

BREAKFAST FOR SEMINAR PARTICIPANTS

6:45–7:30 AM

EXHIBIT HOURS

9:00 AM–4:00 PM

BEVERAGE BREAKS

9:00–9:45 AM

2:45–3:30 PM

LUNCH BREAK

1:15–2:00 PM

BREAKFAST SEMINARS

7:30–9:30 AM

Fee: \$100 each, includes breakfast

201

ABNS Board Preparation: What You Must Know

Moderator:

Daniel Louis Barrow, MD

Panelists:

William T. Couldwell, MD, PhD

Nelson M. Oyesiku, MD, PhD

Craig Andrew Van Der Veer, MD

The panelists will describe the certification process from residency to certification. Emphasis will be placed on strategies to prepare for the oral ABNS examination.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Discuss requirements for board certification
- ✦ Prepare for the ABNS oral examination

202

N&PE R,F&MS

Multidisciplinary Management of Cerebral AVMs

Moderator:

Neil A. Martin, MD

Panelists:

Aaron S. Dumont, MD

David M. Hasan, MD

Bruce E. Pollock, MD

Robert H. Rosenwasser, MD, FACS

Gary K. Steinberg, MD, PhD

Free for Residents, Fellows and Medical Students

This will be a comprehensive discussion of the multidisciplinary management of complex cerebral AVMs. The perspective of neurosurgeons, radiosurgeons and interventionists will be presented.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Discuss indications for treatment of patients with AVMs

203

Suprasellar and Juxtellar Tumors

Moderator:

Michael W. McDermott, MD

Panelists:

Khaled M. Aziz, MD, PhD

Theodore H. Schwartz, MD

Juraj Steno, MD, PhD

Harry R. van Loveren, MD

Michael William Weaver, MD

This seminar will concentrate on explaining the approaches and indications for surgical therapy of lesions in the suprasellar region in adults and children. Appropriate preoperative evaluation and surgical decision making will be discussed. Innovative surgical techniques will be presented. Management of the most common lesions arising in this area will be discussed.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Review the options for surgical approaches to tuberculum sellae meningiomas
- ✦ Review the bifrontal extended frontal approach
- ✦ Review visual outcomes following surgery for tuberculum sellae meningiomas
- ✦ Review outcomes for children after surgery for craniopharyngiomas
- ✦ Review outcomes of endoscopic transsphenoidal approaches

204

Foraminal and Far Lateral Lumbar Disc Herniations

Moderator:

John A. Jane Sr., MD, PhD

Panelists:

Benoit Goulet, MD, FRCSC

Patrick W. Hitchon, MD

Noel I. Perin, MD, FRCS

Paul D. Sawin, MD

The clinical and imaging characteristics of foraminal and far lateral lumbar disc herniations, as well as the surgical anatomy will be presented. The various surgical approaches paramedian, transmuscular and endoscopic will be described and the indications will be discussed.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Recognize a foraminal and far lateral lumbar disc herniation
- ✦ Identify the surgical approaches for foraminal and lateral lumbar disc herniations
- ✦ Assess the prognosis of foraminal and lateral disc herniations

205

Lumbar Interbody Fusion

Moderator:

Eric J. Woodard, MD

Panelists:

Paul M. Arnold, MD, FACS
Catherine J. Gallo, MD
John C. Liu, MD
Chima Osiris Ohaegbulam, MD
Jonathan R. Slotkin, MD

This seminar will describe conditions amenable to lumbar interbody fusion and basic surgical approaches, instrumentation and complications of LIF (Lumbar Interbody Fusion).

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Describe the indications for lumbar interbody fusion and the appropriate investigations to consider in the workup of patients
 - ✦ Explain the advantages and disadvantages of various lumbar interbody fusion techniques, including minimally invasive options
 - ✦ Explain approaches to minimize complications
 - ✦ Discuss the relevant approach anatomy related to LIF surgery
 - ✦ Discuss the latest technical advances related to LIF surgery

206

N&PE

Surgical Treatment of Parkinson's Disease

Moderator:

Philip A. Starr, MD, PhD

Panelists:

Aviva Abosch, MD, PhD
M. Sam Eljamel, MD, FRCS
Kenneth A. Follett, MD, PhD
Robert R. Goodman, MD, PhD

Participants will discuss current surgical targets for Parkinson's disease, a variety of technical approaches and complications.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Identify potential brain targets for deep brain stimulation in Parkinson's disease
- ✦ Discuss technical alternatives in placement of DBS electrodes
- ✦ Review complications of DBS for Parkinson's disease

207

Current and Future Treatments for Hydrocephalus

Moderator:

Mark G. Luciano, MD, PhD

Panelists:

Marvin Bergsneider, MD
Benjamin S. Carson, MD
Abhaya Vivek Kulkarni, MD, FRCS
Michael G. Muhonen, MD
David I. Sandberg, MD

This seminar will review the physiology of hydrocephalus and how new shunt systems and sensor technology are likely to change our way of treating patients. The dynamic aspects of CSF flow and pressure gradients will be discussed, as well as what pressure sensors reveal about the causes of patient symptoms and how a shunting system might be made using physiological data.

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Identify CSF dynamics and how it changes with hydrocephalus
 - ✦ Distinguish the relationship between clinical symptoms and CSF pressure measurements
 - ✦ Recognize how this new approach might lead to a better shunt system based on physiological measurements

208

NEW

History of Carotid-Cavernous Sinus Fistulae

Moderator:

Hamad Issam Farhat, MD

Panelists:

Jay U. Howington, MD
Dennis E. McDonnell, MD
William E. Thorell, MD

The treatment of carotid cavernous sinus fistulae has had an extensive and rich history, stemming to the 19th century. This seminar will discuss the origins of carotid occlusion and the many milestones achieved that came with technological advances and a greater understanding of cerebrovascular physiology.

