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**FINAL PROGRAM**

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**Sunday, January 30<sup>th</sup>**

3:00 pm – 4:00 pm	Registration	<i>Ocean Ballroom Foyer</i>
5:00 pm -7:00 pm	Welcome Reception <i>Guest Introductions given during the Reception at 6:00 pm</i>	<i>Ocean Lawn</i>

**Monday, January 31<sup>st</sup>**

7:00 am – 12:00 pm	Registration	<i>Ocean Ballroom Foyer</i>
7:00 am – 9:00 am	Breakfast for Registered Physicians and Registered Guests	<i>Noe Restaurant</i>
8:00 am – 8:15 am	Welcoming Remarks John Ragheb, MD	
<b>8:15 am – 9:40 am</b>	<b>Special Session I: Craniofacial Point-Counterpoint</b>  <b><i>Posterior Distraction for Chiari Malformation, Really?</i></b> <b>Moderator: Caitlin Hoffman, MD</b>	<b><i>Ocean Ballroom</i></b>
8:15 am – 8:25 am	Point Julie Chen, MD	
8:26 am – 8:36 am	Counterpoint Dale Swift, MD	
8:36 am – 8:56 am	Q&A  <b><i>The Endgame: Endoscopic versus Open for Sagittal and Metopic Synostosis</i></b> <b>Moderator: Peter Sun, MD</b>	
8:57 am – 9:07 am	Point Nate Selden, MD	
9:08 am – 9:18 am	Counterpoint Suresh Magge, MD	
9:19 am – 9:39 am	Q&A	
9:40 am – 10:00 am	Beverage Break	<i>Ocean Ballroom Foyer</i>

ASPEN thanks the Scientific Planning Committee for their contribution to this program: Matthew Adamo, Kurtis Auguste, Lissa Baird, Chris Bonfield, Julie Chen, Dave Daniels, Holly Gilmer, Stephanie Green, Mari Groves, Caitlin Hoffman, Steve Hwang, Kelly Mahaney, Neena Marupudi, Jonathan Pindrik and Eric Thompson.



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***Craniofacial Counterpoint: Craniofacial Surgery: Art or Science?***

**Moderator: Kurtis Auguste, MD**

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|----------------------------|--|
| 10:01 am – 10:11 am        | Point<br>Caitlin Hoffman, MD   |
| 10:12 am – 10:22 am        | Counterpoint<br>John Kestle, MD  |
| 10:23 am – 10:43 am        | Q&A  |
| <b>10:44 am – 12:00 pm</b> | <b>Special Session II: Top Craniofacial Abstracts</b><br><b>Moderator: Holly Gilmer, MD</b>  |
| 10:44 am – 10:52 am        | Abstract #1: Genetic Impact on Neurodevelopment in Non-syndromic Craniosynostosis<br>Kristopher Kahle, MD  |
| 10:53 am – 11:01 am        | Abstract #2: Computer-assisted Virtual Surgical Planning and Robot Guided Laser Osteotomy for Front Orbital Advancement – A Full Digital Workflow<br>Raphael Guzman, MD              |
| 11:02 am – 11:10 am        | Abstract #3: How Low Should We Go? Safety and Craniometric Impact of the Low Occipital Osteotomy in Posterior Vault Remodeling<br>Gregory Heuer, MD                                  |
| 11:11 am – 11:19 am        | Abstract #4: A Comparison of Neurodevelopmental Outcomes in Patients with Who Were Treated with CVR vs Endoscopic Repair for Sagittal Craniosynostosis<br>Suresh Magge, MD           |
| 11:20 am – 11:28 am        | Abstract #5: Comparative Analysis of 2D and 3D Metrics for Evaluation of Postoperative Outcomes following Endoscopic Suturotomy for Sagittal Craniosynostosis<br>Caitlin Hoffman, MD |
| 11:29 am – 12:00 pm        | Q&A and adjourn for the day  |

