71st Southern Neurosurgical Society Annual Meeting  
February 26-29, 2020  
PROGRAM

WEDNESDAY, FEBRUARY 26th

12:00 pm-5:00 pm  NEW non-CME Cadaveric Lab for Residents & Fellows  
(Hosted at Barrow Neurological Institute)
1:00 pm-5:00 pm   Meeting Registration Opens  
2:00 pm-4:00 pm   Executive Council Meeting

THURSDAY, FEBRUARY 27th

7:00 am-1:00 pm  Meeting Registration
7:00 am-7:30 am  Breakfast with Exhibitors

Scientific Session I  
Moderators: TBD
7:30 am-7:40 am  Opening Remarks (with Pigeonhole Live Q & A)  
Dennis J. Rivet, MD

7:40 am-8:05 am Targeting Resistant Cells in Glioblastoma  
Sunit Das, MD

8:05 am-8:30 am Initial Experience with Direct Access Embolizations  
Min S. Park, MD

8:30 am-8:55 am Deliberate Practice in Neurosurgical Residency Training  
Carolyn Quinsey, MD

8:55 am-9:20 am Resilience Empowered by Duty  
James Ecklund, MD

9:20 am-9:30 am Discussion

9:30 am-10:00 am Break with Exhibitors  
Exhibit Hall

Scientific Session II  
Moderators: TBD
10:00 am-11:30 am Abstracts & Discussion (with Pigeonhole Live Q & A)

10:00 am-10:06 am Standard Abstract #1: Learner Perceptions, Educational Value, and Cost Associated with the Use of Biomimetic Simulation Compared to Cadaveric Models for Anatomical and Procedural Learning  
William Clifton; Aaron Damon; Karim ReFaey, MD; Alfredo Quinones-Hinojosa, MD; Eric Nottmeier, MD; and Mark Pichelmann, MD

10:06 am-10:12 am Standard Abstract #2: Preoperative Acetazolamide Challenge in Pediatric Chiari 1 Malformation  
Vincent Rossi, MD
10:12 am-10:18 am  Standard Abstract #3: An Investigational Study of a Novel Parathyroid Hormone-based Bone Graft Substitute for Interbody Spinal Fusion Using an In-vivo Ovine Model: Emphasis on Osseointegration and Neurohistopathologic Response
Kyle Mueller, MD; James Klunk, DO; Kenneth Mullinix, MS; and Bryan Cunningham, PhD

Aqib Zehri, MD; Keyan Peterson, MBA; Carol Kittel; Katriel Lee; Jonathon Wilson, MD; and Wesley Hsu, MD

10:24 am-10:29 am  Discussion

10:29 am-10:35 am  Standard Abstract #5: Predictive Factors Associated with Cranioplasty Complications
Ana Patel, BA; Chesney Oravec, MD; Christopher Runyan, MD, PhD; Daniel Couture, MD

10:35 am-10:41 am  Standard Abstract #6: Poliovirus Oncolytic Activity in Medulloblastoma is Mediated by Oxidative Stress
Eric Thompson, MD and Wafa Hassen

10:41 am-10:47 am  Standard Abstract #7: Ten Years of Vascular Injuries Associated with Gunshot Wounds to the Head: A Single Institution Experience
Fakhry M. Dawoud, BS; Michael J. Feldman, MD; Ranbir Ahluwalia; Daniel Wolfson; Steven Roth, MD; Patrick Kelly, MD, MSCI; Rohan Chitale, MD; and Aaron M. Yengo-Kahn, MD

10:47 am-10:53 am  Standard Abstract #8: Safety and Efficacy of Flow Diversion for Posterior Inferior Cerebellar Artery Aneurysms
Jonathan M. Parish, MD; David R. Peters, MD; Prasad Kanuparthi; Meg Smith; William R. Stetler and Joe D. Bernard, MD

10:53 am-10:59 am  Discussion

10:59 am-11:02 am  Rapid Fire Abstract #9: Predictors of Failed Radiographic Outcomes Following Posterior Fusion Surgery in Degenerative Cervical Spine Disease
Nida Fatima, MD and John Shin, MD

