



**7<sup>th</sup> Annual SSF Robotics Course  
aka “Everything Cool in Spine Surgery”  
Saturday, December 10, 2022**

**AGENDA**

7 a.m. **Registration & Breakfast**

7:30 a.m. **Welcome, Introductions, Course Overview**  
*Doniel Drazin, M.D., Isador Lieberman, M.D., J. Patrick Johnson, M.D. & Jens R. Chapman, M.D.*

7:35 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 1**  
**Nuances of Pre-Operative Planning**

*Isador Lieberman, M.D.*

**Objectives:**

- *Elucidate the types of cases that would benefit from preoperative planning*
- *Demonstrate a typical case of preoperative planning*
- *Summarize the key steps needed to plan a case, preoperatively*

7:55 a.m. **Q & A**

8 a.m. **Robotic-Assisted Thoracolumbar Deformity Correction**

*Terrence Kim, M.D.*

**Objectives:**

- *Outline the literature on robotic- assisted thoracolumbar surgery*
- *Review the indications for robotic-assisted thoracolumbar surgery*
- *Illustrate the workflow for a robotic-assisted thoracolumbar surgical case*

8:15 a.m. **Q & A**

8:20 a.m. **Expanding the Frontiers of Robotic-Assisted Surgery (virtual)**

*Timur Urakov, M.D.*

**Objectives:**

- *Describe examples on the state of robotic assisted surgery today*
- *Report on the expanding frontiers of robotic-assisted surgery*
- *Demonstrate a few cases that illustrate the expanding frontiers of robotic-assisted surgery*

8:35 a.m. **Q & A**

8:40 a.m. **Minimally Invasive Robotic-Assisted Single Position Surgery**

*Martin Pham, M.D.*

**Objectives:**

- *Review the literature on minimally invasive robotic-assisted single position surgery*
- *Identify which cases are suitable for single position surgery*
- *Describe the steps that are needed to perform mis robotic assisted single position surgery*

8:55 a.m. **Q & A**

9 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 2**  
**Robotic Single Position Oblique L4-S1 Fusion**

*Martin Pham, M.D.*

**Objectives:**

- *Outline the workflow for setting up a robotic single position surgery*
- *Demonstrate the nuances of performing the oblique corridor for the fusion*
- *Illustrate the pearls of performing this single position oblique fusion*

**Objectives:**

- Xxx
- Xxx

9:30 a.m. **Q & A**

9:35 a.m. **Pearls and Pitfalls of Robotic-Assisted Surgeries**

*Moderator: Doniel Drazin, M.D.*

*Isador Lieberman, M.D., Terrence Kim, M.D., Martin Pham., M.D. & J. Patrick Johnson, M.D., Andrew Manista, M.D.*

**Objectives:**

- *Discuss pearls of successful robotic-assisted surgeries*
- *Contrast pitfalls of unsuccessful robotic-assisted surgeries*
- *Identify and evaluate on 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. **Robotic-Assisted Cervical Pedicle Screws**

*Isador Lieberman, M.D.*

**Objectives:**

- *Summarize the literature on robotic-assisted cervical instrumentation*
- *Explain the challenges of the robotic-assisted cervical pedicle screws*
- *Identify the indications for robotic-assisted cervical surgery*

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

10:45 a.m. **Live Demonstration Broadcast from BioSkills Lab No. 3**

**Robotic-Assisted Open and MIS Fusion**

*Andrew Manista, M.D.*

**Objectives:**

- *Describe robotic-assisted open thoracic fusion*
- *Produce minimally invasive thoracic fusion using robotic assistance*
- *Employ robotic assisted surgery in the thoracic spine using different techniques*

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

11:20 a.m. **How Does One Decide Between Robotics and Navigation?**

*Chester Donnally, M.D.*

**Objectives:**

- *Compare the utility of robotics vs navigation for spine surgery*
- *Discuss the common decisions that need to be made when one is deciding on which technology to utilize*
- *Analyze the various pearls and pitfalls of each technology*

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

11:40 a.m. **Current & Emerging Trends in Endoscopic Spine Surgery**

*Christoph Hofstetter, M.D., Ph.D.*

**Objectives:**

- Describe the current from emerging trends in endoscopic spine surgery
- Outline the current indication for utilizing endoscopy in the spine
- Predict emerging trends in endoscopic spinal surgery

11:55 a.m. **Q & A**

**12 p.m. End of CME Accredited Content**

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12 p.m. **Lunch Break & Exhibits**

12:30 p.m. **Paradigm Shift In Spinal Oncology: Carbon Implants & Intraoperative Radiotherapy (virtual)**  
*Ehab Shiban, Ph.D., Dr. med.*

12:50 p.m. **Q & A**

12:55 p.m. **Live Demonstration Broadcast from BioSkills Lab No. 4**  
**FLASH Navigation with 7D Technology**  
*Beau Standish, Ph.D. & Jeff Larson, M.D.*

1:20 p.m. **Q & A**

1:25 p.m. **The Brainlab Robotic Suite (virtual)**  
*Praveen Mummaneni, M.D., M.B.A.*

1:40 p.m. **Q & A**

1:45 p.m. **Technology Lab Interviews**  
*Doniel Drazin, M.D.*

2 p.m. **Hands-on Technology Showcase**  
*All Faculty*

Practice the following procedures/techniques:

- Robotic-assisted spine surgery: Medtronic & Globus
- Mobile robotic imaging: BrainLab
- Image-guided open navigation platform: 7D/SeaSpine
- Clarity through advanced imaging and intraoperative guidance systems: Stryker

3 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

**Isador Lieberman, M.D.**  
Course Co-Chair  
Orthopaedic Spine Surgeon  
Texas Back Institute  
Plano, Texas

**Doniel Drazin, M.D.**  
Course Co-Chair  
Neurosurgeon  
Seattle, Washington

**Jens R. Chapman, M.D.**  
Course Co-Chair  
Complex Spine Surgeon  
Swedish Neuroscience Institute  
Seattle, Washington

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**Chester Donnally, M.D.**  
Minimally Invasive & Complex Spine Surgeon  
Texas Spine Consultants  
Addison, Texas

**Christoph Hofstetter, M.D., Ph.D.**  
Associate Professor of Neurological Surgery  
University of Washington  
Seattle, Washington

**Terrence Kim, M.D.**  
Co-Director of Education & Spine Fellowship Program  
Assistant Professor Department of Orthopaedics  
Cedars-Sinai Medical Center  
Los Angeles, California

**Jeffrey Larson, M.D.**  
Neurosurgeon  
Coeur d'Alene Spine and Brain  
Coeur d'Alene, Idaho

**Andrew Manista, M.D.**  
Orthopaedic Surgeon  
Olympia Orthopaedic Associates  
Olympia, Washington

**Praveen Mummaneni, M.D., M.B.A. (virtual)**  
Director Cervical Spine &  
MIS Spine Surgery Programs  
Co-Director, UCSF Spine Center  
Vice Chair, Neurosurgery  
University of California San Francisco  
San Francisco, California

**Martin H. Pham, M.D.**  
Associate Professor  
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**Ehab Shiban, Ph.D., Dr. med. (virtual)**  
Neurosurgery Department  
University Hospital of Augsburg  
Germany

**Beau Standish, Ph.D.**  
Chief Executive Officer  
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Toronto, Ontario

**Timur Urakov, M.D. (virtual)**  
Neurosurgeon  
University of Miami  
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