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## FINAL PROGRAM

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### Tuesday, February 1<sup>st</sup>

7:00 am – 12:00 pm	Registration	<i>Ocean Ballroom Foyer</i>
7:00 am – 9:00 am	Breakfast for Registered Physicians and Registered Guests	<i>Noe Restaurant</i>
<b>8:00 am – 10:12 am</b>	<b>General Session III: Guest Abstracts</b> <b>Moderator: Mari Groves, MD</b>	<b><i>Ocean Ballroom</i></b>
8:00 am – 8:08 am	Abstract #6: Hemoglobin Disrupts Microglial IGF-1 Production in the Developing Brain Brandon Miller, MD	
8:09 am – 8:17 am	Abstract #7: 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	
8:18 am – 8:26 am	Abstract #8: Clinical Features of Patients with Idiopathic Scoliosis and Tethered Cord to Prompt Consideration of Earlier MRI Christina Sayama, MD	
8:27 am – 8:35 am	Abstract #9: Diagnosis of Single-Suture Craniosynostosis with Cranial Ultrasound: A Single Institution Experience David Hersh, MD	
8:36 am – 8:44 am	Abstract #10: Risks Assessment and Added Value of Cervical Spine MRI in Evaluating Pediatric Cervical Spine Injuries in a Level 1 Trauma Center Joaquin Hidalgo, MD	
8:45 am – 9:05 am	Q&A	
9:06 am – 9:14 am	Abstract #11: Relationship Between Neurosurgical Experience and Complications in Pediatric Brain Tumor Surgery David Garcia, MD	
9:15 am – 9:23 am	Abstract #12: A Case of a Stereotactic Magnet and the Need to Think Outside the Box Catherine McClung-Smith, MD	
9:24 am – 9:32 am	Abstract #13: Vertebral Lesions in Pediatric Chronic Recurrent Multifocal Osteomyelitis: A Case Series and Recommendations for Neurosurgical Management David Hong, MD	
9:33 am – 9:41 am	Abstract #14: Technical Considerations in Pediatric Brain Tumor Biopsy with Flexible Endoscopy Carolyn Quinsey, MD	

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9:42 am – 9:50 am	Abstract #15: Hypothermia in Cranial Vault Reconstruction Patients Katrina Ducis, MD	
9:51 am – 10:11 am	Q&A	
10:12 am – 10:42 am	Refreshment Break	<i>Ocean Ballroom Foyer</i>
<b>10:43 am – 12:00 pm</b>	<b>General Session IV: Hoffman Lecturer (non-CME)</b>	<b><i>Ocean Ballroom</i></b>
10:43 am – 10:48 am	Recollections of Dr. Harold Hoffman Mark Souweidane, MD	
10:49 am – 10:55 am	Introduction of Hoffman Lecturer John Ragheb, MD	
10:55 am – 11:50 am	Hoffman Lecturer: Storm Tactics - Leadership When it Counts. Hard Won Lessons from 40 years at Sea John Kretschmer	
11:50 am – 12:00 pm	Q&A and adjourn for the day	
<b>7:00 pm</b>	<b>Past President's Dinner (invitation only)</b>	<b><i>La Hiki Restaurant</i></b>

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### Wednesday, February 2<sup>nd</sup>

