



American  
Association of  
Neurological  
Surgeons

Jointly Provided by the AANS

2018

# The Winter Clinics

## FOR CRANIAL & SPINAL SURGERY

Sunday, February 25 - Thursday, March 1, 2018

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.
- Describe peripheral nerve disorders, entrapment, injuries, tumors, and pain and how to avoid complications preoperatively, intraoperatively and postoperatively.
- Identify updates on current topics in traumatic brain injury/concussion and how to build a center.
- Identify management, techniques and post-operative treatment in deformity spine surgery.
- Identify various complications in spine surgery, how to avoid or treat spine complications and how best to communicate about them.
- 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 the best medical practices for cerebrovascular diseases and disorders.
- 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 intracranial lesions.
- 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 25, 2018

7:00 - 9:30am **Emerging Treatments**  
**Moderator: William Tobler, MD**

Medial-Lateral Expanding Interbody Devices  
*Andrew Cannestra, MD, PhD*

Revision Strategies for SI Joint Fusion Failures-Technique and Case Studies  
*Brad Duhon, MD*

HF10 Spinal Cord Stimulation  
*Marc Orlando, MD*

Laser Interstitial Thermotherapy in the Management of Spinal Metastasis  
*Claudio Tatsui, MD*

The Use of Umbilical Cord Blood Stem Cells for Spinal Fusion and the Treatment of Sciatica  
*Larry Khoo, MD*

Minimally Invasive Treatment of Levo Dextro Scoliosis  
*Mick Perez-Cruet, MD, MS*

Cushing's Disease  
*Russell Lonser, MD*

4:00 - 6:30pm **Concussion/TBI**  
**Moderator: William Knight, IV, MD**

Dealing with Stressor Points in a Spine Center  
*Clarence Watridge, MD*

Concussion Case Studies: Clinical Profile Model and Multidisciplinary Care Delivery  
*Micky Collins, PhD*

Therapies for Post-Concussion Syndrome  
*Shaun Keegan, PharmD, BCPS*

What We Don't Understand About Football  
*Uzma Samadani, MD, PhD*

Chronic Consequences of Sports-Related Concussion: Detection in Living Patients  
*David Okonkwo, MD, PhD*

Update on NFL Concussion Program  
*Allen Sills, MD*

## Monday, February 26, 2018

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

Surgical Correction of Cervical Deformity:  
Techniques and Strategies  
*Sergey Neckrysh, MD*

Sagittal Balance Parameters in the Surgical Management  
of Degenerative Spinal Pathology  
*Zachary Tempel, MD*

Strategic Staged Protocol for Circumferential MIS of Severe  
Coronally and Sagittally Malaligned Adult Spinal Deformity  
*Neel Anand, MD*

Advanced Techniques for Minimally Invasive  
Scoliosis Surgery  
*David Okonkwo, MD, PhD*

Minimally Invasive Procedures for Radiculopathy in the  
Context of Scoliosis  
*Richard Fessler, MD, PhD*

Interesting Cases Panel Discussion  
*Robert Bohinski, MD, PhD & Tyler Koski, MD*

### 4:00 - 6:30pm **Peripheral Nerve Surgery: Interesting Cases** **Moderator: Manish Sharma, MBBS**

EMGs & Operative Considerations  
*Robert Whitten, MD*

Peripheral Nerve Radiology with Intraoperative Correlation  
*Line Jacques, MD, MSc*

Peripheral Nerve Injuries  
*Eric Zager, MD*

Peripheral Nerve Entrapment  
*Amgad Hanna, MD*

Peripheral Nerve Tumors  
*Jon Stone, MD*

Peripheral Nerves and Pain Management  
*Manish Sharma, MBBS*

### 4:00 - 6:30pm **Concurrent Session: Advanced Practice Provider** **Moderator: Jody Miniard, DNP, ACNP-BC**

Anatomy and Radiology Review  
*Shawn Vuong, MD*

Spine Fractures: Stability & When to Operate  
*Michael Kachmann, MD*

Lumbar Fusion: Indications and Controversies  
*H. Gordon Deen, MD*

HCD with Specific Root Syndromes  
*Clarence Watridge, MD*

Determining the Source of Symptoms  
*Jody Miniard, DNP, ACNP-BC*

## Tuesday, February 27, 2018

### 7:00 - 9:30am **Spine Surgery Complications & Outcomes** **Moderator: H. Gordon Deen, MD**

Obesity in Spinal Surgery: Does It Really Matter?  
*H. Gordon Deen, MD*

I Hate Geometry! What Measurements are REALLY  
Important in Spinal Surgery  
*R. Douglas Orr, MD*

