The 40th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves.
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2024 Spine Summit

Manage your schedule, peruse program content and stay in touch throughout the meeting.

Select 2024 Spine Summit from the Upcoming Events list.

Complimentary WiFi is available to all attendees throughout the Caesars Palace meeting space.

NETWORK NAME: Spine Summit
PASSWORD: 2024spine
Welcome Letter ........................................................................................................... 4
Chairman’s Biography ................................................................................................. 6
General Information ..................................................................................................... 8
Accreditation .................................................................................................................. 9
Honored Guests ............................................................................................................ 10
Program-at-a-Glance ................................................................................................... 16
Program .......................................................................................................................... 18
Sponsored Industry Sessions ....................................................................................... 40
Exhibitor Floor Plan .................................................................................................... 48
Exhibitor Listing ........................................................................................................... 50
On behalf of the AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves (DSPN), welcome to the 2024 Spine Summit! This year’s meeting promises to be exceptionally engaging as we explore the theme “Navigating the Future: Embracing Technology and Innovation to Improve Patient Care.”

You will notice the 2024 theme rooted in the scientific sessions, award winning abstracts and special courses throughout the meeting. We received a record number of more than 1,000 abstract submissions this year — demonstrating the faith you have in the Spine Section to deliver pioneering science and inventive ideas. The Exhibit Hall features more than 70 companies and computer kiosks will be sprinkled throughout, showcasing 312 E-Posters with cutting-edge research in spine surgery. It is our duty to provide a program that engages, encourages, provokes and challenges our membership. We have worked diligently to provide just that.

As the captivating Las Vegas lights bathe the Caesars Palace Temple Pool Deck Wednesday night, the meeting kicks off with an Opening Reception under the stars. The Moonshiners, with their infectious “prohibition pop” tunes, will set the mood for an unforgettable evening of networking and socializing with friends and colleagues.

Be sure to catch Visionary Speakers Ben Newman, Santiago Schnell and Eric Wood, who will captivate audiences with their inspiring stories on Thursday morning during Scientific Sessions. Wood, a former NFL center for the Buffalo Bills, two-time Walter Payton Man of the Year nominee, author and podcaster, will speak during Session 1. Newman, a renowned speaker, entrepreneur, philanthropist and Wall Street Journal best-selling author, will speak during Session 2, which will also feature Schnell, a scientist and academic leader, who currently serves as the William K. Warren Foundation dean of the College of Science at the University of Notre Dame.
Thursday and Friday will feature our Latest and Greatest vs. Tried and True and Cahill Debate Sessions. During the Latest and Greatest vs. Tried and True Debates, we will discuss treatment options for the use of robotics in spine surgery. During the Cahill Debates, we will discuss the applications of endoscopic surgery in lumbar spine surgery and the value and limitations in the use of stand-alone anterior cervical devices.

As we focus on embracing technology and innovation, we cannot ignore the tremendous impact artificial intelligence (AI) has had on the medical field in a variety of ways. We will uncover its use Friday morning during Scientific Session 5, which explores the application of AI with registries.

Thank you for taking time out of your demanding schedules to join us in Las Vegas for an unforgettable experience. We’re grateful for your commitment to providing exceptional patient care and for joining us on this journey to illuminate the future of spine care.

Eric A. Potts, MD, FAANS
AANS/CNS Section on Disorders of the Spine & Peripheral Nerves Chair

W. Zachary Ray, MD, FAANS
Scientific Program Co-Chair

Charles Sansur, MD, MHSc, FAANS
Annual Meeting Chair

Michael Kelly, MD
Orthopedic Scientific Program Co-Chair
Eric A. Potts, MD, FAANS
AANS/CNS Section on Disorders of the Spine & Peripheral Nerves Chair

Dr. Eric A. Potts is honored to serve as the 40th chair of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. He was born in Pittsburgh and spent most of his childhood in Indiana before returning east to attend the University of Pennsylvania, where he was a varsity diver on the school’s swim team. Upon graduation, he enrolled in the Indiana University School of Medicine. His postgraduate training was at the University of Maryland. After residency, he completed a spine fellowship with the Indianapolis Neurosurgical Group (ING) and was hired upon fellowship completion. After many years of work, ING merged with Indiana University Neurosurgery to form Goodman Campbell Brain and Spine (GCBS). GCBS grew and became an outstanding example of a “privademic” practice model. During this time, Dr. Potts helped launch the complex spine fellowship at Indiana University. After 10 years of success, GCBS split from the university due to leadership differences; however, Dr. Potts remains a proud GCBS partner. He currently serves on the Board of Directors of GCBS and as the chairman of neurosurgery at Ascension St. Vincent Hospital in Indianapolis.

Dr. Potts is passionate about quality patient care. A major focus of his research is the outcomes of common spinal procedures. He has been involved with the Quality Outcomes Database from its inception and GCBS is consistently a top enroller and performer. He also has interests in image guidance, intraoperative imaging and advanced imaging techniques and is widely published in these areas. Dr. Potts is currently on the Editorial Board of the Journal of Neurosurgery: Spine and serves as an ad hoc reviewer for other journals.

Despite a busy clinical practice, his biggest passion is his family. He and his wife, Mary Claire, have four children: Alex, Caroline, Teddy and Juliet. They enjoy family adventures of skiing, wake surfing, traveling and family game nights. Alex graduated from Notre Dame, Caroline is a junior at Notre Dame and Teddy was just accepted at Notre Dame as a freshman; Juliet is a sophomore in high school. Not surprisingly, the Potts family has turned into huge Notre Dame fans and throw a pretty good tailgate.
The AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves is dedicated to advancing spinal neurosurgery and related sciences through education, clinical research and improved patient care.

Enjoy the many benefits of membership, from advancing the field of neurosurgery, to networking with like-minded colleagues, to being involved in education and advocacy — there is something for everyone. Join this vibrant, diverse community in the ongoing pursuit of improving spinal neurosurgery.

Access spine specific content and resources.