11:02 am-11:05 am  Rapid Fire Abstract #10: Physician Influence on Parental Decision to Allow Child Participation in Sports
Natalie Hibshman, BA; Aaron Yengo-Kahn, MD; Alyssa Wiseman, MA, MS Patrick Kelly, MD; Chevis Shannon, MBA, MPH, DrPH; and Christopher Bonfield, MD

11:05 am-11:08 am  Rapid Fire Abstract #11: Deep Brain Stimulation of the Globus Pallidus Externus: An Exploratory Human Study of a Novel Target to Treat Insomnia in Parkinson’s Disease
Sanjeet Grewal, MD; Erik Middlebrooks; Pablo Castillo; Ryan Uitti; and Robert E. Wharen

11:08 am-11:11 am  Rapid Fire Abstract #12: Outcome of Non-operative Management of Cervical Spinal Cord Injury Without Radiological Evidence of Trauma (sciworet)
Joseph A. Adedigba, B.A.; Adetunji A. Oremakinde, MD, MSc, FWACS; Adefolahan O. Malomo, MD, MHSc, FWACS; Temitayo M. Shokunbi, MD, MSc, FRCSC, FWACS; Brendan Huang; and Augustine A. Adeolu, MD, FWACS

11:11 am-11:19 am  Discussion
11:19 am-11:22 am  Rapid Fire Abstract #13: Functional Activation Patterns Produced by Deep Brain Stimulation of the Anterior Nucleus of the Thalamus in Humans
Sanjeet Grewal, MD; Erik Middlebrooks; William O. Tatum; Lela Okromelidze; and Robert E. Wharen

11:22 am-11:25 am  Rapid Fire Abstract #14: Experience Matters: Natural Language Processing Reveals that as a Surgeon Practices Longer His Notes Become Increasingly Predictive of Outcome After Meningioma Resection
Whitney E. Muhlestein, MD; Meredith A. Monsour, BS; Dallin S. Akagi, BS; Reid C. Thompson, MD; and Lola B. Chambless, MD

11:25 am-11:28 am  Rapid Fire Abstract #15: Changing the Zone Of Uncertainty to the Zone of Certainty: A Case Series of Caudal Zona Incerta Deep Brain Stimulation
Thomas (Tripp) K. Hines, III, MD; Dhanunjaya R. Ginjupally, MBBS, MS, MCh; Christopher Samaan, BS; George Quintero, PhD; Ashley W. Guiliani, DNP, APRN; Julie A. Gurwell, PhD, PA-C; Zain Guduru, MD; Greg A. Gerhardt, PhD; and Craig van Horne, MD, PhD

11:28 am-11:31 am  Rapid Fire Abstract #16: Dual Layer Titanium Mesh Placement for Temporal Fossa and Temporalis Muscle Reconstruction After Intraosseous Meningioma Resection
Marcus Stephens, MD and Thomas W. Morris, MD

11:31 am-11:40 am  Discussion

11:40 am-11:45 am  Introduction to Ned Downing Lecture
TBD

11:45 am-12:20 pm  Ned Downing Lecture
David Grann

12:30 pm-1:30 pm  Resident Lunch:
How to Evaluate a Neurosurgery Practice Opportunity
Nancy Cusick, Rosman Search, Inc.

5:30 pm-7:00 pm  Welcome Reception in Exhibit Hall
FRIDAY, FEBRUARY 28th

7:00 am-1:00 pm  Meeting Registration
7:00 am-7:30 am  Breakfast with Exhibitors

Scientific Session III
Moderators: TBD

7:30 am-7:35 am  Opening Remarks (with Pigeonhole Live Q & A)
  
  Dennis J. Rivet, MD

7:35 am-8:00 am  Privacy and Cybersecurity in Neuromodulation Systems: Cautions of Technology in the Digital Data Age
  
