69th Southern Neurosurgical Society Annual Meeting  
February 28-March 3, 2018  
Marco Island, Florida

PROGRAM

WEDNESDAY, FEBRUARY 28th

1:00-5:00 pm  
Meeting Registration  
Palms Foyer

2:00-4:00 pm  
Executive Council Meeting  
Royal Ballroom 1-2

THURSDAY, MARCH 1st

7:00 am-1:00 pm  
Meeting Registration  
Palms Foyer

7:00-7:30 am  
Breakfast with Exhibitors  
Exhibit Pavilion

Scientific Session I – Spine #1  
Palms Ballroom

Moderators: Peter Grossi, MD and Matt Gary, MD

7:30-7:35 am  
Opening Remarks  
Eric W. Nottmeier, MD - SNS President

7:35-7:50 am  
Risk Stratification and Artificial Intelligence in Spinal Surgery: 
Dawn of a New Age  
Christopher P. Ames, MD – UCSF Spine Center

7:50–8:05 am  
Options and Rationale for Radiation Reduction  
Robert E. Isaacs, MD – Duke University Spine Center

8:05-8:15 am  
Discussion

8:15-8:21 am  
Standard Abstract #1:  
Who Is the Best? A Risk-Adjusted Ranking Scheme for Surgeons and 
Practices Based on Lumbar Surgery Outcomes  
Clinical Science Award Winner  
Ahilan Sivaganesan, MD; Anthony Asher, MD; Mohamad Bydon, MD; 
Panagiotis Kerezoudis, MD; Hui Nian, PhD; Frank Harrell, PhD; and 
Clinton J. Devin, MD

8:21-8:27 am  
Standard Abstract #2:  
Accuracy, Radiation Time, and Radiation Exposure Using Computer-
assisted Instrument Navigation Vs. Conventional C-arm Fluoroscopy for 
Spine Surgery Instrumentation  
Basic Science Award Runner Up  
Timothy Y. Wang, MD; Vikram; Mehta, MD, MPH; Eric O. Sankey, MD; 
Farah Hamouda, BS; Juan Uribe, MD; and Muhammad Abd-El-Barr, MD, 
PhD
8:27-8:33 am  Standard Abstract #3:
The Institute for Healthcare Improvement - NeuroPoint Alliance Cooperative Quality Improvement Project: Using National Registries to Design Continuous Quality Improvement Protocols
Vincent J. Rossi; Scott Zuckerman, MD; Anthony Asher, MD; Clinton Devin, MD; Kevin Foley, MD; John Knightly, MD; Erica Bisson, MD; and Steven Glassman, MD

8:33-8:39 am  Standard Abstract #4:
Early Ambulation Leads to Decreased Length of Hospital Stays in Patients Undergoing Lumbar Laminectomy
Jang W. Yoon; James Ebot, DO; Gaetano D. Biase; Selby G. Chen, MD; Stephen M. Pirris, MD; Eric Nottmeier, MD; Clarence B. Watridge, MD; Hugh G. Deen, MD; Ronald Reimer, MD; Mark A. Pichelmann, MD; and Robert E. Wharen, MD

8:39-8:45 am  Standard Abstract #5:
Enhanced Recovery Approach for Minimally-invasive Transforaminal Lumbar Interbody Fusion (TLIF) Reduces Hospital Stay and Opioid Consumption: A Single Institution Comparison
G. Damian Brusko, BS; Karthik Madhavan, MD; Richard Epstein, MD; John Paul G. Kolcun, BS; Jay Grossman, MD; and Michael Y. Wang, MD

8:45-8:48 am  Rapid Fire Abstract #6:
Utilization Trends of Cervical Disk Replacement in the United States: A Population-Based Study
Adeeb Sebai, MD; Mohammed Ali Alvi, MD; Panagiotis Kerezoudis, MD; Anshit Goyal, MD; Sandy Goncalves, MS; Daniel Ubl, MPH; Elizabeth Habermann, MPH, Ph.D; Selby Chen, MD; Mark A. Pichelmann, MD; Clarence Watridge, MD; H. Gordon Deen, MD; and Mohamad Bydon

