

SMISS Annual Forum **23**

OCTOBER 5-7, 2023

THE BELLAGIO | LAS VEGAS, NV



OCTOBER 5
OPTIONAL CADAVERIC LAB

OCTOBER 5-7
SCIENTIFIC PROGRAM

PRESIDENT



Frank
Phillips, MD

2023 ANNUAL FORUM DIRECTORS



Hyun
Bae, MD



Brandon
Carlson, MD, MPH



John
Chi, MD, MPH



Elizabeth
Yu, MD

JOINTLY PROVIDED BY:



Forum Highlights

- A renowned group of 80+ faculty
- Cadaveric Lab with **NEW** Innovative Technologies track & reduced fees
- 75+ free papers
- Over 50 exhibitors from medical device companies who are on the forefront of spine technology
- 10.75 hours of CME

DON'T MISS:

Case GPT: Real Dilemmas Solved by Real Intelligence

Motion Preservation—Flex Appeal. Case-based Presentations

Future of the Spine Metaverse: Navigation, Robotics, AR, and Emerging Technology

Wired, Tired, and Expired—Getting On and Off the Bandwagon

What Happens In Vegas, Stays In Vegas: Confessions from Cases We Regret

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Invited Faculty

Puya Alikhani, MD	Robert Eastlack, MD	Yoshihisa Kotani, MD, PhD	Cheol Wung Park, MD, PhD	Alexander Tuchman, MD
D. Greg Anderson, MD	Kevin Foley, MD	Brian Kwon, MD	Don Park, MD	Juan Uribe, MD
John Ashgar, MD	Jeffrey Gum, MD	Todd Lanman, MD	Luiz Pimenta, MD, PhD	Andrew Vivas, MD
Joel Beckett, MD, MHS	Daniel Hafez, MD, PhD	Ronald Lehman Jr., MD	Kornelis Poelstra, MD, PhD	Chris Yeung, MD
Sigurd Berven, MD	Roger Härtl, MD	Isador Lieberman, MD	Greg Poulter, MD	James Yue, MD
Ernest Braxton Jr., MD, MBA	Brandon Hirsch, MD	Joseph Lombardi, MD	Richard Price, MD, PhD	Jack Zigler, MD
Timothy Chryssikos, MD	Christoph Hofstetter, MD	Elizabeth Lord, MD	Jeffrey Roh, MD, MBA, MSc	<i>Faculty subject to change</i>
Richard Chua, MD	Sraivisht Iyer, MD	Philip Louie, MD	Rick Sasso, MD	
Domagoj Coric, MD	Andre Jakoi, MD	Francis Lovecchio, MD	Jonathan Sembrano, MD	
Jason Cuellar, MD, PhD	Roland Kent, MD	Jean-Pierre Mobasser, MD	Hardeep Singh, MD	
Tim Davis, MD	Armen Khachatryan, MD	James Mok, MD	Kern Singh, MD	
Peter Derman, MD	Larry Khoo, MD	Praveen Mummaneni, MD, MBA	Varun Singh, MD	
Vedat Deviren, MD	Han Jo Kim, MD	Venu Nemani, MD, PhD	Justin Smith, MD, PhD	
James Dowdell, MD	Terrence Kim, MD	Pierce Nunley, MD	Michael Steinmetz, MD	
	Jin Sung Kim, MD		William Taylor, MD	

Optional Cadaveric Lab *Non-CME-Accredited*



Join small learning groups with expert faculty to practice hands-on techniques. The labs are supported by various medical device companies.



NEW Innovative Technologies Track

Test the latest planning software, navigation systems, and robotics in the OR—where it counts. Attendees will rotate through 3-4 stations to get hands-on time with multiple systems.



Endoscopic Track

Uniportal? Biportal? What's in use today? Attendees will rotate through 3-4 stations to get hands-on time with multiple systems.



Young Surgeon Travel Grant



Applications Due

If you are a resident, fellow, or in the first 3 years of practice, apply today for our SMISS '23 Young Surgeon Travel Grant.

- Grant Recipients will receive a \$595 travel grant and free SMISS membership for 1 year.
- Attend at least two non-CME new technology workshops.
- Attend a Corporate Dinner.
- Attend a Young Surgeon Lunch.

