



10th Annual
SSF Spine Masters Course
Insights for Seasoned Spine Surgeons

Saturday, June 18, 2022

DISTINGUISHED FACULTY

Neel Anand, M.D. (virtual)

Director of Spine Trauma
Cedars-Sinai Medical Center
Los Angeles, California

Jens R. Chapman, M.D.

Course Co-Chair

Complex Spine Surgeon
Swedish Neuroscience Institute
Seattle, Washington

Roger Härtl, M.D. (virtual)

Professor of Neurological Surgery &
Director of Spinal Surgery and Neurotrauma
Weill Cornell Brain and Spine Center
New York, New York

Roland Kent, M.D.

Spine Surgeon & Co-Founder
Axis Spine Center
Coeur D'Alene, Idaho

Rod J. Oskouian, Jr., M.D., FAANS

Course Co-Chair

Chief of Spine
Swedish Neuroscience Institute
Seattle, Washington

Christopher I. Shaffrey, M.D.

Chief of Spine and Orthopaedics
Duke University School of Medicine
Durham, North Carolina

Michael Wang, M.D. (virtual)

Chief of Neurosurgery
University of Miami Hospital
Miami, Florida

Vincent Arlet, M.D. (virtual)

Chief of Adult Spinal Deformity Surgery
Penn Medicine
Philadelphia, Pennsylvania

Prof. Jean Dubousset (virtual)

Keynote Speaker

Neurosurgeon
Académie National de Médecine
Paris, France

Noojan Kazemi, M.D., FACS, FRACS

Associate Professor
University of Arkansas for Medical Sciences
Little Rock, Arkansas

Lawrence G. Lenke, M.D. (virtual)

Surgeon-in-Chief
Och Spine Hospital at New York-Presbyterian/Allen
Chief of Spinal Surgery
Columbia University
New York, New York

Luiz Pimenta M.D., Ph.D.

Medical Director
Instituto de Patologia da Coluna
Sao Paulo, Brazil

Prof. Dr. Christoph Siepe (virtual)

Professor, Spinal Endoscopy
Schoen Clinic
Munich, Germany

Surgical Demonstrations Supported by Swedish Neuroscience Institute Fellows

Yevgeniy Freyvert, M.D., Zachary Tataryn, M.D., Jerry Robinson, M.D., Jared Cooke, D.O.,
Nathan Pratt, M.D. & Jonathan Plümer, M.D.

AGENDA

7:25 a.m. **Welcome and Introductions**
Rod J. Oskouian, Jr., M.D., Jens R. Chapman, M.D.

7:30 a.m. **Keynote Presentation (virtual)**
Scoliosis at Any Age is a Horizontal Plane Deformity
Prof. Jean Dubousset

Objectives:

- Outline spinal balance and scoliosis
- Summarize the principles of deformity
- Describe the cone of economy

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

8 a.m. **Live BioSkills Lab Demonstration # 1**
Robotic Pedicle Screw Placement
Noojan Kazemi, M.D. & Nathan Pratt, M.D.

Objectives:

- Discuss the advantages of robotic screw placement (timing accuracy, cost)
- Outline tips for troubleshooting and error prevention
- Describe what to do if the robot fails

8:30 a.m. **Spinal Endoscopy: Going Mainstream? (virtual)**
Prof. Dr. Christoph Siepe

Objectives:

- Describe the process for patient selection
- Evaluate when to use an endoscope vs. microscope
- Identify advantages of endoscope over microscope surgery

8:45 a.m. **Q & A**

8:50 a.m. **Spinopelvic Fixation**
Roland Kent, M.D.

Objectives:

- Differentiate iliac vs. S2Al techniques
- Identify structures at risk
- Describe technique for stacked implants

9:05 a.m. **Q & A**

9:10 a.m. **Anterior vs. Posterior for Deformity Surgery (virtual)**
Vincent Arlet, M.D.

