

The Winter Clinics FOR CRANIAL & SPINAL SURGERY

Sunday, February 21 - Thursday, February 25, 2016

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:

- Identify management, techniques and post-operative treatment in deformity spine surgery, how to avoid or treat complications and how best to communicate about them.
- Explain and review new techniques and controversies as demonstrated in various case studies, and apply that information to future clinical decision-making processes.
- Discuss emerging technologies as well as treatment paradigms for various spinal diseases and disorders.
- Describe potential complications of peripheral nerve disorders, entrapment, injuries, tumors, and pain and how to avoid complications preoperatively, intraoperatively and postoperatively.
- Identify updates on current topics in general neurosurgery.
- A review of historical perspectives in neurosurgery.
- 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 intracerebral hemorrhage and intraventricular hemorrhage.
- 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 21, 2016

7:00 - 9:30am **Deformity Moderator: Robert Bohinski, MD, PhD**

Morphometric Analysis of Spinal Deformity Robert Bohinski, MD, PhD

Adult Degenerative Scoliosis: When to Operate & How Much to Do *Frank La Marca, MD*

Sagittal Balance Correction Tyler Koski, MD

Surgical Management of Cervical Kyphotic Deformity Sergey Neckrysh, MD

Influence of Lordotic and Hyperlordotic Lateral Cages on the Actual Lordosis Achieved at Each Segmental Level Neel Anand, MD

Hyperlordotic Cages and Anterior Release for Minimally Invasive Deformity Treatment Larry Khoo, MD

Minimally Invasive Treatment of Degenerative Dextroscoliosis in the Elderly Mick Perez-Cruet, MD, MS

4:00 - 6:30pm Controversies in Spine Surgery Moderator: R. Douglas Orr, MD

Updates in Minimally Invasive SI Joint Fusion Clinical Evidence Brad Duhon, MD

Motion Reservation Frenzy: A Cautionary Tale R. Douglas Orr, MD

Quality Measurement in Neurosurgery 2016 H. Gordon Deen, Jr., MD

Preliminary Results of Using an Injectable Nuclear Replacement Ed Frank, MD

Co-Morbidities Associated with Chiari Malformation Rob Parrish, MD, PhD

Discussion

6:30 - 8:00pm Welcome Reception

Monday, February 22, 2016

7:00 - 9:30am Emerging Treatments in Spine Surgery Moderator: William Tobler, MD

Interval Update on New Technologies William Tobler, MD

A New Protocol for Intra-operative Wound Care to Reduce Wound Infections in Open Posterior Spinal Surgery Jean-Pierre Mobasser, MD

Laser Interstitial Thermotherapy for Management of Spine Tumors Claudio Tatsui, MD

Analyse du Mouvement Vertébral Chad Morgan, MD

Fetal Myelomeningocele Repair Andrew Foy, MD

Minimally Invasive Surgery in the Osteoporotic Patient *Leon Abram, MD*

4:00 - 6:30pm Peripheral Nerve Surgery — Potpourri Moderator: Robert Spinner, MD

Controversies in PN Entrapments *Eric Zager, MD*

Thoracic Outlet Syndrome *Line Jacques, MD*

The Lateral Femoral Cutaneous Nerve: Why is it So Hard to Find?

Amgad Hanna, MD

The Role of Nerve Biopsy Stepan Capek, MD

Nerve Tumors: Imaging is the Key *Marie-Noëlle Hébert-Blouin, MD*

Update on Brachial Plexus Reconstruction Andrés Maldonado, MD, PhD

Tuesday, February 23, 2016

7:00 - 9:30am **General Neurosurgery** (Spinal Trauma, Tumors)

Moderator: H. Gordon Deen, Jr., MD

TBI in the Field, Special Operations Forces Maj Ryan Knight, MD, US Army

Military Neurosurgery Experience in Support of the Afghanistan War Christopher Koebbe, MD

