

# The Winter Clinics FOR CRANIAL & SPINAL SURGERY

**Sunday, February 27 - Thursday, March 3, 2022** Viewline Snowmass, Snowmass Village, Colorado

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

## The Winter Clinics FOR CRANIAL & SPINAL SURGERY

## **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.

### Sunday, February 27, 2022

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

MR of Acute Spine Trauma Steve Pomeranz, MD

10 Year Follow-Up of a Cohort of 50 Lumbar Fusion Patients William Tobler, MD

Awake Spine Surgery in the ASC: How Regional Anesthesia has Enhanced Recovery *Ernie Braxton, MD* 

The Evolution of Bone Grafting Biologics for Spinal Fusion *James Burke, MD, PhD* 

Economics of Medicine: Understanding Investments in Healthcare Innovation *Chris Kager, MD, MBA* 

Fighting Back: Predatory Publishing, Citation Contamination and the Gray Zone *Mary Kemper* 

## 4:00 - 6:30pm Spine Surgery Complications Moderator: Zachary Tempel, MD

Frailty in the Elderly and Type II Odontoid Fracture Outcomes *Lucas Carlstrom, MD, PhD* 

Optimizing Outcomes in Healing: A Plastic Surgeon's Perspective William Tobler, Jr., MD

Role of DTI & MRI Neurogram Imaging in Spine & Peripheral Nerve Surgery *Line Jacques, MD, MSc* 

Case Series: Nerve Transfers for C5 Palsy *Eric Zager, MD* 

Long Term Outcome of Multi-Level (3 or Greater) Minimally Invasive Laminectomy for Lumbar Stenosis Mick Perez-Cruet, MD, MS

Ten Year Follow Up of Cervical Total Disc Replacement: Swiss Spine Society Study Patients Ed Frank, MD

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

## Monday, February 28, 2022

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

Summary and Update on Hot Topics in Deformity Surgery Robert Bohinski, MD, PhD

Expectations-Satisfaction in Deformity Surgery *Richard Fessler, MD, PhD* 

Junctional Strategies for PJK Prevention Tyler Koski, MD

Distributed Loading Technique: A "soft landing" to Avoid PJK *Zachary Tempel, MD* 

Diagnosis and Management of Ankylosing Spondylitis Doug Orr, MD

A Simple, Novel Way to Revise Loose Screws *Neel Anand, MD* 

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

Fusions for Chronic Discogenic or Axial Low Back Pain without Instability: Reasonable or Not? *Pierce Nunley, MD* 

Long Construct Distal Failure *Michael Kachmann, MD* 

Study: Normal Spinal Canal Diameter & Population Trends Sergey Neckrysh, MD & Constantin Schizas, MD

Spinal Biologics in the Age of Insurance Denials Andrew Kokkino. MD

When to Cross the CT Junction Jason Savage, MD

Every Clinician's Six "Customers" Peter Kalina, MD

## Tuesday, March 1, 2022

#### 7:00 - 9:30am General Spine Moderator: Bryan Krueger, MD

Ulnar Neuropathy and the Anconeus Epitrochlearis Muscle *Manish Sharma, MBBS* 

Diabetic Neuropathy Indication for SCS *Marc Orlando, MD* 

Vertebrogenic Low Back Pain George Bovis, MD & Thomas Gleason, MD

Evidence for Cellular Bone Matrix Allograft in Spinal Fusion Bryan Krueger, MD

Motorsports Safety Development: Learning from Tragedy Dan Galyon, MD

Spinal Cord Injury: Pulmonary Complications & Prevention William Knight, IV, MD

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

APP Practice Model Updates: Improving Patient Access Jody Miniard, DNP, ACNP-BC

Tips to Correctly Identify Pain Claudio Feler, MD

Conservative Spine Treatment: What's the Evidence? Zachary Plummer, MD

Grading Systems in Spine Surgery Joseph Herbert, MD

Use of 3D Models in Complex Spine & Cranial Surgery Katherine Trelstad-Andrist, APRN, CNP

