



PROGRAM

Dr. Reynolds would like to thank the abstract reviewers for their contribution to the program: David Bauer, MD, Naina Gross, MD, and Neena Marupudi, MD

SUNDAY, JANUARY 21

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| 3:00 pm – 4:00 pm | Registration | <i>Ritz-Carlton Ballroom Pre-Function</i> |
| 5:00 pm – 7:00 pm | Welcome Reception | <i>Beach House Lawn</i> |

(Guest introductions given during the reception at 6:00pm)

MONDAY, JANUARY 22

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| 7:00 am – 12:00 pm | Registration | <i>Ritz-Carlton Ballroom Pre-Function</i> |
| 7:00 am – 9:00 am | Breakfast for Physicians & Registered Guests | <i>Ritz-Carlton Ballroom Lanai</i> |

8:00 am – 8:05 am **Welcoming Remarks** ***Ritz-Carlton Ballroom Salons 3&4***
Gerald Grant, MD

8:06 am – 8:37 am **Master's Session I: Endoscopy**
Moderator: Paul Klimo, MD

8:06 am – 8:26 am Surgery of the Third Ventricle Revisited in an Endoscopic Era
Mark Souweidane, MD

8:27 am – 8:37 am Q&A

8:38 am – 9:45 am **Special Session: Top 5 Meeting Abstracts**
Moderator: Paul Klimo, MD

8:38 am – 8:48 am Abstract #1: Development and Validation of a Remote Video Acquisition and Analysis Protocol using Artificial Intelligence (AI) for Evaluation of Gait and Upper Extremity Function – ASPN Seed Grant Funded Project (2023), An Interim Update
Albert Tu, MD

8:49 am – 8:59 am Abstract #2: Laparotomy-assisted, Two-port Fetoscopic Myelomeningocele Repair: Infant and Childhood Outcomes
William Whitehead, MD

9:00 am – 9:10 am Abstract #3: Rapid MRI Brain for Image Guided Ventricular Catheter Placement in Pediatric Patients: Protocol and Clinical Outcomes
Peter Sun, MD

9:11 am – 9:21 am Abstract #4: Efficacy of Central Stimulation in the Treatment of Generalized Intractable Pediatric Epilepsy – Preliminary Outcomes in 11 Consecutive Patients
Michael Bercu, MD

9:22 am – 9:32 am Abstract #5: Neonatal Paenibacilliosis: Discovery of a New Disease as a Major Cause of Hydrocephalus in African Infants
Steven Schiff, MD

9:33 am – 9:45 am Q&A



PROGRAM

11:40 am – 11:48 am Abstract #15: A Multicenter Study Comparing Long-term Anthropometric and Cognitive Outcomes after Endoscopic versus Open Vault Surgery for Nonsyndromic Sagittal Craniosynostosis
Suresh Magge, MD

11:49 am – 11:59 am Q&A

12:00 pm – 12:08 pm Special Race Video – Paul Kanev, MD

12:15 pm Mentorship Luncheon (*invitation only*)

Hawaiian Garden

TUESDAY, JANUARY 23

7:00 am – 12:00 pm Registration *Ritz-Carlton Ballroom Pre-Function*

7:00 am – 9:00 am Breakfast for Physicians & Registered Guests *Ritz-Carlton Ballroom Lanai*

8:00 am – 8:35 am Master's Session II: *Ritz-Carlton Ballroom Salons 3&4*
Management of Occipital Cervical Anomalies
Moderator: Gary Tye, MD

8:00 am – 8:20 am Management of Occipital Cervical Anomalies
Doug Brockmeyer, MD

8:20 am – 8:35 am Q&A

8:36 am – 9:18 am Special Session (Point/Counter-Point): Selective Dorsal Rhizotomy
Moderator: Shih-Shan Lang Chen, MD

8:36 am – 8:51 am Point: The Surgeon's Onus is Away from the Conus: A Case for the Multilevel SDR
Jeffrey Raskin, MD

8:52 am – 9:07 am Counterpoint: Less Pain, More Gain: Minimally-Invasive SDR – This Is the Way
Neena Marupudi, MD

9:08 am – 9:18 am Q&A

9:19 am – 9:35 am Research Presentation – Seed Grant Awardee

9:19 am – 9:29 am Biomechanical Characterization of Brain Tissue to Inform and Guide Pediatric Brain Surgery
Aria Fallah, MD

