# 2020 Pediatric Section Annual Meeting

## Program at a Glance

### Wednesday, December 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00 pm - 4:30 pm</td>
<td>Advanced Practitioner Seminar</td>
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<tr>
<td>1:00 pm - 1:10 pm</td>
<td>Chair Address and Welcome</td>
</tr>
<tr>
<td>1:10 pm - 3:30 pm</td>
<td>Scientific Session I: Tumor</td>
</tr>
<tr>
<td>3:30 pm - 4:30 pm</td>
<td>Fellows Scientific Showcase</td>
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<tr>
<td>4:30 pm - 5:30 pm</td>
<td>Opening Reception</td>
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### Thursday, December 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00 pm - 2:00 pm</td>
<td>AAP/SONS Session</td>
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<tr>
<td>1:00 pm - 4:30 pm</td>
<td>Scientific Showcase</td>
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<tr>
<td>2:00 pm - 4:30 pm</td>
<td>Scientific Session II: Functional Topics</td>
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<tr>
<td>4:30 pm - 5:30 pm</td>
<td>Meet the Leadership</td>
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### Friday, December 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00 pm - 1:00 pm</td>
<td>Noon Report</td>
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<tr>
<td>1:00 pm - 2:33 pm</td>
<td>Scientific Session III: Socioeconomic: Racial Equity, Social Equity, COVID-19 and Pediatric Neurosurgery</td>
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<tr>
<td>2:33 pm - 4:00 pm</td>
<td>Scientific Session IV: Trauma/Critical Care - Hydrocephalus</td>
</tr>
<tr>
<td>4:00 pm - 4:15 pm</td>
<td>Closing Remarks</td>
</tr>
</tbody>
</table>
1:00 pm - 1:03 pm
Welcome to Session
Amanda Breedt, ARNP; Han Nguyen, PA; Andrea Sloan, PA; Elizabeth Haley Vance, DNP, APRN, CPNP-AC

1:04 pm - 1:18 pm
Spine - NeuroRadiology: Key imaging and pearls
Samuel G. McClugage III, MD

1:19 pm - 1:33 pm
Cervical Spine Injuries in Peds
Douglas L. Brockmeyer, MD, FAANS

1:34 pm - 1:48 pm
Thoracic/Lumbar Spine Injuries in Peds
Christopher Michael Bonfield, MD, FAANS

1:49 pm - 1:54 pm
Question and Answer Session with Speakers
Elizabeth Haley Vance, DNP, APRN, CPNP-AC

1:55 pm - 1:56 pm
APP Highlight Video – NSGY Support of APPs Neurosurgeons for APP Support/Thank-you Video
Video

1:57 pm - 2:11 pm
Tumor - NeuroRadiology: Key Imaging and Pearls
Francisco A. Perez, MD, PhD

2:12 pm - 2:26 pm
Tumors
Peter Anthony Chiarelli, MD, PhD

2:27 pm - 2:41 pm
Treatment Updates/Proton Therapy
Ralph P. Ermoian, MD

2:42 pm - 2:47 pm
Question and Answer Session with Speakers
Amanda Breedt, ARNP; Andrea Sloan, PA

2:48 pm - 2:58 pm
Break

2:59 pm - 3:13 pm
ETV/CPC
Jay K. Riva-Cambrin, MD, FAANS, MSc, FRCSC (Canada)
3:14 pm - 3:28 pm  
**Shunts – Programmable vs. Non-Programmable**  
Jason K. Chu, MD

3:29 pm - 3:43 pm  
**Hydrocephalus Case Presentation**  
Todd Cameron Hankinson, MD, MBA, FAANS

3:44 pm - 3:49 pm  
**Question and Answer Session with Speakers**  
Han Nguyen, PA

3:50 pm - 3:51 pm  
**APP Highlight Video – APPs and Roles Outside of NSGY**  
Video

3:52 pm - 4:06 pm  
**Epilepsy - NeuroRadiology: Key imaging and pearls**  
Jason Wright, MD

4:07 pm - 4:21 pm  
**New Surgical Options – Laser, SEEG, RNS, etc.**  
Jeffrey G. Ojemann, MD, FAANS

4:22 pm - 4:27 pm  
**Question and Answer Session with Speakers**  
Patti L. Batchelder, RN MS CPNP