- Education
- Guidelines
- Videos
- News
- Research
- Grants & Awards

SpineSection.org
**GENERAL INFORMATION**

**Badge required for entry to all sessions.**
There is a $100 reprint fee for all lost or forgotten badges.

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<th>Registration</th>
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All Special Course and Scientific Session speakers and Abstract presenters should visit the Speaker Ready Room at least one hour prior to their presentation.

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No Smoking Policy
Smoking is not permitted at any official Section on Disorders of the Spine and Peripheral Nerves 2024 Spine Summit events. Caesars Palace allows smoking in the casino, as well as in the smoking-optional hotel rooms. Smoking is prohibited in non-gaming areas of all Nevada casinos, including restaurants and bathrooms.

Attire
Professional attire is appropriate for the meeting, social events and Exhibit Hall.

Children Policy
Children under the age of 18 are permitted in the Exhibit Hall during show hours; however, they will not be permitted to attend any educational sessions. When in the Exhibit Hall, children must be accompanied by a parent or guardian and have their meeting badge on at all times.

Accreditation and Designation Statement
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 AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. The AANS is accredited by the ACCME to provide continuing medical education for physicians.

The AANS designates this live activity for a maximum of 24.75 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). Disclosures will be included in the meeting app.
HONORED GUEST

Kevin T. Foley, MD, FAANS, is a professor in the Departments of Neurosurgery, Orthopedic Surgery and Biomedical Engineering at the University of Tennessee Health Science Center in Memphis, Tennessee. He is the chairman of Semmes-Murphey Clinic, emeritus director of the spine fellowship program for the University of Tennessee Department of Neurosurgery and founder, chairman of the board and medical director for the Medical Education and Research Institute. Dr. Foley has more than 200 scientific publications to his credit, has lectured at more than 600 scientific meetings and educational workshops and has been a visiting professor and invited lecturer at numerous universities in the United States and abroad. In addition, Dr. Foley has been issued more than 180 US patents. In fact, he has been issued more patents than any other neurosurgeon in the world.

MERITORIOUS AWARD ORTHOPEDIC

John Dimar II, MD, is a full-time surgeon in Louisville, Kentucky, at the Leatheman Spine Center, specializing in adult and pediatric spine surgery. Dr. Dimar is a clinical professor of orthopedics at the University of Louisville and chief of pediatric orthopedics at Norton Children’s Hospital. He is actively involved in spinal research at the Leatheman Spine Center and beyond and is widely published in numerous spine journals. Dr. Dimar is a key member of the Spine Fellowship Training Program that trains future spine surgeons in the United States and around the world. He is a member of numerous professional organizations promoting the delivery of high-quality spine care to patients and surgeon education.
LINE JACQUES, MD, FAANS, is vice-chair of the Department of Neurological Surgery at the School of Medicine at the University of San Francisco and recently received the John Adams Endowment for Peripheral Nerve and Pain Research. She contributes tirelessly to lecturing and teaching nationally and internationally, participates in clinical trials and is currently the chair of the Division of Spine and Peripheral Nerve. She continues to have a strong focus on teaching and mentoring through her fellowship program and working with aspiring young medical students. She has numerous publications and book chapters and is a peer reviewer or deputy editor for 13 different journals.

REGIS W. HAID JR., MD, FAANS, has been a visiting professor at 55 universities worldwide. He has been a course director more than 370 times, lectured at more than 200 spinal courses and presented more than 550 papers. As a widely published author, Dr. Haid has contributed more than 165 scientific articles to peer-reviewed journals, written or edited 13 textbooks and written more than 95 chapters on the treatment of spinal disorders. His research interests include spinal reconstruction techniques, with 27 patents of implants, including the first artificial cervical spine disc joint cleared by the FDA. He has been listed in the “Best Doctors of America” since 1994 and Consumers Research of America lists him as a “Top Surgeon.” He is a former board of director of the AANS, former AANS vice president and current past president. He formerly served as chair of the Board of Directors of the Neurosurgery Research and Education Foundation. He is a former Board of Directors member of the Lumbar Spine Research Society.
NETWORKING EVENTS

Opening Reception

Temple Pool

Wednesday, February 21  
6–8 pm

Enjoy a night of music and surprise theatrics under the Las Vegas lights with a performance by The Moonshiners, a “Prohibition Pop” band offering up a delectable dish of today’s top 40 songs mashed up with swingin’ beats from days gone by. Get your toes tappin’ while indulging in a lavish array of food and beverages as you network with old friends and new colleagues at the Opening Reception.

Access to the Opening Reception is included with meeting registration; a name badge will be required for entry.

Note: The reception will be held outside, please dress for the weather accordingly.
NETWORKING EVENTS

WINS Reception  Neopolitan III
Friday, February 23  5:30–6:30 pm
Reconnect with friends and colleagues from WINS and forge new connections during this hour-long reception and networking event.

Young Spine Surgeon Reception  Neopolitan I
(By Invitation Only)
Friday, February 23  6–7:30 pm
CONGRATULATIONS TO THE 2024 AWARD RECIPIENTS

Batzdorf Scholar Award
James Caruso
Aladine Elsamadicy

Benzel Research Award
Julien Francisco Zaldivar-Jolissaint

Benzel Spine Surgeon-Scholar Development Award
Syed Khalid

Fessler Award
Sabrina Zeller

Kline Peripheral Nerve Abstract Award
Benjamin Johnston

Larson Award
Isabella Churchill

Shaffrey International Fellow Award
Ebtesam Abdulla

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CONGRATULATIONS TO THE 2024 AWARD RECIPIENTS

Kimberly Ashayeri
Rabih Bou Nassif
Hani Chanbour
Steve Cho
Michael Cloney
Ian Connolly
Joseph DiDomenico
James Dragonette
Alexander Dru
Aladine Elsamadicy
Samuel Farber
Colin Gold
Saad Javeed
Eli Johnson
Benjamin Johnston
Rushikesh Joshi
Adham Khalafallah
Syed Khalid
Adam Leibold
Jannik Leyendecker
Daniel Lilly
Joseph Linzey
Tarek Mansour
David Mazur-Hart
Anthony Mikula
Josiah Orina
Christine Park
Nicholas Rabah
Alexander Schupper
Alan Stein
Pavlos Texakalidis
Timothy Yee
Sabrina Zeller
Justin Zhang

Charles Kuntz IV Scholars
Awarded in memory of Charles Kuntz IV, MD, to support research presentations by residents and fellows at the Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves.

