



PROGRAM

WEDNESDAY, FEBRUARY 22

1:00-5:00PM Meeting Registration

2:00-4:00PM Executive Committee Meeting

THURSDAY, FEBRUARY 23

7:00AM-1:00PM Meeting Registration

Scientific Session I

7:30-7:40AM Opening Remarks
Josh Dowling, MD

7:40-7:55AM Breakfast with Exhibitors

7:55-8:25AM Debate- The Role of Endoscopy in Anterior Skull Base Surgery:
Jacques Morcos, MD vs. JD Day, MD
Moderated by *Madison Michael, MD*

8:25-8:40AM NREF Update
Jon Robertson, MD

8:40-8:55AM Washington Update
Katie Orrico

8:55-9:00AM Discussion

9:00-9:15AM Decision Making for AVM Patients in the Post-ARUBA Era
Hunt Batjer, MD

9:15-9:30AM MR Guided Focused Ultrasound (MRgFUS)
An Alternative Treatment for Essential Tremor and Parkinson
Howard Eisenberg, MD

9:30-9:40AM Discussion

9:40-9:45AM Introduction to Ned Downing Lecture
John Wilson

9:45-10:15AM Ned Downing Lecture: Sabato's Crystal Ball
Larry Sabato

10:15-10:45AM Break with Exhibitors
Meet the Expert Sessions

- 10:45–10:54AM Standard Abstract #1:
A Peri-Operative "Best Practices" Protocol Reduces the Length-of-Stay and Complication Rate for Elective Spine Surgery
Ahilan Sivaganesan; Silky Chotai; Matt McGirt; and Clint Devin
- 10:54 – 11:02AM Standard Abstract #2:
Health Care Disparities in Traumatic Brain Injury: The Effect of Insurance on Severity of Presentation
Joseph Kapurch, MD; Meghan E. Murphy, MD; Panagiotis Kerezoudis, MD; Patrick R. Maloney, MD; Brandon A. McCutcheon, MD, MPP; Lorenzo Rinaldo, MD, PhD; Daniel S. Shepherd, MD; Daniel S. Ubl, MPH; Elizabeth Habermann, MPH, PhD; and Mohamad Bydon
- 11:02 – 11:10AM Standard Abstract #3:
Intraventricular Neuroendoscopy
Enrique de Jongh
- 11:10 – 11:18AM Standard Abstract #4:
Concurrent Surgery at University of South Florida
Stephen Reintjes; Gautam Rao, BS; David Aum, MS, BS; Christopher Primiani, BS; Quan Tran, BS; and Fernando Vale, MD
- 11:18 – 11:26AM Standard Abstract #5:
Suboccipital Craniotomy Versus Craniectomy: A Survey of Practice Patterns
Elizabeth N. Kuhn, MD; Gustavo Chagoya, MD; Bonita Agee, PhD; and Mark R. Harrigan, MD
- 11:26 – 11:34AM Standard Abstract #6:
Complexity of Closure Does Not Affect Gestational Age at Delivery in Patients Undergoing Intrauterine Myelomeningocele Repair
Ashley Westrick, MPH; Diana Douleh, BS; Stephane Braun, MD; Ray Paschall, MD; Ann Kavanaugh-McHugh, MD; Kelly Bennett, MD; Chevis Shannon, MBA, MPH, DrPH; John C. Wellons, MD, MSPHV
- 11:34 – 11:42AM Standard Abstract #7:
Timing of Syrinx Reduction and Stabilization after Posterior Fossa Decompression for Pediatric Chiari Malformation-I
Silky Chotai; Emily W. Chan; Travis Ladner, MD; Stephen Gannon, CCRP; Chevis N. Shannon, MBA, DrPH; Christopher M. Bonfield, MD; Robert P. Naftel, MD; and John C. Wellons, MSPH, MD
- 11:42 – 11:45AM Rapid Fire Abstract #8:
MRI-guided Laser Interstitial Thermal Therapy for Intracranial Lesions: A Large Single-Institution Experience of 133 Cases
Ashwin Kamath, MD; Daniel Friedman; Carl D. Hacker, PhD; Matthew D. Smyth, MD; David D. Limbrick, Jr., MD, PhD; Albert H. Kim, MD, PhD; Ammar H. Hawasli, MD, PhD; and Eric C. Leuthardt, MD