4:28 pm - 4:30 pm  
**Closing Remarks**  
Elizabeth Haley Vance, DNP, APRN, CPNP-AC
## ANNUAL MEETING PROGRAM SCHEDULE

### WEDNESDAY, DECEMBER 2

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>1:00 pm - 1:10 pm</td>
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<td>1:10 pm - 3:30 pm</td>
<td><strong>Scientific Session I: Tumor</strong></td>
</tr>
</tbody>
</table>
| 1:10 pm - 1:20 pm | **Surgically Relevant Clinical Trials being Conducted by Pediatric Neuro-oncology Consortia**  
                      | Kathleen Dorris, MD                                                   |
| 1:21 pm - 1:31 pm | **Influential Research Publication(s) in Pediatric Neurosurgical Oncology**  
                      | Nalin Gupta, MD, PhD, FAANS                                          |
| 1:32 pm - 1:40 pm | **Question and Answer Session - Papers Discussion**                  |
| 1:41 pm - 1:46 pm | **High Dose MTX110 (Soluble Panobinostat) Safely Administered into the Fourth Ventricle in a Non-human Primate Model**  
                      | Natasha Kharas                                                       |
| 1:47 pm - 1:52 pm | **Integrative Multi-omic Analyses Of MSI1 Function In Brain Cancer Reveal Context-specific Downstream Targets For Drug Discovery**  
                      | Michelle Kameda-Smith, MD (Canada)                                   |
| 1:53 pm - 1:56 pm | **Epigenomic Landscape and 3D Genome Structure in Pediatric High-Grade Glioma**  
                      | Amanda Muhs Saratsis, MD                                              |
| 1:57 pm - 2:00 pm | **Chicken Embryo Chorioallantoic Membrane (CAM) Assay As A Xenograft Model For Treatment Of H3K27M-Mutant Diffuse Midline Glioma**  
                      | Erica A. Power                                                      |
| 2:01 pm - 2:02 pm | **Expert in the Field: Abstract Summary**                            
                      | Mark M. Souweidane, MD, FAANS                                       |
| 2:02 pm - 2:07 pm | **Question and Answer Session with Abstract Authors**                |
| 2:07 pm - 2:22 pm | **Break**                                                            |
| 2:22 pm - 2:32 pm | **Presentation of a Child with a Tumor in the 4th Ventricle**        
                      | Paul Klimo Jr., MD, FAANS                                            |
| 2:32 pm - 2:34 pm | **Commentary**                                                       
                      | Samuel H. Cheshier, MD, PhD, FAANS; Annie Drapeau, MD, FAANS; David I. Sandberg, MD, FAANS |

2020 Pediatric Section Annual Meeting
2:34 pm - 2:39 pm
Question and Answer Session with Speaker

2:40 pm - 2:45 pm
Patient-Matched Molecular Comparison of Primary and Relapsed Medulloblastoma
Rahul Kumar

2:46 pm - 2:51 pm
Disulfiram and Copper Combination Therapy Prolongs Survival in Group 3 Medulloblastoma Through NPL-4 Inhibition
Riccardo Serra, MD

2:52 pm - 2:55 pm
Subgroup Divergence at Medulloblastoma Relapse
Rahul Kumar

2:56 pm - 2:57 pm
Expert in the Field: Abstract Summary
David I. Sandberg, MD, FAANS

2:57 pm - 3:02 pm
Question and Answer Session with Abstract Authors

3:02 pm - 3:07 pm
Postoperative MR Imaging Surveillance of Pediatric Craniopharyngioma: New Institutional Guidelines
Mohammed Fouda, MD

3:08 pm - 3:13 pm
Applications of Endoscopic Endonasal Surgery in Early Childhood
Michael M. McDowell, MD

3:14 pm - 3:19 pm
Adamantinomatous Craniopharyngioma Cyst Fluid May Promote Inflammation And Epithelial-to-Mesenchymal Transition In The Tumor Microenvironment.
Trinka Vijmasi, MD

3:20 pm - 3:23 pm
Quantitative MR Imaging Features Associated with Unique Transcriptional Characteristics in Pediatric Adamantinomatous Craniopharyngioma: A Potential Guide for Therapy
Eric Prince

3:24 pm - 3:25 pm
Expert in the Field: Abstract Summary
Phillip B. Storm, MD, FAANS

