

42nd Annual Meeting

American Society of Pediatric Neurosurgeons

JANUARY 27–
FEBRUARY 1, 2019

THE GRAND HYATT
KAUA'I RESORT & SPA
KOLOA, ISLAND OF KAUAI, HI



Final Program

Sunday, January 27th

5:00 pm -7:00 pm Welcome Reception *Ilima Garden*
Guest Introductions will be given during the Reception at 6:00 pm

Monday, January 28th

7:15 am – 12:00 pm Registration Open *Grand Ballroom Foyer*

7:15 am – 9:15 am Breakfast for Registered Physicians and Registered Guests *Grand Garden*

8:00 am – 8:15 am Welcoming Remarks and Introduction
James Drake, MD & Abhaya Kulkarni, MD

8:15 am – 9:42 am General Session I: Guest Abstracts *Grand Ballroom*
Moderators: Gerry Grant, MD and Amy Lee, MD

8:15 am – 8:24 am Abstract #1: Magnetic Resonance-Guided Focused Ultrasound for Ablation of
Mesial Temporal Epilepsy Circuits: Modeling and Theoretical Feasibility of a
Novel Non-Invasive Approach
Caitlin Hoffman, MD

8:24 am – 8:27 Q&A

8:27 am – 8:36 am Abstract #2: Connectomic Profiling Identifies Responders to Vagus Nerve Stimulation
George Ibrahim, MD

8:36 am – 8:39 am Q&A

8:39 am – 8:48 am Abstract #3: Use of Laparoscopy for Peritoneal Shunt Catheter Placement
Sarah Jernigan, MD

8:48 am – 8:51 am Q&A

8:51 am – 9:00 am Abstract #4: Incidence and Mortality in Post-hemorrhagic Hydrocephalus (PHH)
Requiring Neurosurgical Intervention Among Neonates with Severe Intraventricular
Hemorrhage (IVH) in California
Kelly Mahaney, MD

9:00 am – 9:03 am Q&A

9:03 am – 9:15 am Abstract #5: The Impact of Multi-disciplinary Engagement in Blood Conservation
Protocols for Craniosynostosis
Krystal Tomei, MD

9:15 am – 9:18 am Q&A

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9:18 am – 9:27 am	Abstract #6: Is Household Estimated Income Associated with Proper Seatbelt Use in Pediatric Patients Involved in a Motor Vehicle Crash? Carolyn Quinsey, MD	
9:27 am – 9:30 am	Q&A	
9:30 am – 9:39 am	Abstract #7: Working towards Targeted Therapy in DIPG Tumors: Aurora Kinase Inhibitors and the Role of H3Ser28 Phosphorylation David Daniels, MD	
9:39 am – 9:42 am	Q&A	
9:42 am – 10:00 am	Beverage Break	<i>Grand Ballroom Foyer</i>
10:00 am – 11:28 am	General Session II: General Abstracts - Hydrocephalus Moderators: Greg Albert, MD and Robert Naftel, MD	<i>Grand Ballroom</i>
10:00 am – 10:08 am	Abstract #8: Brain Size Matters Steven Schiff, MD	
10:08 am – 10:11 am	Q&A	
10:11 am – 10:19 am	Abstract #9: Two-year Cognitive Outcomes in Premature Infants with Post-hemorrhagic Hydrocephalus Correlates with Total CSF Volume Tapped Daniel Guillaume, MD	
10:19 am – 10:22 am	Q&A	
10:22 am – 10:30 am	Abstract #10: Shunt Failure: The First 30 Days Paul Klimo, MD	
10:30 am – 10:33 am	Q&A	
10:33 am – 10:41 am	Abstract #11: Mechanisms of Motile Cilia Maintenance after Posthemorrhagic Hydrocephalus of Prematurity: A Preclinical Snapshot Dody Robinson, MD	
10:41 am – 10:44 am	Q&A	
10:44 am – 10:52 am	Abstract #12: Results of an Elective “Shunt Removal Protocol” Scott Wait, MD	
10:52 am – 10:55 am	Q&A	
10:55 am – 11:03 am	Abstract #13: Direct Visualization of Fenestration with Precise Catheter Placement in Loculated Hydrocephalus Using Seldinger Technique: A Report of Three Cases Naina Gross, MD	
11:03 am – 11:06 am	Q&A	
11:06 am – 11:14 am	Abstract #14: Intrathoracic Migration of Distal Ventriculoperitoneal Shunt Catheter via a Morgagni Hernia. Case Report and Literature Review Michael Partington, MD	
11:14 am – 11:17 am	Q&A	

