Chen, BA

10:20-10:26 am
67. Endovascular Thrombectomy for Treatment of Pediatric Ischemic Stroke: Cross-Sectional Analysis of the National Inpatient Sample, 2010-2018
Alis Dicpinigaitis

10:27-10:33 am
68. Use of an Epilepsy Variant Prediction Platform to Define and Treat STXBP1 Encephalopathy
Whitney Parker, MD, PhD

10:34-10:40 am
Discussion Session - Abstract Group 16
10:41-10:47 am
69. The Role of Cervical Spine Immobilization and Stabilization in Pediatric Non-Accidental Trauma
Derek Samples, MD

10:48-10:54 am
70. A comparison of MRI appearance and surgical detethering rates between postnatal and intrauterine myelomeningocele closures; a single center matched cohort study
Michael Cools, MD

10:55-11:01 am
71. Cerebrospinal Fluid Exosome Profiling: A New Research Direction into the Pathophysiology of Pediatric Hydrocephalus
Maria Garcia-Bonilla, PhD

11:02-11:08 am
72. Integrative Multi-omic Analysis Identifies Developmental Pathways and Convergent Cell Subtypes in Craniosynostosis
Emre Kiziltug

11:09-11:15 am
Discussion Session - Abstract Group 17
The AANS/CNS Section on Pediatric Neurological Surgery gratefully acknowledges the following company for generous support through educational grants.

Medtronic

The AANS/CNS Section on Pediatric Neurological Surgery gratefully acknowledges the following companies for their generous support.

DIAMOND SUPPORT LEVEL
Codman Specialty Surgical, a Division of Integra LifeSciences
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106 Clarus Medical
www.clarus-medical.com

102 ClearPoint Neuro, Inc.
www.clearpointneuro.com

302 Codman Specialty Surgical, a Division of Integra LifeSciences
www.integrimed.com

310 Hydrocephalus Association
www.hydroassoc.org

408 Hyperfine Portable MRI
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