What's New in High Grade Glioma Treatment 2016 *Glen Stevens, DO, PhD*

Immunotherapy for Malignant Glioma *Mahua Dey, MD*

Low Grade Gliomas Betty Kim, MD, PhD

Management of Cavernous Sinus Meningiomas *Bjorn Lobo, MD*

The Effect of the Medical Review Panel Process on Neurosurgical Litigation Bharat Guthikonda, MD

4:00 - 6:30pm Historical Perspectives in Neurosurgery & Looking toward the Future Moderator: Troy Payner, MD

Soar into Five Score with A Healthy Body and Brain - You Can Have Both John Tew, Jr., MD

The Benefit of Coaching in the Ultimate Contact Sport: Neurosurgical Residency Training Harry van Loveren, MD

Changes in Residency Education: Self-study, Evaluating Outside Threats & Current Expectations Jeffrey Keller, PhD & Michelle Clarke, MD

Evolution of Spine Surgical Technique: What I've Learned *Richard Fessler, MD, PhD*

How Do We Find a Natural Evolution to a Neurosurgical Career? Or Resolving the End of a Lifetime as a Surgeon before Someone Else Does It for You Allan Hamilton, MD

7:00 - 10:00pm Special 25th Celebration at Elk Camp

Wednesday, February 24, 2016

Thursday, February 25, 2016

7:00 - 9:30am Ordinary & Extraordinary Intracranial Lesions

Moderator: Norberto Andaluz, MD

Nasal Neuroendoscopy: The Damage We Inflict or Not! *Lee Zimmer, MD, PhD*

Recurrent Craniopharyngiomas: Management Options Amjad Anaizi, MD

Extended Endonasal Skull Base Surgery: Lessons Learned over 12 Years Theodore H. Schwartz MD, FACS

When the First Time is Not Enough: Recurrent Acoustic Neuromas Philip Theodosopoulos, MD

Petroclival Meningiomas Treatment Strategy Sebastien Froelich, MD

A New Workhorse Approach in Skull Base Surgery? Norberto Andaluz, MD

4:00 - 6:30pm Functional Neurosurgery Moderator: George Mandybur, MD

Update on Trigeminal Neuralgia: Diagnostic Dilemmas George Bovis, MD

Foramen Ovale Observations to the Practical Aspects of Performing a PSR Andrew Grande, MD & Jeffrey Keller, PhD

Hearing Rehabilitation in the Profoundly Deaf *Michael Link, MD*

The New Frontier: Upcoming Indications for DBS *George Mandybur, MD*

Seizures and TBI - Prevention, Diagnosis and Treatment *William Knight, IV, MD*

Pain Management: What to Do when Conventional Surgery Fails Claudio Feler, MD

7:00 - 9:30am Intracerebral Hemorrhage Moderator: Mario Zuccarello, MD

Current Management of IVH Issam Awad, MD

Cerebral Aneurysms Presenting with ICH Fady Charbel, MD

MISTIE III: An Update Mario Zuccarello, MD

Reversal of Direct Acting Oral Anticoagulants Shaun Keegan, PharmD, BCPS

Management of Vertebrobasilar Disease post Veritas Ziad Hage, MD

Concurrent Session: Advanced Practice Provider Moderator: Christy Smith, MSN, ARNP

Neuroanatomy and Localization William Clifton, MD

Intro to Neuroimaging or Advanced Neuroimaging David Miller. MD

Critical Care Management of SAH Christy Smith, MSN, ARNP

Spine Case Studies H. Gordon Deen, Jr., MD

4:00 - 6:30pm **CPC - "Stump the Chump" - 4 Cases Moderator: William Knight, IV, MD**

Faculty: H. Gordon Deen, Jr., MD Joung Lee, MD George Mandybur, MD Rob Parrish, MD Troy Payner, MD Residents: William Clifton, MD Steve Gogela, MD Yair Gozal, MD, PhD Jeff Mullin, MD Kashif Shaikh, MD

Concurrent Session: Advanced Practice Provider Moderator: Christy Smith, MSN, ARNP

Neurovascular Surgery Updates & Case Studies *Rabih Tawk, MD*

Cranial Surgery Updates & Case Studies *Belinda Bradley, ARNP*

The Basics of EEG Interpretation Christy Smith, MSN, ARNP

Pain Management Updates Shaun Keegan, PharmD, BCPS





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 WORKOUTTM fitness center, and private ski valet.



