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
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

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Cheol Wung Park, MD, PhD
Don Park, MD
Luiz Pimenta, MD, PhD
Kornelis Poelstra, MD, PhD
Greg Poulter, MD
Richard Price, MD, PhD
Jeffrey Roh, MD, MBA, MSc
Rick Sasso, MD
Jonathan Sembrano, MD
Hardeep Singh, MD
Kern Singh, MD
Varun Singh, MD
Justin Smith, MD, PhD
Michael Steinmetz, MD
William Taylor, MD

Faculty subject to change
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.

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**Young Surgeon Travel Grant**

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.

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**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.smissmeeting.org](http://www.smissmeeting.org) to learn more.
### 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 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)*

**2:50–2:35 pm**

- Presidential Address
- Grants and Awards Recognition
- Keynote Address
### 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

#### 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

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**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

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**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

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<th>Registration Type</th>
<th>Early By September 4</th>
<th>Onsite After September 4</th>
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<td>Surgeon</td>
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*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

RESERVATIONS PROCEDURE
Make your reservations by:
September 4th, 2023
Or call toll-free and mention group name
SMISS Annual Forum: 888-987-6667

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

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.

This annual forum is being held in Las Vegas, Nevada, from October 5th to 7th, 2023.

FOLLOW SMISS ONLINE  |  Connect at www.smissmeeting.org or any SMISS social media outlet.

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CME Information

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

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
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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.

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.

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

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

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

“[The] Ability to talk and discuss MIS issues with my beloved colleagues.”
—2022 Attendee