FRIDAY, MAY 27, 2016

4:00 - 5:30PM  Registration
3:00 - 6:00PM  Exhibitors Set-up
6:30 - 9:00PM  Friday Night Opening Family Dinner on the Beach front Lawn

SATURDAY, MAY 28, 2016

7:00 – 8:00AM  GNS Board of Directors Meeting
7:30 – 9:30AM  Registration
7:30 – 9:00AM  Continental Breakfast & Visit Exhibits
8:00AM - 12:55PM  SCIENTIFIC SESSIONS
The Cloister Ballroom I
8:00 - 8:10AM  Welcome and Call to Order
Franklin Lin, MD
GNS President
Ray Walkup, MD
GNS Program Chair
8:10 - 8:50AM  Updates on the Electrical Brain
Michael Okun, MD
Objectives:
- Review selection criteria for DBS
- Review evidence base for DBS therapy
- Review indications and outcomes from DBS
8:50 – 9:00AM  Questions & Answers
9:00 - 9:20AM  Tumor Predisposition Syndromes Relevant to Neurosurgery
Erin Dunbar, MD
9:20 – 9:25AM  Questions & Answers
9:25 – 10:00AM  HONORED GUEST PRESENTATION:
Cervical artificial discs: Current indications, technique and complication avoidance
Dom Coric, MD
10:00 – 10:10AM  Questions & Answers
10:10 – 10:40AM  
**BREAK & VISIT EXHIBITS**

10:40 – 11:50AM  
**Resident Paper Contest Presentations – Session #1**

10:40 - 10:50AM  
*Welcome to the 21st Century - The Use of Technology and Videoconferencing in the Modern Neurosurgical Training Program*

**Griffin Baum, MD**

Emory University

**Objectives:**
- describe the components needed for a videoconferencing solution
- identify potential medico-legal pitfalls with the use of technology
- brainstorm potential uses for videoconferencing technology to facilitate e-medicine, tele-medicine, and community referrals to tertiary care centers.

10:50 – 11:00AM  
*Systematic review and evidence based guideline on hearing preservation outcomes in patients with sporadic vestibular schwannoma*

**Jay McCracken, MD**

Emory University

**Objectives:**
- Understand the difference in treatment for vestibular schwannoma
- Understand what influences hearing loss vs. hearing preservation by each treatment modality

11:00 - 11:10AM  
*The effect of acetazolamide on CSF production*

**Michael Moore, MD**

Emory University

**Objectives:**
- give effective doses for acetazolamide to reduce CSF output
- list the potential complications of this therapy

11:10 – 11:20AM  
*Occipitalcervical fixation using the occipital condyles in a 10 year old patient after chiari decompression.*

**Nathan Todnem, MD**

Augusta University

**Objectives:**
- Consider performing Occipitalcervical fixation using the occipital condyles for cranial fixation in patients with cranial defects
- Describe the safe trajectory for screw placement in adult and pediatric patients

11:20 – 11:30AM  
*Carotid Cavernous Fistula after Pipeline Placement: A Single Center Experience and Review of Literature*

**Anil Kumar Roy, MD**

Emory University

**Objectives:**
- Describe treatment options for carotid cavernous fistulas after pipeline placement
- Understand the current best estimates of risk of carotid cavernous fistula formation after pipeline placement

11:30 – 11:40AM  
*The Role of Perioperative Steroids in Reduction of Postoperative Dysphagia Following Anterior Cervical Spine Surgery: A Systematic Review*

**Abidemi Adenikinju**

Emory University

**Objectives:**
- Understand that dysphagia is a significant postoperative complaint following anterior surgical spine surgery
Discuss the efficacy of local & systemic steroids in reduction of dysphagia severity & incidence
Identify the utility of perioperative steroid use following ACDF, specifically as it relates to rate of postoperative complications and fusion

11:40 – 11:50AM Resident Section Question & Answers

11:50 – 12:10AM *Should Neurosurgeons Perform Scoliosis Surgery?*
Haroon Choudhri, MD

**Objectives:**
- Understand the history of deformity surgery
- Understand trends in spine surgical practice
- Learn the steps necessary to increasing the role of deformity surgery in one's practice

12:10 – 12:15AM Questions & Answers

12:15 – 12:30 PM *Non-Traumatic, Posterior Circulation Pseudoaneurysm of The Basilar Artery Summit with Complete Spontaneous Resolution: Case Report and Literature Review*
Nefize Turan, MD

**Objectives:**
- Learn the pathophysiology and types of pseudoaneurysms
- Learn the different treatment modalities for pseudoaneurysms
- Learn the indications for conservative management in idiopathic aneurysms

12:30 – 12:35PM Questions & Answers

12:35 – 12:50PM *Readmissions in Patients Undergoing Elective Lumbar Fusion Procedures*
Devon Tobey

**Objectives:**
- Understand the main variables affect rate of readmission.
- Understand the mean reasons for readmission.

