



GEORGIA NEUROSURGICAL SOCIETY
Annual Fall Meeting | December 1-2, 2018
The Ritz Carlton Reynolds, Lake Oconee | Greensboro, GA

PROGRAM

Saturday, December 1, 2018

7:00 – 8:00AM Registration, Continental Breakfast & Exhibit Visitation

8:00AM – 12:35PM **SCIENTIFIC PROGRAM**

8:00 – 8:05AM Welcome & Introductions

Jay Howington, MD

GNS President

Kevin Ammar, MD

GNS Program Chair

8:05 – 8:35AM *Trends in Neurosurgeon Liability*

Bill Kanich, MD

Objectives:

- Be aware of trends in neurosurgical claims frequency and severity
- Understand key drivers of these trends
- Identify specific areas of practice that might involve more risk of accusations of malpractice

8:35 – 8:40AM Questions & Answers

8:40 – 8:50AM **RESIDENT PAPER:** *CRISPR improved: inducible CRISPR-Interference achieves specific and reversible PIKE-A silencing in glioblastoma*

Arman Jahangiri, MD, PhD

Objectives:

- Understanding PIKE-A's role in glioblastoma proliferation, migration, and validating and that PIKE-A is a druggable GTPase target in glioblastoma
- Understanding that CRISPRi is a valuable tool allowing for highly specific and inducible genetic repression of genes essential for cancer cell survival like PIKE-A, and CRISPRi is more sensitive than CRISPRn technology

8:50 – 9:00AM **RESIDENT PAPER:** *The role of Transient Potential Vanilloid Receptor-1 (TRPV1) in neurovascular protection following moderate to severe traumatic brain injury*

Dayton Grogan

Objectives:

- Understand the physiologic role of transient receptor potential vanilloid-1 channels within the human CNS and neurovasculature
- Identify diminished behavioral and hemodynamic responses following TBI in mice populations lacking the TRPV1 gene
- Appreciate the role of transient receptor potential vanilloid-1 channels in preserving neurological functionality and blood flow following trauma

9:00 – 9:45AM **HONORED GUEST PRESENTATION:**

Optimization of Surgical Corridors for Minimized Access in Skull Base Surgery: Techniques, Tips, Results

JD Day, MD

9:45 – 9:55AM Questions & Answers

9:55 – 10:25AM BREAK & EXHIBIT VISITATION

10:25 – 10:45AM *Legislative Update*
Senator Ben Watson, MD

10:45 – 10:55AM Questions & Answers

10:55 – 11:15AM *Some Thoughts on the Etiology and Treatment of Occipital Headaches*
Joe Sam Robinson, MD

Objectives:

- Consider the anatomical origin course of the occipital nerve.
- Consider the different pressure points at which it might be impinged.
- Suggest using CINE MRI to consider the role of this whole cervical stenosis causing a pressure impact on the cervical nerves contributing to the formation of the occipital nerve.

11:15 – 11:20AM Questions & Answers

11:20 – 11:30AM **RESIDENT PAPER:** *Murine vascular and functional outcomes display significant improvement post-TBI with Remote Limb Ischemic Conditioning (RIC)*
Vamsi Reddy

Objectives:

Understand the concept and procedure behind Remote Ischemic Conditioning (RIC)
Understand the behavioral and vascular improvements associated with RIC post-TBI
Understand translational implications of RIC as an easy to administer therapy to improve patient outcomes after TBI

11:30 – 11:40AM **RESIDENT PAPER:** *Evolution of endovascular therapies for treating the acute ischemic stroke*
Amit Pujari

Objectives:

- Identify the most updated guidelines regarding endovascular therapies approved for ischemic stroke
- Understand the historical evolution of fibrinolysis and thrombectomy technologies and their approved use in treating acute ischemic stroke

11:40 – 11:50AM **RESIDENT PAPER:** *Laparoscopic-Assisted Ventriculoperitoneal Shunt Placement: Safety and Economics*
Tyler Sparks, MD

Objectives:

- Recognize the increased cost for patients who undergo laparoscopic assisted VP shunts.
- Recognize the potential increased risk of infection with laparoscopic assisted VP shunts due to increased number of surgeons in the OR

11:50 – 12:10PM *Assessing the Value of Spine Surgery in the US*
Daniel Refai, MD

Objectives:

- Identify key drivers in the cost of spine surgery
- Reduce the cost of delivering spine surgery
- Develop best care pathways

12:10 – 12:15PM Questions & Answers

12:15 – 12:25PM A Novel Treatment of an Acute Subdural Hematoma Using tPA: A Case Report
Trevor Hardigan, MD, PhD
Jay Howington, MD

Objectives:

- Understand the use of tPA in as a novel treatment in resolving acute subdural hematoma clots in high-risk surgical patients
- Describe the benefits and potential complications involved in this novel treatment protocol

12:25 – 12:30PM	Questions & Answers
12:30 – 12:35PM	Announcements & Daily Wrap-up
12:35PM	7 th Annual “GNS vs GSO/HNS” Golf Tournament
6:00 – 7:00PM	Cocktail Reception & SEC Championship Game Viewing in the Exhibit Hall

