



American
Association of
Neurological
Surgeons

Jointly Sponsored by AANS

2011

the winter clinics
for cranial & spinal surgery

mayfield clinic . mayo clinic . cleveland clinic
jointly sponsored by AANS

Snowmass, Colorado

Sunday, Feb. 27 - Thursday, Mar. 3, 2011

Be part of the nation's most exciting cranial, spine and nerve meeting, located at the beautiful Silvertree Hotel in Snowmass Village, Colorado.

Objectives

Intended audience: neurosurgeons, orthopaedic surgeons, neurosurgical residents, fellows, nurse practitioners & physician assistants

Upon completion of this educational activity, participants should be able to:

- Describe the evaluation and management of benign and malignant lesions affecting the peripheral nerve.
- Discuss and review the contemporary avoidance, evaluation, pathophysiology, and treatment of surgical complications.
- Discuss the process of clinical decision making as it pertains to the day-to-day realities of clinical practice.
- Review the benefits and complications of surgical approaches for interbody fusion.
- Review of the current status of lumbar arthroplasty and utilization both in and outside of the U.S.
- Discussion of indications for interbody fusion and review of Millman Criteria.
- Review of current alternatives to bone morphogenetic protein and lumbar fusion.
- Discuss the use of minimally invasive biologics for spinal reconstruction.
- Discuss current translational research being conducted on the use of stem cells for disc regeneration and possible future clinical applications.
- Describe currently available posterior cervical fusion procedures, and review the indications, surgical techniques, and complications of these procedures.
- Review the indications, contraindications, potential complications and understand basic techniques for C-Meds.
- Define relevant structures, identify anatomic variations and discuss alternatives for C1 lateral mass screw placement.
- Describe research and clinical applications for biological disc replacement in degenerative disc disorders.
- Review of radiographic and clinical outcomes, technique and modifications, and complications regarding minimally invasive TLIF.
- Describe and review recent advances in the management of neurosurgical patients in the ICU.
- Discuss new research projects in Traumatic Brain Injury.
- Introduce and review treatment options for tumors, vascular malformations, aneurysms and cerebrovascular disease utilizing endovascular techniques.
- Describe and review advances in the use of stereotactic radiosurgery specifically as it relates to new techniques such as frameless radiosurgery, methods such as 5 fraction radiosurgery, and disease processes such as the use of radiosurgery for gliomas. In addition, potential complications of radiosurgery, namely radiation necrosis, and its management will be explored.
- Discuss newer technologies as well as treatment paradigms for complex intracranial non-vascular disorders. Review of the peer-review literature for each of several disorders and justification for the newer treatment algorithms including outcome reporting will be used and future directions of clinical and basic science research will be discussed.
- Introduce and discuss the necessity of understanding that detailed surgical anatomy apply to specific surgical corridors.
- Describe how industrial engineering practices and simulation technologies can be applied to reduce the incidence of Medical Adverse Events in the training for and the practice of neurosurgery.
- Discuss the neurosurgical options available for treatment of atypical pain and pain that does not respond to traditional decompression or fusion surgeries and present guidance for which patients may be appropriate candidates.

CME

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of AANS and the Mayfield Clinic. The AANS is accredited by the ACCME to provide continuing medical education for physicians.

The AANS designates this live activity for a maximum of 25.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Before the program, all faculty members will disclose the existence of any financial interest and/or the relationship they or their significant other might have with the manufacturer(s) of any commercial product(s) to be discussed during their presentation.

Sunday, February 27, 2011

**7:00 - 9:30am
Peripheral Nerve Tumors**

Moderator: Robert J. Spinner, MD

The Suspected Nerve Tumor: Evaluation and Indications for Surgery
Eric L. Zager, MD, FACS

Mechanisms and Treatment: Benign Lesions
Robert J. Spinner, MD

Mechanisms and Treatment: Malignant Lesions
Marie-Noëlle Hébert-Blouin, MD

Case Presentations

**4:00 - 6:30pm
Worst Complication: What I Learned**

Moderator: Charles Kuntz, IV, MD

Occipitocervical
Michael W. Groff, MD, FACS

Cervical
Michael P. Steinmetz, MD

Thoracic
Robert J. Bohinski, MD, PhD

Thoracolumbar
Bradford A. Curt, MD

Lumbar
Richard G. Fessler, MD, PhD

Spinopelvic
Charles Kuntz, IV, MD

Panel Discussion

Welcome Reception to follow



Monday, February 28, 2011

7:00 - 9:30am
"Fireside" Case Discussion:
What Would You Do?