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Describe the early treatments of CCF
 - ✦ Describe interesting modifications for the occlusion of carotid fistulae
 - ✦ Describe the evolution of endovascular approaches to the treatment of this disease
 - ✦ Describe the different types of CCFs and differences in their natural history and treatment
 - ✦ Describe the indications for treatment of CCF

209

N&PE R,F&MS

Management of Vasospasm

Moderator:

Peter David Le Roux, MD

Panelists:

Saleem I. Abdulrauf, MD, FACS
Hildo R. C. Azevedo-Filho, MD
Rose Du, MD, PhD
R. Loch Macdonald, MD, PhD

Free for Residents, Fellows and Medical Students

This seminar will present the current status of treatment measures for vasospasm. There will be presentations of cases highlighting difficulties in the treatment of cerebral vasospasm.

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Cite the treatments available for cerebral vasospasm and describe

common indications for their use

- ★ Cite levels of evidence upon which treatments for vasospasm are based
- ★ Recognize experimental, clinical and laboratory assessments of treatments for vasospasm

210

N&PE

Management of Adult Scoliosis

Moderator:

Christopher I. Shaffrey, MD

Panelists:

Robert F. Heary, MD
Tyler Robert Koski, MD
Frank La Marca, MD
Brian A. O'Shaughnessy, MD
Daniel M. Sciubba, MD

This seminar will discuss the strategies, evaluation and management of pediatric and adult spinal deformity. Special emphasis will be placed on the association of spinal deformity with conditions commonly treated by neurosurgeons.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Discuss natural history of idiopathic and degenerative scoliosis in adults
- ★ Detail appropriate clinical and radiographic evaluation of adult spinal deformity
- ★ Determine nonoperative and operative treatment options for adult deformity
- ★ Identify patient related factors that compromise surgical treatment
- ★ Discuss treatment strategies including use of anterior approaches, osteotomies, spinopelvic fixation and osteobiological agents

211

N&PE R,F&MS NEW

Intramedullary Spinal Cord Tumors

Moderator:

Paul C. McCormick, MD

Panelists:

Lawrence F. Borges, MD

Albino P. Bricolo, MD
Russell R. Lonser, MD
Robert A. Sanford, MD

Free for Residents, Fellows and Medical Students

This seminar will focus on the clinical evaluation and the current surgical management of intramedullary focus of the spinal cord.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Evaluate methods and strategies to reduce peri-operative complications
- ★ Identify operative techniques to optimize safe achievement of optimal outcomes

212

Building a Comprehensive Spine Center

Moderator:

E. Hunter Dyer, MD

Panelists:

Christopher J. Barry, MD
Mark D. D'Alise, MD, FACS
James J. Lynch, MD
Nathan E. Simmons, MD

This seminar instructs participants on how to develop a multidisciplinary spine center within their hospital and community setting.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Recognize the core components to build an effective spine center
- ★ Discuss interventional options and design treatment protocols for spine
- ★ Apply strategies for developing an effective spine program in your practice

213

N&PE R,F&MS

Management of Asymptomatic Vascular Lesion

Moderator:

Warren R. Selman, MD

Panelists:

Nicholas C. Bambakidis, MD
David Chalif, MD, FACS
Howard A. Riina, MD
Jason P. Sheehan, MD, PhD
H. Richard Winn, MD

Free for Residents, Fellows and Medical Students

This seminar will address decision making and surgical technique for asymptomatic AVMs, aneurysms, carotid disease and intracerebral stenosis/occlusion.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Formulate treatment plans for silent AVMs
- ★ Formulate treatment plans for unruptured aneurysms
- ★ Formulate treatment plans for asymptomatic vascular occlusive disease

214

R,F&MS

Neurosurgical Management of Intractable Pain

Moderator:

Kim J. Burchiel, MD, FACS

Panelists:

Giovanni Broggi, MD
Philip L. Gildenberg, MD, PhD
Robert M. Levy, MD, PhD
Richard K. Osenbach, MD
Konstantin V. Slavin, MD

Free for Residents, Fellows and Medical Students

This seminar will review indications, techniques and outcomes of contemporary neurosurgical procedures for the treatment of intractable pain. Attention will be directed toward practical applications of therapies that can be used in a general neurosurgical practice.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Compare the relative roles of noninvasive and invasive therapies for pain treatment
- ✦ Contrast the common indications for stimulation and drug delivery therapies for pain management
- ✦ Describe outcomes of neuromodulation therapies for pain management

215

Low-Grade Gliomas

Moderator:

Mitchel S. Berger, MD, FACS

Panelists:

Hugues Duffau, MD
 Kyu-Sung Lee, MD, PhD
 Miguel Angel Sanchez Vazquez, MD
 Jeffrey H. Wisoff, MD

This seminar will provide an update on current evaluation and management of low grade gliomas. The panel will address the variety of tumors and compare outcomes from different treatment strategies.

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Describe the range of pathologies included in low-grade gliomas
 - ✦ Distinguish between different management strategies for low-grade gliomas

216

Spinal Surgical Challenges

Moderator:

Edward C. Benzel, MD

Panelists:

Regis W. Haid Jr., MD
 R. Patrick Jacob, MD, FACS
 Vincent C. Traynelis, MD

This seminar is designed to present challenging cases that experienced faculty encountered.