  Erika Petersen, MD

8:00 am-8:25 am  Train Like an Athlete: Mental and Physical Conditioning for Today’s Neurosurgeon
  
  Chris Neal, MD

8:25 am-8:50 am  OR as a Laboratory – Therapeutic Development in Gliomas
  
  Michael Vogelbaum, MD, PhD

8:50 am-9:15 am  Salvage Treatment for Progressive Moyamoya Disease
  
  John Wanebo, MD

9:15 am-9:20 am  Discussion

9:20 am-9:25 am  Introduction to Presidential Address
  
  TBD

9:25 am-9:55 am  Presidential Address
  
  Eric Sherburn, MD

9:55 am-10:25 am  Break with Exhibitors             Exhibit Hall

Scientific Session IV
Moderators: TBD

10:25 am-10:31 am  Standard Abstract #17: Development of Advanced Cervical Deformity Frailty Index for Preoperative Risk Stratification
  
  Nida Fatima, MD and John Shin, MD

10:31 am-10:37 am  Standard Abstract #18: The One Health Consortium: Design of a Phase I Clinical Trial to Evaluate M032, A Genetically Engineered HSV-1 Expressing IL-12, In Combination With A Checkpoint Inhibitor in Canine Patients with Sporadic High Grade Gliomas
  
  M. R. Chambers, DVM, MD; R. T. Bentley, BVSc; David Crossman, PhD; Jeremy B. Foote, DVM, PhD; J. W. Koehler, DVM, PhD; James M. Markert, MD, MPH; Nidal B. Omar, MD; Simon R. Platt, BVM&S; D M. Self, BS; Andy Shores, DVM, MS, PhD; Don Sorjonen, DVM, MS; Alicia M. Waters, MD; Amy B. Yanke, DVM, MS; and G. Y. Gillespie, PhD

10:37 am-10:43 am  Standard Abstract #19: Nutritional Status as a 30-d Predictor of Complications and Mortality Following Posterior Cervical Fusion
  
  Nida Fatima, MD and John Shin, MD
10:43 am-10:49 am  Standard Abstract #20: Prophylactic Closed-incisional Negative Pressure Therapy in Spine Surgery: A Multicenter, Observational Study
Kyle Mueller, MD; Matthew D’Antuono, BS; Nirali Patel, MD; Gnel Pivazyan, MD; Edward Aulisi, MD; Karen Evans, MD; and Nathan Nair, MD

10:49 am-10:54 am  Discussion

10:54 am-11:00 am  Standard Abstract #21: Integrated Interbody Fusion in Multi-level Cervical Constructs in Clinical Practice
Jason Garber, MD

11:00 am-11:06 am  Standard Abstract #22: Industry Payments in Neurosurgery: A 5-year Analysis of the CMS Open Payments Database
Mustafa Motiwala, MD; Jock Lillard, MD; Michael Herr, PhD; Sonia Ajmera, BA; Hassan Saad, MD; Andrew Schultz, MS; Brittany Fraser, MD; David Wallace, BS; Sebastian Norrdahl, MS; Olutomi Akinduro, BS; Chesney Oravec, MD; Raymond Xu, BS; Brian Jimenez, MS; Melissa Justo, BS; Jennings Hardee, BS; Yusuf Yunis, MD; Busra Gungor, BS; Joseph Whittaker, BS; and Paul Klimo, MD, MPH

11:06 am-11:12 am  Standard Abstract #23: Neighborhood Socioeconomic Status and Mechanical Thrombectomy Outcomes
Sanjana Salwi, BA; Pious Patel, BA; Matthew Fusco, MD; Michael Froehler, MD; Eva Mistry, MD; Akshikumar Mistry, MD; and Rohan Chitale, MD

11:12 am-11:18 am  Standard Abstract #24: Microsurgical Drezotomy in Spastic Cerebral Palsy: An Option Worth a Shot
Nishant Goyal, MCh; Shobha Arora; and Poorvi Kulsheshtra