Todd Albert Scholars
Awarded in honor of Todd J. Albert, MD, to support research presentations by orthopedic surgery residents and fellows at the Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves.

Tomoyuki Asada
Garrett Berger
Austin Carroll
Ahmed Doomi
Abdullah Ghali
Steven Girdler
Takashi Hirase
Chuan-Ching Huang
Sahir Jabbouri
Omid Jalali
Youssef Khalafallah
Hannah Levy
Ashley MacConnell
Evan Mostafa
Peter Passias
Clifford Pierre
Pratyush Shahi
David Sing
Avani Vaishnav
Sree Vemu
FRIDAY FEBRUARY 23

Industry Sponsored Breakfast Bites

Award Winning Abstract
Presentations: Sessions 1, 2 and 3

Specialty Breakout 1: Minimally Invasive/Motion Preservation/General Spine Abstracts

Scientific Session 5: Registries and AI: How They Are Intertwined

Scientific Session 6: Minimally Invasive: Is It One Size Fits All?

Lunch in the Exhibit Hall

Industry Sponsored Lunch-n-Learns

Scientific Session 7: Spine Trauma — Update in Best Practices

Special Session: Business Tips, Pearls and Tactics

DSPN Business Meeting

Special Course 6*: Regenerative Therapies and Motion Preservation

Special Course 7*: WFNS Session: Global Spine Surgery

Special Course 8*: New Concepts in Adult Spinal Deformity: Update from the SRS/IMAST

Special Course 9*: Endoscopic and Minimally Invasive Cadaver

Special Course 10*: Starting a Practice

WINS Reception

Young Spine Surgeon Reception
By Invitation Only

SATURDAY FEBRUARY 24

Specialty Breakout 2: Trauma/General Spine Abstracts

Specialty Breakout 3: Tumor/General Spine Abstracts

Specialty Breakout 4: Peripheral Nerve/Basic Science/General Spine Abstracts

Specialty Breakout 5: Spinal Deformity/General Spine Abstracts

Specialty Breakout 6: General Spine/Basic Science Abstracts

Scientific Session 8:

Cahill Debates

Special Course 6*: Regenerative Therapies and Motion Preservation

Special Course 7*: WFNS Session: Global Spine Surgery

Special Course 8*: New Concepts in Adult Spinal Deformity: Update from the SRS/IMAST

Special Course 9*: Endoscopic and Minimally Invasive Cadaver

Special Course 10*: Starting a Practice

WINS Reception

*Ticketed Course or Session
Practical Matters: Case-Based Discussions and Hands-On Operating Room Preparation for the APP

1:30–5:30 pm
Location: Verona/Turin
Course Directors: Gina Duel, Lara Massie, Sara McEvoy, Theresa Williamson
Course Description: This four-hour session will offer a meaningful overview of common treatment dilemmas faced in clinical and hospital settings, using a case-based approach allowing for discussion of diagnosis and treatment options. Suturing kits will be provided for use during course instruction and for future practice. The course will continue into a hands-on segment where participants will rotate through stations focusing on clinical scenarios common in practice, including bedside procedures, OR positioning and pressure palsies, common spinal procedures and screw placement.

Supported By:

SPECIAL COURSE 1
Deformity: How to Avoid and Manage Reoperations

1:30–5:30 pm
Location: Octavius 13–14
Course Directors: Kai-Ming Fu, Praveen Mummaneni
Course Description: This course focuses on spinal deformity principles and case-based discussions to apply to real-world clinical practice. Such concepts as when bigger surgeries are needed and when smaller surgeries suffice will be discussed. In addition, principles of approaches to deformity and considerations of types of surgeries will be reviewed.
SPECIAL COURSE 2
Spine Endoscopy: Basics to Advanced Techniques
1:30–5:30 pm
Location: Octavius 15–16
Course Directors: Raymond Gardocki, Christoph Hofstetter, Jang W. Yoon
Course Description: Endoscopic techniques for spine surgery have evolved substantially and provide a convincing alternative to open or tubular surgery. Numerous studies have shown that these techniques yield similar or even better functional outcomes for patients, while also resulting in reduced infection rates, blood loss, hospital stays and reliance on pain medications. The improved effectiveness of endoscopic spine surgery has in part been attributed to the advancements in technology, which have led to substantial enhancements in visualization, magnification, instrument selection and surgeon ergonomics. The primary objective of this course is to spotlight the technical aspects of endoscopic spine surgery to encourage its wider adoption within the medical community. Participants will gain insight into best practices for incorporating these techniques into their surgical practices and understand the current needs and potential future developments within this field.

Supported By:

SPECIAL COURSE 3
CSRS/DSPN Joint Special Course
1:30–5:30 pm
Location: Octavius 17–18
Course Directors: Erica Bisson, Zoher Ghogawala, Han Jo Kim
Course Description: This Spine Summit-CSRS-sponsored symposium will discuss various strategies to treat cervical myelopathy and radiculopathy. We will discuss the emerging evidence regarding both fusion and non-fusion operations for myeloradiculopathy across the age spectrum.
SPECIAL COURSE 4
Spine Oncology Update
1:30–5:30 pm
Location: Octavius 20
Course Directors: Dean Chou, Matthew Goodwin, John H. Shin
Course Description: This course will review and highlight the multidisciplinary management of spinal tumors for the practicing surgeon. Practical tips for managing common tumors and clinical scenarios with an emphasis on complication avoidance and surgical planning will be emphasized. Applications of robotics, endoscopy, navigation and custom implants will be featured this year in addition to case discussions.

SPECIAL COURSE 5
Ambulatory Surgery Practice
1:30–5:30 pm
Location: Octavius 21–22
Course Directors: Kurt M. Eichholz, Mark E. Oppenlander
Course Description: Learn from the experts on how to navigate patient care at an ambulatory surgery center (ASC). Understand the ASC model and how it’s changing, learn which patients are best for treatment at an ASC and explore which technologies optimize patient care. This course is a well-rounded dive into all aspects of ambulatory surgery practice.
Stay up-to-date on groundbreaking research.