8:48-8:51 am  Rapid Fire Abstract #7:
Independent Associations with 30- and 90-Day Unplanned Readmissions After Elective Lumbar Spine Surgery: A National Trend Analysis of 144,123 Patients
Aladine Elsamadicy; Xinru Ren; Hanna Kemeny; Lefko Charalambous; Amanda Sergesketter; Shervin Rahimpour, MD; Theresa Williamson, MD; Rory Goodwin, MD, PhD; Muhammad Abd-El-Barr, MD, PhD; Oren Gottfried, MD; Jichun Xie, PhD; and Shivanand Lad, MD, PhD

8:51-8:54 am  Rapid Fire Abstract #8:
The Role of Minimally Invasive Anterior Column Reconstruction in Maintaining Sagittal Balance
Jason Paluzzi, MD; Andrew Vivas, MD; Jacob Januszewski, DO; Brooks Osburn, MD; and Juan Uribe, MD

8:54-8:57 am  Rapid Fire Abstract #9:
Assessment of Proximal Junctional Kyphosis and Shoulder Balance with Proximal Screws vs. Hooks in Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis
Andrew C. Vivas, MD; Steven W. Hwang, MD; Amer F. Samdani, MD; and Joshua M. Pahys, MD
8:57-9:00 am  Rapid Fire Abstract #10: Withdrawn
9:00-9:10 am  Discussion
9:10-9:15 am  Introduction to Ned Downing Lecture
9:15-9:45 am  Ned Downing Lecture  Don Davey
9:45-10:15 am  Refreshment Break with Exhibitors  Exhibit Pavilion

Scientific Session 2 – Cranial (Tumors)  Palms Ballroom
Moderators: Vijay Agarwal, MD and Michael Decuypere, MD

10:15-10:30 am  Brain Surgery: From Peru to Egypt and Back to the Mayo Clinic
Alfredo Quiñones-Hinojosa, MD – Mayo Clinic Jacksonville

10:30-10:45 am  CNS Tumor Immune Responses and their Influence on Immunotherapy Strategies
Amy Heimberger, MD – Univ. of TX MD Anderson Cancer Center

10:45-10:55 am  Discussion

10:55-11:01 am  Standard Abstract #11:
Machine-learning Analyses Can Differentiate Meningioma Grade by Features on Magnetic Resonance Imaging
Andrew T. Hale; David P. Stonko, MS; Li Wang; Megan K. Strother, MD; and Lola B. Chambless, MD

11:01-11:07 am  Standard Abstract #12:
Characterizing the Over-expression of Yki/YAP/TAZ Transcription Factors in Gliomagenesis and A Proposed Novel Treatment of Glioblastomas
Basic Science Award Winner
Krishanthan Vigneswaran, MD; Se-Yeong Oh, PhD; Shoeb Lallani; Renee Read, PhD; and Jeffrey Olson, MD

11:07-11:13 am  Standard Abstract #13:
Preoperative Albumin Level Predicts Length of Stay After Craniotomy for Brain Tumor
Whitney Muhlestein, BA and Lola B. Chambless, MD

11:13-11:19 am  Standard Abstract #14:
Cancer Dissemination, Hydrocephalus, and Survival After Cerebral Ventricular Entry During High-Grade Glioma Surgery: A Meta-Analysis
Akshikumar Mistry; Patrick Kelly; Reid Thompson; and Lola Chambless
Standard Abstract #15:
Complications and 30-Day Readmission After Endonasal Trans-Sphenoidal Pituitary Adenoma Resection: A Single Institutional Study of 97 Consecutive Patients
Hanna Kemeny; Aladine Elsamadicy; Amanda Sergesketter; Pakawat Chongsathidkiet, MD; Karolina Woroniecka; David Jang, MD; Patrick Codd, MD; and Peter Fecci, MD, PhD

Rapid Fire Abstract #16:
Surgical Treatment in Glioblastomas. Controversies.
Maria Teresa Solomon