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11:17 am – 11:25 am	Abstract #15: The Concentration of Doublecortin in the Cerebrospinal Fluid from Human Infants is Developmentally Regulated Raphael Guzman, MD	
11:25 am – 11:28 am	Q&A	
11:28 am – 12:00 pm	General Session III: Fetal MMC Debate Moderator: Jay Wellons, MD	Grand Ballroom
	Fetoscopy: William Whitehead, MD Open Fetal Repair: Gregory Heuer, MD	
2:00 pm – 3:15 pm	Family Activity: 5K/10K Run	Hotel Lobby

Tuesday, January 29th

7:15 am – 12:00 pm	Registration Open	Grand Ballroom Foyer
7:15 am – 9:15 am	Breakfast for Registered Physicians and Registered Guests	Grand Garden
8:00 am – 9:00 am	General Session IV: SEED Grant Competition Presentations Moderators: Dody Robinson, MD and Dave Limbrick, MD	Grand Ballroom
8:00 am – 8:12 am	Deep Learning/Neural Networks – Todd Hankinson, MD	
8:12 am – 8:15 am	Q&A	
8:15 am – 8:27 am	Telemedicine and Spina Bifida Transition: A Pilot Study Brandon Rocque, MD	
8:27 am – 8:30 am	Q&A	
8:30 am – 8:42 am	MEMS (Micro-Electro-Mechanical-System) Based Passive Hydrogel Valve for Hydrocephalus Treatment Ruth Bristol, MD	
8:42 am – 8:45 am	Q&A	
8:45 am – 8:57 am	ABL Kinases as Drivers of Medulloblastoma Leptomeningeal Dissemination Eric Thompson, MD	
8:57 am – 9:00 am	Q&A	
9:00 am – 10:23 am	General Session V: Guest Abstracts Moderators: Dan Guillaume, MD and Jodi Smith, MD	Grand Ballroom
9:00 am – 9:09 am	Abstract #16: Immunoparalysis after Traumatic Brain Injury with Hemorrhagic Shock: A Juvenile Rat Model of Polytrauma Eric Sribnick, MD	
9:09 am – 9:12 am	Q&A	

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9:12 am – 9:21 am	Abstract #17: The Value of Computed Tomography and Magnetic Resonance Imaging in Diagnosing Pediatric Thoracolumbar Compression Fractures Mike DeCuypere, MD	
9:21 am – 9:24 am	Q&A	
9:24 am – 9:32 am	Abstract #18: A Preliminary Study on how a New Multi-modal Pre-surgical Evaluation Strategy has Impacted Post-surgical Outcomes for Poorly-defined Focal Epilepsy in Children Roy Dudley, MD	
9:32 am – 9:35 am	Q&A	
9:35 am – 9:44 am	Abstract #19: Coupling of Calcium Channel Activity, Optical Intrinsic Signals, and Local Blood Oxygenation during Cortical Spreading Depolarizations Jesse Skoch, MD	
9:44 am – 9:47 am	Q&A	
9:47 am – 9:56 am	Abstract #20: Outpatient ASC Pediatric Neurosurgery Mark Van Poppel, MD	
9:56 am – 9:59 am	Q&A	
9:59 am – 10:08 am	Abstract #21: Transfusions in Surgical Repair of Craniosynostosis Irene Kim, MD	
10:08 am – 10:11 am	Q&A	
10:11 am – 10:20 am	Abstract #22: Oncolytic Adenovirus for Recurrent Malignant Brain Tumors in Children Guillermo Aldave, MD	
10:20 am – 10:23 am	Q&A	
10:23 am – 11:00 am	Beverage Break	<i>Grand Ballroom Foyer</i>
11:00 am – 12:00 pm	General Session VI: Hoffman Lecture Introduction of Hoffman Lecturer: James Drake, MD Harold and JoAnn Hoffman Lectureship: David Morley, President and CEO, UNICEF, Canada “A Better World? Challenges in International Development”	<i>Grand Ballroom</i>
2:00 pm – 4:00 pm	Family Activity: Hiking	<i>Hotel Lobby</i>