7:00 am – 12:00 pm	Registration	<i>Ocean Ballroom Foyer</i>
7:00 am – 8:00 am	Fellowship Director's Meeting	<i>Noe Restaurant</i>
7:00 am – 9:00 am	Breakfast for Registered Physicians and Registered Guests	<i>Noe Restaurant</i>
<b>8:00 am – 10:12 am</b>	<b>General Session V: Guest &amp; General Abstracts</b> <b>Moderator: David Daniels, MD</b>	<b><i>Ocean Ballroom</i></b>
8:00 am – 8:08 am	Abstract #16: Open Retroperitoneal Inferior Vena Cava Cannulation for Distal Ventriculoatrial Shunt Catheter Placement Michael Sawvel, MD	
8:09 am – 8:17 am	Abstract #17: Intrathecal Morphine Administration in Pediatric Patients Undergoing Selective Dorsal Rhizotomy: A Pilot Study Gwyn Hughes, MD	
8:18 am – 8:26 am	Abstract #18: I Can See Clearly Now: The Use of Augmented Reality in Pediatric Craniofacial Surgery Joanna Gernsback, MD	
8:27 am – 8:35 am	Abstract #19: Asymmetry of the Occipital Condyle-C1 Interval in Children with Atlanto-Occipital Dislocation Sudhakar Vadivelu, MD	
8:36 am – 8:44 am	Abstract #20: Current Spread from Bugbee Wire During Monopolar Cautery Application within a Ventricular Catheter. Technical Note Daniel Hansen, MD	
8:45 am – 9:05 am	Q&A	
9:06 am – 9:14 am	Abstract #21: Preclinical Treatment of Existing Posthemorrhagic Hydrocephalus with a Novel Drug Cocktail Shenandoah Robinson, MD	
9:15 am – 9:23 am	Abstract #22: The Construction of a Composite CSF Diversion Surgery Index (CDSI) for Decision Making in CSF Diversion Surgery for Pediatric Patients Following Prenatal MMC Repair – Initial Experience Francesco Mangano, MD	
9:24 am – 9:32 am	Abstract #23: Ventriculopleural Shunts in a Pediatric Population: A Review of 170 Consecutive Patients Gordon McComb, MD	

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- 9:33 am – 9:41 am Abstract #24: A Comprehensive Protocol to Reduce Gram-Negative Rod Shunt Infection: Results of a Quality Improvement Project  
Samuel McClugage, MD
- 9:42 am – 9:50 am Abstract #25: Reconsidering Hydrocephalus in the Setting of Achondroplasia  
Dale Swift, MD
- 9:51 am – 10:11 am Q&A
- 10:12 am – 10:46 am General Session VI: Research Network Updates**  
**Moderator: Jonathan Pindrik, MD**
- 10:12 am – 10:17 am HCRN  
John Kestle, MD
- 10:18 am – 10:23 am Park-Reeves  
Dave Limbrick, MD
- 10:24 am – 10:29 am Pediatric Craniocervical Society/Pediatric Spine Study Group  
Doug Brockmeyer, MD
- 10:30 am- 10:35 am CPRN  
Rob Bollo, MD
- 10:36 am – 10:46 am Q&A
- 10:47 am – 11:07 am Refreshment Break
- 11:08 am – 11:49 am General Session VII: Presidential Address**
- 11:08 am – 11:38 am Presidential Address  
John Ragheb, MD
- 11:39 am – 11:49 am The Parallels of the Operating Room and Preparation for Ocean Sailing  
Paul Kanev, MD
- 11:50 am – 12:15 pm Annual Business Meeting (*Members only*)**

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## FINAL PROGRAM

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### Thursday, February 3<sup>rd</sup>