Objectives:

- Outline the principles of anterior correction being tailored to patient needs
- Describe how to choose between lateral surgery and anterior surgery
- Discuss the choice between anterior surgery or posterior surgery: ACR or PSO?

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

9:30 a.m.

Live BioSkills Lab Demonstration # 2

Pelvic Fixation Techniques

Roland Kent, M.D. & Jared Cooke, D.O.

Objectives:

- Identify indications for various types of lumbopelvic fixation
- Outline the anatomic and radiographic landmarks for safe instrumentation techniques
- Describe modified applications such as quad rods and multi screw iliac fixation

10 a.m.

The Latest Update on Proximal Junctional Kyphosis (PJK)

Christopher I. Shaffrey, M.D.

Objectives:

- Describe how to prevent PJK
- Outline the causes of PJK
- Summarize the role bone density has on PJK

10:15 a.m.

Q & A

10:20 a.m.

Break & Exhibits *(not for CME credit)*

10:30 a.m.

Does MIS Have a Role in Adult Deformity Surgery? *(virtual)*

Roger Härtl, M.D.

Objectives:

- Summarize how to avoid complications in MIS surgery
- Describe fusion rates
- Outline when to use pelvic fixation

10:45 a.m.

Q & A

10:50 a.m.

Live BioSkills Lab Demonstration # 3

Posterior Thoracolumbar Techniques for Deformity Correction

Christopher I. Shaffrey, M.D. & Zachary Tataryn, M.D.

Objectives:

- Outline osteotomy techniques
- Describe how and when to use expandables
- Compare and contrast VCR vs. PSO vs. Smith Peterson

11:10 a.m.

The Most Difficult Cases of My Career *(virtual)*

Lawrence G. Lenke, M.D.

Objectives:

- Summarize important lessons learned from difficult cases
- Describe when to use neuromonitoring
- Explain how much correction is too much correction

11:25 a.m.

Q & A

11:30 a.m.

Why Go Prone vs. Lateral

Luiz Pimenta, M.D., Ph.D.

Objectives:

- Describe the technique and nuances of lateral access surgery in the prone position
- Describe indications, contraindications and applications of lateral prone position surgery for degenerative and deformity conditions
- Describe intra-operative techniques that optimize TDR implant performance

11:45 a.m. Q & A

11:50 a.m. **Ultra-MIS Surgery** (*virtual*)

Michael Wang, M.D.

Objectives:

- Summarize the limitations of MIS spine surgery
- Outline the indications for MIS spine surgery
- Describe the techniques for MIS spine surgery

12:05 p.m. Q & A

12:10 p.m. **Break, Pick up Lunch & Exhibits** (*not for CME credit*)

12:20 p.m. **Live BioSkills Lab Demonstration # 4** (*working lunch*)

Prone Transpsoas

Luiz Pimenta, M.D., Ph.D. & Yevgeniy Freyvert, M.D.

Objectives:

- Outline the ways to position the patient
- Describe the limitations of prone lateral surgery
- Recognize when not to do prone lateral

12:50 p.m. **Circumferential Minimally Invasive Treatment for Severe Adult Spinal Deformity Without a Posterior Column Osteotomies Can Reduce PJK & Hardware Failure** (*virtual*)

Neel Anand, M.D.

Objectives:

- Explain how to apply minimally invasive techniques in severe adult spinal deformity
- Describe a specific protocol and the pros and cons
- Provide framework for understanding how deformity can be treated without osteotomies

1:05 p.m. Q & A

1:10 p.m. **Break & Exhibits**

1:20 p.m. **Live BioSkills Lab Demonstration # 5**

Thoracic Kyphosis Correction

Rod J. Oskouian, Jr., M.D. & Jerry Robinson, M.D.

