

8th Annual SSF Robotics Course aka "Everything Cool in Spine Surgery" Saturday, December 9, 2023

AGENDA

- 7 a.m. **Registration & Breakfast**
- 7:30 a.m. **Welcome, Introductions, Course Overview**
Doniel Drazin, M.D., Isador Lieberman, M.D., M.B.A., J. Patrick Johnson, M.D. & Jens R. Chapman, M.D.
- 7:35 a.m. **Expanding the Frontiers of Technology-Assisted Surgery**
Roger Hartl, M.D. (virtual)
Objectives:
- Describe examples on the state of robotic-assisted surgery today
 - Outline the expanding frontiers of technology-assisted surgery
 - Present cases that illustrate the expanding frontiers of technology-assisted surgery
- 7:50 a.m. **Q & A**
- 7:55 a.m. **Artificial Intelligence and Pre-Operative Planning**
Isador Lieberman, M.D., M.B.A.
Objectives:
- Elucidate the types of cases that would benefit from preoperative planning
 - Demonstrate a typical case of preoperative planning
 - Update on AI
- 8:10 a.m. **Q & A**
- 8:15 a.m. **Lumbo-pelvic Fixation for Deformity with Navigation and/or Robotics**
David Polly, M.D.
Objectives:
- Identify which cases are suitable for SI fusion
 - Describe steps to perform MIS robotic-assisted SI fusion
 - Describe steps to perform Navigation-assisted SI fusion
- 8:30 a.m. **Q & A**
- 8:35 a.m. **Convincing Your Hospital to Invest in Navigation/Robotics/AR/VR**
Terrence Kim, M.D.
Objectives:
- Evaluate the cost of navigation and robotics
 - Illustrate the barriers to implementing assistive technologies in your hospital
 - Define talking points to hospital administrators why technology is essential for advancing patient care and outcomes
- 8:50 a.m. **Q & A**

8:55 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 1**
Navigated Lumbar-Pelvic Fixation

David Polly, M.D.

Objectives:

- Outline the workflow for setting up a SI surgery
- Demonstrate the nuances of performing the surgery
- Illustrate the pearls of performing the surgery

9:25 a.m. **Q & A**

9:30 a.m. **Pearls and Pitfalls of Technology-Assisted Surgeries**

Moderator: Doniel Drazin, M.D. and J. Patrick Johnson, M.D.,

Panel: Isador Lieberman, M.D., M.B.A., Terrence Kim, M.D., David Polly, M.D., Andrew Manista, M.D. &

Objectives:

- Outline pearls for successful robotic-assisted surgeries
- Contrast pitfalls of unsuccessful robotic-assisted surgeries
- Identify and evaluate lessons learned from failures of robotic-assisted surgeries

10:05 a.m. **Q & A**

10:10 a.m. **Break & Exhibits** (not for CME Credit)

10:25 a.m. **The Good, The Bad, & The Ugly of Spinal Robotics**

Kevin Foley, M.D. (virtual)

Objectives:

- Update on the current state of spinal robotic technologies
- Describe advantages, limitations, and future needs of spinal robots

10:40 a.m. **Q & A**

10:45 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 2**
Robotic-Assisted Cervical Pedicle Screws

Michael Gallizzi, M.D.

Objectives:

- Demonstrate robotic-assisted cervical fusion
- Demonstrate minimally invasive cervical fusion using robotic assistance
- Employ robotic-assisted surgery in the cervical spine using different techniques

11:15 a.m. **Q & A**

11:20 a.m. **The 2024 Update on Augmented Reality in Spine Surgery**

Chester Donnally, M.D. (virtual)

- Define Augmented Reality
- Explain open vs. percutaneous, is this technology great for both?
- Describe what is on the horizon for augmented reality technology in 2024

11:35 a.m. **Q & A**

11:40 a.m.

Live Demonstration Broadcast from BioSkills Lab No. 3
Robotic Assisted Thoracolumbar Fusion

Anderew Manista, M.D.

