



48th Annual Meeting
The American Society of Pediatric Neurosurgeons
January 26-31, 2025

PROGRAM

SUNDAY, JANUARY 26

10:00 am – 2:00 pm	Executive Committee Meeting (<i>EC only</i>)	<i>Boardroom</i>
3:00 pm – 4:00 pm	Registration	<i>Ritz-Carlton Ballroom Foyer</i>
5:00 pm – 7:00 pm	Welcome Reception with Guest Introductions	<i>Pool Deck</i>

MONDAY, JANUARY 27

7:00 am – 12:20 pm	Registration	<i>Ritz-Carlton Ballroom Foyer</i>
7:00 am – 9:00 am	Breakfast for Registered Physicians & Registered Guests	<i>BLT Steak</i>
8:00 am – 8:10 am	Welcoming Remarks Jay Wellons, MD	<i>Ritz-Carlton Ballroom AB</i>
8:10 am – 8:59 am	Special Session 1: Presidential Style Controversial Topic Debate: “Fetal Myelomeningocele Repair” Debating Speakers: Scott Elton, MD; Andrew Foy, MD; Hugh Garton, MD; Greg Heuer, MD; William Whitehead, MD; Moderating Speaker: Carolyn Quinsey, MD	
9:00 am – 9:49 am	Session 2: Spina Bifida/Spine/Chiari Moderator: Christina Notorianni, MD	
9:00 am – 9:09 am	Abstract #1: Fetoscopic Techniques and Postnatal Care for Large Myelomeningocele Lesions Jason Chu, MD, MSC	
9:10 am – 9:19 am	Abstract #2: Natural history of Craniocervical Alignment in Chiari Patients and the Impact of Posterior Fossa Decompression Daniel Guillaume, MD	
9:20 am – 9:29 am	Abstract #3: Multicenter Study of Modeling of Foramen Magnum Growth in Normal Children and in Achondroplasia Jeffrey Campbell, MD, MS, MBA	
9:30 am – 9:39 am	Abstract #4: A New Strong, Reversible Tissue Adhesive for Children Alexander Tucker, MD	
9:40 am – 9:49 am	Q & A	
9:50 am – 10:04 am	Refreshment Break	<i>Ritz-Carlton Ballroom Foyer</i>
10:05 am – 12:10 pm	Session 3: Hydrocephalus Moderator: Abhaya Kulkarni, MD	
10:05 am – 10:14 am	Abstract #5: GX as a Potential Genetic Susceptibility Factor in Post-Hemorrhagic Hydrocephalus Albert Isaacs, MD, PhD	



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- 10:15 am – 10:24 am Abstract #6: Treatment of Existing Posthemorrhagic Hydrocephalus Improves Cognition and Executive Function in Adult Rats
Shenandoah Robinson, MD
- 10:25 am – 10:34 am Abstract #7: Benchtop Testing Reveal Shunt Valves Used in LMIC and HIC Countries Overdrain Equally with Gravity and Pressure Pulse
Bermans J. Iskandar, MD
- 10:35 am – 10:43 am Abstract #8: Reduction in Complications by Race, Language and Ethnicity - A Multidisciplinary Approach
Luis F. Rodriguez MD, MAS
- 10:45 am – 10:52 am Abstract #9: Post-Shunting Acquired Craniosynostosis (PSAC) following Cerebrospinal Fluid (CSF) Shunt Insertion for Treatment of Hydrocephalus: Systematic Literature Review and Meta-Analysis
Jonathan Pindrik, MD
- 10:55 am – 11:04 am Q & A
- 11:05 am – 11:14 am Abstract #10: Complex Shunts: Are Separate or Connected Systems Better? An HCRN Study
Eric M. Jackson, MD
- 11:15 am – 11:24 am Abstract #11: In Vitro and In Vivo Choroid Plexus Ablation with a Novel Recombinant Adeno-associated Virus
Francesco T. Mangano, DO
- 11:25 am – 11:34 am Abstract #12: Multiomic Analyses Identifies Novel Risk Genes for Congenital Cerebral Ventriculomegaly
Kristopher Kahle, MD, PhD
- 11:35 am – 11:44 am Abstract #13: A Semi-Automated Segmentation Technique for Quantitative Analysis of Ventricular Volumes in Children with Dysmorphic Ventricles
Heather Spader, MD
- 11:45 am – 11:54 am Abstract #14: Evaluation of the Use of a Non-invasive MR technique (Time-STAMP) for Clinical Management of Abnormal Cerebral Spinal Fluid Circulation in a Pediatric Population
Gordon McComb, MD
- 11:55 am – 11:59 am Q & A
- 12:00 pm – 12:15 pm **Special Session 4: The Tim George Sheep Spina Bifida Model: A Renewed Interest for Clinical and Basic Research – Bermans J. Iskandar, MD**
- 12:15 pm - 12:20 pm Q &A
- 12:15/12:30 pm Mentorship Luncheon (*invitation only*) Solano Terrace