Rapid Fire Abstract #17:
Independent Risk Factors of Cranial Nerve IX and X Dysfunction after Resection of Vestibular Schwannoma
Peter J. Morone, MD, MSCI; Robert Yawn, MD; Deborah Xie, BS; Reid Thompson, MD; and Alejandro Rivas, MD

Rapid Fire Abstract #18:
Endoscopic Endonasal and Transcranial Surgery for Microsurgical Resection of Ventral Foramen Magnum Meningiomas: A Preliminary Experience
Nicolas K. Khattar, MD; Maria Koutourousiou, MD; Joseph Chabot, DO; Eric Wang, MD; Aaron Cohen-Gadol, MD; Carl H. Snyderman, MD; Juan C. Fernandez-Miranda, MD; and Paul A. Gardner, MD

Rapid Fire Abstract #19:
Toward Minimizing Costs and Adverse Outcomes for Patients Undergoing Craniotomy for Brain Tumor: Identifying Patients at High Risk for Postoperative UTI
Whitney E. Muhlestein and Lola B. Chambless, MD

Rapid Fire Abstract #20:
Introduction of a Standardized, Multi-Disciplinary, Perioperative Protocol after Endoscopic Trans-Sphenoidal Pituitary Surgery Can Lead to Reduction in Length of Hospital Stay and Cost Savings: Comparison to National Data
Saniya S. Godil MD, Sheena Weaver MD, Kyle D. Weaver MD, Lola B. Chambless MD

Discussion

Introduction of Semmes Lecture
John H. Sampson, MD, PhD – Duke University Cancer Center

Semmes Lecture: “The Odyssey”
Allan Friedman, MD - Duke University Cancer Center

Welcome Reception
Exhibit Pavilion
FRIDAY, MARCH 2nd

7:00-1:00 pm  Meeting Registration  Palms Ballroom

7:00–7:30 am  Breakfast with Exhibitors  Exhibit Pavilion

Scientific Session 3 – Spine #2  Palms Ballroom

Moderators: Chris Holland, MD and Ammar Hawasli, MD

7:30-7:35 am  Opening Remarks  
    Eric W. Nottmeier, MD – SNS President

7:35-7:50 am  Complications of Scoliosis Surgery  
    Mark A. Pichelmann, MD – Mayo Clinic Jacksonville

7:50–8:05 am  The Pedicle Screw, the Good, The Bad, and the Ugly  
    Volker K. H. Sonntag, MD – Barrow Neurological Institute

8:05-8:15 am  Discussion

8:15-8:21 am  Standard Abstract #21:  
    Comparing Outcomes of Fusion versus Discectomy Alone for One-time Recurrent Lumbar Disc Herniation: A Systematic Review and Meta-analysis  
    Yagiz Yolcu, MD; Mohammed Ali Alvi, M.B.B.S; Panagiotis Kerezoudis, MD; Mohamed Elminawy, MB.Bch; Sandy Goncalves, MS; Dennis Kurian, BSc; Joseph Cesare; Adeeb Sebai, MD; Clarence Watridge, MD; H. Gordon Deen, MD; Selby Chen, MD; Mark A. Pichelmann, MD; and Mohamad Bydon, MD

8:21-8:27 am  Standard Abstract #22:  
    Does Patient Selection Account for the Perceived Cost Savings in Outpatient Spine Surgery?  
    Mohammed Ali Alvi; Benjamin F. Mundell, Ph.D; Panagiotis Kerezoudis; Marcus Gates, MD; Anshit Goyal, MD; Samuel Hohmann, Ph.D; Brett A.. Freedman, MD; Ahmad Nassr, MD; Selby Chen, MD; Mark Pichelmann, MD; Clarence B. Watridge, MD; Gordon Deen, MD; and Mohamad Bydon

8:27-8:33 am  Standard Abstract #23:  
    VariLift-L: An Anatomical Solution to Lumbar Spinal Instability  
    Phillip A. Tibbs, MD