9:30 am – 9:35 am Q&A

9:36 am – 9:51 am Refreshment Break

Ritz-Carlton Pre-Function



PROGRAM

- 9:52 am – 11:00 am** **Special Session: Abstracts – Spine**
Moderator: Scott Elton, MD
- 9:52 am – 10:00 am Abstract #16: Morphological and Ultrastructural Investigation of the Posterior Atlanto-Occipital Membrane: Comparing Children with Chiari Malformation Type I and Controls
Vijay Ravindra, MD
- 10:01 am – 10:09 am Abstract #17: Transarticular Atlantooccipital and Direct Occipital Condylar Screw Fixation for Occipital Cervical Stabilization in Pediatric Patients: A Useful Alternative to an Occipital Plate
David Bauer, MD
- 10:10 am – 10:18 am Abstract #18: Errors in Craniocervical Fixation
Brandon Rocque, MD
- 10:19 am – 10:27 am Abstract #19: Basilar Invagination in Hajdu-Cheney Syndrome
Ruth Bristol, MD
- 10:28 am – 10:36 am Abstract #20: Thoracic Outlet Syndrome in Children
David Adelson, MD
- 10:37 am – 10:45 am Abstract #20.5: Atlas Assimilation, Atlantoaxial Instability, and Ventral Brainstem Compression in Pediatric Chiari Malformation Type I: Clinical Presentation, Surgical Treatment Strategy, and Clinical Outcomes
Brian Dlouhy, MD
- 10:46 am – 10:59 am Q&A
- 11:00 am – 12:13 pm** **General Session: Hoffman Lecture**
- 11:00 am – 11:05 am Recollections of Dr. Harold Hoffman
James Rutka, MD
- 11:06 am – 11:11 am Introduction of the Hoffman Lecturer
Gerald Grant, MD
- 11:12 am – 12:02 pm Hoffman Lecturer: NASA Astronaut – Chris Cassidy
- 12:03 pm – 12:13 pm Q&A
- 7:00 pm **Past President's Dinner** (*invitation only*)

Anuenue Room



PROGRAM

WEDNESDAY, JANUARY 24

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| 7:00 am – 12:00 pm | Registration | <i>Ritz-Carlton Pre-Function</i> |
| 7:00 am – 8:00 am | Fellowship Directors Meeting | <i>Ritz-Carlton Ballroom Salons 3&4</i> |
| 7:00 am – 9:00 am | Breakfast for Physicians & Registered Guests | <i>Ritz-Carlton Ballroom Lanai</i> |
| 8:00 am – 9:18 am | Master's Session III: Tumor <i>Moderator: Raphael Guzman, MD</i> | <i>Ritz-Carlton Ballroom Salons 3&4</i> |
| 8:00 am – 8:20am | Master's Session III: Ventricular Tumors Al Cohen, MD | |
| 8:21 am – 8:41 am | Master's Session IV: Pineal Region Tumors Richard Ellenbogen, MD | |
| 8:42 am – 9:02 am | Master's Session V: Low Grade Brainstem Gliomas John Duncan, MD | |
| 9:03 am – 9:18 am | Q&A | |
| 9:19 am – 10:14 am | Special Session: Abstracts – Tumor <i>Moderator: Hal Meltzer, MD</i> | |
| 9:19 am – 9:27 am | Abstract #21: L Circadian Rhythms in Pediatric High-grade Gliomas May Contribute to Treatment Efficacy Laura Prolo, MD | |
| 9:28 am – 9:36 am | Abstract #22: The Role of VSP in Endoscopic Suturectomy – A Case Review and Qualification of Utility Caitlin Hoffman, MD | |
| 9:37 am – 9:45 am | Abstract #23: Identification of Genetic Biomarkers to Predict Response to HSV-1 G207 and Polio: Rhinovirus Immunotherapy Eric Thompson, MD | |
| 9:46 am – 9:54 am | Abstract #24: Glioma Originates from an Injury Reprogramming Event of Neural Precursor Cells Peter Dirks, MD | |
| 9:55 am – 10:03 am | Abstract #25: Immune Microenvironment Profiling Identifies TIM3 as a Therapeutic Target in BRAF-Fusion Pilocytic Astrocytoma Michael Decuyere, MD | |
| 10:04 am – 10:14 am | Q&A | |
| 10:15 am – 10:30 am | Refreshment Break | <i>Ritz-Carlton Ballroom Pre-Function</i> |



PROGRAM

- 10:31 am – 10:52 am** **Special Session: Washington Committee Update**
Moderator: Ed Ahn, MD
- 10:31 am – 10:46 am: Washington Committee Update
Katie Orrico, JD
- 10:47 am – 10:52 am Q&A
- 10:53 am – 11:36 am** **Special Session: Abstracts – Vascular**
Moderator: Ed Ahn, MD
- 10:53 am – 10:59 am Abstract #26: Financial and Quality Data Supporting Private Insurer Approval for Out-of-Network Care for Pediatric Moyamoya Revascularization
Edward Smith, MD
- 11:00 am – 11:06 am Abstract #27: Predictors of Seizure Presentation and Seizure Outcomes in Patients that Underwent Stereotactic Radiosurgery for Treatment of Pediatric Arteriovenous Malformations
Rebecca Burke, MD
- 11:07 am – 11:13 am Abstract #28: Flow Diversion for Treatment of Aneurysms in Children: Single-center Experience
Rafael de Oliveira Sillero, MD
- 11:14 am – 11:20 am Abstract #29: Presentation and Treatment of Ruptured Pediatric Intracranial Aneurysms- A National Database Comparison of Younger and Older Children
Leo Arko, MD
- 11:21 am – 11:36 am Q&A
- 11:37 am – 12:22 pm** **General Session: Presidential Address**
- 11:37 am – 11:52 am Introduction: Richard Ellenbogen, MD and John Duncan, MD
11:52 am – 12:22 pm Presidential Address: Gerald Grant, MD
- 1:30 pm Optional Golf at The Plantation Course (*pre-registration required*)