12:50 – 12:55PM Questions & Answers

12:55PM ADJOURN

6:30 – 7:30PM Cocktail Reception in the Exhibit Hall

7:30PM Executive Committee / Honored Guest Dinner

**SUNDAY, MAY 29, 2016**

7:00 - 9:30AM Registration

7:30 – 9:00AM Continental Breakfast & Visit Exhibits

8:00AM - 12:20PM **SCIENTIFIC SESSIONS**
The Cloister Ballroom I

8:00 – 9:20AM *Resident Paper Contest Presentations – Session #2*

8:00 – 8:10AM *Microvascular Decompression of the Optic Nerve*
M. Neil Woodall, MD
Objectives:

- Discuss the anatomy of the optic foramen, anterior clinoid process, and falciform ligament
- Review differential diagnostic considerations for patients with visual loss

8:10 – 8:20AM  Morphological Analysis of the Occipital Condyle for Instrumentation in Infants and Children  
Angela Viers, MD  
Augusta University

Objectives:

- Evaluate occipital condyles in infants and children for instrumentation
- Determine if an occipital condyle is acceptable for instrumentation in infants and children

8:20 – 8:30AM  Complications and neurologic improvement associated with timing of cranioplasty: A systematic review and meta-analysis  
James Malcolm  
Emory University

Objectives:

- Understand that hydrocephalus is associated with early cranioplasty while other complications have no significant association
- Understand that early cranioplasty is associated with greater neurologic improvement

8:30 – 8:40AM  Comparison of Fusion and Complication Rates between Recombinant Human Bone Morphogenetic Protein-2 and Beta-Tricalcium Phosphate for Anterior Cervical Discectomy and Fusion  
Brain Howard, MD  
Emory University

Objectives:

- Compare the fusion and complication rates between rhBMP-2 and beta-TCP
- Discuss the factors contributing to post-operative dysphagia
- Describe the variables affecting pseudoarthrosis and adjacent segment disease

8:40 – 8:50AM  Long Term Outcomes after Stereotactic Radiosurgery for Cerebral Arteriovenous Malformations in Patients with Hereditary Hemorrhagic Telangiectasia  
Edward M. Marchan, MD  
Augusta University

Objectives:

- Develop a strategy to emphasize the importance of early diagnosis of cerebral AVMs in patients with hereditary hemorrhagic telangiectasia.
- Apply the long term obliteration outcome data presented herein to emphasize the benefit of early treatment with stereotactic radiosurgery in patients with cerebral AVMs with HHT.

8:50 – 9:00AM  Clinical Significance of Isolated Transverse Process Fractures: A Meta-Analysis and Retrospective Study  
Jason Boulter  
Emory University

Objectives:

- Understand the treatment of ITPFs.
- Understand that patients with ITPFs recover completely without surgery or bracing

9:00 – 9:10AM  Prognostication of Molecular Oligodendrogliomas: Correlation of Genetic Alterations and Magnetic Resonance Imaging  
Sameer H. Halani
Emory University

Objectives:
- Describe the new molecular classification scheme of lower-grade gliomas, particularly the molecular oligodendroglioma (i.e. IDH-mut/1p19q codel)
- Identify the importance of contrast enhancement and necrosis

9:10 – 9:20AM  Resident Questions & Answers

9:20 – 10:05AM  **HONORED GUEST PRESENTATION:**
*Spine surgery in the ambulatory outpatient setting: State of the art*
*Dom Coric, MD*

10:05 – 10:15AM  Questions & Answers

10:15 - 10:45AM  **BREAK AND VISIT EXHIBITS**

10:45 – 11:05AM  **GNS General Business Meeting**

11:05 – 11:25AM  *Optune tumor treating fields: novel treatment or novelty?*
*Erin Dunbar, MD*

11:25 – 11:30AM  Questions & Answers

11:30 – 11:50AM  *Endovascular Treatment of Acute Ischemic Stroke*
*Scott Rahimi, MD*

Objectives:
- Awareness of NIHSS
- Knowledge regarding different tools used for endovascular stroke therapy
- Understanding timing of stroke therapy

11:50 – 11:55AM  Questions & Answers

11:55 – 12:15PM  *Modifying Factors for Length of Stay (LOS) following Cervical Spine Surgery*
*Tanvir Choudhri, MD*

Objectives:
- Better understand patient-specific factors that affect LOS following cervical spine surgery
- Better understand surgery-specific factors that affect LOS following cervical spine surgery

12:15 – 12:20PM  Questions & Answers

12:20 – 12:30PM  **Conference Wrap-up & Resident Award**

12:30PM  **ADJOURN**