Download the Spine Summit app to view more than 300 E-posters featuring new and exciting science.
SCIENTIFIC SESSION 1
Sports & Spine
8–10 am
Location: General Session Room — Octavius Ballroom
Moderator(s): David O. Okonkwo, Scott L. Zuckerman

PRESENTATIONS
8–8:04 am
Welcome and Introduction
Phil Louie, Venu Nemani

8:04–8:16 am
Treating Athletes with Spinal Disorders Beyond the Operating Room

8:16–8:26 am
Management of Spinal Disorders in Low vs High-Impact Sports
Scott L. Zuckerman

8:26–8:41 am
Emergency Preparedness in Sports
William Knight

8:41–8:51 am
Sideline Emergency in Athletics: Management of SCI
David O. Okonkwo

8:51–9:06 am
Improving Player Health and Safety in Athletics

9:06–9:21 am
Cervical HNP in the Athlete: Fusion vs Motion Preservation Case Debate
Jon Yoon, Robert Watkins IV

9:21–9:36 am
Unintended Consequences: Cervical Pseudoarthroses in the Athlete Case Debate
Victor Chang

9:36–9:39 am
Introduction of Visionary Speaker
Byron Branch
SCIENTIFIC SESSION 2
Navigating the Future: Chairman’s Keynote & Awards Session

10:30 am–12:30 pm
Location: General Session Room — Octavius Ballroom

PRESENTATIONS
10:33–10:36 am
Remarks from AANS President
Anthony L. Asher

10:37–10:40 am
Remarks from CNS President
Alexander A. Khalessi

10:41–10:42 am
Welcome to Session & Introduction of Neurosurgery
Meritorious Award Recipient
Praveen Mummaneni

10:43–10:48 am
Neurosurgery Meritorious Award Recipient Address
Regis W. Haid, Jr.

10:49–10:51 am
Introduction of Orthopedic Meritorious Award Recipient
Steve Glassman

10:52–10:57 am
Orthopaedic Meritorious Award Recipient Address
John Dimar

10:58–11:00 am
Introduction of NSGY Honored Guest
Langston Holly

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11:01–11:06 am
NSGY Honored Guest
Kevin T. Foley

11:07–11:09 am
Introduction of Peripheral Nerve Meritorious Award Recipient
Andrew Jack

11:10–11:15 am
Peripheral Nerve Meritorious Award Recipient Address
Line Jacques

11:16–11:36 am
Visionary Speaker
Santiago Schnell

11:37–11:40 am
Introduction of DSPN Chair
Praveen Mummaneni

11:41 am–12:01 pm
DSPN Chair’s Address: Navigating the Future
Eric A. Potts

12:02–12:04 pm
Introduction of Visionary Speaker
W. Zachary Ray

12:05–12:35 pm
Visionary Speaker: Achieving Your Best
Ben Newman
SCIENTIFIC SESSION 3
Innovation and Entrepreneurship
1:30–3 pm
Location: General Session Room — Octavius Ballroom
Moderator(s): Paul Park, Juan Uribe

PRESENTATIONS
1:30–1:35 pm
Introduction
Paul Park, Juan Uribe

1:35–1:47 pm
Surgeon Driven Innovation
Jeffrey Thramann

1:47–1:59 pm
The Value You Add as a Neurosurgeon to the Health System
Domagoj Coric

1:59–2:11 pm
Innovation and Entrepreneurship
Kevin T. Foley

2:11–2:23 pm
Career Evolution the Business of Neurosurgery
Adam S. Kanter

2:23–2:35 pm
Innovations are Market Successful Inventions
Pat Miles

2:35–3 pm
Q&A Session

SCIENTIFIC SESSION 4
Peripheral Nerve for the Spine Surgeon
3:30–4:40 pm
Location: General Session Room — Octavius Ballroom
Moderator(s): Zarina S. Ali, Mark Alexander Mahan

PRESENTATIONS
3:30–3:31 pm
Introduction
Zarina S. Ali, Mark Alexander Mahan

3:32–3:39 pm
Diagnostic Success: Role of Ultrasound-Guided Blocks

3:40–3:47 pm
Peripheral Nerve Stimulation: Start Doing it Now
Elias B. Rizk
3:48–3:55 pm
Endoscopes Everywhere: How, When and Where
Mark Alexander Mahan

3:56–4:02 pm
Robots for Brachial Plexus Injuries
Robert Spinner

4:03–4:10 pm
Is it Spinal, Nerve or Both? Distinguishing Lesions and Treating Both
Zarina S. Ali

4:11–4:18 pm
Foot Drop: Recent Data
Jonathan Stone

4:18–4:25 pm
Get Your Imaging Protocols Right
Line Jacques

4:26–4:33 pm
Avoid Spinal Fusion for Dumbbell Nerve Sheath Tumors
Ashok Asthagiri

4:33–4:40 pm
Extent of Resection and The Margin in Nerve Sheath Tumors: How Far do You go for Malignancy?
Allan Belzberg

DEBATES
Latest and Greatest vs Tried and True

4:45–6:15 pm
Location: General Session Room — Octavius Ballroom

4:45–5:07 pm
Topic 1: Leadership Style
Andrew Dailey, Adam S. Kanter, Ben Newman

5:07–5:29 pm
Topic 2: Registries — Is the Juice Worth the Squeeze?
John Chi, Praveen Mummaneni, Andrew Pugley

5:29–5:51 pm
Topic 3: Are Robotics and Navigation Mandatory?
Neel Anand, Nicholas Theodore, Luis M. Tumialan

5:51–6:15 pm
Topic 4: Early Versus Late Surgery in Central Cord
James S Harrop, R. John Hurlbert, Anand Veeravagu
FRIDAY, FEB. 23, 2024

AWARD WINNING ABSTRACT PRESENTATIONS
Session 1
7:30–9 am
Location: Octavius 20
Moderator(s): Marcus D. Mazur, Alexander Ropper

Session 2
7:30–9 am
Location: Octavius 15–16
Moderator(s): Yakov Gologorsky, Michale S. Virk