Objectives:

- *Demonstrate robotic-assisted thoracolumbar fusion*
- *Demonstrate minimally invasive thoracolumbar fusion using robotic assistance*
- *Employ robotic-assisted surgery in the thoracolumbar using different techniques*

12:10 p.m.

Q & A

12:15 p.m.

Lunch Break & Exhibits (working lunch)

12:30 p.m.

MIS & Robotics: Pearls of My Practice

Ali Anissipour, M.D. (virtual)

Objectives:

- *Navigate learning curve challenges of robotics in spine surgery*
- *Describe pearls of practice to equip colleagues to minimize complications*
- *Illuminate the future of spine surgery by exploring the possibilities that emerge from facet decortication*

12:45 p.m.

Q & A

12:50 p.m.

Live Demonstration Broadcast from BioSkills Lab No. 4
Minimally Invasive Robotic Arthrodesis

Terrence Kim, M.D.

Objectives:

- *Exemplify planning and workflow of minimally invasive robotic-assisted arthrodesis*
- *Demonstrate minimally invasive robotic assisted facet decortication*
- *Execute bone graft placement using robotic guidance*

1:20 p.m.

Q & A

1:25 p.m.

Current & Emerging Trends in Imaging and Robotics

Nicholas Theodore, M.D. (pre-recorded)

Objectives:

- *Describe the current emerging trends in imaging*
- *Outline the current indication for utilizing robotics in spine surgery*
- *Predict emerging trends in the future of spine surgery*

1:40 p.m.

Q & A

1:45 p.m.

End of CME Accredited Content

- 2:15 p.m. **Introducing Expanded Existence - Building the Surgical Metaverse-AI Enhanced Surgery**
Jeff Larson, M.D.
- 2:30 p.m. **Q & A**
- 2:35 p.m. **Open Technology Experience** (in Lab)
- 3:15 p.m. **Adjourn**

DISTINGUISHED FACULTY

J. Patrick Johnson, M.D.

Course Co-Chair
Co-Medical Director, Spine Center
Vice Chair, Neurosurgery
Cedars-Sinai Medical Center
Los Angeles, California

Doniel Drazin, M.D.

Course Co-Chair
Neurosurgeon
Seattle, Washington

Isador Lieberman, M.D., M.B.A.

Course Co-Chair
Orthopaedic Spine Surgeon
Texas Back Institute
Plano, Texas

Jens R. Chapman, M.D.

Course Co-Chair
Complex Spine Surgeon
Swedish Neuroscience Institute
Seattle, Washington

Ali Anissipour, D.O. (virtual)

Orthopedic Spine Surgeon
WWMG Everett Gateway Center - Orthopedics
Everett, Washington

Chester Donnally, M.D. (virtual)

Orthopedic Spine Surgeon
Texas Spine Consultants
Plano, Texas

Kevin Foley, M.D. (virtual)

Professor of Neurosurgery, Orthopaedic Surgery, & Biomedical
Engineering
University of Tennessee Health Science & Semmes Murphey
Clinic
Memphis, Tennessee

Michael Gallizzi, M.D.

Robotic & Endoscopic Spine Surgeon
The Steadman Clinic
Vail, Colorado

Roger Hartl, M.D. (virtual)

Hanson-MacDonald Professor of Neurological Surgery and Di-
rector of Spinal Surgery
Weill Cornell Medicine Brain and Spine Centers
New York, New York

Terrence Kim, M.D.

Co-Director of Education & Spine Fellowship
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Jeffrey Larson, M.D.

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Andrew Manista, M.D.

Orthopaedic Surgeon
Olympia Orthopaedic Associates
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David Polly, M.D.

Professor & Chief of Spine Surgery Department of Orthopedic
Surgery
University of Minnesota Medical School
Minneapolis, Minnesota

Nicholas Theodore, M.D., M.S. (pre-recorded)

Director, Neurosurgical Spine Center & Professor of
Neurosurgery
Johns Hopkins Medicine
Baltimore, Maryland

Surgical Demonstrations Supported by Swedish Neuroscience Institute Fellows

Bryan Anderson, D.O., Donald Davis III, M.D., Neel Patel, M.D., & Gautam Rao, M.D.