7:00 am – 12:30 pm	Registration	<i>Ocean Ballroom Foyer</i>
7:00 am – 9:00 am	Breakfast for Registered Physicians and Registered Guests	<i>Noe Restaurant</i>
<b>8:00 am – 9:48 am</b>	<b>General Session VIII: General Abstracts</b> <b>Moderator: Lissa Baird, MD</b>	<b><i>Ocean Ballroom</i></b>
8:00 am – 8:08 am	Abstract #26: A Novel Peptide Vaccine Directed to CMV PP65 for Treatment of Recurrent Malignant Glioma and Medulloblastoma in Children and Young Adults: Preliminary Results of a Phase I Trial Eric Thompson, MD	
8:09 am – 8:17 am	Abstract #27: A Small Molecule RELA Nuclear Localization Inhibitor Increases Survival in ZFTA-RELA Fusion Ependymoma Joshua Breunig, MD	
8:18 am – 8:26 am	Abstract #28: Three-Dimensional Organoid Culture Unveils Resistance to Clinical Therapies in Adult and Pediatric Glioblastoma Violette Recinos, MD	
8:27 am – 8:35 am	Abstract #29: Toward Understanding the Relationship Between Ventriculoperitoneal Shunt Placement and Hearing Loss Daniel Guillaume, MD	
8:36 am – 8:44 am	Abstract #30: Treatment of Cervical Stenosis in Infants and Toddlers with Skeletal Dysplasia Jeffrey Campbell, MD	
8:45 am – 9:05 am	Q&A	
9:06 am – 9:14 am	Abstract #31: Surgical Revascularization Decreases Stroke and TIA Risk in Children with Sickle Cell Disease and Moyamoya Syndrome: Results of the Stroke in Sickle Cell Revascularization Study (SiSCRS) Philipp Aldana, MD	
9:15 am – 9:23 am	Abstract #32: The Use of Responsive Neuro Stimulation (RNS) In Adult and Pediatric Patients with Diffuse and Non-Localizable Seizure Foci/Networks David Adelson, MD	
9:24 am – 9:32 am	Abstract #33: Responsive Neurostimulation in Pediatric Drug-Resistant Epilepsy: Initial Center Robert Bollo, MD	

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9:33 am – 9:48 am	Q&A	
<b>9:49 am – 10:09 am</b>	<b>General Session IX: ASPN History</b> Marion Walker, MD	
10:10 am – 10:30 am	Refreshment Break	<i>Ocean Ballroom Foyer</i>
<b>10:31 am – 11:36 am</b>	<b>General Session X: General Abstracts</b> <b>Moderator: Julie Chen, MD</b>	<b><i>Ocean Ballroom</i></b>
10:31 am – 10:39 am	Abstract #34: Responsive Neural Stimulation of Bilateral Centromedian (CM) Nucleus of the Thalamus in Drug Resistant Pediatric Epilepsy: Preliminary Experience at UCLA Mattel Children’s Hospital Aria Fallah, MD	
10:40 am – 10:48 am	Abstract #35: Minimally Invasive Interlaminar Approach for Infra-conus Selective Dorsal Rhizotomy Neena Marupudi, MD	
10:49 am – 10:57 am	Abstract #36: Human Brain Growth: Avoiding the Mismeasure of Man Steven Schiff, MD	
10:58 am – 11:06 am	Abstract #37: Cerebrospinal Flow with Noninvasive Fluorescent Cap-based Transcranial Optical Tomography (fCTOT) Manish Shah, MD	
11:07 am – 11:15 am	Abstract #38: Invasive and Non-invasive Brain Tissue Oxygen Monitoring in Pediatric Severe Traumatic Brain Injury Shih-Shan Chen, MD	
11:16 am – 11:36 am	Q&A	
<b>11:37 am – 12:55 pm</b>	<b>General Session XI: General Abstracts</b> <b>Moderator: Neena Marupudi, MD</b>	
11:37 am - 11:45 am	Abstract#39: Fetoscopic Closure of Myelomeningocele: Surgical Technique and Case Series Joseph Petronio, MD	
11:46 am – 11:54 am	Abstract #40: Intra-Uterine Closure of Myelomeningocele Defects with Primary Versus Bipedicle Fasciocutaneous Flaps: A Single Center Post-Moms Retrospective Cohort Study Jay Wellons, MD	
11:55 am – 12:03 pm	Abstract #41: Superior Long-Term Appearance of Strip Craniectomy Compared to Cranial Vault Reconstruction in Metopic Craniosynostosis Peter Sun, MD	

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- 12:04 pm – 12:12 pm    Abstract #42: Addition by Reduction: The Addition of Wedge Osteotomies in Sagittal Strip Craniectomies May Reduce Helmeting Times and Improve Outcomes  
Christian Kaufman, MD
- 12:13 pm – 12:21 pm    Abstract #43: Pediatric High- Grade Gliomas  
David Daniels, MD
- 12:22 pm – 12:42 pm    Q&A
- 12:43 pm – 12:55 pm    General Session XII: Washington Update**  
Katie Orrico
- 6:30 pm – 9:30 pm      ASPN Dinner** ***Ocean Lawn***