PROGRAM

THURSDAY, JANUARY 25

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|---------------------------|--|--|
| 7:00 am – 12:00 pm | Registration | <i>Ritz-Carlton Ballroom Pre-Function</i> |
| 7:00 am – 8:00 am | Annual Business Meeting (<i>Members Only</i>) | <i>Ritz-Carlton Ballroom Salons 3&4</i> |
| 7:00 am – 9:00 am | Breakfast for Physicians & Registered Guests | <i>Ritz-Carlton Ballroom Lanai</i> |
| 8:00 am – 8:30 am | Master's Session VI: Mentorship in Pediatric Neurosurgery Moderator: Elizabeth Tyler-Kabara, MD | <i>Ritz-Carlton Ballroom Salons 3&4</i> |
| 8:00 am – 8:20 am | Mentorship in Pediatric Neurosurgery Ann Flannery, MD | |
| 8:21 am – 8:30 am | Q&A | |
| 8:31 am – 8:57 am | Special Session: Diversity in Pediatric Neurosurgery Review Moderator: Elizabeth Tyler-Kabara, MD | |
| 8:31 am – 8:46 am | Diversity in Pediatric Neurosurgery Review Susan Durham, MD | |
| 8:47 am – 8:57 am | Q&A | |
| 8:58 am – 9:55 am | Special Session: Abstracts- General Moderator: Philip Aldana, MD | |
| 8:58 am – 9:06 am | Abstract #30: Who Are We Training and Where Do They Go? Trends in Practice and Diversity in the Last Five Years Natalie Limoges, MD | |
| 9:07 am – 9:15 am | Abstract #31: Geographic Bias in Pediatric Neurosurgical Research R. Aaron Robison, MD | |
| 9:16 am – 9:24 am | Abstract #32: In a Time of Great Need: A Bi-directional Model of Pediatric Neurosurgical Education in Ukraine Eisha Christian, MD | |
| 9:25 am – 9:33 am | Abstract #33: Aging Gracefully and Transitioning from Neurosurgery into Law Catherine Mazzola, MD | |
| 9:34 am – 9:42 am | Abstract #34: COVID-related Changes in the Epidemiology of Infective Intracranial Complications of Bacterial Sinusitis in British Columbia Mandeep Tamber, MD | |
| 9:43 am – 9:55 am | Q&A | |
| 9:56 am – 10:19 am | Refreshment Break | <i>Ritz-Carlton Ballroom Pre-Function</i> |



PROGRAM

- 10:20 am – 11:13 am** **General Session: SNS Executive Committee Updates/Other**
Moderator: Kelly Collins, MD
- 10:20 am – 10:35 am The Transforming Power of Hospitality in Neurosurgery
Howard Weiner, MD
- 10:36 am – 10:41 am Wellness Taskforce Updates
Tony Avellino, MD
- 10:42 am – 10:47 am Gender, Equity, Diversity and Inclusion Taskforce Update
Angela Price, MD
- 10:48 am – 10:53 am Climate Change and Pediatric Neurosurgery: An Update
Tina Duhaime, MD and Zulma Tovar-Spinoza, MD
- 10:54 am – 10:59 am Educational Committee Updates
Caroline Quinsey, MD
- 11:00 am – 11:13 am Q&A
- 11:14 am – 12:15 pm** **Special Session: Abstracts – Trauma**
Moderator: Manish Shah, MD
- 11:14 am – 11:22 am Abstract #35: Safe and Reliable Application of Brain Injury Guidelines to a
Pediatric Level 1 Trauma Center Predicts Improved Resource Utilization
Jared Pisapia, MD
- 11:23 am – 11:31 am Abstract #36: GM-CSF Reduces TBI-Induced Immune Suppression and Lung
Infection in a Post-Injury Pneumonia Model
Eric Sribnick, MD
- 11:32 am – 11:40 am Abstract #37: A Tale of Two Bullets, Management of Migrating Bullet Fragments
Krystal Tomei, MD
- 11:41 am – 11:46 am Abstract #38: Flexion/Extension MR is Safe in Infants and Children
Jeffrey Campbell, MD
- 11:47 am – 11:55 am Abstract #39: A Review of Screening for Pediatric Blunt Cerebrovascular Injury
Manish Shah, MD
- 11:56 am – 12:04 pm Abstract #40: Effective Methods for Pediatric Skull Base Reconstruction in the
Treatment of Pediatric Skull Base Tumors, Trauma, and Infections
Tord Alden, MD
- 12:05 pm – 12:15 pm Q&A