Case Review: My Worst Outcome  
*William Tobler, MD*

Outcomes & Results of MIS Decompressive Surgery  
*Edward Monaco, III, MD, PhD*

Neurmodulatory Therapy in Management of Pain  
*Ronald Reimer, MD*

Lessons Learned from the Swiss Medical System  
*Ed Frank, MD*

### 4:00 - 6:30pm **Controversies in Cranial Surgery** **Moderator: Rob Parrish, MD, PhD**

Evolution of Skull Base Surgery  
*William Couldwell, MD, PhD*

Neurojeopardy: Test Your Medical Knowledge  
*Glen Stevens, DO, PhD, FAAN*

Cannabis: Derivatives and Directions  
*Rob Parrish, MD, PhD*

This Is Your Brain In Love  
*Allan Hamilton, MD*

### 4:00 - 6:30pm **Concurrent Session: Advanced Practice Provider** **Moderator: Christina Collins, ARNP**

Head Trauma  
*William Clifton, MD*

Advances in Neuromonitoring  
*Jason Siegel, MD*

Emerging Technology in Neurosurgery  
*Jang Yoon, MD, MSc*

Advances in the Treatment of Epilepsy  
*Sanjeet Grewal, MD*

Meningioma Overview & Improvement in Postop Care  
*Jennifer Viner, NP*

6:30 - 8:30pm **Dinner**

## Wednesday, February 28, 2018

7:00 - 9:30am **CPC – “Stump the Chump”**

**Moderator: William Knight, IV, MD**

### **Faculty:**

*Michael Link, MD*

*H. Gordon Deen, MD*

*Troy Payner, MD*

*Rob Parrish, MD, PhD*

*William Tobler, MD*

### **Residents:**

*Christopher Graffeo, MD*

*Kelly Gassie, MD*

*Brandon Lane, MD*

*William Jeong, MD*

*Smruti Patel, MD*

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

**Moderator: Norberto Andaluz, MD**

My Learning Curve with Acoustic Neuroma

*Philip Theodosopoulos, MD*

Genetic Alterations in Vestibular Schwannomas that Might Lead to More Aggressive Phenotypes

*Michael Link, MD*

Endonasal Endoscopic Surgery for Orbital Pathology

*Kathryn Van Abel, MD*

Simulation Module of Carotid Artery Rupture during Endonasal Endoscopic Surgery

*Daniel Price, MD*

Role of Nonschwannoma Cells in Vestibular Schwannomas

Contributing to More Aggressive Behavior

*Christopher Graffeo, MD*

Treatment of Craniofacial Fibro-osseous Lesions

*Amjad Anaizi, MD*

Proton Beam Therapy for Clival Chordomas & Chondrosarcomas Compared to Gamma Knife Radiosurgery

*George Bovis, MD & Patrick Sweeney, MD*

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

**Moderator: Christina Collins, ARNP**

Vascular Imaging Review

*David Miller, MD*

Carotid Artery Stenosis

*Neil Haranhalli, MD*

SAH Complications

*Laura McLaughlin, DNP, ACNP-BC*

Neuropsychological Aspects of Recovery after SAH and Stroke

*Lisa Hannegan, MS, ACNP, CNS*

## Thursday, March 1, 2018

7:00 - 9:30am

**Cerebrovascular/Endovascular**

**Moderator: Troy Payner, MD**

Contralateral Approach to Superior Hypophyseal Aneurysms:

Is It Better than Ipsilateral?

*Bharat Guthikonda, MD*

Large Vessel Occlusion Stroke

Management and Hemi Crani

Considerations

*William Knight, IV, MD*

Cerebrovascular Revascularization

*Norberto Andaluz, MD*

Complex Case Review

& Decision Making Discussion

*Troy Payner, MD*

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

**Moderator: George Mandybur, MD**

Novel Robotic Approaches to Mesial

Temporal Ablation

*Joseph Neimat, MD, MS*

Update on Deep Brain Stimulation

Technology

*George Mandybur, MD*

Stimulation for Pain, a Review of Targets and Programming Methods

*Claudio Feler, MD*

Radiosurgery for Cranial Nerve Neuralgias

*Edward A. Monaco III, MD, PhD*

Interesting Cases Panel Discussion





### 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 24, 2018**.

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



## Registration deadline: February 9, 2018

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

### Tuition

<b>Full Program</b>	Feb. 25-March 1	\$1300
<b>Spinal Program Only</b>	Feb. 25-27	\$1100
<b>Cranial Program Only</b>	Feb. 27-March 1	\$1100
<b>Residents/Fellows Nurse Practitioners Physician Assistants</b>	Feb. 25-March 1	\$600