Moderator: Robert J. Bohinski, MD, PhD

This session is designed to allow the audience to actively participate in the diagnostic evaluation, differential diagnosis, treatment algorithm, surgical technique, outcome, and complication management relevant to the index case. Cases that demonstrate key controversies in spine care, the application of new and emerging technology, and complication management will be emphasized.

Case Presentations

Robert J. Bohinski, MD, PhD
Claudio Feler, MD, FACS
Andrew Utter, MD

Interested To Present A Case?

If you are interested to bring a case to present, please contact Christa McAlpin at cmcalpin@mayfieldclinic.com before January 14, 2011.

4:00 - 6:30pm
Controversies In Lumbar Spine Surgery

Moderator: William D. Tobler, MD

ALIF, PLIF, TLIF, AxialIF: Benefits and Evidence to Support These Approaches
Chad Morgan, MD

Alternatives to Interbody Fusion: Motion Preservation Procedures
Michael Hisey, MD

Problems with BMP and Alternative Options for Interbody Fusion
Larry T. Khoo, MD

Reimbursement Issues Impacting Lumbar Fusion
William D. Tobler, MD

Innovative Technologies
Neel Anand, MD, Mch Orth



Tuesday, March 1, 2011

7:00 - 9:30am
Spine: Open Papers

Moderator: H. Gordon Deen, MD

Minimally Invasive Biologics
Mick J. Perez-Cruet, MD, MS

Review of Posterior Cervical Fusion Techniques
H. Gordon Deen, MD

Minimally Invasive Decompression of Cervical Stenosis
Richard G. Fessler, MD, PhD

Nucleoplasty after Lumbar Discectomy: Preliminary Results
Edmund Frank, MD, FACS

Biological Disc Replacement for Degenerative Disc Disorders
Roger Hartl, MD

Minimally Invasive TLIF: The First 100 Cases
Armond Levy, MD

3:30 - 6:30pm
Neurocritical Care: Myths and Complications in the NSICU

Moderator: William A. Knight, IV, MD

Moderator Remarks

Hot Areas of TBI Research
William A. Knight, IV, MD

Complications in the NSICU
Erin Grise, MD

Non-convulsive Seizures in the NSICU
Jan Claassen, MD

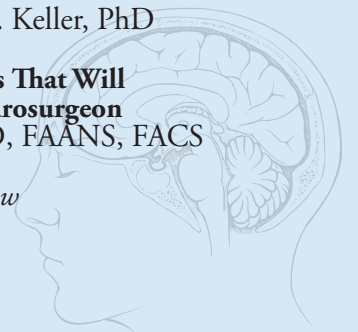
Myths in the NSICU
Jordan Bonomo, MD

Medical Management of Vasospasm in the ICU
Ed Manno, MD

Introduction, Jeffrey T. Keller, PhD

10 Spiritual Guidelines That Will Make You a Better Neurosurgeon
Allan J. Hamilton MD, FAANS, FACS

Special Gathering to follow



Wednesday, March 2, 2011

7:00 - 9:30am Cerebrovascular/Endovascular

Moderator: Andrew J. Ringer, MD

Endovascular Training for Neurosurgeons
Andrew J. Ringer, MD

Atherosclerotic Disease
Ricardo A. Hanel, MD, PhD

Aneurysm Treatment
Alan S. Boulos, MD

AVM and DAVF Treatments
Richard Klucznik, MD

Overview of a Private Endovascular Practice
Erol Veznedoroglu, MD, FACS, FAHA

4:00 - 6:30pm Neuro-oncology: Radiosurgery

Moderator: Christopher McPherson, MD

Accuracy and Efficacy of Frameless Radiosurgery
Christopher McPherson, MD

**Five Fraction Radiosurgery:
Efficacy in Metastatic Brain Tumor Population**
Jessica Guarnaschelli, MD

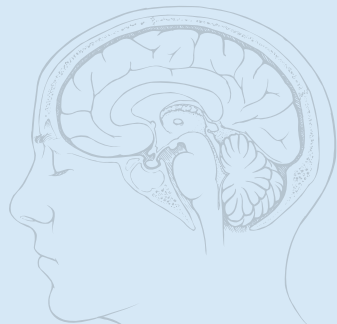
Update on Radiosurgery for Gliomas
David W. Andrews, MD