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TUESDAY, JANUARY 28

7:00 am – 12:30 pm	Registration	<i>Ritz-Carlton Ballroom Foyer</i>
7:00 am – 9:00 am	Breakfast for Registered Physicians & Registered Guests	<i>BLT Steak</i>
8:00 am – 8:49 am	Special Session 5: Presidential Style Controversial Topic Debate: “Tethered Cord”	<i>RC Ballroom</i>
	Debating Speakers: David Bauer, MD; Jeffrey Blount, MD; Holly Gilmer, MD; Karin Muraszko, MD; Monica Wehby, MD	
	Moderating Speaker: Jenn Strahle, MD	
8:50 am – 9:50 am	Session 6: DEI/Education	
	Moderator: Cormac Maher, MD	
8:50 am – 8:59 am	Abstract #15: Why So Slow? The Advancement of Females in Neurosurgery: A Thirty-Year Analysis Susan Durham, MD, MS	
9:00 am – 9:09 am	Abstract #16: A Call to Action to Better Monitor Quality of life and Burnout in Neurosurgical Trainees Jay Riva-Cambrin, MD	
9:10 am – 9:19 am	Abstract #17: Trends in Neurosurgical Funding, Leadership, and Academic Productivity by Gender: A Comprehensive Retrospective Analysis from 1970 to 2024 Renee Reynolds, MD	
9:20 am – 9:29 am	Abstract #18: The Effect of a Standardized Neurosurgery Sub-Internship Curriculum on Medical Student Pediatric Neurosurgery Knowledge Peter Morgenstern, MD	
9:30 am – 9:39 am	Abstract #19: Early Introduction to Medicine among Under-represented 6th Grade Students in Newark, New Jersey to Promote Diversity in Neurosurgery: Is there A Benefit? Catherine Mazzola, MD	
9:40 am – 9:49 am	Q & A	
9:50 am – 10:04 am	Refreshment Break	<i>RC Ballroom Foyer</i>
10:05 am – 11:05 am	Session 7: Vascular/Firearm	
	Moderator: Sudhakar Vadivelu, MD	
10:05 am – 10:14 am	Abstract #20: Stereotactic Radiosurgery for AVMs in Children: A Single Institutional Experience Bradley Weprin MD, MHCM	
10:15 am – 10:24 am	Abstract #21: Early Childhood Stroke Rate in Sickle Cell Disease Complicated by Moyamoya Alfred Pokmeng See, MD	



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10:25 am – 10:34 am	Abstract #22: Management of Spontaneous Epidural Hematoma in the setting of Vaso-occlusive Crisis among Pediatric Patients with Sickle Cell Disease: A Case Series and Scoping Literature Review Andrew Kobets, MD, MHS	
10:35 am – 10:44 am	Abstract #23: Penetrating Cerebrovascular Injuries in a Pediatric Cohort of Intracranial Gunshot Wounds: Incidence, Characterization of Injury Type, and Clinical Outcomes Jerome Volk, MD	
10:45 am – 10:55 am	Q & A	
10:56 am – 11:04 am	Gun Safety Task Force Jonathan Martin, MD	
11:05 am – 12:30 pm	General Session 8: Hoffman Lecture	
11:05 am – 11:10 am	Recollections of Dr. Harold Hoffman Peter Dirks, MD	
11:10 am – 11:20 am	Introduction of the Hoffman Lecturer Jay Wellons, MD & Jonathan Martin, MD	
11:20 pm – 12:10 pm	Hoffman Lecturer: Ronny Stewart, MD	
12:10 pm – 12:30 pm	Q&A and adjourn for the day	
7:00 pm	Past President's Dinner (<i>invitation only</i>)	<i>Madero</i>

WEDNESDAY, JANUARY 29

7:00 am – 12:30 pm	Registration	<i>RC Ballroom Foyer</i>
7:00 am – 8:00 am	Fellowship Directors Meeting	<i>RC Ballroom AB</i>
7:00 am – 9:00 am	Breakfast for Registered Physicians & Registered Guests	<i>BLT Steak</i>
8:00 am – 8:49 am	Session 9: Presidential Style Controversial Topic Debate: “Brain Tumors: Open Resection, Molecular Therapies, and Laser Ablation”	<i>RC Ballroom AB</i>
	Debating Speakers: Lissa Baird, MD; Peter Dirks, MD; Zulma Tovar-Spinoza, MD; Paul Klimo, MD; Jeffrey Leonard, MD, Moderating Speaker: David Hersh, MD	
8:50 am – 9:50 am	Session 10: Tumors/Peripheral Nerve Moderator: TBD	