Apply by August 14; notifications sent by August 21.

E-mail your CV to rgiven@broad-water.com to apply.



Submission Deadline

Call for Abstracts

The SMISS Annual Forum 2023 will enable surgeons, scientists, and researchers to present original clinical research results related to current or emerging techniques & technologies in Minimally Invasive Spine Surgery (MISS).

We hope you'll submit your research for consideration in the program.

Visit www.smisssmeeting.org to learn more.

Scientific Program

THURSDAY, OCTOBER 5, 2023

Session 1: Case GPT: Real Dilemmas Solved by Real Intelligence (Not CME-accredited)

5:00–7:15 pm

Debate: Cervical Spondylosis with Disc Collapse (Case with Cervical DDD with Severe Disc Collapse)

Debate: Why Should (or Shouldn't) I Care About Endoscopic?

Non-CME Tech Updates

Debate: Do I Need Full Autodrive on My Tesla or is Enhance Autopilot Enough?

Debate: Chat GPT Says that MIS Deformity in Spine Surgery is a Smoke Show

Non-CME Tech Updates

Debate: Getting More on the Side

FRIDAY, OCTOBER 6, 2023

7:30–8:20 am

Corporate Non-CME Workshops with Breakfast

Session 2: Lateral/SOLAS Session

8:25–10:30 am

Lateral Access Techniques—Tips from the Experts

Transpsoas

Ante-psoas

Prone Lateral

Navigation and Monitoring Advancements

Technique Selection and Complication Avoidance—Levels, Crest, Psoas, and Vessels—What I Analyze in Every Case to Stay Out of Trouble

Unique LLIF Case—Rapid Fire

Adjacent Segment Lumbar Spondylolisthesis—A Great Case for Prone

LLIF for Pseudarthrosis with TLIF Cage Removal

Multilevel LLIF for Deformity Correction

LLIF MIS Corpectomy

The Tools We Use, But Why?

LLIF Cage Technology Evidence: Materials, Static and Expandable

Graft Material in LLIF Evidence: Proteins, Allografts, Synthetics

Neuromonitoring Evidence: MEPs, tEMG, SSEP tMAP, and Saphenous Monitoring

Lateral Access Complication Management

Quadriceps Palsy—The Evidence and Management Strategies

Vessel Injury—Who's on Call? How to Manage while Lateral vs. Prone

Diaphragm Laceration in the Upper Lumbar Spine

Approach-side Complications: Pseudo-Hernia, Groin/Thigh Pain, Hematomas

10:30 am

Refreshment Break with Exhibits

Concurrent Sessions 3 & 4: Free Papers

11:00 am–12:10 pm

12:10–1:00 pm

Lunch & Young Surgeon Lunch

Concurrent Session 5: Motion Preservation—Flex Appeal. Case Based Presentations

1:00–2:20 pm

The Lay-Up: Tips and Tricks of Cervical Arthroplasty. Does the Device Matter?

The Free Throw: Hybrid and Multilevel Cervical Arthroplasty

The Three Pointer: Myelopathy, Collapsed Discs and Spondylosis

Should I Be Concerned: Is it Osteolysis, Infection, or Bone Resorption

I'm Confused—Real life Data is not as Good as the Data Form the IDE?

Go Big or Go Home: Lumbar Disc Replacement—Interesting Cases

Opioids and Spine Surgery

Opioid-free Spine Surgery

Concurrent Session 6: Deformity

1:00–2:20 pm

Avoid Creating Deformity with MIS

Every Case Is a Deformity Case...You're Either Correcting It or Creating It. A Crash Course in Alignment, Lordosis, & Important Parameters

TLIF vs LLIF vs ALIF: How Good Is Your Lordosis?

