



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.
- Explain and review new techniques and controversies as demonstrated in various case studies, and apply that information to future clinical decision-making processes.
- Describe potential complications of peripheral nerve disorders, entrapment, injuries, tumors, and pain and how to avoid complications preoperatively, intraoperatively and postoperatively.
- Identify various complications in spine surgery, how to avoid or treat spine complications and how best to communicate about them.
- Recognize the full spectrum of chairi malformation and how it is best treated.
- Explain and review changes to the business of medicine, including physician alignment models and ICD-10 coding changes.
- 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 stroke prevention in patients with intracranial stenosis, the appropriate role for ECIC bypass after multiple trials failed in broad indications, and how to choose appropriately between carotid endarterectomy and stenting for extra cranial carotid stenosis.
- 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.

**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 22, 2015

### 7:00 - 9:30am Emerging Treatments in Spine Surgery

**Moderator: William Tobler, MD**

Shooting at the Right Target:  
Hip, Low Back, or SI Joint Pain?  
*Marc Orlando, MD*

Techniques of SI Joint Fusion & Clinical Outcomes  
*David L. Greenwald, MD, FACS*

Minimally-Invasive SI Joint Fusion: Updates  
*Brad Duhon, MD*

Interlaminar Stabilization in the Lumbar Spine  
*Michael Musacchio, Jr., MD*

Principles & Methods of Endoscopic Spine Surgery  
*Anthony Yeung, MD*

Review of Stem-Cell Research for Degenerative Disc Disease  
*Mick Perez-Cruet, MD, MS*

Oblique Lumbar Interbody Fusion  
*Jean-Pierre Mobasser, MD*

### 4:00 - 6:30pm Controversies in Spine Surgery

**Moderator: R. Douglas Orr, MD**

The Year in Review of Spinal Controversies  
*William Tobler, MD*

Failed Back Surgery: Why Bother?  
*R. Douglas Orr, MD*

Controversies of Dynamic Stabilization for the Lumbar Spine  
*Leon Abram, MD*

MIS Surgical Techniques: Decompression to Deformity Correction - Outcomes and Limitations  
*Larry Khoo, MD*

Limitations & Complications of Circumferential MIS for Adult Spinal Deformity  
*Neel Anand, MD, Mch Orth*

How to Apply Kaizen Techniques in Neurosurgery  
*Brad Curt, MD*

How Do We Train Residents in the Era of Image Guided Spine Surgery?  
*William Krauss, MD*

6:30 - 8:00pm Welcome Reception







### 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.

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 21, 2015.

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 6, 2015

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

### Tuition

<b>Full Program</b>	Feb. 22-26	\$1300
<b>Spinal Program Only</b>	Feb. 22-24	\$1100
<b>Cranial Program Only</b>	Feb. 24-26	\$1100
<b>Residents/Fellows Nurse Practitioners Physician Assistants</b>	Feb. 22-26 (Full Program Only)	\$600



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## Exhibitors

Aesculap | Integra | K2M | Spineology | Spine Wave  
Thompson MIS | Zimmer Spine

\* as of November 18, 2014

## The Winter Clinics

### FOR CRANIAL & SPINAL SURGERY

Sunday, February 22 - Thursday, February 26, 2015

Westin Snowmass, Snowmass Village, Colorado

## Faculty

### American Association of Neurological Surgeons

Katie Orrico, JD

### Baptist Neurological Institute of Jacksonville

Ricardo Hanel, MD, PhD

### Cedars-Sinai Spine Center

Neel Anand, MD, Mch Orth

### 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

### Danville Orthopedic Spine Center

Leon Abram, MD

### Desert Institute for Spine Care

Anthony Yeung, MD

### Flagler Brain & Spine Institute

David L. Greenwald, MD, FACS

### Hofstra University

David Langer, MD

### Indiana University/ Goodman Campbell Brain and Spine

Nicholas Barbaro, MD  
Charles Kulwin, MD  
Jean-Pierre Mobasser, MD  
Troy Payner, MD  
Ronald Young, II, MD

### Lariboisière Hospital, Paris

Sebastien Froelich, MD

### Mayo Clinic

Michelle Clarke, MD  
H. Gordon Deen, MD  
William Freeman, MD  
William Krauss, MD  
Peter Kalina, MD  
Giuseppe Lanzino, MD  
Stephen Pirris, MD  
Robert Spinner, MD  
Rabih Tawk, MD  
Jang Yoon, MD

### Mayo Clinic Health System

Manish Sharma, MBBS

### McGill University

Marie-Noëlle Hébert-Blouin, MD

### MD Anderson Cancer Center

Claudio Tatsui, MD

### Methodist Neurological Institute

Rob Parrish, MD, PhD, FAANS

### Michigan Head & Spine Institute

Mick Perez-Cruet, MD, MS

### National Institutes of Health

John Heiss, MD

### Neurosurgical and Spine Specialists

Brad Duhon, MD

### NorthShore University HealthSystem

Michael Musacchio, Jr., MD

### Northwest Community Healthcare

Shaun O'Leary, MD, PhD, FAANS

### Oregon Health & Science University

Edmund Frank, MD

### Rush University Medical Center

Richard Fessler, MD, PhD

### Rutgers New Jersey Medical School

Peter Carmel, MD

### 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 Diego

Alexander A. Khalessi, MD, MS, FAHA

### University of California, San Francisco

Philip Theodosopoulos, MD

### University of Cincinnati/Mayfield Clinic

Robert Bohinski, MD, PhD  
Bradford Curt, MD  
Mary Gaskill-Shipley, MD  
Daniel Harwell, MD  
William Knight, IV, MD  
George Mandybur, MD  
Erin McDonough, MD  
Marc Orlando, MD  
Andrew Ringer, MD  
Ryan Tackla, MD  
William Tobler, MD  
Jonathan York, MD

### University of Illinois at Chicago

Fady Charbel, MD  
Sergey Neckrysh, MD

### University of Minnesota

Adel El-Nashar, MD  
Andrew Grande, MD

### University of Missouri/Springfield Neurological and Spine Institute

Chad Morgan, MD

### University of Pennsylvania

Eric Zager, MD

### University of South Carolina - Greenville

Fredy J. Revilla, MD

### University of Wisconsin

Amgad Hanna, MD