



**2025**

# **The Winter Clinics**

## **FOR CRANIAL & SPINAL SURGERY**

**Sunday, February 23 - Thursday, February 27, 2025**

**Viewline Snowmass, Snowmass Village, Colorado**

**Be part of the nation's most exciting and collaborative meeting for neurosurgeons, orthopedic 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 23, 2025

7:00 - 9:30am

**Emerging Treatments & General Spine**  
**Moderator: Bryan Krueger, MD**

Welcome & Opening Comments  
*William Tobler, MD*

Navigated OLIF: Technique and Indications  
*Bryan Krueger, MD*

Minimally Invasive Cervical Spine Fusion Strategies  
*Vincent Rossi, MD, MBA*

Epidural Spinal Cord Stimulation in Patients with Spinal Cord Injury  
*Uzma Samadani, MD, PhD*

Preliminary Research on SCS to Treat RLS  
*Marc Orlando, MD*

What Excites Me About the Future of MIS  
*Ernest Braxton, MD*

Epidemiology and Management of Spinal Gunshot Injuries  
*Martin Herman, MD, PhD*

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

The Management of Foot Drop in the Spine Patient  
*Zach Plummer, MD*

The Evolution of Lateral Surgery  
*Alex Thomas, MD*

Dysphagia After Cervical Spine Surgery  
*Vincent Alentado, MD*

Development and Evolution of the Minimally Invasive TLIF  
*Richard Fessler, MD, PhD*

Material Matters: PEEK vs. Titanium in Spine Surgery  
*Juan Mejia Munne, MD*

## Objectives

**Intended audience:** neurosurgeons, orthopedic 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 they relate to the business of spine surgery and other areas such as physical medicine & rehabilitation, physical therapy and wellness service lines.
- Review and discuss diagnosis and treatment of aneurysms.
- 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 CNS and the Mayfield Clinic. The CNS is accredited by the ACCME to provide continuing medical education for physicians.

The CNS 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.

## Monday, February 24, 2025

### 7:00 - 9:30am Complex Spine Surgery Moderator: Robert Bohinski, MD, PhD

Lateral Lumbar Interbody Fusion at the Thoracolumbar Junction  
*Robert Bohinski, MD, PhD*

Minimally Invasive Spinal Tumor Resection: How and When  
*Oluwaseun Akinduro, MD*

Does CMIS Ligamentotaxis Enabled Reduction without any Osteotomy in ASD Allow for Patient Specific Spinal Alignment and Lordosis Distribution?  
*Neel Anand, MD*

An Approach to Diagnosis and Treatment of Cervical Deformity  
*Doug Orr, MD*

Adult Spinal Deformity: Complete vs. Limited Correction  
*Jason Savage, MD*

When to Stop at L5 vs S1/Pelvis for Adult Deformity Surgery – MIS/Hybrid/Open  
*Pierce Nunley, MD*

### 4:00 - 6:30pm Spine Surgery Controversies Moderator: William Tobler, MD

Bertolotti Syndrome: What Every Neurosurgeon Should Know  
*Arthur L. Jenkins, III, MD*

Expansion of Indications for Cervical Arthroplasty  
*Hyun Bae, MD*

Robotic Assisted Spine Surgery: Gimmick or Here to Stay?  
*Alp Ozpinar, MD*

Imaging the Post Operative Spine - A Multi-Modality Review  
*Taylor Pomeranz, MD*

The Best Surgery for Cervical Radiculopathy: Are You Doing It?  
*George Bovis, MD*

Surgical Treatment of High-Grade Lumbosacral Spondylolisthesis in the Immature  
*Michael Albert, MD*

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

The Judah Folkman Memorial Lecture: On Mastery in Surgery  
*Allan Hamilton, MD*

## Tuesday, February 25, 2025

### 7:00 - 9:30am General Spine Moderator: Glen Stevens, DO, PhD, FAAN

New Imaging Techniques in Cervical Myelopathy  
*Zachary Smith, MD*

Cervicogenic Headaches & Treatment | *Mick Perez-Cruet, MD, MS*

Ablative Radiotherapy in Management of Spine Metastases  
*Joseph Shaughnessy, MD*

Interesting Peripheral Nerve Cases | *Eric Zager, MD*

Considerations in Pediatric Spine Trauma | *Swetha Sundar, MD*

Gadolinium-Based Contrast Agents | *Glen Stevens, DO, PhD, FAAN*

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

Alternative Pain Etiologies & Injections | *Donald Staggs, MD*

Postoperative Complications of Spinal Disorders  
*Jody Beckington, DNP, ACNP-BC*