L4-S1 Surgeries: Get it Right! It's the Foundation for All Future Operations

The MIS Deformity Toolbox

Multilevel Anterior Column Reconstruction

Expandable Technology and 3D-printed Patient-specific Cages

MIS Pelvic Fixation

Navigation, Robotics, and Preoperative Planning

Sagittal Plane Deformity

Flexible Deformity: A Case for MIS Reconstruction

Fixed Deformity: A Case for Hybrid or Open Reconstruction

Lateral ACR: When and When Not to Use It

MIS PSO: Case Example, Tips and Tricks

Open vs. MIS Surgeon Perspectives

I'm an Open Surgeon: Here are the Challenges I have Encountered when Revising Failed MIS Cases

I'm a MIS Surgeon: Here Are the Cases I'll Tackle and Why MIS Can Be Better Than Open

I'm an Open and MIS Surgeon: My Keys to Deciding which Approach is Best for Each Case

2:20 pm

Refreshment Break with Exhibits

Session 7: Presidential Address, Awards, and Keynote (Not CME-accredited)

2:50–3:35 pm

Presidential Address

Grants and Awards Recognition

Keynote Address

Scientific Program *continued*

Session 8: Future of the Spine Metaverse: Navigation, Robotics, AR, and Emerging Technology (Not CME-accredited)

4:00–5:55 pm

History and Evolution of Minimally Invasive Spine Surgery—Where Are We Now?
 How Do You Start? (Adopting New Techniques)
 Robotics
 AR/VR
 Navigation—When Do I Use It? (MIS with Standard Fluoro Versus Navigation)
 Non CME Tech Updates

Case Debates—Advantages and Disadvantages of Navigation

Degen Case—Use Navigation
 Degen Case—Why No Navigation
 Deformity Case—Use Navigation
 Deformity Case—Why No Navigation
 Convincing your Hospital to Invest in Navigation/Robotics/AR/VR (Economics)
 Using AI for Preoperative Planning

6:00–7:00 pm

Welcome Reception in Exhibit Hall

SATURDAY, OCTOBER 7, 2023

7:30–8:20 am

Corporate Workshops with Breakfast

Session 9: Endoscopy: Is This an Atmospheric River or a Moving Front That Will Turn Cold?

8:25–10:30 am

Why I Use Endoscopy in Spine Surgery
 Uniportal Endoscopy
 Biportal Endoscopy
 How I Started Endoscopy from a Regular Spine Practice
 Endoscopic Assisted Fusion
 Pitfalls of Endoscopy
 Cervical Foraminotomy Case
 Lumbar Foraminotomy case
 Debate:
 • Tubular is Good Enough
 • Smaller is Better

10:30 am

Refreshment Break with Exhibits

Concurrent Sessions 10 & 11: Free Papers Rapid Fire

11:00 am–12:10 pm

12:00 pm

Boxed Lunch Pick up in Exhibit Hall/Last Chance Exhibit Viewing

Session 12: Wired, Tired and Expired—Getting On and Off the Bandwagon

12:20–2:00 pm

Part i: Wired (Hot New Items)

Sacroiliac Fusion in Long Constructs
 • My Patients Do Better with SI Fusion
 • Not Sure the Costs Justify the Means
 Posterior Based Facet Replacement—Disc Replacement
 • This is the Next Bandwagon
 • I’m Definitely Not Getting on That Train
 Machine Learning and AI for Treatment Planning
 • This Is the Future, Chat GPT FTW
 • We’re Not There Yet...

Part ii: Tired (On Their Way Out of Style)

Promises For Low Back Pain
 • Thermal Treatment: Where is the Impact?
 • Stem Cells, PRP and Molecules: Where Are We?
 • This is Just a Grab for \$\$
 PEEK Spacers for Interbody Fusion
 • This isn’t Your Daddy’s PEEK—Porous/Titanium Blasted Devices are Non-inferior to the Expensive 3D-printed Cages
 • We’ve Been There and Done That. Titanium is King Now

Part iii: Expired (Completely Debunked)

• Trans 1: What Happened? Lessons Learned

Session 13: What Happens in Vegas, Stays In Vegas: Confessions from Cases We Regret

2:00–2:45 pm

XLIF/DLIF Case
 MIS TLIF Case
 Navigation/Robot Case Gone Bad
 Endoscopic Case
 Arthroplasty Case

WHAT I FIND MOST VALUABLE ABOUT THE SMISS PROGRAM IS...

“A room full of intelligent, like-minded, highly skilled surgeons, sharing their thoughts on approaches, how they themselves innovated techniques, overall collaborating to improve processes, and even discuss “controversies.”