Session 3
7:30–9 am
Location: Octavius 17–18
Moderator(s): Stuart Hershman, Robert Whitmore

SPECIALTY BREAKOUT 1
Minimally Invasive/Motion Preservation/General Spine Abstracts
7:30–9 am
Location: Octavius 13–14
Moderator(s): Victor Chang, Jakup Godzik

SCIENTIFIC SESSION 5
Registries and AI: How They Are Intertwined
9:45–11 am
Location: General Session Room — Octavius Ballroom
Moderator(s): Mohamad Bydon, John Chi, Andrew Pugely

PRESENTATIONS
9:47–9:54 am
Creating Quality Outcomes
Anthony L. Asher

9:55–10 am
NeuroPoint Alliance as the Home of Registries
John Knightly
10:01–10:06 am  
International Spine Study Group  
Christopher Shaffrey

10:06–10:11 am  
CSRS Registry  
Zoher Ghogawala

10:12–10:17 am  
ASR of the AANS and AAOS  
Steven D. Glassman

10:18–10:23 am  
Starting a Registry at Your Institution  
Mohamad Bydon

10:24–10:29 am  
Harms Study Group  
Peter Newton

10:30–10:35 am  
European Spine Study Group  
Ferran Pellise

10:36–10:41 am  
AI & ChatGPT  
Rohaid Ali

10:47–11 am  
AI and the Age of the Digital Spine  
Eric Oermann

SCIENTIFIC SESSION 6  
Minimally Invasive — Is It One Size Fits All?

11:15 am–12:30 pm  
Location: General Session Room — Octavius Ballroom  
Moderator(s): Laura Snyder, Khoi D. Than

PRESENTATIONS

11:17–11:26 am  
MIS Classification System: What’s Out There Now  
Philip K. Louie

11:27–11:36 am  
How Do You Define Invasiveness?  
Nima Alan

11:37–11:45 am  
Considering MIS Approaches in Deformity  
Praveen Mummaneni
11:46–11:55 am  
Limitations of MIS Deformity  
Jay Turner

11:56 am–12:06 pm  
Evolution of MIS Lateral Approaches  
Juan S. Uribe

12:07–12:17 pm  
MIS Applications in the Cervical Spine  
Domagoj Coric

12:18–12:27 pm  
The Future of MIS — What’s Next?  
Michael Y. Wang

CAHILL DEBATES
1:45–2:05 pm  
Topic 1: CDR or Tried and True ACDF  
Erica F. Bisson, Domagoj Coric, Zoher Ghogawala

2:05–2:25 pm  
Topic 2: Endoscopic Spine — One Tool or the New Norm  
Dean Chou, Daniel Hoh, Michael Y. Wang

2:25–2:45 pm  
Topic 3: Multilevel Cervical Myelopathy with Kyphosis  
Burak M. Ozgur, Gerald E. Rodts Jr., Jay D. Turner

SPECIAL COURSE 6  
Regenerative Therapies and Motion Preservation

3–5:30 pm  
Location: Octavius 17–18  
Course Directors: Srinivas Prasad, Elizabeth Yu  
Course Description: The Motion Preservation and Regenerative Therapies course is aimed to educate participants on current motion preservation procedures, stimulate debate on existing and new motion-preserving procedures and expose the participants to emerging technology.
SPECIAL COURSE 7  
WFNS Session: Global Spine Surgery  
3–5:30 pm  
Location: Octavius 15–16  
Moderator(s): Zeeshan Sardar, Corinna Zygourakis  
Course Description: This course, held in partnership with the World Federation of Neurosurgical Societies Spine Committee, will review the role of global spine surgeons and how to work towards equal and affordable spine care worldwide. We will specifically focus on four aspects of global spine surgical care including surgical camps, training, education and health system, policy and advocacy. We hope participants will come away with knowledge of opportunities and understanding of how to contribute to all four aspects of global spine care. The course will incorporate international speakers discussing the issues facing them in spine care in their home countries, as well as a discussion of neurosurgery in war zones and building international referral networks.

SPECIAL COURSE 8  
New Concepts in Adult Spinal Deformity: Update from the SRS/IMAST  
3–5:30 pm  
Location: Octavius 13–14  
Course Directors: Kristen E. Jones, Eric Klineberg, Juan S. Uribe  
Course Description: This course collaboration between the Scoliosis Research Society and Spine Section highlights state-of-the-art clinical treatment strategies in adult spinal deformity. Synthesizing the latest high-impact research with expert opinion, this course provides a comprehensive update on the hottest topics in spinal deformity.
SPECIAL COURSE 9
Endoscopic and Minimally Invasive Cadaver Lab

3–5:30 pm
Location: Octavius 21–22
Course Directors: Christoph Hofstetter, John Ogunlade, Christopher Yeung
Course Description: Endoscopic techniques for spine surgery have evolved substantially and provide a convincing alternative to open or tubular surgery. Numerous studies have shown that these techniques yield similar or even better functional outcomes for patients, while also resulting in reduced infection rates, blood loss, hospital stays and reliance on pain medications. Improved effectiveness of endoscopic spine surgery has in part been attributed to the advancements in technology, which have led to substantial enhancements in visualization, magnification, instrument selection and surgeon ergonomics.

The primary objective of this cadaver course is to familiarize the participants with the basic and the advanced techniques of endoscopic spine surgery in cervical, thoracic and lumbar spine. By participating in this cadaveric course, the participants will obtain critical knowledge necessary to get started in adopting spine endoscopy into one's practice. Advanced endoscopists will also have a chance to hone their skills performing decompression and fusion techniques in cervical and lumbar spine, as well as in thoracic spine.

