PROGRAM

Wednesday, March 25
1:00 – 5:00 pm   Registration
2:00 – 4:00 pm   Executive Committee Meeting

Thursday, March 26
7:00 am – 1:00 pm Registration
7:00 – 7:30 am   Breakfast with Exhibitors

Scientific Session I
Moderator:

7:30 – 7:40 am   Opening Remarks
Dom Coric, MD

7:40 – 8:00 am   Epilepsy Surgery: The Invasive Monitoring Debate – Grids vs. SEEG
Kristen Riley, MD

8:00 – 8:20 am   Controversies and Evolving Treatment Paradigms in the Management of Cerebral Metastases
Tony Asher, MD

8:20 – 8:40 am   Current Treatments of AVM’s
Harry van Loveren, MD

8:40 – 9:00 am   Use of Intraoperative MRI
Michael Chicoine, MD

9:00 – 9:20 am   Flow Diversion for Small Anterior and Posterior Circulation Aneurysms: Practice Trends and Efficacy
Spiros Blackburn, MD

9:20 – 9:40 am   Remapping the Human Homunculus - Electrocorticography Studies
Jeff Ojemann, MD

9:40 – 9:45 am   Introduction of Hudson Lecture
Joshua Dowling, MD

9:45 – 10:15 am  Hudson Lecture: Colloid Cysts
Ralph G. Dacey, MD

10:15 – 10:40 am Break with Exhibitors

Owoicho Adogwa, MD, MPH; Rupen Desai, BS; Daniel Loriaux, BS; Jessica Moreno, RN, BSN; Joseph Cheng, MD; Oren Gottfried, MD; Carlos A. Bagley, MD
**Standard Abstract #2:** Corrective Spinal Surgery May be Protective Against Stroke in Patients with Blunt Traumatic Vertebral Artery Occlusion

**Paul M. Foreman, MD; Christoph J. Griessenauer, MD; Michelle Chua; Mark N. Hadley, MD; Mark R. Harrigan, MD**

**Standard Abstract #3:** Evaluation of Stigmatization and Quality Of Life At Long Term Follow-Up in Patients with Surgery for Epilepsy in Uganda

**Warren Boling, MD; Anita Fletcher, MS; Helen Nye, MD**

**Standard Abstract #4:** Percutaneous Retrogasserian Balloon Compression for the Treatment of Drug Resistant Trigeminal Neuralgia in Multiple Sclerosis Patients

**Andres M. Alvarez-Pinzon, MD, MSc; Aizik Wolf, MD, AANS, FAANS; Marcos Sanchez - Gonzalez, MD, PhD; Jose E. Valerio, MD, FAANS**

**Standard Abstract #5:** The Non-surgical Nature of Patients with Subarachnoid or Intraparenchymal Hemorrhage Associated with Mild Traumatic Brain Injury

**Benjamin J. Ditty; Nidal B. Omar; Paul M. Foreman, MD; Daxa M. Patel, MD; Patrick R. Pritchard, MD; Mamerhi O. Okor, MD**

**Standard Abstract #6:** Peripheral Nerve Grafts Reduce Medication Requirements and Reduce Motor Scores in Parkinson’s Disease Patients with Deep Brain Stimulation Therapy

**Craig van Horne, MD, PhD; George Quintero, PhD; Julie Gurwell, PAc, PhD; John Slevin, MD; Greg Gerhardt, PhD**

**Standard Abstract #7:** Development and Validation of a Predictive Model For 90-day Readmission Following Elective Spine Surgery

**Scott L. Parker, MD; Ahilan Sivaganesan, MD; Silky Chotai, MD; Anthony L. Asher, MD; Matthew J. McGirt, MD; Clinton J. Devin, MD**

**Standard Abstract #8:** Encephaloduroartherosynangiosis (EDAS) and Encephalomyoarteriosynangiosis (EMAS) for Treatment of Moyamoya Syndrome in Pediatric Patients with Sickle Cell Disease: A Cohort Study

