



American
Association of
Neurological
Surgeons

Jointly Provided by the AANS

2023

The Winter Clinics FOR CRANIAL & SPINAL SURGERY

Sunday, February 26 - Thursday, March 2, 2023

Viewline Snowmass, Snowmass Village, Colorado

Be part of the nation's most exciting and collaborative meeting for neurosurgeons, orthopaedic spine surgeons, and advanced practice providers, located at the beautiful Viewline Snowmass in Snowmass Village, Colorado.

The Winter Clinics

FOR CRANIAL & SPINAL SURGERY

Sunday, February 26, 2023

7:00 - 9:30am
Emerging Treatments & General Spine
Moderator: William Tobler, MD

Cauda Equina Syndrome: What's the Rush?
William Tobler, MD

Toward a More Perfect Allograft:
Bioactive Hydrogels and the State of the Art
Joseph Herbert, MD

Restorative Neurosurgery and the Cash Only
Practice Model
Marcella Madera, MD

Case for Stand-alone Lateral Lumbar Interbody
Fusion
Alp Ozpinar, MD

Michigan Spine Surgery Improvement Collaborative
(MSSIC): Improving Spine Care through Critical
Analysis of Clinical Spine Care Practice
Mick Perez-Cruet, MD, MS

Data Analytics in Healthcare:
Streamlined Data for Actionable Insights
Mitch Better

4:00 - 6:30pm Spine Surgery Complications
Moderator: Bryan Krueger, MD

SI Fusion in Setting of Thoraco-Lumbar Fusion
Maria Jose Cavagnaro, MD

Cement Augmented Spinal Fixation
to Reduce Risk of Hardware Failure
Bryan Krueger, MD

7-year Progression and 10-year Prediction of
Adjacent-Level Degeneration and Disease after
Lumbar Total Disc Replacement
Ernest E. Braxton, Jr., MD, MBA

Decompression Alone in
Adult Degenerative Scoliosis
Richard G. Fessler, MD, PhD

The Influence of Facet Morphology on
Indirect Reduction and Spinal Canal Volume
with Lateral Interbody Fusion
Neel Anand, MD

Stump the Chump Session #1
Joseph Herbert, MD | Michael Kachmann, MD

6:30-8:00pm Welcome Reception

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, including peripheral nerve disorders.
- Identify various complications in spine surgery, how to avoid or treat spine complications and how best to communicate about them.
- Identify management, techniques and post-operative treatment in deformity spine surgery.
- Explain and review new techniques and controversies as demonstrated in various cranial case studies, and apply that information to future clinical decision-making processes.
- Review and discuss general spine topics as it relates to the business of spine surgery and related areas such as physical medicine & rehabilitation, physical therapy and wellness service lines.
- Review and discuss advancements in neurovascular care.
- Discuss and review the use of neuromodulation for pain and movement disorders, patient evaluation and update on surgical techniques.
- Identify the contemporary management, surgical techniques and post-operative treatment of brain tumor management.
- Apply processes involved in clinical decision making for cases that demonstrate controversies, the application of new and emerging technology, and complication management.
- The Advanced Practice Provider will recognize basic and advanced neurosurgical principles 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 have with the manufacturer(s) of any commercial product(s) to be discussed during their presentation. Disclosures will be included in the final program.

Monday, February 27, 2023

7:00 - 9:30am Complex Spine Surgery Moderator: Doug Orr, MD

Outcomes of Pedicle Screw Fixation in Osteoporosis
Larry Khoo, MD

T10-Pelvis Epidemic: Not Every Curve Needs Operation
Jason Savage, MD

Deformity Correction in Adolescent Idiopathic Scoliosis
Michael Albert, MD

Lessons in the Management of Charcot Arthropathy
Doug Orr, MD

PJK and DJK: Are We Making progress?
Tyler Koski, MD

7:00 - 9:30am Concurrent: Advanced Practice Provider Moderator: Jody Beckington, DNP, ACNP-BC

Clinical Masqueraders of Spine Pathology
Zachary Plummer, MD

Clinical Pearls & Exam of Low Back/SI & Lower Extremity
Marc Orlando, MD

Spinal Cord Stimulator Review | *Shawn Vuong, MD*

Spine Trauma | *Jody Beckington, DNP, ACNP-BC*

The Role of Steroids in Spinal Cord Injury
Alexandra M. Laskey, PA-C

4:00 - 6:30pm Spine Surgery Controversies Moderator: Michael Kachmann, MD

Fusions for Low Back Pain without Instability
Pierce D. Nunley, MD

Image Guidance and Robotics in Spinal Surgery
Michael Kachmann, MD

Benefits of Skipping C7 Instrumentation
Sergey Neckrysh, MD

Comparison of Multilevel ACDF & Hybrid Arthroplasty
Constructs to Traditional Cage/Plate Constructs
Chris Koebbe, MD