Sunday, December 2, 2018

7:00 – 8:00AM	GNS BOARD OF DIRECTORS MEETING
7:00 – 8:00AM	Registration, Continental Breakfast & Exhibit Visitation
8:00AM – 12:30PM	SCIENTIFIC PROGRAM
8:00 – 8:05AM	Welcome & Announcements Jay Howington, MD GNS President Kevin Ammar, MD GNS Program Chair
08:05– 8:25AM	<i>Cases of Improved Oncology Outcomes Involving Neurosurgical Procedures</i> Erin Dunbar, MD

Objectives:

- Gain awareness of each discipline's leading diagnostics and treatments
- Learn examples of how multidisciplinary management is improving oncology outcomes
- Obtain resources and references related to incorporating these examples in our practices

8:25 – 8:30AM	Questions & Answers
8:30 – 8:50AM	<i>International Neurological and Skull Base Surgery: The England Experience</i> Ryan Lingo, MD

Objectives:

- Apply international neurological surgery experiences to enhance resident education and development.
- Improve the delivery of neurosurgical care through lessons learned from the NHS

8:50 – 8:55AM	Questions & Answers
8:55 – 9:05AM	RESIDENT PAPER: <i>Survival and Failure Trends of CSF Shunts with Distal Slit Valves: Comparative Study and Literature Review</i> Jeremy Wetzel, MD

Objectives:

- Describe the difference between the basic CSF shunt valve mechanisms mentioned in this presentation, including what makes the Distal Slit Valve unique. Consider the pros and cons of each valve type.
- Describe and discuss the overall failure rates, and more importantly, the failure patterns, of the different valve types studied in this series.

- Discuss the implications of these differences in the practice of pediatric neurosurgery when it comes to CSF shunt valve design

9:05 – 9:15AM **RESIDENT PAPER:** *A Simple and Inexpensive Model for Teaching, Studying, and Testing Ventricular Catheter Placement Technique*
Nathan Todnem, MD

Objectives:

- Create an experimental model for teaching, practicing, and studying ventricular catheter placement
- Appreciate the cost effective nature of the model
- Have an appreciation of the added safety to teaching students how to place EVDs before attempting on patients

9:15 – 9:25AM **RESIDENT PAPER:** *Case Series: Dorsal Root Ganglion Stimulation for Thoracic Neuralgia*
Casey L. Anthony

Objectives:

- Understand thoracic neuralgia and its etiologies, including thoracotomy, mastectomy, and shingles
- Recognize the benefits of DRG for pain syndromes compared to other treatment modalities
- Identify appropriate indications for thoracic DRG stimulation

9:25 – 10:10AM **HONORED GUEST PRESENTATION:**
Minimally Invasive Parafascicular Surgery: Indications, Technique, Results
JD Day, MD

10:10 – 10:20AM Questions & Answers

10:20 – 10:50AM BREAK & EXHIBIT VISITATION

10:50 – 11:10AM *Update on the Management of Brain Metastases*
John Mikell, MD

Objectives:

- Understand patient selection criteria for radiosurgery
- Understand limitations of radiosurgery and appreciate the enduring role of whole brain radiation
- Understand advantages of Cyberknife over other radiosurgical systems

11:10 – 11:15AM Questions & Answers

11:15 – 11:35AM *Spine Deformity for the Non-Deformity Spine Surgeon*
John Devine, MD

Objectives:

- Understand how to measure pelvic parameters and the relationship to lumbar lordosis
- Apply the pelvic parameters measurements during routine lumbar fusion procedures
- Utilize techniques in lumbar fusion to reconstruct appropriate lumbar lordosis based on level and expected lordosis

11:35 – 11:40AM Questions & Answers

11:40 – 11:50AM **RESIDENT PAPER:** *Case Presentation of a Rare Cause of an Intradural Intramedullary Spinal Cord Lesion*
Alexa Bodman, MD

Objectives:

- Review the differential diagnosis of intradural spinal lesions
- Discussion of management options for newly presenting intradural intramedullary spinal cord lesions
- Review molecular subtypes of diffuse large B-cell lymphoma

11:50 – 12:00PM **RESIDENT PAPER:** *Repurposing rhDNase to Improve Neurological Outcomes after Traumatic Brain Injury*
Ayobami Ward

Objectives:

- Recognize the effects of acute TBI on the neurosurgical patient
- Understand the significance of rhDNase on augmentation of NET associated acute TBI progression

12:00 – 12:10PM **RESIDENT PAPER:** *Safety profile and radiographic outcomes of standalone 2-level anterior lumbar interbody fusion*
Jason M. Frerich, MD

Objectives:

- 2-level standalone ALIF is a safe and effective alternative to combined anterior-posterior fusion in patients without significant instability, even in the setting of prior posterior surgery
- 2-level standalone ALIF significantly increases SL and disc height at operated levels, though does not significantly modify other spinopelvic parameters

12:10 – 12:20PM **RESIDENT PAPER:** *Adjuvant radiotherapy versus watchful waiting after resection of WHO Grade II atypical meningiomas: A single institution's experience*
David Bray, MD

Objectives:

- Understand the current debate in the postoperative management of patients with WHO grade II atypical meningioma.
- Identify the risks and benefits in treating patients with WHO grade II atypical meningioma with adjuvant radiation therapy.

12:20 – 12:30PM Resident Paper Award Winner Presentation, Meeting Wrap-Up & ADJOURN

ACCREDITATION STATEMENT:

The Southern Alliance for Physician Specialties CME is accredited by the Medical Association of Georgia to provide continuing medical education for physicians.

The Southern Alliance for Physician Specialties CME designates this live activity for a maximum of 8.0 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.