Learning Objectives:

After completing this educational

activity, participants should be able to:

- ✦ Discuss how experienced surgeons overcome decision making obstacles
- ✦ Explain the nuances of the clinical decision making process
- ✦ Accomplish the aforementioned via 'real life' case examples

217

Cerebral Trauma State-of-the-Art Treatment

Moderator:

Alex B. Valadka, MD, FACS

Panelists:

Austin R. Colohan, MD, FACS
 Allen H. Maniker, MD
 Geoffrey T. Manley, MD, PhD
 David O. Okonkwo, MD, PhD
 Jamie S. Ullman, MD

This seminar will review current and future treatment options for patients with traumatic brain injury.

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Discuss optimal management strategies for patients with traumatic brain injury
 - ✦ Describe therapies that may become clinically available in the near future

218

The Spectrum of Adjuvant Therapy for Brain Tumors

Moderator:

Frederick F. Lang Jr., MD

Panelists:

Jeffrey N. Bruce, MD, FACS
 Amy B. Heimberger, MD
 Randy Lynn Jensen, MD, PhD
 Douglas W. Laske, MD
 James M. Markert Jr., MD

This seminar will provide a state-of-the-art review of the different treatment options available for patients with malignant brain tumors. These treatment options influence radiation therapy, including radiosurgery and chemotherapy.

N&PE

Learning Objectives:

After completing this educational activity, participants should be able to:

- ✦ Describe current scientific advances used to diagnose and treat brain tumors
- ✦ Discuss current problems with the design of effective therapies and recommend appropriate treatment options
- ✦ Design the best treatment programs based on current data for patients with brain tumors

219

New and Evolving Technologies for Minimally Invasive Surgery of the Lumbar Disc

Moderator:

Richard G. Fessler, MD, PhD

Panelists:

Charles L. Branch Jr., MD
 Dean Chou, MD
 Larry T. Khoo, MD
 Jean-Pierre Mobasser, MD
 Michael K. Rosner, MD

This seminar will present and evaluate new technologies for treating pathologies of the lumbar disc.

Learning Objectives:

- After completing this educational activity, participants should be able to:
- ✦ Evaluate the safety and effectiveness of new lumbar disc technologies
 - ✦ Describe current indications for use of new lumbar disc technologies

220

Pediatric Head Injury

Moderator:

Thomas G. Luerssen, MD

Panelists:

Joel C. Boaz, MD
 Ann-Christine Duhaime, MD
 Hugh J. L. Garton, MD, MHSc

Free for Residents, Fellows and Medical Students

N&PE R,F&MS

This seminar will review the current issues surrounding the diagnosis and management of traumatic brain surgery in children. The panel will focus on unique diagnosis and therapeutic strategies.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Recognize current issues specifically related to traumatic brain injury in infants and children
- ★ Explain the application of diagnostic strategies for head injured children
- ★ Discuss the therapeutic options and their associated risks and benefits
- ★ Be aware of short and long term outcome issues related to childhood TBI

221

NEW

Controversies in Cerebrovascular and Endovascular Neurosurgery

Moderator:

Erol Veznedaroglu, MD

Panelists:

Bernard R. Bendok, MD
 Neal F. Kassell, MD
 Michael T. Lawton, MD
 Elad I. Levy, MD, FACS
 B. Gregory Thompson Jr., MD

The introduction and acceptance of endovascular therapies for cerebrovascular disorders has revolutionized the treatment for cerebrovascular disease. With more cerebrovascular neurosurgeons becoming trained in both techniques, the treatment paradigms are changing and are often controversial. This breakfast seminar will examine the different treatment modalities for carotid artery disease, intracerebral aneurysms, and arteriovenous malformations. The discussants will present data and their own personal treatment methods to support their particular position. Each discussant will present their actual treatment paradigms and will be asked to support it.

Learning Objectives:

After completing this educational activity, participants should be able to:

- ★ Define the indications of either carotid endarterectomy or carotid angioplasty and stenting for extracranial carotid artery stenosis
- ★ Describe the treatment options as well as benefits and pitfalls of giant intracranial aneurysms
- ★ Name the patient population that will benefit from open versus endovascular treatment of giant aneurysms
- ★ Describe the indications for the most effective treatment of small arteriovenous malformations and the role of preoperative embolization
- ★ Use evidence based medicine in conjunction with current practice to determine which patients will benefit most from endovascular therapies or traditional open surgeries

PLENARY SESSION II

9:45 AM - 1:00 PM

Moderators:

Matthew A. Howard III, MD
 Troy M. Tippet, MD

9:45–10:04 AM

RHOTON FAMILY LECTURE

Introduced By:

Paul C. McCormick, MD

High-Risk Carotid Surgery 2010

Speaker:

Christopher M. Loftus, MD, FACS

10:05–10:09 AM

Neurosurgery Research and Education Foundation (NREF) Grant Presentation

Speaker:

Griffith R. Harsh IV, MD

700

10:10–10:24 AM

Balloon Remodeling vs. Stent Assisted Techniques for Intracranial Aneurysms; Comparison of Immediate to Long Term Outcome and Complications in a Single Institution Experience

Authors:

Ali Alaraj, MD; Troy Munson, MD; Sepideh Amin-Hanjani, MD, FRCS; Fady Charbel, MD; Victor Aletich, MD (Chicago, IL)