CDA vs. ACDF in Tactical Athletes
Christopher Carroll, MD

Complications with Motion Sparing Intradiscal Devices
Edmund Frank, MD

Tuesday, February 28, 2023

7:00 - 9:30am General Spine Moderator: Michael Steinmetz, MD

The Spectrum of Care for Piriformis Syndrome
Line Jacques, MD, MSC

Driving Functional Recovery from Spinal Cord Injury
through Cortical Reorganization
Rupert Smit, MD

Allograft Nerve Repair Following Nerve Sheath Tumor
Resection
Eric Zager, MD

New Treatment Modalities for Spinal Metastasis
Claudio E. Tatsui, MD

Gamma Knife for Tumors
Glen Stevens, DO

Research Presentations

4:00 - 6:30pm Neurovascular Advancements Moderator: Rabih Tawk, MD

Advances in ICH Care
Jonathan Ratcliff, MD

Cerebral Revascularization: Past, Present and Future
Rabih Tawk, MD

Cerebral Aneurysm Induced Optic Neuropathy and
Oculomotor Palsy: Update on Treatment Options in the
Endovascular Era
Aaron Wessell, MD

Management of Pediatric Brain Aneurysms
Michael Robinson, MD

Middle Meningeal Artery Embolization for Subdural
Hematomas: Current Understanding and Future Prospects
Zachary Barnard, MD

Stump the Chump Session #2

Akshay Sharma, MD | Rabih Tawk, MD

Wednesday, March 1, 2023

7:00 - 9:30am General Cranial Surgery Moderator: William Knight, IV, MD

Oncology & Spinal Neurosurgeons Performing Resections of Intramedullary Ependymomas vs. Single Neurosurgeons
Philip Theodosopoulos, MD

Transport of the Neurologically Injured | *William Knight, IV, MD*

VOMS in Concussion Diagnosis | *Micky Collins, PhD*

Diagnosis & Mgmt. of Intracranial Calcified Pseudoneoplasms
George Bovis, MD

Intracranial B Waves as Drivers of Glymphatic Flow
David W. Newell, MD

The Brain & the Arrow of Time | *Allan Hamilton, MD, FACS, FAANS*

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

Update on Electronic Socks and SCS Data Project
George Mandybur, MD

DBS for Drug Addiction | *Kendall Lee, MD*

MRI Guided Focused US: Lessons Learned from First 200 Cases
Sepehr Sani, MD

Epidural Spinal Cord Stimulation for Spinal Cord Injury
Uzma Samadani, MD, PhD

New Strategies for Circuit-Based Stimulation in Epilepsy
Kai Miller, MD

Stump the Chump Session #3
Troy Payner, MD | Kristen Scheitler, MD

4:00 - 6:30pm Concurrent: Advanced Practice Provider Moderator: Laura McLaughlin, DNP-ACNP

The Eye Exam in Neurosurgical Patients
Laura McLaughlin, DNP-ACNP

Intracranial Pressure: Diagnosis and Treatment
Megan Vaughan, PA

Perioperative Care of SAH Pts. | *Michael Robinson, MD, PhD*

Tumor Update: Updated Definitions & Treatment Strategies
Jonathan Scoville, MD

Overview of Neuroradiology | *Kacie Brewer, PA-C*

The Imaging of Headaches | *David Miller, MD*

6:30 - 8:00pm Private Event for Residents

The Judah Folkman Memorial Lecture:
How to Survive and Thrive in Neurosurgery Residency
Allan Hamilton, MD

Thursday, March 2, 2023

7:00 - 9:30am Brain Tumor Management Moderator: Vincent DiNapoli, MD, PhD

Case Review
Vincent DiNapoli, MD, PhD

Expanded Endoscopic Transphenoidal Surgery: Developing Confidence with Tumor Resection and Reconstruction
Bharat Guthikonda, MD

Parameters for Access to the Petroclival Region
Norberto Andaluz, MD

Giant Pituitary Adenomas: Management Strategies
Amjad Anaizi, MD

Training the Most Unique Generation of the Century: Diving into the Mind of Gen Z
William Clifton III, MD

4:00 - 6:30pm General Cranial Surgery Moderator: Troy Payner, MD

Don't Miss These Head & Neck "Edge of the Film" Findings
Peter Kalina, MD, MBA, FACR

The Importance of Dedicated Skull Base Imaging
Suresh K. Mukherji, MD, MBA, FACR

Controversies in the Modern Surgical Management of Trigeminal Neuralgia
Varun Kshetry, MD

Surgical Treatment of Hemifacial Spasm: Technique and Long-term Results
Michael Link, MD

Stump the Chump Session #4
Michael Link, MD | Jonathan Scoville, 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.