The Holiday Inn Express (formerly 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 Holiday Inn Express (formerly Wildwood Snowmass) hotels are holding a limited number of rooms at a discounted price until **January 20, 2016**.

To make reservations:

Westin Snowmass (800) 525-9402

Holiday Inn Express (formerly Wildwood Snowmass) (970) 923-8400

Reservations will be accepted based on availability.



Registration deadline: February 5, 2016

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

Tuition Full Program	Feb. 21-25	\$1300
Spinal Program Only	Feb. 21-23	\$1100
Cranial Program Only	Feb. 23-25	\$1100
Residents/Fellows Nurse Practitioners	Feb. 21-25	\$600



Exhibitors

Aesculap Integra K2M Medtronic NuVasive Pfizer RTI Surgical SeaSpine

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Physician Assistants

Spine Wave
* as of November 30, 2015

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Sunday, February 21 - Thursday, February 25, 2016 Westin Snowmass, Snowmass Village, Colorado

Faculty

Cedars Sinai Medical Center Neel Anand, MD

Center of Brain and Spine Surgery George Bovis, MD

Cheyenne Regional Medical Center Claudio Feler, MD

Cleveland Clinic

Glen Stevens, DO, PhD R. Douglas Orr, MD Jeff Mullin, MD

Cornell University Theodore Schwartz, MD

Danville Orthopedic Spine Center

Leon Abram, MD

Florida Spine Institute Christopher Koebbe, MD

Georgetown University Amjad Anaizi, MD

Indiana University/Goodman Campbell Brain and Spine

Mahua Dey, MD Jean-Pierre Mobasser, MD Troy Payner, MD Kashif Shaikh, MD

Lariboisière Hospital, Paris Sebastien Froelich, MD Louisiana State University

Bharat Guthikonda, MD

Mayo Clinic

Belinda Bradley, ARNP Stepan Capek, MD Michelle Clarke, MD William Clifton, MD H. Gordon Deen, Jr., MD Betty Kim, MD, PhD Michael Link, MD Andrés Maldonado, MD, PhD David Miller, MD Christy Smith, MSN, ARNP Robert Spinner, MD Rabih Tawk, MD

McGill University

Marie-Noëlle Hébert-Blouin, MD

MD Anderson Cancer Center Claudio Tatsui, MD

Medical College of Wisconsin Andrew Foy, MD

Methodist Neurological Institute Rob Parrish, MD, PhD, FAANS

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

Neurosurgical and Spine Specialists Brad Duhon, MD

Northwestern University Tyler Koski, MD

Oregon Health & Science University Edmund Frank, MD

Pacific Brain Tumor Center Biorn Lobo, MD

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Rush University Medical Center Richard Fessler, MD, PhD

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 Philip Theodosopoulos, MD

University of Chicago Issam Awad, MD

University of Cincinnati/Mayfield Clinic

Norberto Andaluz, MD
Robert Bohinski, MD, PhD
Steve Gogela, MD
Yair Gozal, MD, PhD
Shaun Keegan, PharmD, BCPS
Jeffrey Keller, PhD
William Knight, IV, MD
George Mandybur, MD
John Tew, Jr., MD
William Tobler, MD
Lee Zimmer, MD, PhD
Mario Zuccarello, MD

University of Illinois at Chicago

Fady Charbel, MD Ziad Hage, MD Sergey Neckrysh, MD

University of Michigan Frank La Marca, MD

University of Minnesota Andrew Grande, MD

University of Missouri/Springfield Neurological and Spine Institute Chad Morgan, MD

University of Pennsylvania Eric Zager, MD

University of South Florida Harry van Loveren, MD

University of Wisconsin Amgad Hanna, MD

Womack Army Medical Center at Fort Bragg

Maj Ryan Knight, MD