701

10:25 - 10:39 AM

JOURNAL OF NEURO-ONCOLOGY AWARD

A Reliable Blood Biomarker that can be Used to Distinguish Treatment: Effect from Recurrent Glioma

Authors:

Andrew T. Parsa, MD, PhD; Isaac Yang, MD; Courtney Crane, PhD (San Francisco, CA)

702

10:40 - 10:54 AM

ROBERT FLORIN MD AWARD

Accuracy of ICD-9-Based and Retrospective Assessments of Perioperative Adverse Events: Comparison with a Prospective Assessment of Complications in Spine Surgery

Authors:

John K. Ratliff, MD, FACS; Rani Nasser, BS; Roland Chitale, MD; Peter Campbell, MD; Jennifer Malone, CRNP; Sanjay Yadla, MD; Mitchel Maltenfort, PhD (Philadelphia, PA)

10:55–10:59 AM

VAN WAGENEN FELLOW PRESENTATION

Speaker:

Andrew W. Grande, MD

11:00–11:19 AM

VAN WAGENEN LECTURE

Introduced By:

James R. Bean, MD

Gliomas: Changing the Paradigm

Speaker:

Patrick J. Kelly, MD, FACS

703

11:20–11:34 AM

Elucidating the Etiology of Normal Pressure Hydrocephalus (NPH) and the Spectrum of Surgically Treatable Dementias

Authors:

Sebastian F. Koga, MD (Charlottesville, VA)

704

11:35–11:49 AM

Mechanisms of Disease-Like Degeneration of Embryonic Neural Grafts in Patients with Parkinson's and Huntington's Diseases

Authors:

Thomas B. Freeman, MD, FACS (Tampa, FL); Francesca Cicchetti, PhD (Sainte-Foy, Canada); Robert A. Hauser, MD (Tampa, FL); Yaping Chu, PhD (Chicago, IL); Sam Saporta, MD (Tampa, FL); Elliott J. Mufson, PhD (Chicago, IL); Warren Olanow, MD (New York, NY); Jeffrey H. Kordower, PhD (Chicago, IL)

705

11:50 AM–12:04 PM

Outcome Following Traumatic Cervical Central Cord Syndrome Associated with Spinal Stenosis

Authors:

Bizhan Aarabi, MD, FRCSC; Stuart Mirvis, MD; Kathirkama Shanmuganathan, MD; Alexander Melvin, MS; Carla Aresco, CRNP; Tiffany Blacklock, CRNP; David Chesler, MD; Christopher Maulucci, MD; Mark Iguchi, MD (Baltimore, MD)

12:05–12:09 PM

CUSHING MEDALIST

Introduced By:

Troy M. Tippett, MD

Recipient:

Roberto C. Heros, MD

12:10–1:00 PM

CUSHING ORATOR

Introduced By:

Troy M. Tippett, MD

Speaker:

Newt Gingrich

AFTERNOON COURSE

500

N&PE

Advancements in Neurotrauma Care

2:00–5:00 PM

Fee: \$100

Free for N&PE

Moderator:

Twyila Lay, NP, MS

Speaker:

Jonathan R. Jagid, MD
Marianne E. Langlois, PA-C
Geoffrey T. Manley, MD, PhD
Ava Puccio, RN, PhD
Shirley I. Stiver, MD, PhD
Shelly D. Timmons, MD, PhD

See page 68 for more details.

2:45–5:30 PM

AANS/CNS CEREBROVASCULAR SECTION

Moderators:

Kevin M. Cockroft, MD, FACS
Carlos A. David, MD

2:45–3:35 PM

DONAGHY LECTURE

Introduced By:

John A. Wilson, MD, FACS

Speaker:

L. Nelson Hopkins III, MD

3:36–4:15 PM

SYMPOSIUM

Moderator:

Murat Gunel, MD

3:36–3:55 PM

Update on Endovascular Treatment of Acute Ischemic Stroke

Speaker:

Peter A. Rasmussen, MD

3:56–4:15 PM

Update on Microsurgical Treatment of Cerebral Ischemia

Speaker:

Fady T. Charbel, MD

707

4:16–4:22 PM

AANS MEDICAL STUDENT SUMMER RESEARCH FELLOWSHIP

Neural Proliferation of Bone Marrow-Derived Cells in a Murine Model of Intracerebral Hemorrhage

Authors:

Teresa Wojtasiewicz; Paul Gigante; Christopher P. Kellner; Justin Gorski; Mason Yeh; Sergei Sosunov; Brian Y. Hwang; Raqeeb M. Haque, MD; E. Sander Connolly Jr., MD (New York, NY)

708

4:23–4:29 PM

Does Method of Aneurysm Treatment Affect Clot Clearance after Subarachnoid Hemorrhage?