3:25 pm - 3:30 pm
Question and Answer Session with Abstract Authors

3:30 pm - 4:30 pm
Fellows Scientific Showcase

3:30 pm - 3:31 pm
Introduction to Session
Mark D. Krieger, MD, FAANS

3:31 pm - 3:36 am
Fellowship Training in Pediatric Neurosurgery
Cormac O. Maher, MD, FAANS

2020 Pediatric Section Annual Meeting
3:36 pm - 3:37 pm  
**Introduction**  
Daniel A. Donoho, MD

3:37 pm - 3:40 pm  
**Enhancing Drug Delivery To The Brain with Laser Interstitial Thermal Therapy (LITT) And Augmenting Tumor Kill Effect Of Heat With Proteasome Inhibitors.**  
Afshin Salehi, MS, MD

3:40 pm - 3:41 pm  
**Introduction**  
Ziyad Abdullah Makoshi

3:41 pm - 3:44 pm  
**A human stem cell approach to understanding medulloblastoma initiation and maintenance**  
Jignesh Kishor Tailor, MD, PhD (Canada)

3:44 pm - 3:45 pm  
**Introduction**  
Yasunori Nagahama, MD

3:45 pm - 3:48 pm  
**Impact of COVID-19 Pandemic on Presentation of Central Nervous System Tumors to the Pediatric Neurosurgery Service Requiring Surgical Intervention**  
Laila Malani Mohammad, MD

3:49 pm - 3:52 pm  
**Intraoperative Neuromonitoring Potentials Show Evidence of Preserved Neuronal Circuitry Below the Anatomical and Functional Level in Complex Spinal Dysraphism Patients Undergoing Re-operation Detethering**  
Hannah E. Goldstein, MD

3:52 pm - 3:53 pm  
**Introduction**  
Laurence Davidson, MD, FAANS

3:53 pm - 3:56 pm  
**The Burden Of Chronic Back Pain In Adult Patients With Open And Closed Spinal Dysraphism**  
Lauren Simpson, MD

3:56 pm - 3:59 pm  
**Patient Reported Outcomes in Spinal Column Shortening in Children**  
Virendra R. Desai, MD

3:59 pm - 4:02 pm  
**Spinal Cord Shortening for Tethered Cord Syndrome: A Case Series**  
Ahmed Mostafa Belal, MD

4:02 pm - 4:05 pm  
**Question and Answer Session with Fellows**

4:05 pm - 4:06 pm  
**Introduction**  
Alfred Pokmeng See, MD

4:06 pm - 4:09 pm  
**Building Consensus For The Medical Management Of Children With Moderate And Severe Acute Spinal Cord Injury (SCI): A Modified Delphi Study**  
Nikita G. Alexiades, MD
4:09 pm - 4:10 pm
Introduction
Meleine Martinez Sosa, MD

4:10 pm - 4:13 pm
Removal of Subdural-peritoneal Shunt After Resolution of Subdural Hematoma
Khoi Nguyen, MD

4:13 pm - 4:14 pm
Introduction
Joslyn Iman Woodard, MD

4:14 pm - 4:17 pm
Global Geographic Variations In Outcomes For Deep Brain Stimulation For Childhood Dystonia
Kerry Vaughan, MD (Canada)

4:17 pm - 4:18 pm
Introduction
Derek Yecies, MD

4:18 pm - 4:21 pm
The Evolution Of Epilepsy Surgery Over Three Decades: A Comprehensive Retrospective Review Of A Quaternary Pediatric Epilepsy Surgical Program
Mostafa Shahein, MD

4:21 pm - 4:24 pm
Time Static Tagging And Mono-contrast Preservation MRI As A Diagnostic Tool For Chiari Malformation

4:24 pm - 4:27 pm
Factors Underlying Postnatal Outcomes in Fetal Occipital Encephalocele: The Development Of Imaging-Based Prediction Parameters
Smruti K. Patel, MD

4:27 pm - 4:30 pm
Question and Answer Session with Fellows

4:30 pm - 5:30 pm
Opening Reception
ANNUAL MEETING PROGRAM SCHEDULE
THURSDAY, DECEMBER 3

1:00 pm - 4:30 pm
Scientific Showcase

1:00 pm - 1:28 pm
Scientific Showcase: Top Abstract Discussion - Developmental Anomalies Panel

1:00 pm - 1:02 pm
Welcome to the Scientific Showcase
Session Moderators

1:02 pm - 1:23 pm
A Twenty-Five Year Single Center Retrospective Analysis of Surgically Treated Pediatric Chiari I Malformations
Eric M. Nturibi