**Christoph J. Griessenauer, MD; Jeffrey Lebensburger, MD; Michelle Chua; Winfield Fisher, MD; Lee Hilliard, MD; Christina Bemrich-Stolz, MD; Thomas Howard, MD; James Johnston, MD**

**Rapid Fire Abstract #9:** A Retrospective Clinical and Fusion Analysis of the STALIF-C Device with Stem-Cell Derivative Bone Graft Material

**Said Elshihabi**

**Rapid Fire Abstract #10:** Eyebrow Craniotomy in Pediatric Patients Using Ultrasonic Osteotome: A Technical Analysis and Description of Technique

**Carolyn Quinsey; Mark Van Poppel; Scott Wait**

**Rapid Fire Abstract #11:** The Impact of Resident Handoff on Length of Stay for Neurosurgical Patients: A Case-Control Study

**Elizabeth N. Kuhn, MD; Matthew C. Davis, MD; James M. Markert, MD**
11:53 – 11:56 am  **Rapid Fire Abstract #12:** Superior Facet Violation and Adjacent Segment Disease in Patients with Spinal Instrumentation with Neuronavigation  
*Sanjeet S. Grewal, MD; Stephen M. Pirris, MD*

11:56 – 11:59 am  **Rapid Fire Abstract #13:** Stenosis and Occlusion of the Internal Carotid Artery as a Presentation of Large Cavernous Carotid Aneurysm: A Case Series  
*Christopher M. Nickele, MD; Giuseppe Lanzino, MD; Adam S. Arthur, MD, MPH*

12:00 – 12:05 pm  Introduction of Distinguished Practitioner  
*Wink Fisher, MD*

12:05 – 12:20 pm  Distinguished Practitioner  
*Craig VanDerVeer, MD*

5:30 – 7:00 pm  Welcome Reception

**Friday, March 27**

7:00 am – 1:00 pm  Meeting Registration

7:00 – 7:30 am  Breakfast with Exhibitors

**Scientific Session II**  
*Moderator:*

7:30 – 8:00 am  Neurosurgery from a Military Perspective  
*Dennis Rivet, MD*

8:00 – 8:20 am  The National Neurosurgery Quality and Outcomes Database at Two Years: Results on the Safety and Effectiveness on Real World Surgical Spine Care  
*Matt McGirt, MD, Tony Asher, MD*

8:20 – 8:40 am  Washington Update  
*Katie Orrico*

8:40 – 9:00 am  RUC Update  
*John Wilson, MD*

9:00 – 9:05 am  Introduction of the Presidential Address  
*John Wilson, MD*

9:05 – 9:30 am  Presidential Address  
*Dom Coric, MD*

9:30 – 10:00 am  Break with Exhibitors

10:00 – 10:08 am  **Standard Abstract #14:** Stereotactic Radiosurgery for Cerebellar Arteriovenous Malformations: Predictors of Treatment Outcomes and Case-Control Analysis of the Effect of Infratentorial Location  
*Dale Ding, MD; Robert M. Starke, MD, MSc; Chun-Po Yen, MD; Jason P. Sheehan, MD, PhD*
10:08 - 10:16 am  **Standard Abstract #15:** Carotid Endarterectomy versus Carotid Artery Stenting: Current Utilization Trends  
Stephen Reintjes; Alyssa Macc; Antonio Glenn; Joshua Beckman, MD; Harry Van Loveren, MD; Siviero Agazzi, MD; Tsz Lau, MD

10:16 – 10:24 am  **Standard Abstract #16: Augustus McCravey Award**  
Lumbar Discectomy in the Ambulatory Care Setting: Defining its Value Across the Acute and Post-acute Care Episode  
Scott L. Parker; Anthony L. Asher, MD; Hunter Dyer, MD; Tim Adamson, MD; Domagoj Coric, MD; Clinton J. Devin, MD; Matthew J. McGirt, MD

10:24 – 10:32 am  **Standard Abstract #17:** Minimally Invasive Tubular Access for Posterior Cervical Foraminotomy: An Effective Technique with Low Morbidity  
Byron Branch, MD; Donald Hilton Jr., MD