Authors:

George M. Ibrahim, MD; Shobhan Vachhrajani, MD; R. Loch Macdonald, MD, PhD (Toronto, Canada)

709 4:30–4:36 PM

Transplantation of Human Neural Stem Cells Improves Axonal Plasticity and Transport in the Post-Ischemic Microenvironment

Authors:

Tonya M. Bliss, PhD; Robert H. Andres, MD; Ke Zhan, PhD; Guohua Sun, MD (Stanford, CA); McMillan E, BS (Madison, WI); Bruce T. Schaar, PhD (Stanford, CA); Clive N. Svendsen, PhD (Madison, WI); Gary K. Steinberg, MD, PhD (Stanford, CA)

710 4:37–4:43 PM

Gamma Knife Radiosurgery for Dural Arteriovenous Malformations

Authors:

Jason P. Sheehan, MD, PhD; Chris Cifarelli, MD, PhD; Chun po Yen, MD; George Kaptain, MD; David Schlesinger, PhD (Charlottesville, VA)

711 4:44–4:50 PM

Simvastatin Prevents Uncoupling of Endothelial Nitric Oxide Synthase after Subarachnoid Hemorrhage in Mice

Authors:

Robert L. Macdonald, MD, PhD; Mohammed Sabri, BSC; Jinglu Ai, MD, PhD; Asma Tariq, BSC; Esther Jeon, BSC (Toronto, Canada)

712 4:51–4:57 PM

Endovascular Treatment Increases but Gamma-Knife Radiosurgery Decreases Angiogenic Activity of AVMs: An In Vivo Experimental Study Using Rat Cornea Model

Authors:

Akin Akakin, MD; Abdulkadir Ozkan, MSc; Emel Akgun, BSC; Demet Yalcinkaya-Koc, MD; Deniz Konya, MD; Necmettin Pamir, MD; Turker Kilic, MD, PhD (Istanbul, Turkey)

713 4:58–5:04 PM

Increasing Prevalence of Cerebral Arteriovenous Malformations During Childhood

Authors:

Wajd N. Al-Holou, MD; Thomas M. O'Lynnger, BS; Hugh J.L. Garton, MD; Byron G. Thompson, MD; Aditya Pandey, MD; Cormac O. Maher, MD (Ann Arbor, MI)

714 5:05–5:11 PM

Differential Recanalization Rates in Polymer / Platinum Coil Mixtures: An Analysis of 678 Aneurysms

Authors:

Michael J. Alexander, MD (Los Angeles, CA); Ketan R. Bulsara, MD (New Haven, CT); Osama O. Zaidat, MD (Milwaukee, WI); Marshall Tolbert, MD (Anchorage, AK); Miriam Nuno, PhD (Los Angeles, CA)

715 5:12–5:18 PM

Endovascular Treatment of Ruptured and Unruptured Carotid-Ophthalmic Aneurysms: A Single-Institution Experience

Authors:

Sanjay Yadla, MD; Peter G. Campbell, MD; Bartosz Grobelny, BS; Robert H. Rosenwasser, MD, FACS; Pascal M. Jabbour, MD (Philadelphia, PA)

716 5:19–5:25 PM

Gender Differences in Clinical Presentation and Treatment Outcomes in Moyamoya Disease

Authors:

Nadia Khan, MD; Achal S. Achrol, MD; Raphael Guzman, MD; Robert Dodd, MD, PhD; Teresa Bell-Stephens, RN; Gary K. Steinberg, MD, PhD (Stanford, CA)

5:26–5:30 PM

Question and Answer

5:31–6:00 PM

CEREBROVASCULAR

BUSINESS MEETING

2:45–5:30 PM

AANS/CNS SECTION ON

NEUROTRAUMA AND CRITICAL CARE

Moderators:

Michael G. Fehlings, MD, PhD
Shelly D. Timmons, MD, PhD

2:45–3:00 PM

2009 CODMAN RECIPIENT PRESENTATION

Quantitative MRI Assessment of the Injured Spinal Cord to Assess Recovery and Functional Plasticity

Speaker:

David Cadotte, MD

2010 CODMAN RECIPIENT ANNOUNCEMENT

717 3:01–3:10 PM

SYNTHES RESIDENT CRANIOFACIAL AWARD

Determination of Orexin Neuropeptide Dynamics by Brain Microdialysis Following Traumatic Brain Injury in Mice

Authors:

Jon T. Willie, MD, PhD; Katherine E. Schwetye, BS; David L. Brody, MD, PhD (St. Louis, MO)

718 3:11–3:20 PM

SYNTHES SPINAL CORD INJURY RESIDENT AWARD

Trophic Factor Expression in Cells and Tissues Important in Repair of Spinal Cord Injury

Authors:

Gregory W. Hawryluk, MD; Andrea Mothe, PhD; Charles Tator, MD, PhD,

FRC; Michael Fehlings, MD, PhD
(Toronto, Canada)

SPECIAL GUEST LECTURE

Introduced By:

Michael G. Fehlings, MD, PhD

3:21–4:10 PM

Anti-Nogo Antibody Therapy for Spinal Cord Injury

Speaker:

Martin Schwab, PhD

4:11–4:30 PM

Therapeutic Hypothermia after Spinal Cord Injury

Speaker:

Allan D. Levi, MD, PhD

4:31–4:50 PM

Minimally Invasive Vertebroctomy and Instrumentation for TL Burst FXS

Speaker:

Adam S. Kanter, MD

4:51–5:10 PM

BOOST: A Multicenter Randomized Controlled Trial of ICP/ CPP- Directed vs Brain Oxygen-Based Therapy for Severe TBI

Speaker:

Peter David Le Roux, MD

5:11–5:30 PM

Brain Trauma Foundation Guidelines Consensus Algorithm for Treatment of Intracranial Hypertension

Speaker:

Jamshid Ghajar, MD, PhD

2:45–5:30 PM

AANS/CNS SECTION ON STEREOTACTIC AND FUNCTIONAL SURGERY

Moderators:

Aviva Abosch, MD, PhD

Michael G. Kaplitt, MD, PhD

AANS/CNS Stereotactic and Functional Section Jointly Sponsored by Pediatric Section Symposium

2:45–3:03 PM

Surgical Treatment of Pediatric Epilepsy

Speaker:

James T. Rutka, MD, PhD

3:04–3:23 PM

Overview of Movement Disorders Surgery in Children

Speaker:

A. Leland Albright, MD

3:24–3:43 PM

Deep Brain Stimulation in Secondary Dystonia

Speaker:

John Harrel Honeycutt, MD

719

3:44–3:53 PM

PHILIP L. GILDENBERG S&F RESIDENT AWARD Multifractal Complexity in Epileptiform Hippocampal Dynamics

Authors:

Demitre Serletis, MD; Taufik A.