1:02 pm - 1:23 pm
Mendelian Randomization Enables Causal Inference of Infectious Disease Traits on Hydrocephalus and CSF Shunt Failure
Andrew T. Hale, PhD

1:02 pm - 1:23 pm
Prophylactic Antiepileptic Administration Significantly Reduces Postoperative Seizures In Patients Undergoing ETV/CPC
Randaline Barnett, MD

1:02 pm - 1:23 pm
Revision Chiari Surgery in Young Children: Predictors and Outcomes
John Chae

1:02 pm - 1:23 pm
Sociodemographic Disparities In Fetal Surgery For Myelomeningocele: Single Center Retrospective Review
Andrew B. Foy, MD, FAANS

1:23 pm - 1:28 pm
Break

1:28 pm - 1:54 pm
Scientific Showcase: Top Abstract Discussion - Functional Anomalies Panel

1:28 pm - 1:49 pm
Comparison Of ROSA And Stealth AutoGuide Robot-Assisted SEEG Implantation
Robert Sickler III

1:28 pm - 1:49 pm
Initial Results from a Phase 1 Study of ABI-009 (nab-sirolimus) for Surgically-Refractory Epilepsy (RaSuRE)
Hannah E. Goldstein, MD

1:28 pm - 1:49 pm
Magnetic Resonance–Guided Laser Interstitial Thermal Therapy for Pediatric Periventricular Nodular Heterotopia Related Epilepsy
Vijay Mysore Ravindra, MD

1:28 pm - 1:49 pm
Vagus Nerve Stimulation In Children With Lennox-Gastaut Syndrome: 20-Year Retrospective Review
Jerry Garcia-Medrano

2020 Pediatric Section Annual Meeting
1:28 pm - 1:49 pm
Variation in Pediatric Stereoelectroencephalography Practice Among Pediatric Neurosurgeons in the United States- Survey Results
Benjamin C. Kennedy, MD

1:49 pm - 1:54 pm
Break

1:54 pm - 2:20 pm
Scientific Showcase: Top Abstract Discussion - Tumor/Neoplasms Panel

1:54 pm - 2:15 pm
Clinical Features, Neurologic Recovery, and Risk Prediction of Post-Operative Posterior Fossa Syndrome
Rahul Kumar

1:54 pm - 2:15 pm
Management Strategies for Recurrent Pediatric Craniopharyngioma: New Recommendations
Mohammed Fouda, MD

1:54 pm - 2:15 pm
Mutational and Gene Expression Landscapes of Two Novel Sonic-Hedgehog Medulloblastoma Sub-Subgroups in Children Under Five Years
Peter Adidharma (Indonesia)

1:54 pm - 2:15 pm
Predictors Of Seizure Freedom In Pediatric Low Grade Gliomas
Virendra R. Desai, MD

1:54 pm - 2:15 pm
The Phenotypic and Epigenetic Impact of SMARCB1 Restoration in Atypical Teratoid Rhabdoid Tumor
Cody Lee Nesvick, MD

2:15 pm - 2:20 pm
Break

2:20 pm - 2:46 pm
Scientific Showcase: Top Abstract Discussion - Socioeconomic Panel

2:20 pm - 2:41 pm
Comprehensive Policy Recommendations for the Treatment of Hydrocephalus and Spina Bifida in Low-and Middle Income Countries
Kathrin Zimmerman

2:20 pm - 2:41 pm
Representation of Women in the AANS/CNS Pediatrics Section & Annual Meetings
Gabrielle Johnson

2:20 pm - 2:41 pm
Rural-Urban Disparities and the Effects of Institutional Care Volume for Pediatric Traumatic Brain Injury Outcome
Pious D. Patel

2:20 pm - 2:41 pm
Standardization of Cerebrospinal Fluid Shunt Valves in Pediatric Hydrocephalus: An Analysis of Cost, Operative Time, Length of Stay, and Shunt Failure
Jessica Berns

2:20 pm - 2:41 pm
The Cost of a Concussion in American High School Football
Aaron Michael Yengo-Kahn, MD