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- 8:50 am – 8:59 am Abstract #24: Local Drug Delivery into the Fourth Ventricle of the Brain to Treat Malignant Tumors of the Posterior Fossa
David I Sandberg, MD
- 9:00 am – 9:09 am Abstract #25: Outcomes and Immune Responses After Peptide Vaccination Targeting Human Cytomegalovirus Antigen pp65 in Children and Young Adults with Recurrent High-grade Glioma and Medulloblastoma: Results of a Phase 1 Trial
Eric M. Thompson, MD
- 9:10 am – 9:19 am Abstract #26: Immune Profiling Identifies CD44 as a Potential Therapeutic Target in Pediatric Ependymoma
Michael DeCuyper MD, PhD
- 9:20 am – 9:29 am Abstract #27: Incidence and Geographic Localization of Pediatric Central Nervous System Neoplasms in Suffolk County, New York
David Chesler, MD PhD
- 9:30 am – 9:39 am Abstract #28: An Update on Serial External Rotation Shoulder Spica Cast Application for Fixed Internal Rotation Contracture/Shoulder Dysplasia in Pediatric Patients with Brachial Plexus Birth Injuries
Kristen Stabingas, MD
- 9:40 am – 9:49 am Abstract #29: Revisiting the incidence and Associative Factors for Brachial Plexus Birth Injuries: A 2021-2023 Surveillance Study
Mandana Behbahani, MD
- 9:50 am – 10:00 am Q & A
- 10:00 am – 11:30 am **Annual ASPN Book Club: *The Hazelbourne Ladies Motorcycle Flying Club***
Hosted by Rebecca Weprin *Salon 1*
- 10:00 am – 10:14 am **Refreshment Break** *RC Ballroom Foyer*
- 10:15 am – 11:15 am **Session 11: Clinical/Technical Pearls: “Pro-Tips”**
Moderator: Kimberly Hamilton, MD
- 10:15 am – 10:22 am Abstract #30: Potentially Fatal Malfunction of the ROSA Stereotactic Robot
Jason E. Blatt, MD
- 10:23 am – 10:30 am Abstract #31: A Single Incision Method for VNS Removal
James Baumgartner, MD
- 10:31 am – 10:38 am Abstract #32: "Gravity Sling" for Prone Procedures
Mark A. Mittler, MD
- 10:39 am – 10:46 am Abstract #33: Spring-Assisted Cranioplasty for the Management of Nonsyndromic Metopic Craniosynostosis
Joseph Petronio, MD



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- 10:47 am – 10:54 am Abstract #34: Intraoperative Electromyography of Cranial Nerves to Reduce Risk of Neurologic Injury in Stereotactic Biopsy of Diffuse Intrinsic Pontine Glioma
Neena Marupudi, MD, MS
- 10:55 am – 11:02 am Abstract #35: The Art of the (W)rap
Alan R. Cohen, MD
- 11:03 am – 11:15 am Q & A
- 11:15 am – 11:34 am **Session 12: Washington Committee Update**
Washington Committee Update
Presenter: Katie Orrico
- 11:35 am – 11:40 am Q & A
- 11:40 am – 12:30 pm **Session 13: Presidential Address**
- 11:40 am – 11:50 am Introduction: Matthew Smyth, MD
11:50 am – 12:30 pm Presidential Address: Jay Wellons, MD

THURSDAY, JANUARY 30

- 7:00 am – 12:25 pm Registration *RC Ballroom Foyer*
- 7:00 am – 8:00 am Annual Business Meeting (*Members only*) *RC Ballroom AB*
- 7:00 am – 9:00 am Breakfast for Registered Physicians & Registered Guests *BLT Steak*
- 8:00 am – 9:00 am **Session 14: Influential Partners in Pediatric Neurosurgery** *RC Ballroom AB*
Moderator: Howard Weiner, MD
- 8:00 am – 8:10 am Abstract #36: Cryopreserved Human Umbilical Cord in the Treatment of Pediatric Tethered Cord Syndrome
Erin N Kiehna, MD, FAANS; Influential Partner: Tyler R. Richardson, MS, MBA
- 8:10 am – 8:14 am Q & A
- 8:15 am – 8:25 am Abstract #37: Translating Scientific Single Electrode Multi-neuron Systems into a Brain Computer Interface
Elizabeth C. Tyler-Kabara, MD PhD; Influential Partner: Joseph Kabara, PhD
- 8:25 am – 8:29 am Q & A
- 8:30 am – 8:40 am Abstract #38: Changing the Paradigm for Skull Base Tumors with Facial Nerve Weakness: Engineering a Soft Landing and Avoiding a Crash Landing
Violette M.R. Recinos, MD; Influential Partner: Pablo F. Recinos, MD
- 8:40 am – 8:44 am Q & A