Management of Radiation Necrosis
Glenn H.J. Stevens, DO, PhD

Update on Gamma Knife Radiosurgery
George Bovis, MD

Update on Radiosurgery for Acoustic Neuroma
Bharat Guthikonda, MD

Case Presentations



Thursday, March 3, 2011

7:00 - 9:30am Complex Intracranial Surgery

Moderator: Philip V. Theodosopoulos, MD

**The Role of Imaging in Treatment of Brain Tumors
Which is Both Historical and Focused on Recent
Developments**
John M. Tew Jr., MD

Total Sensory Rhizotomy for Trigeminal Neuralgia
John DePowell, MD

New Technical Approaches to Deep Brain Targets
Philip A. Starr, MD, PhD

Subtotal Resection of Large Acoustic Neuromas
Philip V. Theodosopoulos, MD

Surgical Treatment of Hemifacial Spasm
Michael J. Link, MD

Foramen Magnum Meningiomas
Joung H. Lee, MD

Case Presentations

4:00 - 6:30pm Cranial: Open Papers

Moderator: Jeffery T. Keller, PhD

**Anatomy: Does it Hold the Key to the
Future of Surgical Development?**
Jeffrey T. Keller, PhD

**Reappraising Medical Adverse Events—
Developing a Simulation Think Tank to
Change Regional Healthcare**
Allan J. Hamilton MD, FAANS, FACS

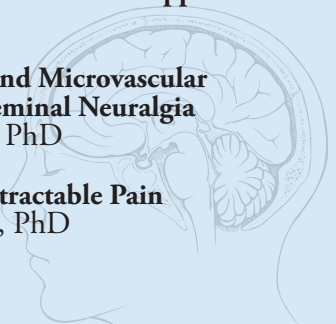
Cortical Anatomy for Dummies
Harry R. van Loveren, MD

**The Application of the Endoscope
in Craniopharyngioma Surgery**
Sebastien Froelich, MD

**Lateral Cerebellar Transtentorial Approach:
An Alternative to Radical Skull Base Approaches**
Troy D. Payner, MD

**What To Do on the Second Microvascular
Decompression for Trigeminal Neuralgia**
Robert G. Parrish, MD, PhD

Neuromodulation for Intractable Pain
James W. Leiphart, MD, PhD



Lodging and Location

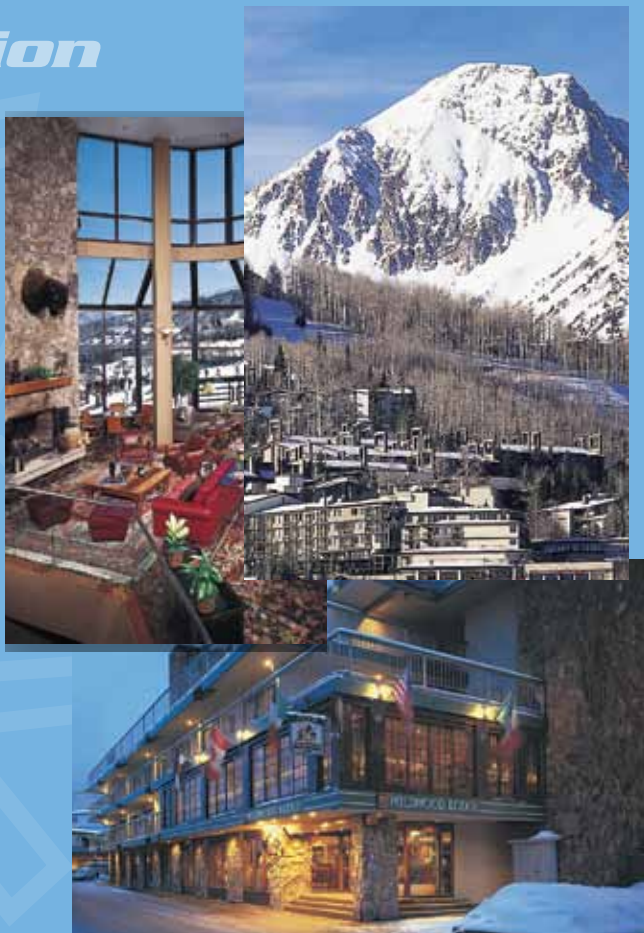
Snowmass Village is a beautiful area, perfect for wintertime fun. Nestled in the Colorado Rockies, Snowmass provides a serene backdrop for this educational program.