2020 Pediatric Section Annual Meeting
2:41 pm - 2:46 pm
Break

2:46 pm - 3:12 pm
Scientific Showcase: Top Abstract Discussion - Spine Panel

2:46 pm - 3:07 pm
Diagnostic Accuracy Of An Abbreviated STIR Magnetic Resonance Imaging Sequence In Pediatric Spine Trauma
Christina Mieko Sayama, MD, MPH, FAANS

2:46 pm - 3:07 pm
Epidural Analgesia Reduces Postoperative Systemic Opioid Use Following Selective Dorsal Rhizotomy in Children
Madeline Karsten, BA

2:46 pm - 3:07 pm
Magnetic Resonance–Guided Laser Interstitial Thermal Therapy for Palliative Rhizotomy: A Novel Technical Application
Vijay Mysore Ravindra, MD

2:46 pm - 3:07 pm
Protocol-Driven Early Tracheal Extubation in Patients with Flaccid Neuromuscular Scoliosis and Pre-Existing Lung Disease
Jeffrey Bejan Hatef Jr., MD

2:46 pm - 3:07 pm
Risk Factors for Proximal Junctional Kyphosis (PJK) in Pediatric Deformity Patients Treated with Halo Gravity Traction (HGT) and Posterior Spinal Fusion (PSF)
Amir Amanullah

3:07 pm - 3:12 pm
Break

3:12 pm - 3:38 pm
Scientific Showcase: Top Abstract Discussion - Technical Advances Panel

3:12 pm - 3:33 pm
Comparison Of 2D Head Photography To Caliper And Optical Scanning For Assessing Craniometrics
Nathan Leclair

3:12 pm - 3:33 pm
Design and Testing of High Resistance Ventricular Catheters: An Initial Feasibility Study
Elsa Olson

3:12 pm - 3:33 pm
Pediatric Neurosurgical Care during the COVID-19 Pandemic: A Single Institutional Review
Katherine Kelly

3:12 pm - 3:33 pm
Postinfectious Hydrocephalus as an Infectious Disease Epidemic
Steven J. Schiff, MD, PhD, FAANS

3:12 pm - 3:33 pm
Stereo-electroencephalography (sEEG) in Pediatric Epilepsy Surgery: A 5-year Single-center Experience
Jean-Paul Bryant

3:33 pm - 3:38 pm
Break
3:38 pm - 4:04 pm
Scientific Showcase: Top Abstract Discussion - Trauma Panel

3:38 pm - 3:59 pm
Comparison of the Infant Face Scale to the Pediatric Glasgow Coma Scale for Predicting Neurologic Severity and Outcome in Children < Two Years of Age
Sarah H. Newman, MD

3:38 pm - 3:59 pm
Explanations for Racial Disparities in Childhood TBI Mortality: An Oaxaca-Blinder Deconstruction of Trauma Quality Improvement Program Data
Joseph H. Piatt Jr., MD, FAANS

3:38 pm - 3:59 pm
Long-term Functional Outcome Following Surgical Intervention for Pediatric Abusive Head Trauma
Jordan Bozer

3:38 pm - 3:59 pm
Protocolized management of isolated linear skull fractures at a Level 1 pediatric trauma center
Rebecca Anne Reynolds, MD

3:38 pm - 3:59 pm
Sex Differences in the Incidence, Severity, and Recovery of Concussion in Adolescent Student-Athletes from 2009-2019
Theodore Hannah

3:59 pm - 4:04 pm
Break

4:04 pm - 4:30 pm
Scientific Showcase: Top Abstract Discussion - Vascular/History/APP Panel

4:04 pm - 4:25 pm
Accuracy of Identifying Pediatric Craniofacial Abnormalities Requiring Surgical Intervention Through the Assessment of Caregiver Provided Photographs
Alexander Cheong (Canada)

4:04 pm - 4:25 pm
Brainstem Cavernous Malformations in the Pediatric Population: Natural History in Conservative vs. Operative Management
Coleman Riordan

4:04 pm - 4:25 pm
Hemispherectomy in Children with Epilepsy: A 10 Year Review
Wen Sha

4:04 pm - 4:25 pm
Initial Ventricleomegaly and Clot Volume Predicts Persistent Ventricular Dilatation in Piglet Model of Post-Hemorrhagic Hydrocephalus (PHH)
Grace Yee Yan Lai, MD

4:04 pm - 4:25 pm
Pediatric Subdural Empyema: A 10 Year Single Center Review
Laquata Boswell