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Wednesday, January 30th

7:15 am – 12:30 pm	Registration Open	<i>Grand Ballroom Foyer</i>
7:15 am – 8:00 am	Fellowship Director's Meeting	<i>Grand Garden</i>
7:15 am – 9:15 am	Breakfast for Registered Physicians and Registered Guests	<i>Grand Garden</i>
8:00 am – 10:05 am	General Session VII: Abstracts- Complications Moderators: Mark Souweidane, MD and Howard Weiner, MD	<i>Grand Ballroom</i>
8:00 am – 8:08 am	Abstract #23: Metastatic Renal Cell Carcinoma in Von Hippel Lindau Disease without Appropriate Screening Robert Naftel, MD	
8:08 am- 8:11 am	Q&A	
8:11 am – 8:19 am	Abstract #24: Choroid Plexus Tumor Devascularization; Standard Endovascular or Novel Endoscopic Michael Burke, MD	
8:19 am – 8:22 am	Q&A	
8:22 am – 8:30 am	Abstract #25: Acquired Temporal Encephalocele Causing Memory Loss and Epilepsy in a 17 yo Female with Gorham's Lymphangiomatosis: Complications in Management Sean Lew, MD	
8:30 am – 8:33 am	Q&A	
8:33 am – 8:41 am	Abstract #26: A Complex Case of Chiari and Hydrocephalus Eric Jackson, MD	
8:41 am – 8:44 am	Q&A	
8:44 am – 8:52 am	Abstract #27: Intracranial Hemorrhage after Placement of a Ventriculoperitoneal Shunt in a Neonate with Large Ventricles Corbett Wilkinson, MD	
8:52 am – 8:55 am	Q&A	
8:55 am – 9:03 am	Abstract #28: Trapped Fourth Ventricle with New Syringobulbia after Chiari Decompression: Early and Late Complication David Bauer, MD	
9:03 am – 9:06 am	Q&A	
9:06 am – 9:14 am	Abstract #29: Recurrent Shunt Malfunctions in a Patient with Elevated CSF Protein Levels Gregory Albert, MD	
9:14 am – 9:17 am	Q&A	

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9:17 am – 9:25 am	Abstract #30: Spontaneous Intracranial Hypotension Mimicking Surgical Lesions: Report of Two Cases Naina Gross, MD	
9:25 am – 9:28 am	Q&A	
9:28 am – 9:36 am	Abstract #31: Aborted Endoscopic Biopsy of Pineal Region Tumor Philipp Aldana, MD	
9:36 am – 9:39 am	Q&A	
9:39 am – 9:47 am	Abstract #32: When the Patient Doesn't Fit the Pathology: Managing an Unexpected Diagnosis Mandeep Tamber, MD	
9:47 am – 9:50 am	Q&A	
9:50 am – 9:58 am	Abstract #33: Severe Tongue Swelling Following Posterior Fossa Surgery: Case Presentation and Review of the Literature Suresh Magge, MD	
9:58 am – 10:01 am	Q&A	
10:05 am – 10:20 am	Beverage Break	<i>Grand Ballroom Foyer</i>
10:20 am – 12:00 pm	General Session VIII: Abstracts- Hydrocephalus & General Topics Moderators: Elizabeth Tyler-Kabara, MD and Francesco Mangano, MD	<i>Grand Ballroom</i>
10:20 am – 10:28 am	Abstract #34: Hydrocephalus Clinical Research Network Registry Review of ETV after Shunt Failure Curtis Rozzelle, MD	
10:28 am- 10:31 am	Q&A	
10:31 am – 10:39 am	Abstract #35: Automatically Measuring the Ventricular Volume from Picture Archiving and Communications System (PACS) Clinical Images J. Gordon McComb, MD	
10:39 am – 10:42 am	Q&A	
10:42 am – 10:50 am	Abstract #36: The Quality of YouTube Videos on ETV and ETV+CPC Procedures Available to Pediatric Hydrocephalus Families Jay Riva-Cambrin, MD	
10:50 am – 10:53 am	Q&A	
10:53 am – 11:01 am	Abstract #37: Rates of Hindbrain Herniation Reversal after Prenatal Repair of Myelomeningocele Edward Ahn, MD	
11:01 am – 11:04 am	Q&A	
11:04 am – 11:12 am	Abstract #38: Parental Refusal to Consent to Life-saving Therapy in Pediatric Neurosurgery- Case Review and Framework for Decision Making Patrick McDonald, MD	
11:12 am – 11:15 am	Q&A	