## 3:30 - 6:00pm Neurovascular Advancements Moderator: Rabih Tawk, MD

Moyamoya Disease Rabih Tawk, MD

Acute Ischemic Stroke Intervention: 2022 Updates *Ricardo Hanel, MD* 

RCVS/PRESS & Inflammatory Causes of Stroke Jonathan Hodes, MD

Coagulopathy, Chemoprophylaxis, & Systemic Thrombus Management in the ICH Patient Jonathan Ratcliff, MD

Cerebrovascular Occlusive Disease & Bypass Norberto Andaluz, MD

Cognitive Changes after an SAH *Gavin Britz, MD* 

6:30-9:30pm 30th Anniversary Celebration at Elk Camp

#### Wednesday, March 2, 2022

## 7:00 - 9:30am General Cranial Surgery Moderator: Troy Payner, MD

Case Review: Clinical Approaches to Concussion Management *Micky Collins, PhD* 

Penetrating Brain Injury Update Chris Carroll, MD

Future of Trauma Neurosurgery *Uzma Samadani, MD, PhD* 

How to Get Chiari Surgery Right John Oró, MD

Laser Interstitial Thermal Therapy in Neuro-oncology Alireza Mohammadi, MD

The Emerging Role of High & Low Frequency Focused Ultrasound *Glen Stevens, DO* 

Ergonomic Evaluation for Endoscopic Skull Base Surgeons *Emily Karp, MD* 

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

The History of Trigeminal Neuralgia Hamad Farhat, MD

Dying Art of PSR Chad Morgan, MD

Refining Patient Selection for SCS: Measuring Gait & Balance *George Mandybur, MD* 

Elucidating Mechanism of Action of DBS in Drug Addiction *Kendall Lee, MD, PhD* 

MRI Guided Focused Ultrasound (MRIg FUS) Sepehr Sani, MD

Curved Trajectories & the Future of Stereotaxis Joseph Neimat, MD

DBS for Movement Disorders & Psychiatric Indications *Mark Liker, MD* 

## 4:00 - 6:30pm Concurrent: Advanced Practice Provider Moderator: Christina Collins, DNP, ARNP, ACNP-C

Chiari Treatment & CSF Leak Review - Shawn Vuong, MD

Neurology Symptom Management: Seizures & Headaches *Christina Vest, DNP* 

Stroke Update: Current Guidelines on Diagnosis & Treatments *Jonathan Scoville, MD* 

Treatment of Non-Aneurysmal SAH - Stacia Grove, NP

Pituitary Adenoma Incidence, Mgmt Trends & Long-term Outcomes Chris Graffeo, MD, MS

Skull Base Lesions & the APP - Laura McLauchlin, DNP-ACNP

#### Thursday, March 3, 2022

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

Gene Therapy for Neurological Disorders John Heiss, MD

Case Review Vincent DiNapoli, MD, PhD

Management of Petroclival Meningiomas Sebastien Froelich, MD

Comparison of Outcomes Following Primary & Repeat Resection of Craniopharyngioma *Philip Theodosopoulos, MD* 

Posterior Fossa Epidermoids *Michael Link, MD* 

Endoscopic Transphenoidal: Lessons Learned from 10 Years Experience with Progressive Complexity Bharat Guthikonda, MD

Clival Chordomas: A Review and Update on Management Amjad Anaizi, MD

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

#### **Residents:**

Oluwaseun Akinduro, MD Lucas Carlstrom, MD, PhD Michael Robinson, MD Jonathan Scoville, MD Pranay Soni, MD

#### **Faculty:**

Vincent DiNapoli, MD, PhD Michael Link, MD Chad Morgan, MD Troy Payner, MD Rabih Tawk, MD





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 breath-taking 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 fully 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 26, 2022.

To make reservations, call the Viewline at (800) 525-9402 or the Wildwood at (970) 923-8400. Reservations will be accepted based on availability.



## Registration deadline: February 11, 2022

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

<b>Tuition</b> Full Program	Feb. 27-Mar. 3	\$1300
Spinal Program Only	Feb. 27-Mar. 1	\$1100
Cranial Program Only	Mar. 1-3	\$1100
Residents/Fellows Nurse Practitioners Physician Assistants	Feb. 27-Mar. 3	\$600



#### **Covid Policy**

Your health and safety is a priority. We will follow any masking requirements from state and local authorities at the time of the meeting.