4:04 pm - 4:25 pm
Research Productivity Of Pediatric Neurosurgeons In Canada
Farhan Mahmood (Canada)
4:25 pm - 4:30 pm

Break

1:00 pm - 2:00 pm

AAP/SONS Session

1:00 pm - 1:04 pm

Introduction of AAP/SONS Lecturer
Jonathan E. Martin, MD, FAANS

1:05 pm - 1:32 pm

AAP/SONS Lecture: Pediatrics - A Bright Future
Sara H. Goza, MD

1:33 pm - 2:00 pm

Interactive Question and Answer Session with AAP/SONS Lecturer

2:00 pm - 4:30 pm

Scientific Session II: Functional Topics

2:00 pm - 2:03 pm

Introduction to Session
Sandi K. Lam, MD, FAANS ; Brandon G. Rocque, MD, MS, FAANS

2:04 pm - 2:07 pm

Does Ventricle Size Contribute to Cognitive Outcomes in Post-Hemorrhagic Hydrocephalus: Importance of Early Definitive Intervention
Mounica Reddy Paturu

2:07 pm - 2:11 pm

Presentation, Management, and Outcome of Pediatric Thoracic Outlet Syndrome
Vineeth Thirunavu

2:11 pm - 2:15 pm

Surgical Outcomes of Revision Peri-Insular Hemispherotomy: A Single Institution Experience
Mohammed Omar Iqbal, MD

2:15 pm - 2:19 pm

Epilepsy Surgery in Young Children with Tuberous Sclerosis Complex: A Novel Hybrid Multimodal Surgical Approach
Vijay Mysore Ravindra, MD

2:19 pm - 2:23 pm

Complications Of Intrathecal Baclofen Therapy In Children And Young Adults
Megan Victoria Ryan

2:23 pm - 2:28 pm

Question and Answer Session with Abstract Authors

2:28 pm - 2:33 pm

#HalloweenChallenge Presentation and Awards
Sandi K. Lam, MD, FAANS

2:33 pm - 2:46 pm

Wireless, Skin-Like Biosensors for Pediatric Intensive Care
John A. Rogers, PhD

2:46 pm - 2:50 pm

Question and Answer Session with Speaker

2020 Pediatric Section Annual Meeting
2:50 pm - 3:03 pm
Break

3:03 pm - 3:07 pm
Patterns of Anti-Epileptic Drug Reduction after Resective Epilepsy Surgery in Children: A Nationwide Cross-Sectional Cohort Analysis
Jonathon J. Parker, MD, PhD

3:07 pm - 3:11 pm
Vagus Nerve Stimulation After Failed Cranial Epilepsy Surgery In Pediatric Patients
Nathan A. Shlobin

3:11 pm - 3:15 pm
Genome-Wide Association Study Identifies Genetic Risk Factors for Cerebral Palsy
Andrew T. Hale, PhD

3:15 pm - 3:19 pm
Single Center Cost Comparison Analysis Of Stereotactic Electroencephalography To Subdural Grid And Strip Implantation
Afshin Salehi, MS, MD

3:19 pm - 3:23 pm
Responsive Neurostimulation in Pediatric Drug-Resistant Epilepsy
Peter F. Morgenstern, MD

3:23 pm - 3:28 pm
Question and Answer Session with Abstract Authors

3:31 pm - 3:34 pm
Technique and Complication - Complex Case Discussion Panel: “How I Do It” Selective Dorsal Rhizotomy: Surgical Technique Variations
Michael David Partington, MD, FAANS

3:34 pm - 3:37 pm
Technique and Complication - Complex Case Discussion Panel: “How I Do It” Selective Dorsal Rhizotomy: Surgical Technique Variations
Robert John Bollo, MD, FAANS

3:37 pm - 3:40 pm
Technique and Complication - Complex Case Discussion Panel: “How I Do It” Selective Dorsal Rhizotomy: Surgical Technique Variations
Samuel R. Browd, MD, PhD, FAANS

3:40 pm - 3:43 pm
Technique and Complication - Complex Case Discussion Panel: “How I Do It” Selective Dorsal Rhizotomy: Surgical Technique Variations
Corbett Wilkinson, MD, FAANS

3:43 pm - 3:48 pm
Question and Answer Session with Speakers

3:48 pm - 3:52 pm
Microglial Replacement As A Novel Cellular Delivery Platform For Neurodevelopmental Disorders
Kevin K. Kumar, MD, PhD