PROGRAM

1:00 pm Optional Golf at The Bay Course (*pre-registration required*)

6:30 pm – 9:30 pm **ASPN Dinner** *Aloha Garden Pavilion*

FRIDAY, JANUARY 26

7:00 am – 9:00 am Breakfast for Physicians & Registered Guests *Ritz-Carlton Ballroom Lanai*

8:00 am – 8:40 am **Master's Session VII: Epilepsy** *Ritz-Carlton Ballroom Salons 3&4*
Moderator: Jonathan Pindrick, MD

8:00 am – 8:20 am Epilepsy
James Rutka, MD

8:20 am – 8:40 am Q&A

8:41 am – 10:03 am **Special Session: Abstracts – Epilepsy/Functional**
Moderator: Jonathan Pindrick, MD

8:41 am – 8:49 am Abstract #41: Does Hippocampal Atrophy Correlate with Neurocognitive Outcomes in Pediatric Brain Tumor Patients One Year Following Proton Radiotherapy? Results from a Prospective Trial
Toba Niazi, MD

8:50 am – 8:58 am Abstract #42: Outcomes for Laser Interstitial Thermal Therapy (LITT) for Medically Refractory Epilepsy
Jennifer Ronecker, MD

8:59 am – 9:07 am Abstract #43: Functional Brain Mapping Using Stereoelectroencephalography Changes During Behavioral Tasks
Kai Miller, MD

9:08 am – 9:16 am Abstract #44: Bilateral Centromedian Nucleus of Thalamus Responsive Neurostimulation for Pediatric-onset Drug-resistant Epilepsy
Aria Fallah, MD

9:17 am – 9:25 am Abstract #45: Effect of Complete Corpus Callosotomy on Brain Inter-hemispheric Connectivity and Epileptogenicity
Ammar Shaikhouni, MD

9:26 am – 9:34 am Abstract #46: Selection of Ideal Disease Candidates for Early Phase Gene Therapy Trials
Nalin Gupta, MD



PROGRAM

- 9:35 am – 9:43 am Abstract #47: Functional Connectivity with the Somato-Cognitive Action Network for Targeting for the Centromedian Nucleus of the Thalamus
Jarod Roland, MD
- 9:44 am – 9:52 am Abstract #48: Gene Regulatory Effects of Vagal Nerve Stimulation in Pediatric Patients with Epilepsy
Nathan Selden, MD
- 9:53 am – 10:03 am Q&A
- 10:04 am – 10:19 am Refreshment Break *Ritz-Carlton Ballroom Pre-Function***
- 10:20 am – 11:43 am Special Session: Abstracts – Congenital/Basic Science**
Moderator: Dean Hertzler, MD
- 10:21 am – 10:29 am Abstract #49: Focal Cortical Dysplasia Isn't Focal
Christian Kaufman, MD
- 10:30 am – 10:38 am Abstract #50: Infantile Modulation of HIF2alpha Signaling Repairs or Impairs Gait and Hyperactivity in a Preclinical Model of Cerebral Palsy
Dody Robinson, MD
- 10:39 am- 10:47 am Abstract #51: Safety and Technical Yield of Brainstem Biopsies in Children – An Updated Meta-Analysis of 1000 Cases
Violette Recinos, MD
- 10:48 am – 10:56 am Abstract #52: Improving Targeting of Focal Thermal Therapies Using Computer Algorithms and Machine Learning
James Drake, MD
- 10:57 am – 11:05 am Abstract #53: Mapping Cerebellar Growth Trajectories in Normal, Developing Children Via Deep Learning
Daniel Guillaume, MD
- 11:06 am – 11:14 am Abstract #54: Minimally Invasive Focal Selective Dorsal Rhizotomy: A Novel Approach to Children with Spastic Diplegia
Nisha Gadgil, MD
- 11:15 am – 11:23 am Abstract #55: Intraventricular Iron Causes Severe Hydrocephalus in Neonatal Rat Pup Model of Intraventricular Hemorrhage (IVH)
Kelly Mahaney, MD
- 11:24 am – 11:32 am Abstract #56: When is the Radiology Report of a Posterior Fossa Containing Cyst/cystic-like CSF Collection of Clinical or Surgical Significance?
Gordon McComb, MD



47th Annual Meeting
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PROGRAM

11:33 am – 11:43 am Q&A

11:44 am – 11:50 am Closing Remarks and Meeting Adjourns