Valiante, MD, PhD, FRC; Berj L.

Bardakjian, PhD; Peter L. Carlen, MD,

Prof (Toronto, Canada)

3:54–3:55 PM

Discussion

720

3:56–4:04 PM

The History of Hemispherectomy for Epilepsy: From Radical Anatomic Resections to Less Invasive Hemispheric Disconnections

Authors:

Biji Bahuleyan, MD; Shenandoah Robinson, MD, FACS; Alan R. Cohen, MD, FACS (Cleveland, OH)

4:05–4:06 PM

Discussion

721

4:07–4:15 PM

Optical Detection of the Pre-Seizure State In Vivo

Authors:

Kiran F. Rajneesh, MD, MS; Alexander J. Lin, BS; James J. Yeh; Mike S. Hsu, MS; Devin K. Binder, MD, PhD (Irvine, CA)

4:16–4:17 PM

Discussion

722

4:18–4:26 PM

Augmentation of Cortical Activity Following use of a Brain-Computer Interface

Authors:

Kai J. Miller, PhD; Jeffrey G. Ojemann, MD (Seattle, WA)

4:27–4:28 PM

Discussion

723

4:29–4:37 PM

Symptomatic Vertebral Artery Compression by the Rod of a C1-C2 Posterior Fusion Construct: Case Report

Authors:

Sergei Terterov; Alexander Taghva, MD; Alexander A. Khalessi, MD, MPH; Patrick C. Hsieh, MD (Los Angeles, CA)

4:38–4:39 PM

Discussion

724 4:40–4:48 PM

Complete Resection as Strongest Predictor of Seizure Freedom after Surgery for Malformations of Cortical Development

Authors:

Edward Chang, MD; Doris Wang, MD; Anthony Barkovich, MD; Tarik Tihan, MD; Paul Garcia, MD; Nicholas M. Barbaro, MD (San Francisco, CA)

4:49–4:50 PM

Discussion

725 4:51–4:59 PM

Infarct Resection Improves Outcome in Malignant Supratentorial Artery Infarction

Authors:

Dean Kostov, MD; David Panczykowski, BS; Hilal Kanaan, MD; Brian Jankowitz, MD; Michael Horowitz, MD (Pittsburgh, PA)

5:00–5:01 PM

Discussion

726 5:02–5:10 PM

White Matter Connectivity of Human Hypothalamus

Authors:

Jean-Jacques Lemaire (Clermont-Ferrand, France); Andrew J. Frew, PhD; David MacArthur, MD, MPH; Alessandra A. Gorgulho, MD; Nader Pouratian, MD; Noriko Salomon, MD (Los Angeles, CA); Clive Chen, MD (Taipei, Taiwan); Eric J. Behnke, MSc; Antonio A.F. DeSalles, MD, PhD (Los Angeles, CA)

5:11–5:12 PM

Discussion

727 5:13–5:21 PM

A Population-Based Analysis of Morbidity and Mortality Following Surgery for Intractable Temporal Lobe Epilepsy in the United States

Authors:

Shearwood McClelland III, MD; Hongfei Guo, PhD; Kolawole S. Okuyemi, MD, MPH (Minneapolis, MN)

5:22–5:23 PM

Discussion

5:24–5:30 PM

Question and Answer

2:45–5:38 PM

AANS/CSNS SOCIOECONOMIC

SESSION

Moderators:

Deborah L. Benzil, MD
Darlene A. Lobel, MD

SYMPOSIUM

2:45–3:05 PM

The Power of Congressional Hearings: Making Your Voice Heard

Speaker:

James R. Bean, MD

3:06–3:25 PM

Leveraging Political Influence at the Federal Level

Speaker:

Gail L. Rosseau, MD

3:26–4:15 PM

Leveraging Political Influence at the State Level

Speaker:

Anil Nanda, MD, FACS

4:16–4:35 PM

Accessing Your Local Politicians

Speaker:

Charles L. Branch Jr., MD

728 4:36–4:43 PM

A Cost-Benefit Analysis of Craniotomy Versus Burr Hole Treatment of Chronic Subdural Hematomas

Authors:

Anand I. Rughani, MD; Chih Lin, BS; Richard Murray, MD; Bruce I. Tranmer, MD, FACS (Burlington, VT)

729 4:44–4:51 PM

Comorbidities in Spine Surgery Patients and Impact on Length of Stay and Hospital Cost

Authors:

M. Sami Walid, MD, PhD; Edward R. M. Robinson, BA; Joe S. Robinson III, BA; Joe S. Robinson Jr, MD, FACS (Macon, GA)

730 4:52–4:59 PM

Post-Operative Outcomes Among Older Patients with Pituitary Tumors

Authors:

Debraj Mukherjee, MD, MPH; Rachel Grossman, MD; Kaisorn L. Chaichana, MD; David C. Chang, PhD; Roberto Salvatori, MD; Henry Brem, MD; Alfredo Quinones-Hinojosa, MD (Baltimore, MD)

731 5:00–5:07 PM

What can I Do about Those Expletive CD's

Authors:

Charles L. Rosen, MD, PhD (Morgantown, WV)

732 5:08–5:15 PM

The Surgeon's Choices, and Choice of Surgeons, Affect the Cost of Single-Level Anterior Cervical Surgery

Authors:

Nancy E. Epstein, MD (New Hyde Park, NY); Garry Schwall, RPA-C (Mineola, NY)

733 5:16–5:23 PM

The Effect of Call on Neurosurgery Residents' Skills: Implications for Policy Regarding Resident Call Periods

Authors:

Aruna Ganju, MD, FACS (Chicago, IL); Kanav Kahol, PhD (Phoenix, AZ); Peter Lee, MD; Narina Simonian, BS; Steven J. Quinn, BA (Chicago, IL); John J. Ferrara, MD (Phoenix, AZ); H. Hunt Batjer, MD, FACS (Chicago, IL)

734 5:24–5:30 PM

MEDICAL STUDENT ABSTRACT AWARD (YNS)

Does Age Impact Outcome Following Subdural Hematoma Evacuation?

Authors:

Gina Deck, BS; James Carroll, MD; Sing Chau Ng; Jennifer Tseng, MD; Julie Pilitsis, MD, PhD (Worcester, MA)

735 5:31–5:38 PM

Wrong-Site Craniotomy: Analysis of 35 Cases and Systems for Prevention

Authors:

Daniel Mendelsohn, MSc (Toronto, Canada); Fred L. Cohen, MD, JD (Palm Beach Gardens, FL); Mark Bernstein, MD, DMSc (Toronto, Canada)

2:45–5:30 PM

AANS/CNS SECTION ON SPINE

Moderators:

Ira M. Goldstein, MD
Robert F. Heary, MD

2:45–4:18 PM

SYMPOSIUM

Managing Surgical Complications: Practical Advice for Getting Out of Trouble

2:45–3:01 PM

Anterior Cervical Complications

Speaker:

Praveen V. Mummaneni, MD

3:02–3:18 PM

Latrogenic Spinal Cord Injury

Speaker:

James S. Harrop, MD

3:19–3:35 PM

Adjacent Level Syndromes

Speaker:

Christopher I. Shaffrey, MD

3:36–3:53 PM

Postoperative Infections

Speaker:

Joseph S. Cheng, MD, MS

3:54–4:10 PM

Spinal Fluid Leakage

Speaker:

Michael Patrick Steinmetz, MD

4:11–4:18 PM

Question and Answer

736 4:19–4:27 PM

Complications in the Surgical Treatment of 19,956 Cases of Pediatric Scoliosis: A Review of the Scoliosis Research Society Database

Authors:

Davis L. Reames, MD; Kai-Ming Fu, MD, PhD; Justin S. Smith, MD, PhD (Charlottesville, VA); David W. Polly Jr., MD (Minneapolis, MN); Sigurd H. Berven, MD (San Francisco, CA); Joseph H. Perra, MD (Minneapolis, MN); Oheneba Boachie-Adjei, MD (New York, NY); Christopher I. Shaffrey, MD (Charlottesville, VA)

737 4:28–4:36 PM

Spinal Surgery: An Analysis of Prevalence, Risk Factors and Medical Cost- A Claims-based Approach

Authors:

Jack E. Wilberger, MD, FACS; Patricia Gladowski, RN, MSN; John Orwat, PhD; Michael Manocchia, PhD; Sanjay Bhatia, MD (Pittsburgh, PA)

738 4:37–4:45 PM

Repeated Simulation for Posterior Spinal Instrumentation Placement Training

Author:

James W. Leiphart, MD, PhD (Washington, DC)

739 4:46–4:54 PM

Outcomes after Incidental Durotomy During Lumbar Discectomy

Authors:

Atman Desai, MD; Perry A. Ball, MD; Jon Lurie, MD; Sohail K. Mirza, MD; Anna N. A. Tosteson, DSc; Tor D. Tosteson, DSc; James N. Weinstein, DO (Lebanon, NH)

740 4:55–5:03 PM

Comparative Effectiveness of Ventral versus Dorsal Surgery for Cervical Spondylotic Myelopathy

Authors:

Zoher Ghogawala, MD, FACS (Greenwich, CT); Edward C. Benzel, MD (Cleveland, OH); Subu N. Magge, MD (Burlington, MA); Khalid Abbed, MD (New Haven, CT); Ronald Apfelbaum, MD (Salt Lake City, UT); Javed Shahid, MD (Danbury, CT); Jean-Valery C.E. Coumans, MD (Boston, MA); Tanvir Choudhri, MD (New York, NY); Robert F. Heary, MD (Newark, NJ)

741 5:04–5:12 PM

Surgical Treatment of Post-Traumatic Syringomyelia

Authors:

Nozar Aghakhani, MD, PhD; Baussart Bertrand, MD; Philippe David, MD; Fabrice Parker, MD, PhD (Paris, France)

742 5:13–5:21 PM

Establishing the Pathophysiology of Primary Spinal Syringomyelia

Authors:

Kendall A. Snyder, BA; Hetty L. DeVroom, RN; Rene K. Smith, RN, BSN (Bethesda, MD); Edward H. Oldfield, MD (Charlottesville, VA); John D. Heiss, MD (Bethesda, MD)

743 5:22–5:30 PM

Human Serotonergic hNT2.19 Cell Therapy in a Contusive Spinal Cord Injury Model: Route of Transplantation Impacts Motor Versus Sensory Recovery

