



American
Association of
Neurological
Surgeons

Jointly Provided by the AANS

2017

The Winter Clinics

FOR CRANIAL & SPINAL SURGERY

Sunday, February 26 - Thursday, March 2, 2017

presented by:

Mayfield Clinic

Mayo Clinic

Cleveland Clinic

Goodman Campbell Brain and Spine

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

Objectives

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

Methods of instruction: didactic lectures, case presentations/discussions, abstract presentations, panel discussions and formal discussion periods

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

- Discuss emerging technologies as well as treatment paradigms for various spinal diseases and disorders.
- Explain and review new techniques and controversies as demonstrated in various case studies, and apply that information to future clinical decision-making processes.
- Describe peripheral nerve disorders, entrapment, injuries, tumors, and pain and how to avoid complications preoperatively, intraoperatively and postoperatively.
- Identify various complications in spine surgery, how to avoid or treat spine complications and how best to communicate about them.
- Identify updates on current topics in general neurosurgery including opiates in back pain and traumatic brain injury/concussion.
- Identify the contemporary management, surgical techniques and post-operative treatment of intracranial lesions.
- Discuss and review the use of neuromodulation for pain and movement disorders, patient evaluation and update on surgical techniques.
- Review and discuss the best medical practices for arteriovenous malformation and traumatic vascular injuries.
- Apply processes involved in clinical decision making for cases that demonstrate controversies, the application of new and emerging technology, and complication management.
- At the completion of this course, the Advanced Practice Provider understand basic and advanced neurosurgical principals as well as gain an understanding of current best neurosurgical practices through case reviews and recent clinical study updates.

Accreditation Statement & Designation Statements: This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the 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 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure Statement: Before the program, anyone in control of the educational content of this activity will disclose the existence of any financial interest and/or the relationship they or their significant other have with the manufacturer(s) of any commercial product(s) to be discussed during their presentation. Disclosures will be included in the final program.

Sunday, February 26, 2017

7:00 - 9:30am **Emerging Treatments**

Moderator: William Tobler, MD

Dural Adhesions: From Fat Grafts, to Biologics, Are We Overlooking an Important Treatment?
William Tobler, MD

Minimally Invasive Treatments for Lumbar Degenerative Disease
Mohamad Bydon, MD

Human Stem Cell Transplantation for Spinal Cord Injury
Richard Fessler, MD, PhD

Do Motion Retention Devices Retain Motion?
Edmund Frank, MD

Are Posterior Column Osteotomies Really Necessary for Sagittal Balance in the Management of Primary Adult Spinal Deformity?
Neel Anand, MD

Human Cord Blood Stem Cell Based Intervertebral Disc Regeneration
Mick Perez-Cruet, MD, MS

Minimally Invasive Sagittal Balance Restoration
Leon Abram, MD

4:00 - 6:30pm **Controversies in Spine Surgery**

Moderator: H. Gordon Deen, MD

Lumbar Fusion: Indications & Controversies
H. Gordon Deen, MD

Bad Ideas in Spine Surgery
R. Douglas Orr, MD

Management of Cervical Kyphotic Deformity: Surgical Planning and Technical Notes
Sergey Neckrysh, MD

Surgical Management of Intramedullary Spinal Cord Tumors
Nikolay Kononov, MD, PhD

Effectiveness of Fusion for Grade 1 Spondylolisthesis: A QOD Analysis
Eric Potts, MD