3:52 pm - 3:56 pm
Improvement In Cognitive Performance After Surgical Decompression For Chiari 1 Malformation - A Prospective Study
Scott Seaman, MD

2020 Pediatric Section Annual Meeting
3:56 pm - 4:00 pm
Spinal Column Shortening for Secondary Tethered Cord Syndrome: Urodynamic and Patient-Reported Outcomes in Children and Transitional Adults
Luke McVeigh

4:00 pm - 4:04 pm
Responsive Neurostimulation In Pediatric Epilepsy: A Multi-Center Retrospective Study
Yasunori Nagahama, MD

4:04 pm - 4:09 pm
Question and Answer Session with Abstract Authors

4:09 pm - 4:13 pm
Neurologic and Clinical Outcomes in Infants and Children With a Fetal Diagnosis of AVID Complex
Natalie Limoges, DO

4:13 pm - 4:17 pm
Quality of Life and Satisfaction in Surgical versus Conservative Treatment of Non-Syndromic Children with Craniosynostosis
Nicholas Sader, MD (Canada)

4:21 pm - 4:25 pm
Radiographic Predictors of Clinical Presentation and Outcome in Chiari I Malformation
Eric Montgomery

4:25 pm - 4:30 pm
Question and Answer Session with Abstract Authors

4:30 pm - 5:30 pm
Meet the Leadership
<table>
<thead>
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<th>Event</th>
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<tbody>
<tr>
<td>12:00 pm - 1:00 pm</td>
<td>Noon Report</td>
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<tr>
<td></td>
<td>Neurosurgical Challenges in Neurofibromatosis Type 1: Novel Horizons in the Era of MEK Inhibition.</td>
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<tr>
<td>1:00 pm - 2:33 pm</td>
<td>Scientific Session III: Socioeconomic: Racial Equity, Social Equity, COVID-19 and Pediatric Neurosurgery</td>
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<tr>
<td>1:00 pm - 1:10 pm</td>
<td><strong>Featured Talk: Racial equity in Pediatric Neurosurgery</strong></td>
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<td>O. Adetola Roberts, MD, FAANS</td>
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<tr>
<td>1:10 pm - 1:17 pm</td>
<td><strong>Featured Talk: Socioeconomic Equity in Pediatric Neurosurgery</strong></td>
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<td>Jeffrey P. Blount, MD, FAANS</td>
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<tr>
<td>1:17 pm - 1:24 pm</td>
<td><strong>Featured Talk: Socioeconomic Equity in Pediatric Neurosurgery</strong></td>
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<td>Lauren Simpson, MD</td>
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<td>1:24 pm - 1:28 pm</td>
<td><strong>Featured Talk/Panel - How COVID-19 Impacted Resident Education</strong></td>
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<td>Jared Michael Robichaux, MD</td>
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<tr>
<td>1:28 pm - 1:32 pm</td>
<td><strong>Featured Talk/Panel - How COVID-19 Impacted Resident Education</strong></td>
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<td>Yosef Dastagirzada, MD</td>
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<tr>
<td>1:32 pm - 1:36 pm</td>
<td><strong>Featured Talk/Panel - How COVID-19 Impacted Resident Education</strong></td>
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<td>Constantine Karras, MD</td>
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<td>1:36 pm - 1:40 pm</td>
<td><strong>Featured Talk/Panel - How COVID-19 Impacted Resident Education</strong></td>
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<td></td>
<td>Rajeev Deb Sen, MD</td>
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<td>1:40 pm - 1:50 pm</td>
<td><strong>Break</strong></td>
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<tr>
<td>1:40 pm - 1:50 pm</td>
<td><strong>Question and Answer Session with Speakers</strong></td>
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<tr>
<td>1:50 pm - 1:55 pm</td>
<td><strong>Cerebral Revascularization Reduces Stroke in Sickle Cell Disease with Moyamoya Syndrome: Preliminary Results of the Stroke in Sickle Cell Revascularization Study (SiSCRS)</strong></td>
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<td>Philipp R. Aldana, MD, FAANS</td>
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<td>1:55 pm - 1:59 pm</td>
<td><strong>The Hydrocephalus Clinical Research Network: Evaluating Over a Decade of Progress</strong></td>
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<td>Rahul Kumar</td>
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<td>1:59 pm - 2:03 pm</td>
<td><strong>Implementation Of Telemedicine In Pediatric Neurosurgical Practice During The COVID-19 Pandemic: Does Virtual Care Perpetuate Health Care Disparities?</strong></td>
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<td>Randaline Barnett, MD</td>
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2:03 pm - 2:07 pm  
**Racial And Socioeconomic Disparities In Access To Surgical Care For Spasticity In Children**  
Eric Thomas Metzman