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8:45 am – 8:55 am	Abstract #39: Leveraging Patient-reported Outcomes to Identify Patient Needs and Triage to Supportive Care Services Brandon Rocque, MD; Influential Partner: Gabrielle Rocque, MD
8:55 am – 8:59 am	Q & A
9:00 am – 10:00 am	Session 15: Pediatric Neurosurgical Pain Symposium Moderator: TBD
9:00 am – 9:19 am	Pain Procedures in the Pediatric Population: Indications and Efficacy Jeffrey Raskin, MD
9:20 am – 9:39 am	Pain Procedures in the Pediatric Population: Case Presentations Chima Oluigbo, MD
9:40 am – 9:55 am	Q&A
9:55 am – 10:09 am	Refreshment Break <i>RC Ballroom Foyer</i>
10:10 am – 11:15 am	Session 16: Functional/Stereotactic Moderator: Jarod Roland, MD
10:10 am – 10:09 am	Abstract #40: Selective Tibial Neurectomy for Treatment of Spastic Foot in a Pediatric Population Casey J. Madura, MD, MPH
10:20 am – 10:29 am	Abstract #41: Deep Brain Stimulation of the Nucleus Accumbens for Severe Self-Injurious Behavior in Children with Autism Spectrum Disorder: A Phase I Study George M Ibrahim, MD, PhD
10:30 am – 10:39 am	Abstract #42: Intraventricular Baclofen for the Treatment of Pediatric Spasticity in Cerebral Palsy: Technique and Outcomes Robert Kellogg, MD
10:40 am – 10:49 am	Abstract #43: First 100 MRI-Guided Laser Interstitial Thermoablation Cases. Institutional Experience at Rady Children’s Hospital of San Diego David D. Gonda, MD
10:50 am – 10:59 am	Abstract #44: Intraventricular Delivery of a Gene Therapy for Rett Syndrome: Preliminary Safety Data Scellig Stone, MD, PhD
11:00 am - 11:09 am	Q & A
11:10 am – 12:10 pm	Session 17: Epilepsy Moderator: Ian Mutchnick, MD
11:10 am – 11:19 am	Abstract #45: Neuromodulatory Focused Ultrasound Prevents Hippocampal Epileptic Network Development Through Activating GABAergic Neuronal Populations Whitney E. Parker, MD, PhD



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11:20 am – 11:29 am	Abstract #46: Cost Analysis of Open Versus Laser Interstitial Thermal Therapy Corpus Callosotomy for Medically Refractory Epilepsy in Children Matthew D. Smyth, MD	
11:30 am – 11:39 am	Abstract #47: Amygdala Seizures Cause Prolonged Apnea and Sudden Unexpected Death in Epilepsy (SUDEP) Brian J. Dlouhy, MD	
11:40 am – 11:49 am	Abstract #48: Thalamic Stereo EEG Exploration in Pediatric Drug-Resistant Epilepsy: Implantation Technique and Complications Angela V. Price, MD	
11:50 am – 11:59 am	Abstract #49: Use of Intra-Operative EEG During Corpus Callosotomy Michael Cools, MD	
12:00 pm – 12:09 pm	Abstract #50: Hemispherectomy in Infants: A Safe Procedure and Argument for Earlier Surgery in Selected Cases. A Review of 22 Patients Jason Hauptman MD, PhD	
12:10 pm – 12:25 pm	Q & A	
6:30 pm – 9:30 pm	ASPN Dinner	<i>Beach</i>