Is The Expert Witness Necessarily an Expert?
Bharat Guthikonda, MD

ICD10 CM & PCS and Physician Performance Profiles
Clarence Watridge, MD

Monday, February 27, 2017

7:00 - 9:30am **Peripheral Nerve Surgery: Interesting Cases**

Moderator: Manish Sharma, MBBS

Peripheral Nerve Injuries
Eric Zager, MD

Peripheral Nerve Tumors
Line Jacques, MD

Peripheral Nerve Radiology
Amgad Hanna, MD

Peripheral Nerves and Pain Management
Shaun O'Leary, MD, PhD

Peripheral Nerve Entrapment
Manish Sharma, MBBS

7:00 - 9:30am **Concurrent Session: Advanced Practice Provider**

Moderator: Jody Miniard, CNP, CNRN

Shooting at the Right Target: Hip, Low Back, or SI Joint Pain?
Marc Orlando, MD

SI Joint Fusion
William Tobler, MD

Post-op Considerations
Jody Miniard, CNP, CNRN

Acute Spine Disorders, Fractures and Trauma
Erin Kennedy, CNP

Difficult CSF Leak Repairs
H. Gordon Deen, MD

Spinal AVMs
Rabih Tawk, MD

4:00 - 6:30pm **Complications in Spine Deformity Surgery**

Moderator: Robert Bohinski, MD, PhD

Rod Failure in Deformity Surgery
Robert Bohinski, MD, PhD

Proximal Junctional Kyphosis
Frank La Marca, MD

Complications of LumboPelvic Fixation and L5-S1 Fusion
Tyler Koski, MD

Complications, Limitations, and the use of Radiation
Larry Khoo, MD

Image Guidance and Biologics for Deformity Surgery
Saad Khairi, MD

Cortical Bone Trajectory Pedicle Screw Complications
Jeffrey Mullin, MD

Tuesday, February 28, 2017

7:00 - 9:30am **Opiates, Back Pain & General Neurosurgery**

Moderator: Rob Parrish, MD, PhD

Opiate Laws & Requirements and Impact on Practice
Marc Orlando, MD

Overview of Non-Opiate Options for Back Pain Control
Shaun Keegan, PharmD, BCPS

Strategies for Patients Dealing with Addiction
Craig Cleveland, MD

Criminal Intent: Looking Inside the Brains
of Psychopaths and Serial Killers
Allan Hamilton, MD

Optimizing Surgical Videos
Rob Parrish, MD, PhD

The Cost of Brain Surgery:
Awake vs Asleep Surgery in Eloquent Brain Areas
Alfredo Quiñones-Hinojosa, MD

Gamma Knife Pearls and Tricks
to Make Your Life Easier
Glen Stevens, DO, PhD

4:00 - 6:30pm **Ordinary & Extraordinary Intracranial Lesions**

Moderator: Norberto Andaluz, MD

Juvenile Nasopharyngeal Angiofibromas:
Pathophysiology and Management
Amjad Anaizi, MD

Multimodality Treatment for Schwannomas
Philip Theodosopoulos, MD

Proton Beam Therapy for Skull Base Tumors:
The Future is Now
George Bovis, MD and Patrick Sweeny, MD

Hemangioblastomas
Russell Lonser, MD

The Management of Pituitary Tumors:
Surgical and Medical Perspectives and Pearls
Ronald Reimer, MD

Transorbital Approaches to the Anterior Cranial Base
Norberto Andaluz, MD

Multiportal and Multimodal Approach for
Complex Skull Base Lesions
Sebastien Froelich, MD

6:30 - 8:30pm **Reception**

Wednesday, March 1, 2017

7:00 - 9:30am **TBI/Concussion & General Neurosurgery**

Moderator: Troy Payner, MD

Clinical Trajectory and Active Treatment Approach to Concussion
Micky Collins, PhD

Concussion in the Real World
William Knight, IV, MD

Vasospasm in TBI
Erin McDonough, MD

Outcomes after Severe TBI: A 30 Year Follow-up
Molly Hubbard, MD

Prepontine Shunt for Pseudotumor Cerebri
Albert Lee, MD

ICH in the Elderly
Thomas Gianaris, MD

4:00 - 6:30pm **Functional Neurosurgery**

Moderator: George Mandybur, MD

Laser Brain Surgery, New Techniques
George Mandybur, MD

Role of the Basal Ganglia in Cognitive Processing
Joseph Neimat, MD

Presumptive Pain Physiology / Therapy Selection
Claudio Feler, MD

Pathophysiology of Trigeminal Neuralgia and
Mechanism Directed Therapy
Andrew Grande, MD & Chad Morgan, MD

Stereotactic Electroencephalography (SEEG)
Jeffrey Mullin, MD

4:00 – 6:30pm **Concurrent Session: Advanced Practice Provider**

Moderator: Christina Smith, MSN, ARNP

Neuroanatomy and Localization
Jennifer Kosty, MD

Neuroimaging Review
David Miller, MD

Brain Tumor Update
Kari Andersen, PA-C

Intractable ICP and Multimodal Monitoring
Sarah Peacock, MSN, ARNP

Ischemic Stroke Update
Christina Smith, MSN, ARNP

Reversal of Oral Anticoagulants
Shaun Keegan, PharmD, BCPS

Thursday, March 2, 2017

7:00 - 9:30am **AVMs**

Moderator: Andrew Ringer, MD

Review of ARUBA Trial
Ricardo Hanel, MD

Surgical Selection & Technique
Michael Lawton, MD

Arteriovenous Malformation:
When and Why to Embolize
Andrew Ringer, MD

Radiosurgery for Cerebral AVMs
Rabih Tawk, MD

Overview of TOBAS Trial
Chiraz Chaalala, MD

Are Arteriovenous Malformations
More Common in Asian Population?
Ramon Navarro, MD

4:00 - 6:30pm **CPC – “Stump the Chump”
Theme: Hard to Manage Complications**

Moderator: William Knight, IV, MD

Faculty:

H. Gordon Deen, MD

Joung Lee, MD

George Mandybur, MD

Rob Parrish, MD, PhD

Troy Payner, MD

Residents:

Chris Carroll, MD

Sanjeet Grewal, MD

Louis Ross, MD

Shaun Vuong, MD

Ian White, MD



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 Westin Snowmass is a full-service, ski-in, ski-out hotel featuring fully renovated guest rooms including the Heavenly Bed & Bath®, along with a luxurious renovated lobby, lounge and public spaces, two new restaurants, a new Westin Spa, slope-side pool, hot tub & sun deck, as Westin WORKOUT™ fitness center, and private ski valet.