Supported by:

SPECIAL COURSE 10
Starting a Practice

3–5:30 pm
Location: Octavius 20
Course Directors: Owoicho Adogwa, Suzanne Tharin
Course Description: In this comprehensive course, you will hear from inspiring and innovative surgeons and scientists about strategies to enhance your success as an early career surgeon and investigator. The course will be beneficial to medical students, neurosurgery and orthopedic residents, as well as junior spine surgery faculty interested in maximizing their careers.
SPECIALTY BREAKOUT 2
Trauma/General Spine/Spinal Cord Injury Abstracts
7:30–9 am
Location: Octavius 13–14
Moderator(s): Jeffrey Hills, Yi Lu

SPECIALTY BREAKOUT 3
Tumor/General Spine Abstracts
7:30–9 am
Location: Octavius 15–16
Moderators(s): Kenneth Crandall, Scott Meyer

SPECIALTY BREAKOUT 4
Peripheral Nerve/Basic Science/General Spine Abstracts
7:30–9 am
Location: Octavius 17–18
Moderator(s): Christopher M. Bonfield, Daniel M. Hafez

SPECIALTY BREAKOUT 5
Spinal Deformity Abstracts
7:30–9 am
Location: Octavius 20
Moderator(s): Andrew K. Chan, Benjamin Elder

SPECIALTY BREAKOUT 6
General Spine/Basic Science Abstracts
7:30–9 am
Location: Neopolitan II
Moderator(s): Ian Dorward, Won Hyung Andrew Ryu
SCIENTIFIC SESSION 7
Spine Trauma: Update in Best Practices
9:30–11 am
Location: General Session Room — Octavius Ballroom
Moderator(s): Sanjay Dhall, Eve Tsai

PRESENTATIONS
9:30–9:32 am
Introduction
Sanjay Dhall, Eve Tsai

9:32–9:37 am
Imaging: MR/Tractography and Ultrasound for Spinal Cord Injury
Shekar N. Kurpad

9:38–9:43 am
Spinal Cord Decompression Following Traumatic Spinal Cord Injury
Bizhan Aarabi

9:44–9:49 am
Spinal Cord Injury in the Elderly
Anthony DiGiorgio

9:49–9:54 am
Q&A Session

9:55–10 am
Kenneth M. Crandall

10–10:06 am
Debate: Neurological Recovery After Early vs Delayed Surgical Decompression For Acute Traumatic Spinal Cord Injury — Pro
Michael G. Fehlings

10:06–10:12 am
Debate: Neurological Recovery After Early vs Delayed Surgical Decompression For Acute Traumatic Spinal Cord Injury — Con
Mohamad Bydon

10:13–10:18 am
Verdict and Discussion
Sanjay Dhall
WEDNESDAY

10:19–10:24 am
New Trails and Cell Therapies for Spinal Cord Injury
H. Francis Farhadi

10:25–10:30 am
Clinical Trials: Update on Immunotherapy and Spinal Cord Stimulator Trials
Ann M. Parr

10:31–10:36 am
Peripheral Nerve Transfers for Functional Recovery in Spinal Cord Injury
Stephen Shelby Burks

10:37–10:42 am
Research: Latest in Translating Spinal Cord Injury Research Into Humans
Eve Tsai

10:42–11 am
Q&A Session

SPECIAL SESSION

Business Tips, Pearls and Tactics

11:15 am–12:10 pm
Location: General Session Room — Octavius Ballroom

11:17–11:23 am
How to Use QI and Quality Outcomes for VBC and Employer Negotiations
Oren Gottfried

11:24–11:30 am
Improving Coding Issues and Reimbursement
Joseph Cheng

11:31–11:37 am
Using Big Data for Hospital Contracting
Jacob Greenberg

11:38–11:44 am
Role and Benefits of an MBA Mid Career
Cheerag Upadhyaya

11:45–11:51 am
How to Optimize the Finances of Practice in an Academic Setting
Nader Dahdaleh

11:52–11:58 am
Using Data/Research to Impact Policy
Luis M. Tumialan

11:59 am–12:10 pm
Q&A Session

THURSDAY

FRIDAY

WEDNESDAY

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Luis M. Tumialan

11:59 am–12:10 pm
Q&A Session

SATURDAY

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DSPN BUSINESS MEETING

12:10–12:30 pm
Location: General Session Room — Octavius Ballroom

12:10–12:12 pm
Chair’s Report
Eric A. Potts

12:13–12:15 pm
Treasurer’s Report
Juan S. Uribe

12:16–12:18 pm
Secretary’s Report
Luis M. Tumialan

12:19–12:21 pm
Nominating Committee Report
Adam S. Kanter

12:2–12:24 pm
CNS Board Report
Alexander A. Khalessi

12:25–12:27 pm
AANS Board Report
John Knightly

12:28–12:30 pm
Future Sites Committee Report
Joseph Cheng
BEVERAGE BREAKS

Thursday, February 22  10–10:30 am
Thursday, February 22  3–3:30 pm
Friday, February 23  9–9:45 am
Location: Exhibit Hall — Octavius Ballroom
PRESENTATIONS

Location: Exhibit Hall — Octavius Ballroom

**Thursday, Feb. 22**

10:18–10:28 am
**DuraPro Oscillating Drill: The Next Evolution in Powered Bone Cutting**
Sponsored by: Globus Medical

1:05–1:15 pm
**Karma: Is There a Better Fixation Option for the Aging Spine?**
Sponsored by: Spinal Elements

1:18–1:28 pm
**Favorable Results of MagnetOs as Standalone Alternative to Autograft in a Prospective, Multi-center, Randomized, Intra-patient Controlled Trial**
Sponsored by: Kuros Biosciences

3:05–3:15 pm
**TriALTIS™ Spine System: DePuy Synthes’ Next Generation System**
Sponsored by: Depuy Synthes

3:18–3:28 pm
**New Angle on Navigating the Future of Spinal Surgery**
Sponsored by: Pathkeeper Surgical/BoxSPINE

**Friday, Feb. 23**

9:18–9:28 am
**What’s New @ SI-BONE? Systematic Review and Meta-Analysis on SI Joint Fusion & iFuse TORQ® for Lateral Transiliac Procedures**
Sponsored by: Si-Bone

12:40–12:50 pm
**Ventana: Novel Concepts in 3D Printed Interbody Architecture**
Sponsored by: Spinal Elements

1:05–1:15 pm
**Emerging P-15 Peptide Mode of Action: Modulating the Cellular Response**
Sponsored by: Cerapedics