Objectives:

- Describe the location and pathology with anatomy of rigid deformities
- Provide various treatment options for those patients requiring surgical intervention for kyphosis

- 1:50 p.m. **Why Introduce Robotics Surgery into Surgical Practice?**
Noojan Kazemi, M.D.
Objectives:
- Define the use and value of robotics and robotic navigation as it pertains to spine surgery
 - Identify areas of surgical opportunity in utilizing robotics in spine surgery
 - Describe latest innovations in robotics and future applications

2:05 p.m. **Q & A**

- 2:10 p.m. **Live BioSkills Lab Demonstration # 6**
Intradiscal Osteotomy at L5/S1
Jens R. Chapman, M.D. & Jonathan Plümer, M.D.
Objectives:
- Illustrate when to use the IDO technique
 - Describe what type of visualization to use
 - Outline how to get a three column correction working in the disc space

2:50 p.m. **Adjourn**

Acknowledgements

The Planning Committee gratefully acknowledges support for this conference from the following:

Educational Grant

Atec Spine
Globus Medical
Medical Device Business
Services, Inc.
Medtronic
SeaSpine
SpineArt
Stryker

Exhibit Support

Atec Spine
CeraPedics
DePuy Synthes
Globus Medical
SI Bone
SpineArt
Stryker

In-Kind Support

Atec Spine
Globus Medical
Medical Device Business
Services, Inc.
Medtronic
SeaSpine
SI Bone
SpineArt
Stryker
Viseon

Course Planning Committee

Jens R. Chapman, M.D.

Complex Spine Surgeon
Swedish Neuroscience Institute

Rod J. Oskouian, Jr., M.D., FAANS

Chief of Spine
Swedish Neuroscience Institute

Amir Abdul-Jabbar, M.D.

Orthopaedic Surgeon
Swedish Neuroscience Institute

Jonathan Plümer, M.D.

Orthopaedic Surgeon
Swedish Neuroscience Institute

Linda Sahlin

Director of Education
Seattle Science Foundation

Course Evaluation

Please take a moment to complete our online evaluation, which will be emailed to you. Your feedback helps to ensure the effectiveness of this CME activity, as well as improve future educational activities. All responses are considered anonymous. <https://www.surveymonkey.com/r/22Masters>

If you do not receive the survey via email, please call (206) 732-6500 or email cme@seattlesciencefoundation.org.

Accreditation

Seattle Science Foundation is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA PRA Category 1 Credits™

Seattle Science Foundation designates this live activity for a maximum of 6.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Faculty Disclosure Summary

The following planners and presenters (or their spouses/domestic partners) have/had a financial relationship with a commercial interest: (*S = Speaker; P = Planner*)

Neel Anand, M.D. (S): Consultant: Globus Medical, Medtronic; Stocks: Globus Medical, Medtronic, Paradigm Spine, Bonovo, Spinal Balance; Royalties: Globus Medical, El Sevier

Vincent Arlet, M.D. (S): Consultant: DePuySynthes, Medtronic, NuVasive, SpineUP, ZimmerBiomet, Simplify Medical

Jens Chapman, M.D. (P,S): Consultant: Globus Medical

Jean Dubousset, M.D. (S): Royalties: Medtronic

Roger Härtl, M.D. (S): Consultant: DePuySynthes, Ulrich Medical, Brainlab, ZimmerBiomet

Roland Kent, M.D. (S): Research: Globus Medical, SI Bone, Premia Spine; Speaker: Globus Medical, SI Bone; Product Design Funding: Globus Medical

Lawrence Lenke, M.D. (S): Consultant: Medtronic, EOS Technologies, Abryx, Acuity Surgical (monies directed to a charitable foundation); Royalties: Medtronic; Grants: EOS Technologies, ISSG, SSSF

Rod J. Oskouian, Jr., M.D. (P,S): Consultant: DePuySynthes, Globus Medical, Stryker, Atec Spine, Blue Ocean Spine; Royalties: Stryker, Globus Medical; Grants: AO North America

Luiz Pimenta, M.D. (S): Consultant: Atec Spine; Stocks: Atec Spine; Royalties: Atec Spine; Intellectual Property Rights: Atec Spine