11:45 – 11:48AM	Rapid Fire Abstract #9: Laser Interstitial Thermal Therapy for Mesial Temporal Lobe Epilepsy <i>Sanjeet S. Grewal, MD and Robert E. Wharen, MD</i>
11:48 – 11:51AM	Rapid Fire Abstract #10: Fusiform Aneurysms of the Posterior Circulation: Impact of Extent of Aneurysm on Overall Outcome <i>Devi P. Patra; Tanmoy K. Maiti, MD, MCH; Shyamal C. Bir, MD, PHD, FAHA; Piyush Kalakoti, MD; and Anil Nanda, MD, MPH, FACS</i>
11:51 -11:54AM	Rapid Fire Abstract #11: Single Stage Microsurgical Clipping of Multiple Intracranial Aneurysms: Analysis on Feasibility and Overall Outcome <i>Devi P. Patra; Tanmoy K. Maiti, MD, MCH; Shyamal C. Bir, MD, PHD, FAHA; Piyush Kalakoti, MD; and Anil Nanda, MD, MPH, FACS</i>
11:54 – 11:57AM	Rapid Fire Abstract #12: Anterior Spinal Artery Occlusion with Bilateral Medullary Pyramidal Infarction: An Illustrative Review of Two Cases <i>Sammy Searcy; Oluwaseun Akinduro; Andrew Spector; Benjamin Brown; and William Freeman</i>
11:57 – 12:00PM	Rapid Fire Abstract #13: The Need for Hormone Replacement Therapy after Transsphenoidal Surgery: A Comparison of Pituitary Apoplexy versus Elective Resection of Pituitary Adenoma <i>Jason Paluzzi; Paul Marcet; and Fernando Vale, MD</i>
12:00–12:10PM	Discussion
12:10 – 12:15PM	Introduction of Distinguished Practitioner <i>Josh Dowling, MD</i>
12:15–12:30PM	Distinguished Practitioner <i>Robert L. Grubb, Jr, MD</i>
5:30–7:00PM	Welcome Reception

FRIDAY, FEBRUARY 24

7:00AM–1:00PM	Meeting Registration
7:00–7:30AM	Breakfast with Exhibitors
Scientific Session II	
7:30–7:45AM	DBS for Psychosurgery <i>Kelly Foote, MD</i>
7:45–8:00AM	Twelve Years Following Disaster: Reflections and Recovery <i>Frank Cullichia, MD</i>
8:00-8:10AM	Discussion