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**Thursday, Feb. 22**

**7–7:45 am**  
**Expanding the Role of Intraoperative Ultrasound in Spinal Cord Trauma and Advanced Minimally Invasive Techniques**  
**Location:** Neopolitan I  
**Speakers:** Timothy Chryssikos, Christoph Hofstetter, Praveen Mummaneni, Cheerag Upadhyaya  
**Description:** A deeper dive into how intraoperative ultrasound is incorporated into surgical workflows beyond oncology. This innovative technology allows the surgeon to access real time soft tissue imaging for various fusion procedures and assessing the spinal cord condition during critical trauma cases.  
**Sponsored by:** BK Medical, a GE HealthCare company

**12:45–1:30 pm**  
**Taking Robotic Surgery to the Next Level with the Latest Advancements in Imaging and Power Tools**  
**Location:** Neopolitan I  
**Speakers:** Micah Smith, Nicholas Theodore  
**Description:** Please join us to learn more about one of the latest additions to Globus Medical’s Excelsius® Technology Ecosystem. This surgeon lead workshop covers the latest in imaging workflow enhancements with ExcelsiusGPS® by highlighting the integration of Excelsius3D® and showing case examples using this technology. Learn from the surgeon leaders about the latest Globus® Power technologies and the added workflow benefits. Gain a better understanding of procedural workflows integrating this enabling imaging technology while learning more about the distinct clinical advantages offered by all of Globus Medical’s Enabling...
Technology. Surgical tips and techniques along with clinical case examples will enable attendees to leave this session with a better understanding of how to apply this technology in their O.R.

**Sponsored by:**
Globus Medical/Nuvasive

12:45–1:30 pm  
**Evidence-Based Graft — First Decision Making in High-Risk Patients**  
**Location:** Neopolitan II  
**Speaker:** Timothy Witham  
**Description:** A comprehensive look at the categories of bone graft products and the evidence available, with a focus on products with Level 1 data. We’ll review the patient population studied and the criteria used to assess fusion.  
**Sponsored by:** Cerepedics

12:45–1:30 pm  
**Medtronic Spinal Technologies Workshop**  
**Location:** Neopolitan III  
**Sponsored by:** Medtronic

12:45–1:30 pm  
**Proper Use of Legal Entities for Lawsuit Protection and Tax Reduction**  
**Location:** Neopolitan IV  
**Speaker:** Jason Porter  
**Description:** Legally Mine will show you how to stop the threat of lawsuits before they ever get started by protecting your assets in time tested and proven legal structures. These same structures allow us to help our tax attorneys save what you would normally pay in income taxes. These are little known tax helps that have significant case history and have stood the test of time.  
**Sponsored by:** Legally Mine

**Friday, Feb. 23**

6:45–7:30 am  
**Disruptive Innovations in Lumbar Interbody Fusion**  
**Location:** Neopolitan I  
**Speakers:** Mohamad Bydon, Michael Wang  
**Description:** Spineology® is consistently at the forefront of technological advancements in spine surgery. From open to MIS and endoscopic procedures, come learn how the top surgeons today are utilizing OptiMesh® in their practices and why there is no other spinal implant like this on the market.  
**Sponsored by:** Spineology

12:45–1:30 pm  
**Excelsius XLIF®: How Robotics & Advanced Neuromonitoring are Changing the Game**  
**Location:** Neopolitan I  
**Speakers:** Richard Hynes, J. Alex Thomas
Description: Join surgeon experts and us to learn more about the new Globus Medical XLIF® procedure that now features enabling neuromonitoring and robotic navigation technology. This session covers the XLIF® procedure, in the lateral decubitus and prone positions. The surgeon experts will discuss Transabdominal Muscle Action Potential (TMAP) with NVM5 as well as integration of ExcelsiusGPS® robotic navigation, into the XLIF® procedure. Please attend to hear about potential clinical benefits of these technologies and procedures, workflow tips and pearls and the unique advantages Globus Medical’s suite of technology provides.

Sponsored by: Globus Medical

12:45–1:30 pm
Adopting Navigation in Cervicothoracic Fusions: A Case Discussion
Location: Neopolitan II
Speaker: Griffin Baum
Description: Join Griffin Baum, MD, for a discussion on surgical techniques for cervicothoracic cases using the Q Guidance System with Spine Guidance Software and the Ziehm RFD 3D C-arm. Learn how he uses navigation to place Yukon and Everest spinal implants followed by an interactive live Q&A session.

Sponsored by: Stryker

12:45–1:30 pm
Transformative Technologies: Carbon/PEEK Implants in Spine Oncology
Location: Neopolitan III
Speakers: Shannon McDonald, John Shin
Description: Multidisciplinary spine tumor therapy approach at Massachusetts General Hospital. The role of the surgeon, the radiation oncologist and their collaboration utilizing Carbon/PEEK implants.

Sponsored by: icotec

12:45–1:30 pm
The Future VUE of MIS Surgery
Location: Neopolitan IV
Speakers: Wissam Asfahani, Michael Wang
Description: Join our esteemed faculty as they discuss the future VUE of MIS surgery through the VueLIF procedure enabled by the The DePuy Synthes TELIGEN™ System, an integrated technology platform that enables minimally invasive surgical procedures through digital tools for visualization and access.

Sponsored by: DePuy Synthes

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icotec
Legally Mine
Pacira
Spineology

SUPPORTERS
$10,000–$24,999
Accelus
Bioventus
BK Medical
elliquence
joimax
RIWOSpine
Spinal Elements
HOURS