Additionally, we require all participants do one of the following:

- Provide proof of full vaccination.
- Obtain a negative PCR test withing three days of arrival to the meeting.
- Mask indoors in the Conference Center at all times.



## Exhibitors \* as of December 1, 2021

Cerapedics, Inc. Natus

**DePuy Synthes Nexus Spine** 

DuraStat OssDsign USA, Inc.

Integra SI-Bone

**KLS Martin Group** Spine Wave **Kuros Biosciences** Spineology

#### **Mayfield Clinic**

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## **Faculty**

Allegheny Brain & Spine Surgeons James Burke, MD, PhD

Amita Health George Bovis, MD

Ascension St. Vincent's Riverside Spine & Brain Institute Laura McLauchlin, DNP-ACNP

**Barrow Neurological Institute** Christopher Graffeo, MD

Cedars Sinai Medical Center

Neel Anand, MD

Cleveland Clinic Alireza Mohammadi, MD R. Douglas Orr, MD Jason Savage, MD Parnay Soni, MD Glen Stevens, DO, PhD, FAAN

Clinique Cecil, Swizerland Constantin Schizas, MD

Colorado Chiari Institute John Oró, MD

Emory University Jon Ratcliff, MD

**Georgetown University** Amjad Anaizi, MD

**Glia Media** Mary Kemper

**Goodman Campbell Brain and Spine** Troy Payner, MD

Group Health TriHealth Physician Partners William Tobler, Jr., MD Houston Methodist Neurological Institute

Gavin Britz, MD

Illinois Bone & Joint Institute Thomas Gleason, MD

**Inova Neurosurgery** Stacia Grove, NP

Louisiana State University Bharat Guthikonda, MD

Lyerly Neurosurgery Ricardo Hanel, MD, PhD

Mayfield Clinic
Robert Bohinski, MD, PhD
Vincent DiNapoli, MD, PhD
Jonathan Hodes, MD
Michael Kachmann, MD
Bryan Krueger, MD
George Mandybur, MD
Jody Miniard, DNP, ACNP-BC
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Emily Karp, MD
Kendal Lee, MD, PhD
Michael Link, MD
Rabih Tawk, MD
Katherine Trelstad-Andrist, APRN, CNP, MSN

Mayo Clinic Health System Manish Sharma, MBBS

Mercy Health Jewish Hospital Christina Vest, DNP **Michigan Head & Spine Institute** Mick Perez-Cruet, MD, MS

National Institutes of Health John Heiss, MD

Northwestern University Tyler Koski, MD

Oregon Health & Science University/Centre de la Douleur
Edmund Frank. MD

**Oregon Neurosurgery** Andrew Kokkino, MD

**Penn Medicine / Lancaster General Health** Chris Kager, MD, MBA

**ProScan Imaging** Stephen Pomeranz, MD

**Rush University** Richard Fessler, MD, PhD Sepehr Sani, MD

**Sanford Neurosurgery and Spine Clinic** Shawn Vuong, MD

**Spine Institute of Louisiana** Pierce Nunley, MD

Springfield Neurological and Spine Institute

Chad Morgan, MD

**Uniformed Services University** Christopher Carroll, MD

**Université de Paris** Sébastien Froelich, MD University of California, San Francisco Line Jacques, MD, MSc

Line Jacques, MD, MSc Philip Theodosopoulos, MD

University of Cincinnati Norberto Andaluz, MD William Knight, IV, MD Zachary Plummer, MD Michael Robinson, MD, PhD

**University of Illinois Chicago** Hamad Farhat, MD Sergey Neckrysh, MD

University of Louisville Joseph Neimat, 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 Southern California Mark Liker, MD

**University of Utah** Jonathan Scoville, MD

Vail-Summit Orthopaedics & Neurosurgery Ernest Braxton, MD

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Claudio Feler, MD

Dan Galyon, MD