Sagittal Imbalance | *Luke Mugge, MD*

Neurologic Disorders of the Spine | *Christina Vest, DNP, AGACNP-BC*

Endoscopic Spine Surgery | *Derek Morrow, PA*

Burst Fracture Fixation with Spine Jack | *Shawn Vuong, MD*

Compression Fracture Overview | *Emily Gunnells, PA-C*

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

Research Presentations

Thrombectomy for Medium Vessel Occlusions  
*Zachary Barnard, MD*

MMA Embolization for Chronic Subdural Hematoma  
*Hamad Farhat, MD*

Surgical Approaches for Vertebral Artery | *Fady Charbel, MD*

Innovation in Aneurysm Imaging & Risk Modeling using AI  
*Daniel Sahlein, MD*

Spinal Venous CSF Fistula | *Michael Robinson, MD, PhD*

Carotid Revascularization: The Line Between Open and Endovascular Techniques | *Rabih Tawk, MD*

### 6:30-8:00pm Reception



## Wednesday, February 26, 2025

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

Neurosurgery Training 2.0: AI-Guided Competence  
*Philip Theodosopoulos, MD*

Anatomy of Sideline Medicine - Emergency Preparedness  
*William Knight, IV, MD*

The Peculiar Natural Experiments Offered by Shipwrecks  
*Allan Hamilton, MD*

Ethics of Brain Death: Unsettling Realities Surrounding an Uncomfortable and Potentially Fictitious Diagnosis  
*Jordan Bonomo, MD*

ICH Update  
*Jonathan Ratcliff, MD*

### 4:00 - 6:30pm Functional Neurosurgery & General Cranial Moderator: George Mandybur, MD

Chaos in the Brain: How the Brain Really Functions  
*George Mandybur, MD*

Endovascular Management of Normal Pressure Hydrocephalus  
*Jonathan Scoville, MD*

GammaTile Brachytherapy for Newly Diagnosed Glioblastoma  
*Jay McCracken, MD*

A Living Ex Vivo Platform for Functional Drug Screening of Patient Brain Tumor Tissues  
*Andrew Satterlee, PhD*

Management of ICA Injury in Skull Base Tumor Surgery  
*Amjad Anaizi, MD*

A Project Report: Development of an Implantable Device for Continuous Intraventricular Drug Delivery  
*Daniel Galyon, MD*

### 4:00 - 6:30pm Concurrent: Advanced Practice Provider Moderator: Emily Hennessy, PA-C

Moya Moya Disease - Current State of Knowledge  
*Kristine Ravina, MD*

Chiari Mimickers  
*Lauren Ostling, MD*

Update on Carotid Revascularization  
*Mark Johnson, MD*

A Comprehensive Guide to Launching an Advanced Practice Provider Fellowship Program from Planning to Execution  
*Cristie Brewer, APP*

Hospital Pituitary Management  
*Chris Sanders Taylor, MD*

Venous Sinus Stenting for Increased Intracranial Pressure  
*Emily Hennessy, PA-C*

## Thursday, February 27, 2025

### 7:00am - 12:00pm Brain Tumor Management Moderators: Troy Payner, MD and Vincent DiNapoli, MD, PhD

Case Presentation  
*Vincent DiNapoli, MD, PhD*

Watch and Wait or Radiate? Current Approaches for Incidental, Residual, and Recurrent Meningiomas  
*Varun Kshetry, MD*

M&M Optimization Project  
*Kushal Shah, MD*

Drapeless Stereotactic Brain Biopsy  
*Troy Payner, MD*

Novel Autologous Immunotherapy Treatment (IGV-001) for Newly Diagnosed GBM  
*David Andrews, MD*

Brain Tumor Survivorship and Quality of Life  
*Soma Sengupta, MD, PhD, MBA*

Microvascular Free Tissue Reconstruction of the Skullbase  
*Norberto Andaluz, MD & Yash Patil, MD, MPH, FACS*

The Supraorbital Craniotomy and its Variations: Terminology and Practical Clinical Utility  
*Bharat Guthikonda, MD*

Advanced Imaging Techniques in Neuroradiology: Primer for the Skull Base Surgeon  
*Suresh Mukherji, MD, MBA*

Targeting Metabolism in Glioblastoma  
*Dominique Higgins, 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.

**Viewline Snowmass**, part of the Marriott Autograph Collection, 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 **February 1, 2025**.

To make reservations at the Viewline or the Wildwood, call Group Reservations at (970) 742-0005. You can reach Group Reservations from Monday-Saturday 8:30am-5pm MST. Email [Group.Reservations@ViewlineResortSnowmass.com](mailto:Group.Reservations@ViewlineResortSnowmass.com) with questions. Reservations will be accepted based on availability.