Thursday: 9 am–4:30 pm
Friday: 9 am–1:45 pm
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<thead>
<tr>
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<td>306</td>
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<tr>
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<td>323</td>
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<tr>
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<td>309</td>
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<td>208</td>
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<td>109</td>
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<td>212</td>
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<td>219</td>
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<td>423</td>
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<td>308</td>
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<td><strong>Cerapedics</strong> cerapedics.com</td>
<td>417</td>
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<td>313</td>
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</tr>
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<td>312</td>
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<td>402</td>
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<td>508</td>
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<td>Globus Medical</td>
<td>418</td>
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<td>icotec Medical, Inc.</td>
<td>431</td>
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<td>Inova Health System</td>
<td>202</td>
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<td>Isto Biologics</td>
<td>528</td>
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<tr>
<td>Joimax</td>
<td>218</td>
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<tr>
<td>Kuros Bioscience</td>
<td>203</td>
</tr>
<tr>
<td>Lee Medical</td>
<td>315</td>
</tr>
<tr>
<td>Legally Mine</td>
<td>228</td>
</tr>
<tr>
<td>Life Instrument Corporation</td>
<td>408</td>
</tr>
<tr>
<td>Mainstay Medical</td>
<td>224</td>
</tr>
<tr>
<td>Medical Education &amp; Research Institute</td>
<td>427</td>
</tr>
<tr>
<td>Medical Metrics (SpineCAMP)</td>
<td>230</td>
</tr>
<tr>
<td>Medtronic Inc.</td>
<td>522</td>
</tr>
<tr>
<td>MiRus</td>
<td>123</td>
</tr>
<tr>
<td>NanoHive Medical</td>
<td>412</td>
</tr>
<tr>
<td>Neurosurgery Research &amp; Education Foundation</td>
<td>213</td>
</tr>
<tr>
<td>NovApproach Spine</td>
<td>304</td>
</tr>
<tr>
<td>NuVasive</td>
<td>422</td>
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<tr>
<td>Olympus America Inc.</td>
<td>222</td>
</tr>
<tr>
<td>Orthofix / SeaSpine</td>
<td>322</td>
</tr>
<tr>
<td>OssDsign</td>
<td>307</td>
</tr>
<tr>
<td>Pacira BioSciences, Inc.</td>
<td>530</td>
</tr>
<tr>
<td>PathKeeper Surgical</td>
<td>113</td>
</tr>
<tr>
<td>Company Name</td>
<td>Page</td>
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<td>Precise Bioscience</td>
<td>209</td>
</tr>
<tr>
<td>Providence Medical Technology</td>
<td>119</td>
</tr>
<tr>
<td>Realists Training Technologies GmbH</td>
<td>204</td>
</tr>
<tr>
<td>RIWOspine US</td>
<td>409</td>
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<tr>
<td>RosmanSearch</td>
<td>514</td>
</tr>
<tr>
<td>Sanara Med Tech</td>
<td>413</td>
</tr>
<tr>
<td>SI-BONE, Inc.</td>
<td>319</td>
</tr>
<tr>
<td>Silony Medical Corp</td>
<td>206</td>
</tr>
<tr>
<td>Spinal Elements, Inc.</td>
<td>225</td>
</tr>
<tr>
<td>Spine Wave, Inc.</td>
<td>415</td>
</tr>
<tr>
<td>Spineology Inc.</td>
<td>504</td>
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<tr>
<td>Stryker</td>
<td>405</td>
</tr>
<tr>
<td>Surgeons Capital Management</td>
<td>302</td>
</tr>
<tr>
<td>Surgical Theater, LLC</td>
<td>223</td>
</tr>
<tr>
<td>Synaptive Medical</td>
<td>107</td>
</tr>
<tr>
<td>TeDan Surgical Innovations</td>
<td>314</td>
</tr>
<tr>
<td>Tenon Medical, Inc.</td>
<td>316</td>
</tr>
<tr>
<td>Trend Medical</td>
<td>226</td>
</tr>
<tr>
<td>Tobra Medical, Inc.</td>
<td>303</td>
</tr>
<tr>
<td>UpSurgeOn SRL</td>
<td>105</td>
</tr>
<tr>
<td>Viomerse Inc.</td>
<td>103</td>
</tr>
<tr>
<td>Xtant Medical</td>
<td>216</td>
</tr>
<tr>
<td>ZSFab, Inc.</td>
<td>305</td>
</tr>
</tbody>
</table>
We look forward to seeing you in Chicago for the 2024 AANS Annual Scientific Meeting.
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**Rules & Regulations**

Please note that presenters, exhibitors and attendees are not allowed to record any presentations or sessions that are part of the 2024 Spine Summit. This includes any and all means of recording, including but not limited to video or audio recordings.

All sessions conducted during the Section on Disorders of the Spine and Peripheral Nerves 2024 Spine Summit, or as part of pre- or post-meeting content, are the sole and exclusive property of the Section on Disorders of the Spine and Peripheral Nerves and are not eligible for recording, pre-purpose or re-broadcast except by the Section on Disorders of the Spine and Peripheral Nerves.

Presenters or attendees found to be in violation of this policy will surrender their badges and be escorted from the meeting. The Section on Disorders of the Spine and Peripheral Nerves and AANS reserves the right to pursue and exercise any and all remedies available to it, whether in law or in equity, for violations of this policy.
Caesars Palace Conference Center
Palace Tower — Promenade Level

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bioventus — Sponsored Cadaver Lab

Wednesday, Feb. 21
3–5 pm
BoneScalpel — How Ultrasonic Bone Cutting Can Change Your Practice.

Location: Salerno

Description: Learn how Dr. Greg Mundis and Dr. Tiffany Perry utilize ultrasonic bone cutting to perform their surgeries more efficiently.

Overview: At the conclusion of this event, attendees should be able to understand the principles and benefits of ultrasonics, including bone preservation and the soft tissue sparing capabilities of BoneScalpel in MIS and complex cases.
The Neurosurgery Research & Education Foundation (NREF) is dedicated to funding groundbreaking research, providing extraordinary educational opportunities and supporting studies that identify links between best practices and improved outcomes in patient care.

Since its inception, the NREF has invested more than $30 million in neurosurgery, and through careful stewardship, the NREF has utilized contributions to its highest potential with support for:

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The American Spine Registry is Accepting New Sites

The American Spine Registry (ASR), a collaborative effort of the American Association of Neurological Surgeons and the American Academy of Orthopaedic Surgeons, is a national quality improvement registry for spine care.

The ASR provides national benchmarks and multiple data reuse opportunities for physicians and practices to improve care quality and patient outcomes.

The ASR has developed new resources to support data submission and usability and continues to expand support for all spine surgeons to participate.

neuropoint.org/ASR

Stop by the ASR Booth, #217 to speak with a representative regarding enrollment.
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