Authors:

Stacey Quintero Wolfe, MD (Honolulu, HI); Yerko Berrocal, BS; Damien D. Pearse, PhD; Mary J. Eaton, PhD (Miami, FL)

2:45–5:30 PM

AANS/CNS SECTION ON TUMOR I

Moderator:

John A. Boockvar, MD

2:45–2:49 PM

Farber Award Introductions

Jeffrey N. Bruce, MD, FACS

2:50–3:09 PM

FARBER AWARD LECTURE

Speaker:

Roger Stupp, MD

3:10–3:14 PM

Tumor Section Award Presentations

Jonas M. Sheehan, MD

3:15–4:14 PM

Symposium: Brain Tumor Immunotherapy

Moderators:

Roberta P. Glick, MD
John H. Sampson, MD, PhD

3:15–3:26 PM

Heat Shock Protein Vaccines

Speaker:

Andrew T. Parsa, MD, PhD

3:27–3:29 PM

Discussion

3:30–3:41 PM

Targeting Cancer Stem Cells

Speaker:

John S. Yu, MD

3:42–3:44 PM

Discussion

3:45–3:56 PM

Inhibition of Regulatory T-Cell Immunosuppression in GBM

Speaker:

Amy B. Heimberger, MD

3:57–3:59 PM

Discussion

4:00–4:11 PM

Inhibition of Regulatory T-Cell Immunosuppression in GBM

Speaker:

John H. Sampson, MD, PhD

4:12–4:14 PM

Discussion

4:15–4:20 PM

TUMOR SECTION BUSINESS MEETING

744 4:21–4:28 PM

INTEGRA FOUNDATION AWARD A Systematic Analysis of Survival Outcomes and Tumor Recurrence in 8,058 Craniopharyngiomas

Authors:

Isaac Yang, MD; Michael Ivan, MD;

Derick Aranda, MD; Michael E. Sughrue, MD; Andrew T. Parsa, MD, PhD (San Francisco, CA)

4:29–4:30 PM

Question and Answer

745 4:31–4:38 PM

Prevalence of Malignant Meningiomas by Location

Authors:

Ari J. Kane, BA; Michael E. Sughrue, MD; Martin J. Rutkowski, BA; Gopal Shangari, AB, MS; Tarik Tihan, MD, PhD; Mitchel S. Berger, MD, FACS; Michael W. McDermott, MD; Andrew T. Parsa, MD, PhD (San Francisco, CA)

4:39–4:40 PM

Question and Answer

746 4:41–4:48 PM

Inferior Facial Nerve Presentation Predicts Poor Outcome in Vestibular Schwannoma Surgery

Authors:

Michael E. Sughrue, MD; Rajwant Kaur, BS; Martin J. Rutkowski, BA; Ari J. Kane, BA; Lawrence H. Pitts, MD; Steven W. Cheung, MD; Andrew T. Parsa, MD, PhD (San Francisco, CA)

4:49–4:50 PM

Question and Answer

747 4:51–4:58 PM

RONALD L. BITTNER AWARD The Natural History of Untreated Vestibular Schwannomas: A 20 Year Prospective Observational Study

Authors:

Michael E. Sughrue, MD; Ari J. Kane, BA; Rajwant Kaur, BS; Martin J. Rutkowski, BA; Lawrence H. Pitts, MD; Steven W. Cheung, MD; Andrew T. Parsa, MD, PhD (San Francisco, CA)

4:59–5:00 PM

Question and Answer

748

5:01–5:08 PM

AMERICAN BRAIN TUMOR ASSOCIATION YOUNG INVESTIGATOR AWARD

NFKBIA Deletion in Glioblastoma Multiforme

Authors:

Markus Bredel, MD, PhD; Ajay Yadav, PhD; Jaclyn Renfrow, MA; Denise Scholtens, PhD (Chicago, IL); Claudia Bredel, PhD (Freiburg, Germany); James Chandler, MD; Michael Tagge, BS; Paul Lukac, BS (Chicago, IL); Pierre Robe, MD, PhD (Liege, Belgium); Hannes Vogel, MD (Stanford, CA); Adrienne Scheck, PhD (Phoenix, AZ); Kenneth Aldape, MD (Houston, TX); Arnab Chakravarti, MD (Columbus, OH); Griffith R. Harsh IV, MD (Stanford, CA)

5:09–5:10 PM

Question and Answer

749

5:11–5:18 PM

The Utility of Pre-Operative BAERs as a Predictor of Hearing Preservation in Patients with Vestibular Schwannomas

Authors:

Erin E. Biro; Scott Meyer; Yakov Gologorsky; Donald Weisz; Kalmon Post (New York, NY)

5:19–5:20 PM

Question and Answer

750

5:21–5:28 PM

LEKSELL RADIOSURGERY AWARD

Efficacy of Facial Nerve-Sparing Microsurgery and Stereotactic Radiosurgery with Gamma Knife in Preserving Facial Nerve Function in Patients with Recurrent Acoustic Neuromas

Authors:

Raqeab Haque, DR; Teresa J. Wojtasiewicz, BA; Christopher P. Kellner, DR; Paul R. Gigante, DR; Mark A. Attia, BA; Brendan Huang; Steven R. Isaacson, DR; Michael B. Sisti, DR (New York, NY)

5:29–5:30 PM

Question and Answer

NREF RESEARCH SYMPOSIUM

4:00–5:30 PM

Invitation only.

See page 71 for more information.

Technical support is readily available within the AANS Resource Center and throughout the convention hall.