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## FINAL PROGRAM

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### Friday, February 4<sup>th</sup>

7:00 am – 9:00 am	Breakfast for Registered Physicians and Registered Guests	<i>Noe Restaurant</i>
<b>8:00 am – 9:31 am</b>	<b>General Session XIII: General Abstracts (Lightening Round)</b> <b>Moderator: Eric Thompson, MD</b>	<b><i>Ocean Ballroom</i></b>
8:00 am – 8:04 am	Abstract #44: Use of Bipolar Release of the Sternocleidomastoid to Treat Refractory Torticollis in Patients with Normal Skeletal Anatomy and Patients with Congenital Vertebral Body Anomalies David Bauer, MD	
8:05 am – 8:09 am	Abstract #45: Addressing Pediatric Neuro-Oncology Disparities in the US-Mexico Border Region: A Cross-Border Initiative between San Diego, California and Tijuana, Mexico Michael Levy, MD	
8:10 am – 8:14 am	Abstract #46: TBD	
8:15 am – 8:19 am	Abstract #47: Tumors Involving the Ventral Posterior Fossa: Surgical Strategies William Gump, MD	
8:20 am – 8:24 am	Abstract #48: CDC Head Circumference Charts Not Representative of Racial-Ethnic Groups: A Study of New Mexican Native American Children Heather Spader, MD	
8:25 am – 8:45 am	Q&A	
8:46 am – 8:50 am	Abstract #49: A Standardized, Evidence Based Institutional Approach to Simple Tethered Cord Management Thomas Moriarty, MD	
8:51 am – 8:55 am	Abstract #50: High Social Vulnerability Affects Survival of Pediatric Patients with Abusive Head Trauma: Comparison During COVID-19 Howard Weiner, MD	
8:56 am – 9:00 am	Abstract #51: The Use of In-Patient Concussion Consultation in a Cohort of Pediatric Patients to Improve Symptom Score and Associated Health Outcomes: A Proof-of-Concept Study Eylem Ocal, MD	
9:01 am – 9:05 am	Abstract #52: TBD	

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- 9:06 am – 9:10 am Abstract #53: Management of Brain Tumor Patients with Medically Refractory Epilepsy  
James Baumgartner, MD
- 9:11 am – 9:31 am Q&A
- 9:32 am – 10:17 am **General Session XIV: General Abstracts (Lightening Round)**  
**Moderator: Kelly Mahaney, MD**
- 9:32 am – 9:36 am Abstract #54: Investigating Outcomes following Endoscopic Third Ventriculostomy (ETV) with or without Choroid Plexus Cauterization (CPC) in Patients with Aqueductal Stenosis (AS) and AS plus other Genetic Disorders and Cerebral Malformations (AS+)  
Jonathan Pindrik, MD
- 9:37 am – 9:41 am Abstract #55: Transforming Perioperative Team Collaboration using a Mobile Platform  
David Harter, MD
- 9:42 am – 9:46 am Abstract #56: QuickBrain MRI in a Tertiary Pediatric Emergency Department: A Retrospective Study of Use Patterns and Accuracy  
Nathan Selden, MD
- 9:47 am – 9:51 am Abstract #57: Intracerebral Hemorrhage Occurring Years After Revascularization Surgery in Pediatric Moyamoya Patients  
Michael Scott, MD
- 9:52 am – 9:56 am Abstract #58: The Neurosurgical Management of Severe Hemophilia A and Moyamoya (SHAM): Challenges and Strategies  
Al Cohen, MD
- 9:57 am – 10:17 am Q&A
- 10:18 am – 10:30 am General Session XV: Closing Remarks & Adjournment**  
John Ragheb, MD