11:18 am-11:24 am  Discussion

11:24 am-11:27 am  Rapid Fire Abstract #25: Cervical Disc Arthroplasty or Anterior Cervical Discectomy and Fusion for Degenerative Disc Diseases? A Comparison Analysis from National Spine Registry
Inamullah Khan; Kristin R. Archer, DPT, PhD; Jacquelyn Pennings, PhD; Ahilan Sivaganesan, MD; Mohamad Bydon, MD; Anthony L. Asher, MD; and Clinton J. Devin, MD

11:27 am-11:30 am  Rapid Fire Abstract #26: Reducing Transforaminal Lumbar Interbody Fusion Hospitalization Cost Due to Improved Efficiency And Safety
John Peloza, MD; Michael A. Millgram, MD; Nahshon Rand, MD; Richard D. Guyer, MD; Jean-Charles Le Huec, MD, PHD; and Ely Ashkenazi, MD

11:30 am-11:33 am  Rapid Fire Abstract #27: Predictors of Recurrence After Anterior Communicating Artery Aneurysms Treatment
Heejong Ki, MD and Yongsam Shin, MD

11:33 am-11:37 am  Rapid Fire Abstract #28: Pituitary Metastatic Composite Tumors: A Case Report and Review of the Literature
Matthew Helton, MD; Mohammad Abu-Rmaileh, BS; Murat Gokden, MD; Alissa Kanaan, MD; and Analiz Rodriguez, MD

11:37 am-11:43 am  Discussion
11:43 am-11:46 am  Rapid Fire Abstract #29: National Variation in Cost of Endovascular Treatment for Unruptured Aneurysms
Matthews Lan, MS; Pious Patel, BA; Campbell Liles, MD; Stephen Gannon, CCRP; Chevis Shannon, DrPH, MBA, MPH, MERC; and Rohan Chitale, MD

11:46 am-11:49 am  Rapid Fire Abstract #30: Demographic Differences in Patients With Transthyretin (ATTR) Deposition Presenting With Spinal Stenosis
Keith Mathew George, BA; Richard Dowd, MD; Jayde Nail, MD; Ron Riesenburger, MD; and James Kryzanski, MD

11:49 am-11:52 am  Rapid Fire Abstract #31: Biomechanical Analysis of Occipitocervical Stabilization Techniques: An In-vitro Human Cadaveric Study
Kyle Mueller, MD; Bryan Cunningham, PhD; Kenneth Mullinex, MS; and Faheem Sandhu, MD, PhD

11:52 am-11:55 am  Rapid Fire Abstract #32: New Decompression Device Facilitating a Smaller Procedure in Anterior Cervical Corpectomy and Fusion: Case Series
Michael A. Millgram, MD; Richard D. Guyer, MD; Ran Harel, MD; Ely Ashkenazi, MD

11:55 am-12:00 pm  Discussion

12:00 am-12:05 pm  Business Meeting

12:05 pm-12:10 pm  Introduction to the Hudson Lecture
TBD

12:10 pm-12:50 pm  Hudson Lecture: The Future of Neurosurgical Education
Robert Harbaugh, MD

1:00 pm-5:30 pm  Golf Tournament

6:00 pm-10:00 pm  Family Night
Jokake Inn at the Phoenician
SATURDAY, FEBRUARY 29th

Meeting Registration

Breakfast with Exhibitors

Scientific Session V
Moderators: TBD

Opening Remarks

Translational Research in Cerebrovascular Disease: Homing in on New Therapeutic Targets
Chad Washington, MD

Meningioma: An Evolving Disease
Ian Dunn, MD, PhD

A Tribute to the Late Professor Donald Simpson, A Southern Neurosurgeon (Southern Hemisphere, That Is), and Author of The “Simpson Grading” For Extent of Meningioma Resection
Michael Chicoine, MD