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11:15 am – 11:23 am	Abstract #39: Development and Implementation of the InterSurgeon Online Matching Platform for Global Neurosurgery Collaboration James Johnston, MD	
11:23 am – 11:26 am	Q&A	
11:26 am – 11:34 am	Abstract #40: Long-term Outcomes of Spring-assisted Surgery for Sagittal Craniosynostosis Daniel Couture, MD	
11:34 am – 11:37 am	Q&A	
11:37 am – 11:45 am	Abstract #41: Proposed Mechanism of Corpus Callosum Trauma in Sports Concussions Gerald Grant, MD	
11:45 am – 11:48 am	Q&A	
11:48 am – 11:56 am	Abstract #42: How A Pediatric Neurosurgery Telemedicine Clinic Creates Socio-Economic Benefits for Parents/Caregivers Philipp Aldana, MD	
11:56 am – 11:59 am	Q&A	
12:00 pm – 12:30 pm	Annual Business Meeting (<i>Members only</i>)	
2:00 pm – 4:00 pm	Family Activity: Navy Seal Fitness Competition	<i>Hotel Lobby</i>

Thursday, January 31st

7:15 am – 12:00 pm	Registration Open	<i>Grand Ballroom Foyer</i>
7:15 am – 9:15 am	Breakfast for Registered Physicians and Registered Guests	<i>Grand Garden</i>
8:00 am – 10:01 am	General Session IX: Abstracts-Oncology/Epilepsy Moderators: Peter Dirks, MD and Robert Bollo, MD	<i>Grand Ballroom</i>
8:00 am – 8:08 am	Abstract #43: Infusion of 5-Azacytidine (5-AZA) into the Fourth Ventricle or Resection Cavity in Children with Recurrent Posterior Fossa Ependymoma: A Pilot Study David Sandberg, MD	
8:08 am- 8:11 am	Q&A	
8:11 am – 8:19 am	Abstract #44: ITGA2 as a Therapeutic Target for Glioblastoma Edward Smith, MD	
8:19 am – 8:22 am	Q&A	
8:22 am – 8:30 am	Abstract #45: Endoscopic Endonasal Surgery for Resection of Pediatric Craniopharyngioma: Comparison to Open Resection with a Focus on Cerebrovascular Complications Phillip Storm, MD	
8:30 am – 8:33 am	Q&A	

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8:33 am – 8:41 am	Abstract #46: Stereotactic Biopsies in the Management of Diffuse Intrinsic Pontine Glioma Suresh Magge, MD
8:41 am – 8:44 am	Q&A
8:44 am – 8:52 am	Abstract #47: Dosimetry-Based Convection-Enhanced Delivery (CED) for Brain Tumors Mark Souweidane, MD
8:52 am – 8:55 am	Q&A
8:55 am – 9:03 am	Abstract #48: The Pro-inflammatory Effect of Cyst Fluid in Pediatric Adamantinomatous Craniopharyngioma may be Driven by Interleukin-6 Todd Hankinson, MD
9:03 am – 9:06 am	Q&A
9:06 am – 9:14 am	Abstract #49: Novel Mouse Modeling of Atypical Teratoid Rhabdoid Tumour: Promise of New Therapeutic Targets James Rutka, MD
9:14 am – 9:17 am	Q&A
9:17 am – 9:25 am	Abstract #50: Thermal Dynamics, Volumetrics and Seizure Outcomes following Magnetic Resonance-guided Laser Interstitial Thermal Therapy (MRgLITT) in Pediatric Lesional Epilepsy Chima Oluigbo, MD
9:25 am – 9:28 am	Q&A
9:28 am – 9:36 am	Abstract #51: Intracranial EEG and Insular Laser Ablation in Non-Lesional Epilepsy – Case Series Jim Baumgartner, MD
9:36 am – 9:39 am	Q&A
9:39 am – 9:47 am	Abstract #52: The Role of Minimally Invasive Surgery for Children with Tuberous Sclerosis Complex (TSC) Howard Weiner, MD
9:47 am – 9:50 am	Q&A
9:50 am – 9:58 am	Abstract #53: Comparative Study of Open Surgical Callosotomy and Laser Interstitial Thermal Therapy (LITT) in Pediatrics Angela Price, MD
9:58 am – 10:01 am	Q&A
10:01 am – 10:30 am	Beverage Break