8:10–8:25AM	Grade 2 Meningiomas and Radiotherapy <i>Albert Kim, MD</i>
8:25–8:40AM	Classification of Medulloblastoma <i>Eric Thompson, MD</i>
8:40–8:55AM	The Emerging Biology of Exosomes <i>Reid Thompson, MD</i>
8:55–9:00AM	Discussion
9:00–9:05AM	Introduction of the Presidential Address <i>Ralph Dacey, MD</i>
9:05–9:30AM	Presidential Address <i>Josh Dowling MD</i>
9:30–10:00AM	Break with Exhibitors Meet the Expert Sessions
10:00–10:08AM	Standard Abstract #14: The Surgical Treatment of Nervus Intermedius Neuralgia: A Single Institution Case Series <i>William Clifton, MD; Kelly Gassie, MD; Sebastian Lopez-Chiriboga, MD; and Robert Wharen, MD</i>
10:08 – 10:16AM	Standard Abstract #15: Perioperative Stroke After Carotid Endarterectomy: Etiology and Implications <i>Nicolas K. Khattar, MD; Robert M. Friedlander, MD, MA; Rabih A. Chaer, MD; Efthymios D. Avgerinos, MD; Eric S. Kretz; Jeffrey R. Balzer, PhD; Donald J. Crammond, PhD; Miguel H. Habeych, MD, MPH; and Parthasarathy D. Thirumala, MD, MS</i>
10:16 – 10:24AM	Standard Abstract #16: The Utility of Platelet Function Testing Prior to Pipeline Embolization Device Placement for the Treatment of Intracranial Aneurysms: A Multicenter Cohort Study <i>Nimer Adeeb, MD; Christoph Griessenauer, MD; Paul M. Foreman, MD; Justin Moore, MD, PhD; Hussain Shallwani, MD; Rouzbeh Motiei-Langroudi, MD; Abdulrahman Alturki, MBBS, MSc, FRCSC; Raghav Gupta, BS; Apar Patel, MD, MPH; Adnan Sidiqqi, MD, PhD; Mark Harrigan, MD; Christopher Ogilvy, MD; and Ajith Thomas, MD</i>
10:24 – 10:32AM	Standard Abstract #17: A Randomized Controlled Trial of Safety and Tolerability of Gabapentin for Aneurysma ISubarachnoid Hemorrhage in Pain and Narcotic Reduction: Preliminary Findings <i>Oluwaseun Akinduro; Jang Yoon; Laxmi Dhakal; and William Freeman</i>

- 10:32 – 10:40AM Standard Abstract #18:
Impact of Morbid Obesity on Subarachnoid Hemorrhage Prognosis
Ross-Jordan S. Elliott, BA; Marwah A. Elsehety, BS; Denise Rios, ACNP-BC; Joel Michalek, PhD; and Ali Seifi, MD, FACP
- 10:40 – 10:48AM Standard Abstract #19:
The Relationship Between Patient Safety Indicator Events and Comprehensive Stroke Center Status of Unruptured Cerebral Aneurysms
Chad W. Washington, MD; L. Ian Taylor, BS; Robert J. Dambrino, BS; Paul R. Clark, MD; and Gregory J. Zipfel, MD
- 10:48 – 10:56AM Standard Abstract #20:
Pediatric Abusive Head Trauma and Stroke
Nickalus Khan; Paul Klimo; Brittany Fraser; Vincent Nguyen; Kenneth Moore; and Brandy Vaughn
- 10:56 – 11:04AM Standard Abstract #21:
Impact of Presurgical Comorbidities on Discharge Disposition and Length of Hospitalization Following Brain Tumor Surgery
Whitney Muhlestein; Silky Chotai; and Lola Chambless
- 11:04 – 11:12AM Standard Abstract #22:
The Impact of Craniotomy for Brain Tumor Case Volume on Patient Safety Indicators, Outcomes and In-hospital Mortality
Paul R. Clark, MD; Robert J. Dambrino, BS; and Chad W. Washington, MD
- 11:12 – 11:15AM Rapid Fire Abstract #23:
Cervical Pseudomeningocele-Induced Hydrocephalus Following Traumatic Brachial Plexus Injury: A Case Report
Sara Ganaha, MD; Montserrat Lara-Velazquez, MD; Jang W.. Yoon, MD, MS; Oluwaseun O. Akinduro, MD; Peter M. Murray, MD; and H. Gordon. Deen, MD
- 11:15 – 11:18AM Rapid Fire Abstract #24:
The Thoracolumbar Injury Classification and Severity Score in Children: A Reliability Study
Ross L. Dawkins; Joseph H. Miller, MD; Omar I. Ramadan; Elizabeth N. Kuhn, MD; Brandon G. Rocque, MD; Michael Conklin, MD; Bonita S. Agee, PhD; and Curtis J. Rozzelle, MD
- 11:18 – 11:21AM Rapid Fire Abstract #25:
Clival Chordoma Seeded in Nasal Septum Secondary to Biopsy
Montserrat A. Lara-Velazquez, MD, PhD Candidate; Ganaha Sara, MD; Yoon Jangwon, MD, MS; Clarence Watridge, MD; William E. Bolger, MD; and Ronald Reimer, MD