Discussion

Introduction to Distinguished Practitioner Lecture
Michael Chicoine, MD

Distinguished Practitioner Lecture
Ralph G. Dacey, Jr., MD

Refreshment Break with Exhibitors

Scientific Session VI
Moderators: TBD

Standard Abstract #33: Investigation and Feasibility of Combined 3D Printed Thermoplastic Filament and Polymeric Foam to Simulate the Cortiocancellous Interface of Human Vertebrae
William Clifton, MD; Aaron Damon, BS; Alexander Vlasak, MD; Karim ReFaey, MD; Mark Pichelmann, MD; and Eric Nottmeier, MD

Standard Abstract #34: Stimulation of the Nucleus Basalis of Meynert Induces Neurogenesis and Improved Learning in Demented Rats: Preliminary Results
Jamie Toms, MD; Deepak Kumbhare, PhD; Adel Azghadi; Sindu Karnum; George Weistroffer; Nicholas McComb; Sofia Goyonaga; and Kathryn Holloway, MD

William Krauss, MD; Elizabeth B. Habermann, PhD, MPH; Anshit Goyal, MBBS; Mohammed Ali Alvi, MBBS; Daniel Ubl; Daniel Whipple, MS; Amy E. Glasgow, MHA; Halena M. Gazelka, MD; Matthew T. Neal, MD; Bernard Bendok, MD; Selby Chen, MD; Alfredo Quinones-Hinojosa, MD; Mohamad Bydon, MD
10:28 am-10:34 am  Standard Abstract #36: Chiari Health Index for Pediatrics (chip) Instrument Effective in Measuring Postoperative Quality of Life in Chiari I Malformation
Georgina E. Sellyn, MA; Alan R. Tang, BA; Shilin Zhao, PhD; Rachel Pellegrino, MS; Stephen R. Gannon, BS; Bradley S. Guidry, BS; Travis R. Ladner, MD; John C. Wellons, MD, MSPH; and Chevis N. Shannon, DrPH, MBA, MPH

10:39 am-10:45 am  Standard Abstract #37: Cranial Asymmetry and Positional Plagiocephaly: Demographic Associations
Jarrett Foster, BS; Ranbir Ahluwalia, BS; Madeleine M. Sherburn, BA; Katherine Kelly, BS; Chelsea Kiely; Alyssa L. Wisemen, MA, MS; Stephen Gannon, CRP; Chevis N. Shannon, DrPH, MBA; and Christopher Bonfield, MD

10:45 am-10:51 am  Standard Abstract #38: An Evaluation of Blood Gases in Blood Specimens Immediately Proximal and Distal to Occlusive Thrombi in Patients Undergoing Mechanical Thrombectomy
Robert Christopher Spears, MD; Keith Pennypacker, PhD; Jacqueline Frank; Benton Maglinger; Amanda Trout, PhD; Jill Roberts, PhD; Ann Stowe, PhD; Stephen Grupke, MD; and Justin F. Fraser, MD

10:51 am-10:57 am  Standard Abstract #39: An Assessment of the Efficacy of a Multimodal, Narcotic Reducing, Postoperative Pain Control Regimen in a Series of Patients Undergoing Endoscopic Transsphenoidal Resection of Pituitary Adenomas With a Focus on Associated Analgesic Cost
Lauren Rotman, MD; Borna E. Tabibian, MD and Kristen O. Riley, MD

10:51 am-10:57 am  Standard Abstract #39: An Assessment of the Efficacy of a Multimodal, Narcotic Reducing, Postoperative Pain Control Regimen in a Series of Patients Undergoing Endoscopic Transsphenoidal Resection of Pituitary Adenomas With a Focus on Associated Analgesic Cost
Lauren Rotman, MD; Borna E. Tabibian, MD and Kristen O. Riley, MD

10:57 am-11:03 am  Standard Abstract #40: Seven-year Follow-up of Radiographic and Clinical Adjacent Segment Pathology After Cervical Total Disc Replacement or Anterior Cervical Discectomy and Fusion
David Cavanaugh, MD; Pierce Nunley, MD; Eubulus Kerr, MD; Andrew Utter, MD; Peter Campbell, MD; Rishi Wadhwa, MD; Kelly Frank; and Marcus Stone, PhD