10:32 – 10:40 am  **Standard Abstract #18:** Independent Predictors of Complications after Direct Lateral Interbody Fusion: A Single Institutional Prospective Cohort Study  
Owoicho Adogwa, MD, MPH; Rupen Desai, BS; Daniel Loriaux, BS; Parastou Fatemi, BS; Harrison Farber, BS; Joseph Cheng, MD, MS; Carlos Bagley, MD; Robert E. Isaacs, MD; Oren Gottfried, MD

10:40 – 10:48 am  **Standard Abstract #19:** Development and Validation of a Prediction Model for Outcome After Low-back Surgery: Individualized Likelihood of Complication, Hospital Re-admission, Return to Work, and 12-month Improvement in Functional Disability  
Matthew McGirt; Ahilan Sivaganesan; Clinton Devin

10:48 – 10:56 am  **Standard Abstract #20:** Asleep Deep Brain Stimulation Using Routine Microelectrode Recording Provides a Safe and Effective Alternative for Parkinson’s Disease Patients Who Cannot Tolerate Awake Brain Surgery  
John R. Lamm, MD; George Quintero, PhD; Greg Gerhardt, PhD; Julie Gurwell, PhD; Craig van Horne, MD, PhD

10:56 – 11:04 am  **Standard Abstract #21:** Placement of C1 Pedicle Screws Using Minimal Exposure; Radiographic, Clinical, and Literature Validation  
Richard P. Menger; Christopher J. Storey, MD, PhD; Menarvia KC Nixon, MD; Justin Haydel, MD; Anil Nanda, MD, MPH, FACS; Anthony Sin, MD

11:04 – 11:12 am  **Standard Abstract #22:** Posterior Micro-Endoscopic Discectomy vs. ACDF for Single-level Radiculopathy: Comparative Effectiveness and Cost-Utility Analysis  
Matthew McGirt; Scott Parker; Hunter Dyer; Tim Adamson; Paul Kim; Domagoj Coric; Anthony Asher

11:12 – 11:15 am  **Rapid Fire Abstract #23:** Retrospective, Single-center Study Evaluating the Efficacy of a Gamma Knife Radiosurgery in Primary Central Nervous System Lymphoma in Immunosuppressive Patients  
Andres M. Alvarez-Pinzon, MD, MSc; Marcos A. Sanchez - Gonzalez, MD, PhD; Aizik Wolf, MD, AANS, FAANS; Jose E. Valerio, MD, FAANS

11:15 – 11:18 am  **Rapid Fire Abstract #24:** Predictors of Shunt Revision in Children  
Paul Klimo, MD
*Paul Klimo, MD*

11:21 – 11:24 am  **Rapid Fire Abstract #26**: Pseudoprogression of Spinal Metastasis after Stereotactic Radiosurgery  
*Douglas R. Taylor, MD; Jason Weaver, MD*

11:24 – 11:27 am  **Rapid Fire Abstract #27**: Intraoperative Computed Tomography Angiography: A Novel Completion Imaging Modality for Carotid Endarterectomy  
*Anish N. Sen, MD and Edward AM Duckworth, MD*

11:27 – 11:30 am  **Rapid Fire Abstract #28**: A New Minimally Invasive Option for Extending Posterior Fixation in Patients with Adjacent Segment Disease  
*Tim E. Adamson, MD*

11:30 – 11:35 am  Introduction to Ned Downing Lecture  
*Dom Coric, MD*

11:35 – 12:20 pm  Ned Downing Lecture  
*Hugh McColl Sr.*

12:20 – 12:40 pm  Business Meeting

12:45 – 2:15 pm  Lateral Spine Workshop  
*Juan Uribe, MD, Kevin Cahill, MD*

**Saturday, March 28**

7:00 am – 12:00 pm  Meeting Registration
7:00 – 7:25 am  Breakfast with Exhibitors

**Scientific Session III**  
*Moderator:*

7:25 – 7:35 am  A Couple of Obvious & Not So Obvious Socioeconomic Issues for Neurosurgeons  
*Clarence Watridge, MD*