2:07 pm - 2:11 pm  
**Medical Malpractice Litigation Arising from Cerebrospinal Fluid Diversion**  
Jeffrey Bejan Hatef Jr., MD

2:11 pm - 2:15 pm  
**Resident Operative Experience in Pediatric Neurosurgery Across the United States**  
Rahul Kumar

2:15 pm - 2:19 pm  
**Hogs for the Cause: Helping the Impacted**  
Becker Hall

2:19 pm - 2:23 pm  
**Hogs for the Cause: Helping the Impacted**  
Rene A. Louapre

2:23 pm - 2:33 pm  
**Break**

2:23 pm - 2:33 pm  
**Question and Answer Session with Abstract Authors and Speakers**

2:33 pm - 4:00 pm  
**Scientific Session IV: Trauma/Critical Care - Hydrocephalus**

2:33 pm - 2:48 pm  
**Follow the Patient -Interactive case-discussion following a patient from entering the ER through the full continuum of care: COVID-19 and Pediatric Neurosurgery.**  
Jerome Milton Volk III, MD

2:48 pm - 2:52 pm  
**Question and Answer Session with Speakers**

2:52 pm - 2:56 pm  
**Prevalence of Subdural Hematomas in Pediatric Patients with Benign Expansion of the Subarachnoid Spaces**  
Katherine G. Holste, MD

2:56 pm - 3:00 pm  
**The "Brain Stethoscope": A Non-Invasive Method for Detecting Elevated Intracranial Pressure (An Expanded Trial)**  
Nathan Kostick

3:00 pm - 3:04 pm  
**Sport Participation Following Craniosynostosis Correction: A Survey Study**  
Aaron Michael Yengo-Kahn, MD

3:04 pm - 3:08 pm  
**Multi-Center Validation of the Condylar-C2 Sagittal Vertical Alignment (C-C2SVA) in Chiari I Malformation: A Study Utilizing the Park-Reeves Syringomyelia Research Consortium**  
Vijay Mysore Ravindra, MD

3:08 pm - 3:12 pm  
**Clinical Significance of Craniovertebral Joint Anomalies in Chiari I Malformation**  
Eric Montgomery
Routine Use Of Intradural Tonsillar Coagulation (Tonsillopexy) In Pediatric Chiari Decompression Surgery Results In Longer Hospital Stays And Increased Anti-emetic Use.
Ryan James Jafrani, MD

Question and Answer Session with Abstract Authors

Hydrocephalus Surveillance: A Survey of Surgeons in the Hydrocephalus Clinical Research Network
David S. Hersh, MD

Alterations in Brain Structure Underlie Genetic Risk of Hydrocephalus
Andrew T. Hale, PhD

Investigation Of Non-invasive, Bedside Measurements Of Intracranial Pressure In Infant Hydrocephalus
Tracy Ma Flanders, MD

Comparing Anterior and Posterior Entry Site for CSF Shunt Insertion: An HCRN Randomized Trial
William E. Whitehead, MD, MPH, FAANS

Question and Answer Session with Abstract Authors

Complement Activation Leads to Worse Cognitive Outcomes Following Germinal Matrix Hemorrhage in a Chronic Mouse Model
Mohammed Alshareef, MD

Programmable Shunt Valves Can Be Investigated Accurately Using Smartphones
Smruti K. Patel, MD

Does Hemorrhage After Proximal Shunt Revision Predict Subsequent Shunt Failure.
Karl Erach Balsara, MD

Treatment Strategies for Dandy-Walker Malformation-Related Hydrocephalus: Evaluating Procedure Selection and Success Within the Hydrocephalus Clinical Research Network
Aaron Michael Yengo-Kahn, MD

Break

Question and Answer Session with Abstract Authors

Closing Remarks
This course is supported by an educational grant from Medtronic.

Exhibitors

- Brainlab
- LivaNova
- RosmanSearch, Inc.
- ClearPoint Neuro, Inc.
- DePuy Synthes
- Integra LifeSciences
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