SEATTLE SCIENCE FOUNDATION

10th Annual SSF Spine Masters Course:
Insights for Seasoned Spine Surgeons
Saturday, June 18, 2022

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***
Pelvic Fixation Techniques
David Polly, M.D.
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

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. **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?

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

9:10 a.m. ***Live BioSkills Lab Demonstration # 2***
Robotic Pedicle Screw Placement
Noojan Kazemi, 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

9:40 a.m. **The Latest Update on Proximal Junctional Kyphosis (PJK)** *(virtual)*
Christopher I. Shaffrey, M.D.
Objectives:
- Describe how to prevent PJK
- Outline the causes of PJK
- Summarize the role bone density has on PJK

9:55 a.m. **Q & A**

10 a.m. **Spinopelvic Fixation**
David Pollly, M.D.
Objectives:
- Differentiate iliac vs. S2AI techniques
- Identify structures at risk
- Describe technique for stacked implants

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
Jens R. Chapman, M.D.
Objectives:
- Outline osteotomy techniques
- Describe how and when to use expandables

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. **Circumferential Minimally Invasive Treatment for Severe Adult Spinal Deformity Without a Posterior Column Osteotomies Can Reduce PJK & Hardware Failure**
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

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)*
Posterior Thoracic & Lumbar MIS Screw Placement with Power
Luiz Pimenta, M.D. Ph.D.
Objectives:
- Outline the ways to avoid screw misplacement
- Describe the limitations of MIS surgery
- Recognize when to use MIS and navigation

12:50 p.m. **Complication Avoidance in Adult Deformity Surgery**
Robert Hart, MD.
Objectives:
- Evaluate whether rod material and diameter make a difference in surgery
- Describe which patients are at risk for adjacent level fractures
- Outline when to use bone morphogenic protein

1:05 p.m. **Q & A**

1:10 p.m. ***Live BioSkills Lab Demonstration # 5*** *(working lunch)*
Thoracic Kyphosis Correction
Neel Anand, 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

1:40 p.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

1:55 p.m. **Q & A**

2 p.m. ***Live BioSkills Lab Demonstration # 6***
Endoscopic Lumbar Interbody Fusion
Rod J. Oskouian, Jr., M.D.
Objectives:
- Illustrate when to use the endoscope
- Describe what type of endoscope to use
- Outline how to get reimbursement for endoscopic surgery

2:30 p.m. **Break, Exhibits and Transition into BioSkills Lab** *(not for CME credit)*

2:40 p.m. **BioSkills Hands-On Cadaver Lab** *(25-minute rotations)*
All Faculty
1. Posterior thoracolumbar correction techniques
2. Robotic pedicle screw placement
3. Pelvic fixation techniques
4. Thoracic kyphosis correction
5. Posterior thoracic & lumbar mis screw placement
6. Endoscopic lumbar interbody fusion

Objectives:
- Perform spinal reconstruction procedures
- Identify anatomic considerations for each procedure
- Demonstrate surgical techniques for each procedure

5 p.m. **Adjourn**

DISTINGUISHED FACULTY

Neel Anand, M.D.
Director of Spine Trauma
Cedars-Sinai Medical Center
Los Angeles, California

Vincent Arlet, M.D. *(virtual)*
Chief of Adult Spinal Deformity Surgery
Penn Medicine
Philadelphia, Pennsylvania

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

Prof. Jean Dubousset *(virtual)*
Keynote Speaker
Neurosurgeon
Académie National de Médecine
Paris, France

Robert A. Hart, M.D.
Orthopedic 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

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

Rod J. Oskouian, Jr., M.D., FAANS
Course Co-Chair
Chief of Spine
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Luiz Pimenta M.D., Ph.D.
Medical Director
Instituto de Patologia da Coluna
Sao Paulo, Brazil

David Polly, M.D.
Professor, Department of Orthopaedic Surgery
University of Minnesota
Minneapolis, Minnesota

Christopher I. Shaffrey, M.D. *(virtual)*
Chief of Spine and Orthopaedics
Duke University School of Medicine
Durham, North Carolina

Prof. Dr. Christoph Siepe *(virtual)*
Professor, Spinal Endoscopy
Schoen Clinic
Munich, Germany

Michael Wang, M.D. *(virtual)*
Chief of Neurosurgery
University of Miami Hospital
Miami, Florida

Surgical Demonstrations Supported by Swedish Neuroscience Institute Fellows