8:33-8:39 am  Standard Abstract #24:  
    The Impact of Adding Posterior Instrumentation to Trans-psoas Lateral Fusion: A Systematic Review And Meta-analysis  
    Mohammed Ali Alvi, MBBS; Redab Alkhataybeh, MB.Bch; Waseem Wahood, MS; Adeeb Sebai, MD; Panagiotis Kerezoudis, MD; Anshit Goyal, MD; Selby Chen, MD; H. Gordon Deen, MD; Mark A. Pichelmann, MD; Clarence Watridge, MD; M. Hassan Murad, MD; and Mohamad Bydon
8:39-8:45 am Standard Abstract #25:
Surgical Outcomes Following Thoracic Disc Herniation Excision: Insights from the National Surgical Quality Improvement Program
Mohamed Elminawy, MB.BCh; Panagiotis Kerezoudis, MD; Kenan Rajjoub, BA; Mohammed Ali Alvi, MBBS; Abdullah K. Alamoudi, MD; Sandy Goncalves, MS; Anshit Goyal, MD; and Mohamad Bydon

8:45-8:48 am Rapid Fire Abstract #26:
Neurological Outcomes Following Surgical or Conservative Management of Spontaneous Spinal Epidural Abscesses: A Systematic Review and Meta-analysis of Data from 1980 Through 2016
Timothy Y. Wang, MD; Stephen C. Harward, MD, PhD; Vadim Tsvankin, MD; Hannah Bell, BS; Lefko Charalambous, BS; Syed M. Adil, BS; Dario J. Enlott, MD, PhD; C. Rory. Goodwin, MD, PhD; Isaac O. Karikari, MD; Robert E. Isaacs, MD; and Max O. Krucoff, MD

8:48-8:51 am Rapid Fire Abstract #27:
Enterobacter Infection After Spine Surgery: Mayo Clinic Experience
Jang W. Yoon; Gaetano D. Biase; Panagiotis Kerezoudis, MD; Elie F. Berbari, MD; Mohamad Bydon; and Brett A. Freedman, MD

8:51-8:54 am Rapid Fire Abstract #28:
Causes for Early Readmission in AIS Surgery
Andrew Vivas; Joshua M. Pahys, MD; Amer F. Samdani, MD; and Steven H. Hwang, MD

8:54-8:57 am Rapid Fire Abstract #29:
Outcome Study for Minimally Invasive Sacroiliac Joint Fusion Using the Ifuse Implant System
James Ebot, DO and Gregory Smith, DO

8:57-9:00 am Rapid Fire Abstract #30:
Experiences in Developing a Comprehensive Spine Center
Clarence B. Watridge, MD

9:00-9:10 am Discussion

9:10-9:15 am Introduction to Presidential Lecture
Volker K. H. Sonntag, MD – Barrow Neurological Institute

9:15-9:45 am Presidential Address
Eric W. Nottmeier, MD – St. Vincent’s Spine & Brain Institute