FRIDAY, JANUARY 31

7:00 am – 9:00 am	Breakfast for Registered Physicians & Registered Guests	<i>BLT Steak</i>
8:00 am – 9:00 am	Session 18: Epilepsy/Functional Moderator: Taylor Abel, MD	<i>RC Ballroom AB</i>
8:00 am – 8:09 am	Abstract #51: Bayesian Optimization in Stereoelectroencephalography (sEEG) and Resection Target Determination in Pediatric Epilepsy Surgery Joseph R. Madsen, MD	
8:10 am – 8:19 am	Abstract #52: The Surgeon's Role in Robot-assisted Stereoelectroencephalography Virendra R Desai, MD	
8:20 am – 8:29 am	Abstract #53: The Evolution of Epilepsy Surgery over 30 Years: A Retrospective Review of a Level 4 Comprehensive Pediatric Epilepsy Program Shelly Wang, MD MPH	
8:30 am – 8:39 am	Abstract #54: Excision of Right Temporo-occipital Polymicrogyria Causing Intractable Continuous Epilepsy in a 7-Week-Old Infant: Case Report Zachary G. Wright, MD FAANS	
8:40 am – 8:49 am	Abstract #55: Transcutaneous Vagus Nerve Stimulation Applied after Rodent Spinal Cord Injury Tomoko Tanaka, MD	



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8:50 am – 8:59 am	Q & A	
9:00 am – 10:00 am	Session 19: Craniofacial Moderator: Lance Governale, MD	
9:00 am – 9:09 am	Abstract #56: Concurrent Posterior Vault Expansion and Extradural Chiari Decompression in Syndromic and Non-Syndromic Craniosynostosis Shih-Shan Lang, MD	
9:10 am – 9:19 am	Abstract #57: Endoscopic-Assisted Suturectomy for Metopic Craniosynostosis: Operative Experience of 204 Cases and External Craniometric Measurements Steven Daws, MD	
9:20 am – 9:29 am	Abstract #58: Squamosal Suture Synostosis and Hydrocephalus: A Minor Suture with Major Implications Daphne Li, MD	
9:30 am – 9:39 am	Abstract #59: Implementation of a True Bloodless Surgery Craniofacial Protocol: The West Virginia University Experience Hal S. Meltzer, MD	
9:40 am – 9:49 am	Abstract #60: Impact and Demographic Analysis of a Newly Implemented Multidisciplinary Head Shape Clinic Krystal L Tomei, MD MPH	
9:50 am – 10:00 am	Q & A	
10:00 am – 10:14 am	Refreshment Break	<i>RC Ballroom Foyer</i>
10:15 am – 11:20 am	Session 20: Clinical/Technical Pearls: “Pro-Tips” Moderator: Ed Ahn, MD	
10:15 am – 10:22 am	Abstract #61: Radiofrequency Ablation of Residual Tumor Near Eloquent Cortex via SEEG Electrodes Joshua Chern MD/PhD	
10:23 am – 10:30 am	Abstract #62: Thalamic Responsive Neurostimulation for Epilepsy: Consider CM or Pulvinar If ANT is Ineffective Carrie R. Muh, MD, MS	
10:31 am- 10:38 am	Abstract #63: Hemorrhage Rates After Pediatric SEEG Implantation Daniel Hansen, MD	
10:39 am – 10:46 am	Abstract #64: Use of Cavum Septum to Allow for Novel Single Burr-hole Approach for ETV and Pineal Region Tumor Biopsy with a Rigid Endoscope Heather J. McCrea, MD, PhD	
10:47 am – 10:54 am	Abstract #65: Non-surgical Management of Hydrocephalus After Chiari I Decompression John S. Myseros, MD	



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- 10:55 am – 11:05 am Q & A
- 11:06 am – 12:05 pm **Session 21: Organization/Workflow**
Moderator: TBD
- 11:06 am – 11:15 am Abstract #66: A Multi-Tiered Approach to Global Neurosurgery
Michael L Levy MD PhD
- 11:16 am – 11:25 am Abstract #67: Development of a Post-SEEG Augmented Reality Workflow for Pediatric Epilepsy Surgery
Julia D. Sharma, MD
- 11:26 am- 11:35 am Abstract #68: Quality Improvement in Epilepsy Care: Analysis of WVU Medicine Registry Using ILAE Guidelines
P. David Adelson, MD
- 11:36 am – 11:45 am Abstract #69: Ready or Not, Here We Come! Increasing Volume and Acuity in the Non-Academic Regional Children’s Hospital
J. Gentry Savage, MD
- 11:46 am – 11:55 am Abstract #70: Establishing a Comprehensive Pediatric Neurosurgery Department in a New Hospital in Austin
Daxa M. Patel, MD
- 11:56 am – 12:05 pm Q & A and Meeting Adjourns

Jay Wellons and Neena Marupudi would like to thank the 2025 Scientific Program Committee Members for their contribution to the program: Shih-Shan Chen, Hal Meltzer, Carolyn Quinsey, Heather Spader, Eric Thompson and Elizabeth Tyler-Kobara