7:35 – 7:45 am  Neurosurgery Research and Education Foundation Update  
*Jon Robertson, MD*

7:45 – 8:00 am  Long-term Outcomes of Cervical TDR  
*Mark Shaffrey, MD*

8:00 – 8:15 am  Spino-Pelvic Parameters and Correction of Spinal Deformity  
*Chris Shaffrey, MD*

8:15 -8:30 am  Anterior Lumbar Reconstruction for Lumbar Alignment  
*Reg Haid, MD*
8:30-8:45 am  Lateral Interbody Fusion: Anterior Release and Expandable Spacers in Deformity Correction  
Paul Kim, MD

8:45-9:00 am  MIS vs Open Surgery for Spinal Deformity: Treatment Algorithm  
Praveen Mummaneni, MD

9:00 -9:05 am  Introduction to Pedicle Screw Litigation  
Dom Coric, MD

9:05 – 9:25 am  Pedicle Screw Litigation Revisited  
Hansen Yuan MD, Ron Pickard

9:25 – 9:45 am  Break with Exhibitors

9:45 – 9:53 am  Standard Abstract #29: Five Year Results of Cervical Total Disc Replacement with the Mobi-C Cervical Artificial Disc Compared with Anterior Discectomy and Fusion For Treatment Of 2-level Symptomatic Degenerative Disc Disease: An Independent Critical Review Of The Prospective, Randomized, Controlled Multicenter Investigational Device Exemption Clinical Trial  
Domagoj Coric, MD; Kris Radcliff, MD; Todd Albert, MD

9:53 - 10:01 am  Standard Abstract #30: Lateral Ventricle Ratio, a Predictor of in Hospital Mortality in Moderate to Severe Traumatic Brain Injury  
Cory Hartman; Gregory Murad

Jacob Lepard, MD; Beverly C. Walters, MD; Curtis J. Rozzelle, MD

10:09 – 10:17 am  Standard Abstract #32: Basic Science Award  
In Vivo Mri Tracking Of Mesenchymal Precursor Cells Labeled With Iron Oxide Fluorescent Nanoparticles (IODEX) In An Ovine Model Of Disc Degeneration  
Johanne Summers; David Oehme; Charles Handley; John Troupis; John Finnie; James Manavis; Courtney McDonald; Anne Gibbon; Kishore Bhakoo; Gary Egan; Michael Eager; Ruth Vreys; Amanda Ng; Peter Ghosh; Tony Goldschlager; Graham Jenkin

10:17 – 10:25 am  Standard Abstract #33: Revisiting Safety and Efficacy of Endovascular Therapy for Symptomatic High-Grade Stenosis in Intracranial Vessels  
Jang W. Yoon, MD, MS; Leonardo Brasiliense, MD; David A. Miller, MD; Rabih G. Tawk, MD; Ricardo A. Hanel, MD, PhD

10:25 – 10:33 am  Standard Abstract #34: Measures of Surgical Effectiveness One-Year After Lumbar Spine Surgery Accurately Predict Two-Year Outcomes  
Owoicho Adogwa, MD, MPH; Daniel B. Loriaux, BS; Rupen Desai, BS; Joseph Cheng, MD, MS; Carlos Bagley, MD; Robert E. Isaacs, MD; Oren Gottfried, MD

10:33 – 10:41 am  Standard Abstract #35: Complications Associated with Bacitracin Powder in Surgical Wounds  
Joshua M. Beckman, MD; Ernest Amankwah, PhD; Lisa Tetreault, RN; Sharon A. Perlman, MD; Gerald Tuite, MD
10:41 – 10:49 am  **Standard Abstract #36**: Viability of Second Gamma Knife Radiosurgery vs Percutaneous Retrogasserian Balloon Compression for Primary Trigeminal Neuralgia
*Andres M. Alvarez-Pinzon, MD, MSc; Aizik L. Wolf, MD, AANS, FAANS; Jose E. Valerio, MD, FAANS*