## Registration deadline: February 17, 2025

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

### Tuition

<b>Full Program</b>	February 23 - 27	\$1499
<b>Spinal Program Only</b>	February 23 - 25	\$1299
<b>Cranial Program Only</b>	February 25 - 27	\$1299
<b>Residents/Fellows Nurse Practitioners Physician Assistants</b>	February 23 - 27	\$ 750



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[facebook.com/WinterClinics](https://facebook.com/WinterClinics)

## Commercial Support

## Globus NuVasive

## Exhibitors

\* as of November 20, 2024

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- Johnson & Johnson Med Tech
- Spine Wave
- Joline
- Sutter Medical Technologies
- Terumo Neuro

**Mayfield Education & Research Foundation**  
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## Faculty

### **Advocate Atrium Healthcare**

Hamad Farhat, MD

### **Advocate Lutheran General Hospital**

George Bovis, MD

### **Atlantic Brain & Spine**

Alex Thomas, MD

### **Carilion Clinic**

Kristine Ravina, MD

### **Carolina Neurosurgery & Associates**

Vincent Rossi, MD, MBA

### **Cedars Sinai Medical Center**

Neel Anand, MD  
Hyun Bae, MD

### **Children's Hospital Colorado**

Swetha Sundar, MD

### **Cleveland Clinic**

Varun Kshetry, MD  
R. Douglas Orr, MD  
Jason Savage, MD  
Glen Stevens, DO, PhD, FAAN

### **Dayton Children's**

Michael Albert, MD

### **Emory University**

Jonathan Ratcliff, MD

### **Goodman Campbell**

Vincent Alentado, MD  
Troy Payner, MD  
Daniel Sahlein, MD  
Kushal Shah, MD

### **Georgetown University**

Amjad Anaizi, MD

### **Inova Neuroscience**

Luke Muge, MD  
Emily Gunnells, PA-C  
Cristie Brewer, APP

### **Jenkins NeuroSpine**

Arthur Jenkins, III, MD

### **Lee Health**

George Mandybur, MD

### **Louisiana State University**

Bharat Guthikonda, MD

### **Lurie Children's Hospital of Chicago**

Jonathan Scoville, MD

### **Mayfield Clinic**

Jody Beckington, DNP, ACNP-BC  
Robert Bohinski, MD, PhD  
Vincent DiNapoli, MD, PhD  
Michael Kachmann, MD  
Bryan Krueger, MD  
Juan Mejia Munne, MD  
Marc Orlando, MD  
Lauren Ostling, MD  
Zachary Plummer, MD  
Michael Robinson, MD, PhD  
Donald Staggs, MD  
William Tobler, MD

### **Mayo Clinic**

Oluwaseun Akinduro, MD  
Rabih Tawk, MD

### **Michigan Minimally Invasive Neurosurgical Institute**

Mick Perez-Cruet, MD, MS

### **Neurosurgery LA**

Zachary Barnard, MD

### **OhioHealth**

Christopher Sanders Taylor, MD

### **Oncology Hematology Care**

Joseph Shaughnessy, MD

### **Oregon Neurosurgery**

Alp Ozpinar, MD

### **Piedmont Atlanta**

Jay McCracken, MD

### **ProScan Imaging**

Suresh Mukherji, MD, MBA, FACR  
Taylor Pomeranz, MD

### **Riverhills Neuroscience**

Christina Vest, APRN-CP

### **Rush University**

Richard Fessler, MD, PhD

### **Sanford Neurosurgery and Spine Clinic**

Shawn Vuong, MD

### **Spine Institute of Louisiana**

Pierce Nunley, MD

### **Thomas Jefferson**

David Andrews, MD

### **UHS Binghamton**

Daniel Galyon, MD

### **University at Buffalo Neurosurgery**

Emily Hennessy, PA-C

### **University of Arizona**

Allan Hamilton, MD, FACS, FAANS

### **University of California, San Francisco**

Philip Theodosopoulos, MD

### **University of Chicago**

Martin Herman, MD, PhD

### **University of Cincinnati**

Norberto Andaluz, MD  
Jordan Bonomo, MD  
Mark Johnson, MD  
William Knight, IV, MD  
Yash Patil, MD, MPH, FACS

### **University of Illinois**

Fady Charbel, MD, FAANS, FACS

### **University of Minnesota**

Uzma Samadani, MD, PhD

### **University of North Carolina-Chapel Hill**

Dominique Higgins, MD, PhD  
Andrew Satterlee, PhD  
Soma Sengupta, MD, PhD, MBA

### **University of Oklahoma**

Zachary Smith, MD

### **University of Pennsylvania**

Eric Zager, MD

### **Vail-Summit Orthopaedics & Neurosurgery**

Ernest Braxton, MD

### **WashU Medicine**

Derek Morrow, PA