The Silvertree Hotel is the Village's full-service, ski-in, ski-out hotel. Improvements include a remodel of all public areas of the hotel and the addition of high-speed, wireless Internet access throughout The Silvertree Hotel, Wildwood Lodge and the Snowmass Conference Center.

The Wildwood Lodge, offers the relaxed atmosphere and comfort of a mountain lodge.

When you register for the conference, remember to make lodging reservations as well. The Silvertree Hotel, Wildwood Lodge, and Village Property Management are holding a limited number of rooms at a discounted price until January 14, 2011.

To make reservations, call (800) 525-9402. Reservations will be accepted based on availability.



Tuition

| | |
|--|---------------|
| Full Program | \$1300 |
| Spinal Program Only (Feb. 27-March 1) | \$1100 |
| Cranial Program Only (March 1 - March 3) | \$1100 |
| Residents/Fellows, Nurses, Physician Assistants | \$600 |
| (Full Program Only) | |

For more detailed information and to register, visit www.winterclinics.com.

Registration deadline:
February 11, 2011

Exhibitors*

Trans1

**Aesculap, Inc., Integra, KLS Martin, L.P.,
K2M, Inc., Mizuho America, Inc.,
Orthofix, Inc., Paradigm BioDevices,
Pioneer Surgical, Stryker**

* as of November 23, 2010

the winter clinics
for cranial & spinal surgery

mayfield clinic . mayo clinic . cleveland clinic
jointly sponsored by AANS

Snowmass, Colorado

Sunday, Feb. 27 - Thursday, Mar. 3, 2011

Faculty

Advocate Lutheran General Hospital
George Bovis, MD

Albany Medical Center
Alan S. Boulos, MD

**Capital Health Stroke and
Cerebrovascular Center of New Jersey**
Erol Veznedaroglu, MD, FACS, FAHA

Cedars-Sinai Center for Spinal Disorders
Neel Anand, MD, Mch Orth

Cleveland Clinic
Joung H. Lee, MD
Ed Manno, MD
Michael P. Steinmetz, MD
Glen H.J. Stevens, DO, PhD

Columbia University
Jan Claassen, MD

Cornell University
Roger Hartl, MD

George Washington University
James W. Leiphart, MD, PhD

Goodman Campbell Brain and Spine
Troy D. Payner, MD

Harvard University
Michael W. Groff, MD, FACS

Louisiana State University
Bharat Guthikonda, MD

Mayo Clinic
H. Gordon Deen, MD
Ricardo A. Hanel, MD, PhD
Michael J. Link, MD
Robert J. Spinner, MD

McGill University, Canada
Marie-Noëlle Hébert-Blouin, MD

Methodist Neurological Institute
Richard Klucznik, MD
Robert G. Parrish, MD, PhD

Michigan Head & Spine Institute
Mick J. Perez-Cruet, MD, MS

Northwestern University
Richard G. Fessler, MD, PhD

Oregon Health & Science University
Edmund Frank, MD, FACS

**Semmes-Murphey Neurologic &
Spine Institute**
Claudio A. Feler, MD

Spine Institute of Louisiana
Andrew Utter, MD

Springfield Neurological and Spine Institute
Chad J. Morgan, MD

St. Clare Health Center
Armond Levy, MD

Texas Back Institute
Michael Hisey, MD

**The Spine Clinic of Los Angeles at
Good Samaritan Hospital**
Larry T. Khoo, MD

Thomas Jefferson University Hospital
David W. Andrews, MD

University of Arizona
Allan J. Hamilton, MD, FAANS, FACS

University of California, San Francisco
Philip A. Starr, MD, PhD

University of Cincinnati / Mayfield Clinic
Robert J. Bohinski, MD, PhD
Jordan Bonomo, MD
Bradford A. Curt, MD
John DePowell, MD
Erin Grise, MD

Jessica Guarnaschelli, MD
Jeffrey T. Keller, PhD
William Knight, IV, MD
Charles Kuntz, IV, MD
Christopher McPherson, MD
Andrew J. Ringer, MD
John M. Tew, Jr., MD
Philip V. Theodosopoulos, MD
William D. Tobler, MD

University of Pennsylvania
Eric L. Zager, MD, FACS

University of South Florida
Harry R. van Loveren, MD

University of Strasbourg, France
Sebastien Froelich, MD