Wildwood Snowmass offers a completely different experience with a retro-chic design and energetic vibe. Guests will enjoy fully renovated rooms where style meets function, featuring hip art, functional space, radical design and colorful decor.

When you register for the conference, remember to make lodging reservations as well. The Westin Snowmass and Wildwood Snowmass hotels are holding a limited number of rooms at a discounted price until **January 25, 2017**.

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



Registration deadline: February 10, 2017

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

Tuition

Full Program	Feb. 26-March 2	\$1300
Spinal Program Only	Feb. 26-28	\$1100
Cranial Program Only	Feb. 28-March 2	\$1100
Residents/Fellows Nurse Practitioners Physician Assistants	Feb. 26-March 2	\$600



Exhibitors

- Aesculap
- Cerapedics
- Haag-Streit USA
- K2M
- KLS Martin
- MicroVention
- NuVasive
- Pfizer
- Spine Wave



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* as of November 30, 2016

Mayfield Clinic Brain & Spine
3825 Edwards Road · Suite 300
Cincinnati, Ohio 45209

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Westin Snowmass, Snowmass Village, Colorado

Faculty

Burdenko Neurosurgical Institute, Moscow

Nikolay Kononov, MD, PhD

Cedars Sinai Medical Center

Neel Anand, MD

Cheyenne Regional Medical Center

Claudio Feler, MD

Cleveland Clinic

Jeffrey Mullin, MD
Ramon Navarro, MD
Louis Ross, MD
Glen Stevens, DO, PhD
R. Douglas Orr, MD

Danville Orthopedic Spine Center

Leon Abram, MD

Georgetown University

Amjad Anaizi, MD

Indiana University/Goodman Campbell Brain and Spine

Thomas Gianaris, MD
Saad Khairi, MD
Albert Lee, MD
Troy Payner, MD
Eric Potts, MD
Ian White, MD

Internal Medicine

Craig Cleveland, MD

Lariboisière Hospital, Paris

Sebastien Froelich, MD

Louisiana State University

Bharat Guthikonda, MD

Lyerly Neurosurgery

Ricardo Hanel, MD

Mayo Clinic

Kari Andersen, PA-C
Mohamad Bydon, MD
H. Gordon Deen, MD
Sanjeet Grewal, MD
David Miller, MD
Sarah Peacock, MSN, ARNP
Alfredo Quiñones-Hinojosa, MD
Ronald Reimer, MD
Christina Smith, MSN, ARNP
Rabih Tawk, MD
Clarence Watridge, MD

Mayo Clinic Health System

Manish Sharma, MBBS

Methodist Neurological Institute

Rob Parrish, MD, PhD, FAANS

Michigan Head & Spine Institute

Mick Perez-Cruet, MD, MS

Northwestern University

Tyler Koski, MD

Ohio State University

Russell Lonser, MD

Oregon Health & Science University

Edmund Frank, MD

Radiation Oncology Consultants

Patrick Sweeney, MD

Rush University Medical Center

Richard Fessler, MD, PhD

Rush University/Advocate Lutheran General Neurosurgery

George Bovis, MD

Rush University/Northwest Community Healthcare

Shaun O'Leary, MD, PhD, FAANS

The Hycy and Howard Hill Neuroscience Institute, Providence St. Joseph Medical Center

Joung Lee, MD

The Spine Clinic of Los Angeles

Larry Khoo, MD

University of Arizona

Allan Hamilton, MD

University of California, San Francisco

Line Jacques, MD
Michael Lawton, MD
Philip Theodosopoulos, MD

University of Cincinnati/Mayfield Clinic

Norberto Andaluz, MD
Robert Bohinski, MD, PhD
Christopher Carroll, MD
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Erin McDonough, MD
Jody Miniard, CNP, CNRN
Marc Orlando, MD
Andrew Ringer, MD
William Tobler, MD
Shaun Vuong, MD

University of Illinois at Chicago

Sergey Neckrysh, MD

University of Louisville

Joseph Neimat, MD

University of Michigan

Frank La Marca, MD

University of Minnesota

Andrew Grande, MD
Molly Hubbard, MD

University of Missouri/Springfield Neurological and Spine Institute

Chad Morgan, MD

University of Montréal

Chiraz Chaalala, MD

University of Pennsylvania

Eric Zager, MD

University of Pittsburgh

Micky Collins, PhD

University of Wisconsin

Amgad Hanna, MD