## Exhibitors

Aesculap  
 Cerapedics, Inc.  
 Globus Medical  
 Integra  
 K2M, Inc.  
 KLS Martin  
 Medtronic  
 Nexus Spine  
 NuVasive  
 RTI Surgical  
 Spine Wave  
 Spineology, Inc.  
 Zimmer Biomet



**Join us on Facebook** for the latest news & updates!  
[facebook.com/WinterClinics](https://www.facebook.com/WinterClinics)

\* as of December 7, 2017

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

PRESORTED  
STANDARD  
U.S. POSTAGE  
**PAID**  
CINCINNATI, OH  
PERMIT NO. 9714

# The Winter Clinics

## FOR CRANIAL & SPINAL SURGERY

Sunday, February 25 - Thursday, March 1, 2018  
Westin Snowmass, Snowmass Village, Colorado

## Faculty

**Cedars Sinai Medical Center**  
Neel Anand, MD

**Cheyenne Regional Medical Center**  
Claudio Feler, MD

**Cleveland Clinic**  
Glen Stevens, DO, PhD, FAAN  
R. Douglas Orr, MD

**Georgetown University**  
Amjad Anaizi, MD

**Indiana University/Goodman  
Campbell Brain and Spine**  
Brandon Lane, MD  
Troy Payner, MD

**Louisiana State University**  
Bharat Guthikonda, MD

**Lyerly Neurosurgery**  
Ricardo Hanel, MD

**Mayfield Clinic**  
Norberto Andaluz, MD  
Robert Bohinski, MD, PhD  
Michael Kachmann, MD  
George Mandybur, MD  
Jody Miniard, DNP, ACNP-BC  
Marc Orlando, MD  
Zachary Tempel, MD  
William Tobler, MD  
Robert Whitten, MD

**Mayo Clinic**  
William Clifton, III, MD  
Christina Collins, ARNP  
H. Gordon Deen, Jr., MD  
Kelly Gassie, MD  
Christopher Graffeo, MD  
Sanjeet Grewal, MD  
Neil Haranhalli, MD  
Michael Link, MD  
David Miller, MD  
Daniel Price, MD  
Ronald Reimer, MD  
Jason Siegel, MD  
Jon Stone, MD  
Kathryn Van Abel, MD  
Clarence Watridge, MD  
Jang Yoon, MD, MSc

**Mayo Clinic Health System**  
Manish Sharma, MBBS

**MD Anderson Cancer Center**  
Claudio Tatsui, MD

**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

**The Spine Clinic of Los Angeles**  
Larry Khoo, MD

**University of Arizona**  
Allan Hamilton, MD

**University of California, San Francisco**  
Lisa Hannegan, MS, ACNP, CNS  
Line Jacques, MD, MSc  
Philip Theodosopoulos, MD  
Jennifer Viner, NP

**University of Cincinnati**  
William Jeong, MD  
Shaun Keegan, PharmD, BCPS  
William Knight, IV, MD  
Smruti Patel, MD  
Shawn Vuong, MD

**University of Colorado, Denver**  
Brad Duhon, MD

**University of Florida Health**  
Laura McLaughlin, DNP, ACNP-BC

**University of Hawaii & Lyerly Neurosurgery**  
Andrew Cannestra, MD, PhD

**University of Illinois at Chicago**  
Sergey Neckrysh, MD

**University of Louisville**  
Joseph Neimat, MD

**University of Minnesota**  
Uzma Samadani, MD, PhD

**University of Pennsylvania**  
Eric Zager, MD

**University of Pittsburgh**  
Micky Collins, PhD  
Edward Monaco, III, MD, PhD  
David Okonkwo, MD, PhD

**University of Utah**  
William Couldwell, MD, PhD

**University of Wisconsin**  
Amgad Hanna, MD

**Vanderbilt University & National  
Football League**  
Allen Sills, MD