David Polly, M.D. (S): Consultant: SI Bone, Globus Medical; Research: Medtronic, MizuhoOSI; Royalties: SI Bone, Springer

Christopher Shaffrey, M.D. (S): Consultant: NuVasive, Medtronic, Zimmer Biomet, SI Bone; Research: DOD, Globus Medical; Royalties: NuVasive, Medtronic, Zimmer Biomet

Christoph Siepe, M.D. (S): Consultant: RIWO Spine, DePuy Synthes, Silony Medical; Speaker: RIWO Spine, DePuy Synthes, Silony Medical

Michael Wang, M.D. (S): Consultant: DePuy Synthes Spine, Spineology, Stryker; Speaker: Medtronic, Globus; Stock Shareholder: Innovative Surgical Devices, Medical Device Partners, Kinesiometrics; Royalties: Children's Hospital of Los Angeles, DePuy Synthes Spine, Springer Publishing, Quality Medical Publishing

The following planners and/or presenters (or their spouses/domestic partners) have/had no financial relationship with a commercial interest (*S = Speaker; P = Planner*)

Noojan Kazemi, M.D. (S); **Amir Abdul-Jabbar, M.D.** (P); **Jonathan Plümer, M.D.**, (P); **Linda Sahlin** (P)

All planners and presenters attested that their content suggestions and/or presentation(s) will provide a balanced view of therapeutic options and will be entirely free of promotional bias. All presentations have been reviewed by a planner with no conflicts of interest to ensure that the content is evidence-based and unbiased.

Identifying and Resolving Conflicts of Interest

Purpose: The information provided addresses several requirements of the ACCME to help **ensure purpose** in CME activities. Everyone in a position to control the content of a CME activity must disclose all relevant financial relationships with commercial interests to the CME provider. This information must be disclosed to participants prior to the beginning of the activity. Also, CME providers must resolve current conflicts of interest prior to the educational activity.

Definitions: “Financial relationships” are those relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria for promotional speakers’ bureau, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received, or expected. ACCME considers relationships of the person involved in the CME activity to include financial relationships of a spouse or partner.

The ACCME defines a **“commercial interest”** as any entity producing, marketing, re-selling or distributing health care goods or services consumed by, or used on, patients. Among the exemptions to this definition are government organizations, non-health care related companies and non-profit organizations that do not advocate for commercial interests.

Circumstances create a **“conflict of interest”** when an individual has an opportunity to affect CME content about products or services of a commercial interest with which he/she has a financial relationship.

ACCME focuses on financial relationships with commercial interests in the 12-month period preceding the time that the individual is being asked to assume a role controlling content of the CME activity. ACCME has not set a minimal dollar amount for relationships to be significant. Inherent in any amount is the incentive to maintain or increase the value of the relationship.

The ACCME defines **“relevant financial relationships”** as financial relationships in any amount occurring within the past 12 months that create a conflict of interest.

CME Activity Planning Committee Members: If a conflict of interest exists, the Planning Committee member must withdraw from the Planning Committee unless the conflict can be resolved. Resolution may be made by one of the following methods: (1) Peer review of CME content will be conducted at another oversight level to assure no commercial bias exists; (2) Change in focus of course so the activity does not include information related to products or services about which the planning committee member has a conflict; (3) Severing relationship(s) between the member and any related commercial interest; (4) Others to be determined by SSF CME Committee.

CME Activity Presenter: When a conflict of interest exists, the Planning Committee must address the conflict by one of the following methods: (1) Review content to be presented by speaker in advance to assure content balance; (2) Change topic so the presentation is not related to products or services where a conflict exists; (3) Select a different presenter without any related commercial interest; (4) Include presentations by other faculty to provide an overall balance to the content of the course; (5) Limit or specify the sources for recommendations that the presenter can use. Each speaker is required to give a balanced, evidence-based presentation based on published research. No conclusions or recommendations without external validation may be made by a speaker with a conflict of interest.