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10:30 am – 12:00 pm	General Session X: Advocacy/Transition and Washington Update Moderator: James Drake, MD	Grand Ballroom
10:30 am – 11:10 am	Bradley Weprin, MD and Jonathan Martin, MD	
11:10 am – 11:30 am	Katie Orrico, JD	
11:30 am – 12:00 pm	General Session XI: The Return of the Gong Show James Drake, MD	Grand Ballroom
6:30 pm – 9:30 pm	ASPN Dinner	<i>Ilima Garden</i>

Friday, February 1st

7:15 am – 11:05 am	Registration Open	<i>Grand Ballroom Foyer</i>
7:15 am – 9:15 am	Breakfast for Registered Physicians and Registered Guests	<i>Grand Garden</i>
8:00 am – 9:15 am	General Session XII: Abstracts- General Topics Moderators: Eric Thompson, MD and Dan Couture, MD	Grand Ballroom
8:00 am – 8:08 am	Abstract #54: Progressive Experience Differentially Affects iMRI Use for Resection in Pediatric Epilepsy and Tumor Procedures Nathan Selden, MD	
8:08 am- 8:11 am	Q&A	
8:11 am – 8:19 am	Abstract #55: Generating in Vivo Somatic Mouse Mosaics with Locus-Specific, Stably-Integrated Transgenic Elements for Studying Pediatric Brain Tumors Joshua Breunig, MD	
8:19 am – 8:22 am	Q&A	
8:22 am – 8:30 am	Abstract #56: Tumors of the Superior Medullary Velum in Childhood Tadanori Tomita, MD	
8:30 am – 8:33 am	Q&A	
8:33 am – 8:41 am	Abstract #57: Desmoplastic Infantile Ganglioglioma: The Great Neurosurgical Masquerader Al Cohen, MD	
8:41 am – 8:44 am	Q&A	
8:44 am – 8:52 am	Abstract #58: Recent Trends in North American Pediatric Neurosurgical Fellowship Training Cormac Maher, MD	
8:52 am – 8:55 am	Q&A	
8:55 am – 9:15 am	Medical Assistance in Dying - Patrick McDonald, MD	
9:15 am – 9:30 am	Beverage Break	<i>Grand Ballroom Foyer</i>

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9:30 am - 10:54 am	General Session XII Continued – Abstracts Moderators: James Johnston, MD and Stephanie Greene, MD	Grand Ballroom
9:30 am – 9:38 am	Abstract #59: Fast MRI is Feasible and Accurate for TBI in Young Children Brent O'Neill, MD	
9:38 am – 9:41 am	Q&A	
9:41 am – 9:59 am	Abstract #60: Pediatric Brain Death: Update on a Working Group to Create a Unified Adult and Pediatric Guideline Tool to Diagnose Brain Death David Bauer, MD	
9:59 am – 10:02 am	Q&A	
10:02 am – 10:10 am	Abstract #61: Chronic Intrathecal Access in Patients with Spinal Muscular Atrophy and Complex Spines Michael Muhonen, MD	
10:10 am – 10:13 am	Q&A	
10:13 am – 10:21 am	Abstract #62: Investigating the Necessity for Spinal Cord Untethering in Patients with Spinal Dysraphisms Prior to Scoliosis Correction Eylem Ocal, MD	
10:21 am – 10:24 am	Q&A	
10:24 am – 10:32 am	Abstract #63: Minimally Invasive Transforaminal Lumbar Interbody Fusion (MI-TLIF) in Children James Stadler, MD	
10:32 am – 10:35 am	Q&A	
10:35 am – 10:43 am	Abstract #64: Infratentorial Intracranial Pressure in Patients with Chiari I Malformation David Jimenez, MD	
10:43 am – 10:46 am	Q&A	
10:46 am – 10:54 am	Abstract #65: Axial MR angiography in Evaluating Revascularization after Indirect Bypass Surgery for Moyamoya Corbett Wilkinson, MD	
10:54 am – 11:05 am	Closing Remarks & Adjournment James Drake, MD	