9:45-10:15 am Refreshment Break with Exhibitors 
Exhibit Pavilion
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<th>Time</th>
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<td>10:15-10:55 am</td>
<td>Debate: Role of Endo vs. Open Surgery at Common Aneurysm Locations</td>
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<td>Carlos A. David, MD – Tufts University</td>
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<td>Ricardo Hanel, MD – Lyerly Baptist Health</td>
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<td>10:55-11:01 am</td>
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<td>Mechanical Thrombectomy Outcomes With and Without Intravenous</td>
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<td>Thrombolysis in Stroke Patients: A Meta-Analysis</td>
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<td>Clinical Science Award Runner Up</td>
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<td>Akshikumar Mistry; Eva Mistry; Mohammad Nakawah; Rohan Chitale;</td>
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<td>Robert James; John Volpi; and Matthew Fusco</td>
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<td>11:01-11:07 am</td>
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<td>A Cost-Effectiveness Analysis to Determine Imaging Interval for</td>
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<td>Follow-up of Unruptured Intracranial Aneurysms</td>
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<td>Spiros Blackburn, MD; and Paul Kubilis</td>
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<td>11:07-11:13 am</td>
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<td>Delayed Hydrocephalus after Aneurysmal Subarachnoid hemorrhage:</td>
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<td>Who and Why?</td>
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<td>Oluwaseun Akinduro, MD; Neil Haranhalli, MD; Tito Vivas-Buitrago;</td>
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<td>Sara Ganaha, MD; Nnenna Mbabuike, MD; RabihTawk, MD; and William</td>
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<td>Freeman, MD</td>
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<td>11:13-11:19 am</td>
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<td>Safety and Feasibility of External Ventriculostomy Drain Placement</td>
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<td>for Intracranial Pressure Management in Patients with Global Brain</td>
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<td>Edema after Acute Liver Failure and Orthotopic Liver Transplantation</td>
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<td>Jang W. Yoon, MD, MS; James Ebot, DO; Justin H. Nguyen, MD; William</td>
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<td>D. Freeman, MD; Juan M. Canabal, MD; Ronald A. Reimer, MD; and</td>
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<td>Robert E. Wharen, MD-Mayo Clinic in Florida, Jacksonville, FL</td>
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<td>11:19-11:25 am</td>
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<td>A Pilot Comparison of Multispectral Fluorescence to Indocyanine Green</td>
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<td>Videoangiography and Other Modalities for Intraoperative Assessment</td>
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<td>in Vascular Neurosurgery</td>
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<td>Christopher M. Nickele, MD; Vince Nguyen, MD; Winfield Fisher, MD;</td>
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<td>William Couldwell, MD PhD; Emad Aboud, MD; Carlos David, MD; Jacques</td>
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<td>Morcos, MD; Cleopatra Charalampaki, MD PhD; and Adam Arthur, MD MPH</td>
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<td>Rapid Fire Abstract #36:</td>
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<td>An Evaluation of the Need for Hemicraniectomy after Thrombectomy in</td>
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<td>Acute Ischemic Infarction of the Middle Cerebral Artery Territory</td>
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<td>Arsalaan Salehani, MD; D. Mitchell Self, BS; Bonita Agee, PhD, MPH;</td>
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<td>and William Stetler, MD</td>
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Rapid Fire Abstract #37:
Magnesium as a Predictor of Hematoma Volume and Functional Outcome in Patients with Spontaneous Intracerebral Hemorrhage
Violiza Inoa, MD; Alexander Houck; Konark Malhotra, MD; Mike Broce, PhD; Chang J. Jason, MD; Lucas Elijovich, MD; Khalid Alsherbini, MD; Adam S. Arthur, MD, MPH; Daniel Hoit, MD; Christopher Nickele, MD; and Nitin Goyal, MD

11:31-11:34 am
Rapid Fire Abstract #38:
Antiplatelet Medication Reversal Strategies in Operative Intracranial Hemorrhage: A Survey of Practicing Neurosurgeons
Paul Foreman, MD; Adeel Illyas, MD; James Mooney, MD; Philip Schmalz, MD; and Christoph Griessenauer, MD

11:25-11:28 am
Rapid Fire Abstract #39:
Underrepresentation of Southern Institutions in AANS/NREF and CNS Research Awards
Taylor Wilson, MD, MS; Ebonye Green, MNSc, ACNPC-AG, APRN; Kesley Hundley, MD; Ka Hin Wong, BS; Rebekah Langston, BS; and Analiz Rodriguez, MD, PhD

11:28-11:31 am
Rapid Fire Abstract #40:
Discrepancy Between Neurosurgery Morbidity and Mortality Conference Discussions and Hospital Quality Metric Standards.
Lauren E. Rotman, MD; Arsalaan A. Salehani, MD; Devin R. Broadwater, MD; Nathaniel H. Reeve, MD; Matthew C. Davis, MD; and Kristen O. Riley, MD

Discussion

11:31-11:41 am
Introduction of Hudson Lecture
Dan Barrow, MD

11:41-11:46 am
Hudson Lecture: "The British Empire: Ascent, Majesty, Retreat, and Legacy"
Nelson M. O’yesiku, MD, PhD – Emory School of Medicine