10:49 – 10:57 am  **Standard Abstract #37**: Super-selective Amygdalohippocampotomy Using Real-Time Magnetic Resonance Guided Laser Ablation in Patients with Mesial Temporal Epilepsy
*Jang W. Yoon; William Tatum, DO; Vivek Gupta, MD; Jerry J. Shih, MD; Robert E. Wharen, MD*

10:57 – 11:05 am  **Standard Abstract #38**: Geriatric Co-Management Reduces Peri-Operative Complications and Shortens Duration of Hospital Stay after Lumbar Spine Surgery: A Prospective Single Institutional Experience
*Owoicho Adogwa, MD; Daniel B. Loriaux, BS; Rupen Desai, BS; Harrison Farber, BS; Jessica Moreno, RN, BSN; Joseph Cheng, MD, MS; Mitchell Heflin, MD; Oren Gottfried, MD.; Carlos Bagley, MD*

11:05 – 11:13 am  **Standard Abstract #39**: Treatment of Vertebrobasilar Fusiform Aneurysms with Pipeline Embolization Device: Long-term Follow-up
*Osama Ahmed, MD; Christopher Storey, MD, PhD; Piyush Kalakoti, MD; Jai Thakur, MD; Shihao Zhang, MD; Anil Nanda, MD, MPH, FACS; Bharat Guthikonda, MD; Hugo Cuellar, MD*

11:13 – 11:21 am  **Standard Abstract #40**: Patient Satisfaction in Spine Surgery: A Systematic Review of the Literature
*Joshua Y. Menendez, MD; Joseph H. Miller, MD; Robert P. Naftel, MD; Beverly C. Walters, MD, MSc, FRCS; Barton L. Guthrie, MD; Mark N. Hadley, MD*

11:21 – 11:29 am  **Standard Abstract #41**: Allograft Versus Autograft in Pediatric Occipitocervical Fusions: An Analysis and Review of the Data
*Stephen Reintjes; Luis Rodriguez; Gerald Tuite*

11:29 – 11:32 am  **Rapid Fire Abstract #42**: Prevention of Post Laminectomy Membrane with Laminoplasty
*Richard H. Bobo, MD*

11:32 – 11:35 am  **Rapid Fire Abstract #43**: Bifrontal Basal Approach to the Sellar-suprasellar Tumours
*Awadhesh K. Jaiswal, MCh; Kuntal K. Das; Sushila Jaiswal; Rabi N. Sahu; Sanjay Behari*

11:35 – 11:38 am  **Rapid Fire Abstract #44**: Role of Platelet-Rich Plasma in Cardiovascular Dysfunction Induced by Spinal Cord Injury
*Ahmed R. Ahmed, MD; Mohamed Hassan Elsayed, MD; Wessam Ezzat Morsi, MD*

11:38 – 11:41 am  **Rapid Fire Abstract #45**: Decompressive Footplate Cervical Laminectomy: Technique and Outcomes
*Byron Branch, MD; David Jimenez, MD*
11:41 – 11:44 am Rapid Fire Abstract #46: The Use of Intra-operative 3 Dimensional Image Guidance for Revision of Failed Minimally-Invasive Sacro-Iliac Fusion
Stephen Pirris, MD; Eric W. Nottmeier, MD; William Clifton, MD; Kamran Parsa, DO

11:44 – 11:47 am Rapid Fire Abstract #47: Effect of Transitioning to a Night Float Resident Coverage System on Length of Hospital and ICU Stay in Neurosurgical Patients
Matthew C. Davis, MD; Elizabeth N. Kuhn, MD; James M. Markert, MD

Joshua M. Beckman; Konrad Bach, MD; Juan Uribe, MD

11:50 – 11:55 am Introduction to Semmes Lecture
Dom Coric, MD

11:55–12:25 pm Semmes Lecture: The World is Not Flat – Neither is Your Spine!
The Journey from Traditional Decompression to Innovative Deformity Correction in Neurosurgery
Charlie Branch Jr, MD

12:25 – 12:30 pm Closing Remarks
Dom Coric, MD