11:21 – 11:24AM	Rapid Fire Abstract #26: Improvement in Disability and Quality of Life and Pain 12-month After Elective Spine Surgery for Degenerative Cervical Radiculopathy: Analysis from Quality Outcome Database <i>Anthony L. Asher, MD; <u>Silky Chotai</u>; Clinton J. Devin, MD; Mohamad Bydon, MD; Matthew J. McGirt, MD; Hui Nian, PhD; Frank E. Harrell, PhD; Kristin R. Archer, MD; Kevin T. Foley, MD Praveen Mummaneni, MD; Steven Glassman, MD John J. Knightly, MD; and Christopher Shaffrey, MD</i>
11:24 – 11:27AM	Rapid Fire Abstract #27: Immediate Post-Operative Pain Scores Accurately Predicts with Neck Pain VAS Scores at 6 Weeks, 6 Months, and 1-Year After ACDF Surgery <i>Owoicho Adogwa, MD, MPH; <u>Aladine A. Elsamadicy</u>; Victoria D. Vuong, MS; Amanda Sergesketter, BS; Raul Vasquez, MD; Ankit Mehta, MD; Joseph Cheng, MD,MS; Carlos Bagley, MD, MBA; and Isaac Karikari, MD</i>
11:27 – 11:30AM	Rapid Fire Abstract #28: Extraforaminal Disk Herniations: What is the Best Approach? A Systematic Review and Meta-analysis <i>Olutomi Akinduro; <u>Oluwaseun Akinduro</u>; Panagiotis Kerezoudis; Jang Yoon; and Mohamad Bydon</i>
11:30–11:40AM	Discussion
11:40 – 11:45AM	Introduction of Hudson Lecture <i>Adam Arthur MD MPH</i>
11:45AM–12:30PM	Hudson Lecture <i>Dan Barrow MD</i>
12:30–12:45PM	Business Meeting
12:45–2:15PM	Non-CME Spine Workshop
6:30–10:00PM	Family Night
SATURDAY, FEBRUARY 25	
7:00AM–12:00PM	Meeting Registration
7:00–7:25AM	Breakfast with Exhibitors
Scientific Session III	
7:25–7:55AM	Spine Debate <i>Reg Haid, MD vs. Michael Wang, MD</i> Moderated by Dom Coric, MD
7:55-8:10AM	Risk Reduction Techniques for Major Spinal Surgery <i>Chris Shaffrey, MD</i>

8:10-8:25AM	Outcomes and Reimbursement in Spine Surgery <i>Kevin Foley, MD</i>
8:25-8:30AM	Discussion
8:30-8:45AM	Petroclival Meningiomas – Resisting the Siren’s Song <i>Anil Nanda, MD</i>
8:45-9:00AM	Update on Vascular Neurosurgery <i>Ray Turner, MD</i>
9:00-9:15AM	New Approaches to Epilepsy Surgery <i>Dan Couture, MD</i>
9:15–9:25AM	Discussion
9:25–9:40AM	Break with Exhibitors
9:40–9:48AM	Standard Abstract #29: Long-Term Study of Cervical Total Disc Replacement and ACDF: A Single Site Experience with One- and two- Level Arthroplasty <i>Jonathan Parish, MD; Margaret Boltes, RN; and Domagoj Coric, MD</i>
9:48 – 9:56AM	Standard Abstract #30: Posterior Micro-Endoscopic Discectomy vs. ACDF for Single-level Radiculopathy: Comparative Effectiveness and Cost-utility Analysis <i>Matthew J. McGirt, MD; Hunter Dyer, MD; Domagoj Coric, MD; Silky Chotai; Anthony L. Asher, MD; and Tim Adamson, MD</i>
9:56 – 10:04AM	Standard Abstract #31: Comparative-effectiveness of Single-Level Anterior Cervical Discectomy and Fusion versus Posterior Cervical Foraminotomy for Patients with Cervical Radiculopathy: Analysis from Quality Outcome Database <i>Anthony L. Asher, MD; Silky Chotai; Clinton J. Devin, MD; Mohamad Bydon, MD; Matthew J. McGirt, MD; Hui Nian, PhD; Frank E. Harrell, PhD; Kristin R. Archer, PhD, DPT; Kevin T. Foley, MD; Praveen Mummaneni, MD; Steven Glassman, MD; John J. Knightly, MD; and Christopher Shaffrey, MD</i>
10:04 – 10:12AM	Standard Abstract #32: Improvement in Disability and Quality of Life and Pain 12-month after Elective Spine Surgery for Degenerative Cervical Myelopathy: Analysis from Quality Outcome Database <i>Mohamad Bydon, MD; Silky Chotai; Clinton J. Devin, MD; Matthew J. McGirt, MD; Hui Nian, PhD; Frank E. Harrell, PhD; Kristin R. Archer, PhD DPT; Kevin T. Foley, MD; Praveen Mummaneni, MD; Steven Glassman, MD; John J. Knightly, MD; Christopher Shaffrey, MD; and Anthony L. Asher, MD</i>