11:46-12:16 pm
NREF update
Regis W. Haid, Jr. MD – Atlanta Brain and Spine Care

12:16-12:30 pm
Spine Cage Match Workshop with Lunch (non-CME)
Sentry Rooms 1-4

1:00-2:30 pm
Family Night
North Tower Beach
SATURDAY, MARCH 3rd

7:00-1:00 pm  Meeting Registration  Palms Foyer
7:00–7:30 am  Breakfast  Palms Foyer

Scientific Session 5– Functional/Pediatric  Palms Ballroom
Moderators: J. Nicole Bentley, MD and Eric Thompson, MD

7:30-7:35 am  Opening Remarks  
Eric W. Nottmeier, MD – SNS President

7:35-7:50 am  Adult Chiari Surgery: Principles and Avoiding Failure  
John J. Oro, MD – Colorado Chiari Institute

7:50–8:05 am  LITT (Laser Ablation) in Epilepsy  
Fernando Vale, MD

8:05 – 8:20 am  Robotics in Spine Surgery  
Nicholas Theodore, MD – Johns Hopkins Medicine

8:20-8:30 am  Discussion

8:30-8:36 am  Standard Abstract #41:  
ABC Transporter Inhibition Plus Vessel Permeability Reduction Enhances the Efficacy of CED in DIPG  
Vadim Tsvankin, MD; Christopher Lascola, MD, PhD; Talaignar Venkatraman, PhD; Brainard Burrus, BS; Oren Becher; Eric M. Thompson

8:36-8:42 am  Standard Abstract #42:  
The Influence of Surgical Correction on Age-related Changes in Cerebral Blood Flow in Rabbits with Familial Bicoronal Suture Craniosynostosis: A Quantitative Analysis  
Ramesh Grandhi, MD; Lesley Foley; Geoffrey Peitz, MD; Christopher Bonfield, MD; Wendy Fellow-Mayle, PhD; T Kevin. Hitchens; and Mark P. Mooney

8:42-8:48 am  Standard Abstract #43:  
Prenatal Closure of Myelomeningocele Results in Better Long-term Quality of Life than Postnatal Closure  
Nishit Mummareddy, BA; Michael C. Dewan, MD, MSCI; Anna Huang; Jade Basem; Chevis N. Shannon, MBA, MPH, DrPH; and John Wellons III, MD, MSPH

8:48-8:54 am  Standard Abstract #44:  
Percutaneous Balloon Compression in Trigeminal Pain Syndromes  
Sanjeet S. Grewal; Panagiotis Kerezoudis, MD; Oscar Garcia, MPH; Alfredo Quinones-Hinojosa, MD; Ronald Reimer, MD; and Robert E. Wharen, MD

8:54-9:00 am  Standard Abstract #45:  
Endoscopic Vs. Open Spring-Mediated Cranioplasty: The Wake Forest Experience  
James L. West, MD and Daniel E. Couture, MD
Rapid Fire Abstract #46:
A Retrospective Case Series Describing a Novel Technique for Evacuation of Chronic Subdural Collections in Infants and Associated Outcomes
*Angela Palmer, MD* and *Gregory Albert, MD*

Rapid Fire Abstract #47:
Prevalence and Cost Analysis of Complex Regional Pain Syndrome (CRPS): A Role for Neuromodulation
*Aladine Elsamadicy; Siyun Yang; Amanda Sergesketter; Bilal Ashraf; Lefko Charalambous; Hanna Kemeny; Tiffany Ejikeme; Xinru Ren; Promila Pagadala, PhD; Beth Parente; Jichun Xie, PhD* and *Shivanand Lad, MD, PhD*

Rapid Fire Abstract #48:
Selective Amygdalectomy for the Treatment of “Paradoxical” Temporal Lobe Epilepsy: Technical Nuances and Case Series
*Andrew Vivas, MD; Ryan Sever, MA; Chistain Reitano, BS*; *Jason Paluzzi, MD*; and *Fernando Vale, MD*

Rapid Fire Abstract #49:
Peripheral Nerve Grafts into the Substantia Nigra to Alter the Progression of Parkinson’s Disease: Update of Outcomes at One Year
*Craig van Horne, George Quintero, Andrew Welleford, Julie Gurwell, John Slevin, Greg Gerhardt*