11:03 am – 11:09 am  Standard Abstract #41: Rates of Dysphagia and Peri-operative Complications in Patients Undergoing Four and Five Level ACDF Surgery
S. Harrison Forber, MD; David Mauler, BS; Mark Pacult, MD; Corey T. Walker, MD; Jay D. Turner, MD, PhD; Juan Uribe, MD; Steve Chang, MD; and Kumar Kakarla, MD

11:09 am – 11:14 am  Discussion

11:14 am-11:17 am  Rapid Fire Abstract #42: Precise Identification of Patients for Decompressive Hemicraniectomy After Ischemic Stroke: A Decision-tree Mortality Model
Pious D. Patel, BA; Chevis N. Shannon, MBA MPH DrPH; Matthew R. Fusco, MD; and Rohan V. Chitale, MD

11:17 am-11:20 am  Rapid Fire Abstract #43: The Utility of Prolonged Prophylactic Systemic Antibiotics (ppsa) For Subfascial Drains After Posterior Spinal Surgery For Degenerative Disease
Gnel Pivazyan, MD
11:20 am-11:23 am Rapid Fire Abstract #44: Variation in Opioid Prescribing Patterns and Impact on Refill Prescriptions Following Elective Lumbar Spine Surgery
Anshit Goyal, MBBS; Stephanie Payne; Lindsey Sangaralingham, MPH; Mohammed Ali Alvi, MBBS; Halena M. Gazelka, MD; Elizabeth B. Habermann, PhD, MPH; Benjamin D. Elder, MD, PhD; Robert J. Spinner, MD; Matthew T. Neal, MD; Bernard R. Bendok, MD; Selby G. Chen, MD; Alfredo Quinones-Hinojosa, MD; Mohamad Bydon, MD

Mustafa Motiwala, MD; Rahul Kumar, MS; Sonia Ajmera, BA; Jock Lillard, MD; Hassan Saad, MD; Andrew Schultz, MS; Brittany Fraser, MD; David Wallace, BS; Sebastian Norrdahl, MS; Olutomi Akinduro, BS; Chesney Oravec, MD; Raymond Xu, BS; Brian Jimenez, MS; Melissa Justo, BS; Jennings Hardee, BS; Yusuf Yunis, MD; and Paul Klimo, MD, MPH

11:26 am-11:31 am Discussion

11:31 am-11:34 am Rapid Fire Abstract #46: Alternative Incision for Decompressive Hemicraniectomy
Ehsan Dowlati, MS, MD; Armin Mortazavi, BS; Gregory Keating, BS; and Jeffrey Mai, MD, PhD

11:34 am-11:37 am Rapid Fire Abstract #47: Analysis of Factors and Conditions Influencing Military Neurosurgery Recruitment
Richard Menger, MD, MPA; Devon C. LeFever, MD; J. Will Robbins; Benjamin Mundell; and Randy Bell

Johan L. Heemskerk, MD, MSc.; Ricardo Domingo, MD; Tito G. Vivas-Buitrago, MD; Alfredo Quinones-Hinojosa, MD; Rabih G. Tawk, MD; David Freeman, MD; and Kingsley O. Abode-Iyamah, MD

11:40 am-11:43 am Rapid Fire Abstract #49: Murphey’s Teat: History and Insight into an Enigmatic Cerebrovascular Eponym
Daniel Heiferman, MD; Daphne Li, MD; Joseph C. Serrone, MD; Matthew R. Reynolds, MD, PhD; Anand V. Germanwala, MD; Clarence B. Watridge, MD; and Adam S. Arthur, MD

11:43 am-11:48 am Discussion

11:48 am-11:50 am Introduction to the Semmes Lecture
TBD

11:50 am-12:30 pm Semmes Lecture: TBI Management and the VCU Legacy
Alex Valadka, MD

12:30 pm-12:35 pm Closing Remarks & Raffle Drawing
Jay Howington, MD – Incoming SNS President

6:30 pm-7:00 pm Final Banquet Reception
7:00 pm-10:00 pm Final Banquet