- 10:12 – 10:20AM Standard Abstract #33:
Recognizing Cervicogenic Headaches and the Role of ACDF as a Definitive Treatment
Mark Shaya, MD and Remi Nader, MD
- 10:20 – 10:28AM Standard Abstract #34:
Healthcare Utilization after Vagal Nerve Stimulation Therapy
Stephen Reintjes, MD; Steven Housley, BS; and Fernando Vale, MD
- 10:28 – 10:36AM Standard Abstract #35:
Navigating Risk in a Capitated or Bundled Payment Model for Spine Surgery Introduction of the Carolina Semmes Prediction Tool
Matthew J. McGirt, MD; Scott L. Parker, MD; Silky Chotai; Deborah Pfortmiller, PhD; Jeffrey Sorenson; Kevin Foley, MD; and Anthony L. Asher, MD
- 10:36 – 10:44AM Standard Abstract #36:
Lumbar Fusion for Symptomatic Mechanical Disc Collapse without Stenosis improves Pain, Disability, and Quality of Life Rethinking the Debate on Degenerative Disc Disease
Matthew J. McGirt, MD; Clinton J. Devin, MD; Deborah Pfortmiller, PhD; Silky Chotai; Mohamad Bydon, MD; Steven D. Glassman, MD; and Anthony L. Asher, MD
- 10:44 – 10:52AM Standard Abstract #37:
Guidelines for the Use of Electrophysiological Monitoring for Surgery on The Human Spinal Cord and Spinal Column
Mark N. Hadley; Christopher D. Shank; Curtis J. Rozzelle; and Beverly C. Walters
- 10:52 – 11:00AM Standard Abstract #38:
Minimally Invasive Transforaminal Vs. Direct Lumbar Interbody Fusion: Effect on Return to Work, Narcotic Usage and Quality of Life
Terence Verla, MD, MPH; Lona Winnegan, NP; Nasser Yaghil, MD; Ali Palejwala, MD; Rory Mayer, MD; Jacob Cherian, MD; and Ibrahim Omeis, MD
- 11:00 – 11:08AM Standard Abstract #39:
Thresholds of Preoperative Opioid Use for Meaningful Improvement after Elective Spine Surgery
Ahilan Sivaganesan; Joseph Wick; Silky Chotai; Matt McGirt; and Clinton Devin
- 11:08 – 11:11AM Rapid Fire Abstract #40:
Surgeon-Level Variability in Cost and Outcomes for Elective Lumbar Decompression and Fusion
Silky Chotai; Ahilan Sivaganesan, MD; John A. Sielaycki, MD; Kristin R. Archer, PhD, DPT; Scott L. Parker, MD; Matthew J. McGirt, MD; and Clinton J. Devin, MD