—2022 Attendee

Registration

Scientific Program Registration Fees

Registration Type	Early By September 4	Onsite After September 4
Surgeon	\$675 (member) \$825 (non-member)	\$775 (member) \$925 (non-member)
Physician Assistant/Nurse/Nurse Practitioner	\$425 (member) \$575 (non-member)	\$525 (member) \$675 (non-member)
Resident/Fellow/Medical Student	\$425 (member) \$575 (non-member)	\$525 (member) \$675 (non-member)
Surgeon-Emerging Country*	\$475 (member) \$575 (non-member)	\$475 (member) \$575 (non-member)

*Practice in Lower or Lower-Middle Income Country as defined by the World Bank

Optional Cadaveric Lab Registration Fees

Lab registration is an optional add-on with Annual Forum scientific program registration. Includes transportation to and from the lab, breakfast, lunch, and all lab materials.

NEW LOWER REGISTRATION FEES FOR 2023

Member: \$550

Non-Member: \$650

WHAT I FIND MOST VALUABLE ABOUT
THE SMISS PROGRAM IS...

*“[The] cutting-edge content.
Discussion of complications
and management strategies
of MIS techniques.”*

—2022 Attendee



Hotel Accommodations



LOCATION

The Bellagio | 3600 S Las Vegas Blvd
Las Vegas, NV 89109



RESERVATIONS PROCEDURE

Make your reservations by:
September 4th, 2023

Or call toll-free and mention group name
SMISS Annual Forum: 888-987-6667



ROOM RATES

Wednesday, October 4th and Thursday, October 5th
Resort Room: \$239
(+taxes and daily resort fee)

Friday, October 6th and Saturday, October 7th
Resort Room: \$279
(+taxes and daily resort fee)

The discounted rates may not be available after September 4th or if our room block sells out. Please reserve your room early to ensure availability.



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CME Information

Target Audience

This course is designed for orthopaedic and neurological surgeons, fellows, and residents.



Learning Objectives

As a result of this activity, the participant should be better able to:

- Describe the rationale, advances, surgical tips, and complications associated with current MISS techniques.
- Discuss evaluation, decision making, and MISS options for the management of spinal deformity, cervical and lumbar degenerative, trauma, and tumor conditions.
- Describe current best practices for various MISS emerging technologies including robotics and AI.
- Discuss healthcare economics in MISS, including ASCs and future technology.

Joint Providership

This program is jointly provided by Medical Education Resources, Inc. and SMISS.



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

Physician Accreditation

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 Medical Education Resources (MER) and SMISS. MER is accredited by the ACCME to provide continuing medical education for physicians.

Physician Credit

MER designates this live activity for a maximum of 10.75 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclosure of Conflicts of Interest

Medical Education Resources insures balance, independence, objectivity, and scientific rigor in all our educational activities. In accordance with this policy, MER identifies conflicts of interest with its instructors, content managers, and other individuals who are in a position to control the content of an activity. Conflicts are resolved by MER to ensure that all scientific research referred to, reported, or used in a CME activity conforms to the generally accepted standards of experimental design, data collection, and analysis. MER is committed to providing its learners with high-quality CME activities that promote improvements or quality in health care and not the business interest of an ineligible company.

FDA (United States)

Some drugs and medical devices demonstrated during this course have limited FDA labeling and marketing clearance. It is the responsibility of the physician to be aware of drug or device FDA labeling and marketing status.

Commercial Support

Various medical companies have been invited to exhibit and provide grants for this course. Full disclosure of financial and other support will be provided in the course materials.

Disclaimer

SMISS, MER, and BroadWater disclaim any and all liability for injury or other damages resulting to any individual attending a scientific meeting and for all claims that may arise out of the use of techniques demonstrated therein by such individuals, whether these claims shall be asserted by a physician or any other person.

WHAT I FIND MOST VALUABLE ABOUT THE SMISS PROGRAM IS...

“[The] Ability to talk and discuss MIS issues with my beloved colleagues.”

—2022 Attendee

For Information or Assistance

Society for Minimally Invasive Spine Surgery c/o BroadWater | T: (630) 681-1040 | E: cbessette@broad-water.com | W: www.smisssmeeting.org