Viewline Snowmass, part of the Marriott Autograph Collection (formerly Westin Snowmass), is a full-service, ski-in, ski-out hotel featuring stunning interior and exterior spaces and breathtaking mountain views. Guest rooms blend outdoor ruggedness with modern luxury.



Wildwood Snowmass offers a completely different experience with a fun and high energy vibe. Guests will enjoy renovated rooms designed for relaxing, socializing and making new friends in an atmosphere that's funky and fun.

When you register for the conference, remember to make lodging reservations as well. The Viewline Snowmass and Wildwood Snowmass hotels are holding a limited number of rooms at a discounted price until **January 25, 2023**.

To make reservations at the Viewline or the Wildwood, call the Group Reservations Number at (970) 742-0005. Reservations will be accepted based on availability.



Registration deadline: February 10, 2023

For more detailed information and to register, [visit winterclinics.com](http://www.winterclinics.com)

Tuition

Full Program	Feb. 26-March 2	\$1399
Spinal Program Only	Feb. 26-28	\$1199
Cranial Program Only	Feb. 28-March 2	\$1199
Residents/Fellows Nurse Practitioners Physician Assistants	Feb. 26-March 2	\$ 650



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Faculty

Amita Health

George Bovis, MD

Austin Integrative Spine

Marcella Madera, MD

Ascension St. Vincent's Riverside Spine & Brain Institute

Laura McLauchlin, DNP-ACNP

Cedars-Sinai Medical Center

Neel Anand, MD

Cleveland Clinic

William Clifton, III, MD
Varun Kshetry, MD
R. Douglas Orr, MD
Jason Savage, MD
Akshay Sharma, MD
Michael Steinmetz, MD
Glen Stevens, DO, PhD, FAAN

Dayton Children's Orthopaedic Center

Michael Albert, MD

Emory University

Jonathan Ratcliff, MD

Georgetown University

Amjad Anaizi, MD

Goodman Campbell Brain and Spine

Troy Payner, MD

House Clinic

Zachary Barnard, MD

Johns Hopkins Medicine

Alexandra Laskey, PA-C

Lee Health

George Mandybur, MD

Louisiana State University

Bharat Guthikonda, MD

Lyerly Neurosurgery

Michael Robinson, MD, PhD

Mayfield Clinic

Jody Beckington, DNP, ACNP-BC
Mitch Better
Vincent DiNapoli, MD, PhD
Michael Kachmann, MD
Bryan Krueger, MD
Marc Orlando, MD
Zachary Plummer, MD
William Tobler, MD

Mayo Clinic

Kacie Brewer, PA-C
Peter Kalina, MD
Kendall Lee, MD, PhD
Michael Link, MD
David Miller, MD
Kai Miller, MD, PhD
Kristen Scheitler, MD
Rabih Tawk, MD

MD Anderson Cancer Center

Claudio Tatsui, MD

Michigan Head & Spine Institute

Mick Perez-Cruet, MD, MS

Northwestern University

Tyler Koski, MD

Oregon Health & Science University/Centre de la Douleur

Edmund Frank, MD

Oregon Neurosurgery

Alp Özpınar, MD

Premier Neurospine Institute

Chris Koebbe, MD

ProScan Imaging

Suresh Mukherji, MD, MBA, FACR

Rush University

Richard Fessler, MD, PhD
Sepehr Sani, MD

Sanford Neurosurgery and Spine Clinic

Shawn Vuong, MD

Seattle Neuroscience Institute

David Newell, MD

Sentara Neurosurgery Specialists

Aaron Wessell, MD

The Spine Clinic of Los Angeles

Larry Khoo, MD

Spine Institute of Louisiana

Pierce Nunley, MD

Temple University

Rupert Smit, MD

Uniformed Services University

Christopher Carroll, MD

University of Arizona

Allan Hamilton, MD

University at Buffalo Neurosurgery

Maria Jose Cavagnaro, MD

University of California, San Francisco

Line Jacques, MD, MSc
Philip Theodosopoulos, MD

University of Cincinnati

Norberto Andaluz, MD
William Knight, IV, MD

University of Illinois Chicago

Sergey Neckrysh, MD

University of Minnesota

Uzma Samadani, MD, PhD

University of Missouri

Joseph Herbert, MD

University of Pennsylvania

Eric Zager, MD

University of Pittsburgh

Micky Collins, PhD

University of Utah

Jonathan Scoville, MD

Vail-Summit Orthopaedics & Neurosurgery

Ernest Braxton, Jr., MD, MBA