- 11:11 – 11:14AM Rapid Fire Abstract #41:
Variation in the Cost and Benefit of Spine Surgery at the Individual Patient Level: Re-examining the Definition of Healthcare Value
Scott L. Parker, MD; Silky Chotai, MD; Clinton J. Devin, MD; Lindsay Tetreault, PhD; Michael Fehlings, MD; Matthew J. McGirt, MD
- 11:14 – 11:17AM Rapid Fire Abstract #42:
Pre-Operative Nutritional Status is an Independent Predictor of 30-Day Hospital Readmission After Elective Spine Surgery
Aladine A. Elsamadicy; Owoicho Adogwa, MD, M.PH; Victoria D. Vuong, MS; Amanda Sergesketter, BS; Raul Vasquez, MD; Ankit Mehta, MD; Joseph Cheng, MD,MS; Carlos A. Bagley, MD, M.BA; and Isaac O. Karikari, MD
- 11:17 – 11:20AM Rapid Fire Abstract #43:
Effects of Immediate Post-Op Pain Medication on Length of Hospital Stay: Does It Make a Difference?
Aladine A. Elsamadicy; Owoicho Adogwa, MD, M.PH; Jared Fialkoff, BS; Amanda Sergesketter, BS; Victoria Vuong, MS; Ankit Mehta, MD; Raul Vasquez, MD; Joseph Cheng, MD,MS; Carlos Bagley, MD, M.BA; and Isaac Karikari
- 11:20 – 11:23AM Rapid Fire Abstract #44:
The Effect of Race, Ethnicity, Education Level, and Spine Pathology Type on Minimum Clinical Important Difference (MCID) after Lumbar Spine Surgery
Matthew J. McGirt, MD; Silky Chotai; Deborah Pfortmiller, PhD; Mohamad Bydon, MD; Clinton J. Devin, MD; and Anthony L. Asher, MD
- 11:23 – 11:26AM Rapid Fire Abstract #45:
A Minimally Invasive Lumbar Fusion Technique Utilizing a Midline Approach and Navigation in an Outpatient Setting
Scott Schlesinger
- 11:26 – 11:29AM Rapid Fire Abstract #46:
Does the Lack of Informed Consent Result in Increased Spinal Surgery Malpractice Litigation?
Panagiotis Kerezoudis, MD; Marcus Gates, MD; Jennifer Grauberger, BS; Asad J. Choudhry, MBBS; Mohammed Ali. Alvi, MD; Ahmad Nassr, MD; Bradford Currier, MD; and Mohamad Bydon
- 11:29 – 11:32AM Rapid Fire Abstract #47:
Micro vs. Macrodiscectomy: Does Use of the Microscope Reduce Complication Rates?
Marcus Gates, MD; Joseph Kapurch, MD; Meghan E. Murphy, MD; Jeffrey Hakim, PhD; Panagiotis Kerezoudis, MD; Daniel S. Ubl, MPH; Elizabeth Habermann, MPH, PhD; and Mohamad Bydon

11:32 – 11:35AM	Rapid Fire Abstract #48: Risk Factors for Durotomy in Elective Spine Surgery <i>Daniel S. Shepherd, MD; Panagiotis Kerezoudis, MD; Meghan E. Murphy, MD; Patrick R. Maloney, MD; Brandon A. McCutcheon, MD, MPP; Lorenzo Rinaldo, MD, PhD; Daniel S. Ubl, MPH; Elizabeth Habermann, MPH, PhD; and Mohamad Bydon</i>
11:35-11:45AM	Discussion
11:45 -11:55AM	Cuban Neurosurgical Society <i>Enrique de Jongh, MD</i>
11:55–12:00PM	Introduction to Semmes Lecture <i>Josh Dowling MD</i>
12:00PM–12:30PM	Semmes Lecture <i>Jerry Oakes</i>
12:30–12:35PM	Closing Remarks <i>Josh Dowling MD</i>
6:30–10:30PM	Final Reception & Banquet