Rapid Fire Abstract #50:
Neuronavigation for Trigeminal Rhizotomy
*Meena Thaitkunta; Jessica Eaton, BA*; and *Haring Nauta, MD, PhD*

Discussion

Introduction
*Eric W. Nottmeier, MD – SNS President*

Distinguished Practitioner Lecture:
A Journey Through Time: 35 Years of Functional Neurosurgery
*Robert E. Wharen, Jr., MD – Mayo Clinic Jacksonville*

Refreshment Break
*Palms Foyer*
Moderator: William Gump, MD

10:25-10:40 am  Military Neurosurgery - What Have We Learned After Almost 15 Years of War
Christopher Neal, MD – Walter Reed National Military Medical Center

10:40-10:55 am  Military Neurosurgery – Providing Care After the Wars
Cory Adamson, MD – Emory University

10:55-11:05 am  Discussion

11:05-11:11 am  Standard Abstract #51:
Hawasli; Rutlin; Roland; Murphy; Song; Leuthardt; Shimony; Ray

11:11-11:17 am  Standard Abstract #52:
The Role of Family and Personal Psychiatric History in Post-Concussion Syndrome: A Story of Compounding Risk
Andrew D. Legarreta, BA; Benjamin L. Brett, MS; Gary S. Solomon, PhD; and Scott L. Zuckerman, MD

11:17-11:23 am  Standard Abstract #53:
Surgical Treatment for Chronic Subdural Hematoma in the Elderly
Jonathan Parish, MD; Mackenzie Jones; Michael Shields; Deborah Pfortmiller, PhD, MA; and Mark Van Poppel, MD

11:23-11:29 am  Standard Abstract #54: Withdrawn

11:29-11:35 am  Standard Abstract #55:
Global Neurosurgery in the Age of Big Data
James L. West, MD and Daniel E. Couture, MD

11:35-11:38 am  Rapid Fire Abstract #56:
Persistent Pneumocephalus Following Cranialization Of Frontal Sinuses: An Endoscopic Approach for Skull Base Defect Repair
Angel Chinea, MD; Fernando Vale, MD; and Mark H. Tabor, MD

11:38-11:41 am  Rapid Fire Abstract #57:
The Second Cuban-USA Encounter: An Update
Stephen Reintjes, MD; Eric Sherburn; Puya Alikhani; Daniel Couture; Cory Adamson; and Fernando Vale, MD

11:41-11:44 am  Rapid Fire Abstract #58:
Patient Reported Experience following Ambulatory Procedures of the Nervous System
Panagiotis Kerezoudis, MD; Kristine T. Hanson, MPH; Mohammed Ali Alvi, MBBS; Yagiz Yolcu, MD; Waseem Wahood, MS; Elizabeth Habermann, PhD; Selby Chen, MD; Mark A. Pichelmann, MD; H. Gordon Deen, MD; Clarence B. Watridge, MD; and Mohamad Bydon
11:44-11:47 am  Rapid Fire Abstract #59: Withdrawn

11:47-11:50 am  Rapid Fire Abstract #60:
Special Considerations for the Treatment of Idiopathic Intracranial Hypertension
Sara Ganaha, MD; Sanjeet S. Grewal, MD; Victoria Gomez, MD; Eric R. Eggenberger, DO; Vivek Gupta, MD; Prasanna Vihbute, MD; Otto Pedraza, MD; Mohit Chauhan, MBBS; Benjamin L. Brown, MD; Betty YS. Kim, MD, PhD; Rabih G. Tawk, MD; Ronald Reimer, MD; Robert E. Wharen; Alfredo Quinones-Hinojosa, MD; and Clarence B. Watridge, MD

11:50-12:00 pm  Discussion

12:00-12:15 pm  Washington Update
Ann R. Stroink, MD FAANS – Washington AANS/CNS Committee Chair

12:15-12:25 pm  Business Meeting

12:25-12:30 pm  Closing Remarks
Reid Thompson, MD – Incoming SNS President

6:30-7:00 pm  Final Banquet Reception  Palms Terrace
7:00 10:00 pm  Final Banquet  Palms Ballroom