3rd Annual Current Trends in Minimally Invasive Spine Surgery  
Saturday, July 22, 2017  
at the Seattle Science Foundation

AGENDA

7:30 a.m.  Registration & Breakfast

7:55 a.m.  Welcome & Opening Remarks  
Jeffrey Roh, M.D.

SESSION 1: Cervical (C5-6 HNP)

8 a.m.  Artificial Disc Replacement (ADR)  
Rod Oskouian, Jr., M.D.  
Objectives:  
• Discuss the indications for ADR  
• Review pathology that is not appropriate for ADR  
• Identify appropriate follow-up

8:15 a.m.  Posterior Cervical Endoscopic Procedures  
Jin-Sung Luke Kim, M.D.  
Objectives:  
• Describe the posterior endoscopic discectomy method  
• Describe complications and associated avoidance techniques  
• Apply learned methods for the technique into clinical practice

8:30 a.m.  Posterior Cervical Fusion Cages  
Bruce McCormack, M.D.  
Objectives:  
• Discuss indications for the posterior cervical fusion cages  
• Identify cases in which the method is appropriate and not appropriate  
• Review data regarding post-operative outcomes

8:45 a.m.  Live Broadcast from BioSkills Lab  
Hands-on Demonstration 1  
Posterior Cervical Fusion Cages  
Bruce McCormack, M.D.  
Objectives:  
• Identify appropriate and pertinent anatomy with regard to surgical procedure  
• Employ techniques that take into consideration complication avoidance  
• Perform the posterior cervical fusion surgical procedure

9:30 a.m.  Panel Discussion: ADR vs. Posterior Endoscopic Procedures vs. Posterior Cervical Fusion Cages  
Rod Oskouian, Jr., M.D.; Jin-Sung Luke Kim, M.D.; Bruce McCormack, M.D.  
Moderator: Jeffrey Roh, M.D.  
Objectives:  
• Discuss indications for each procedure  
• Review pitfalls of each procedures including what indications are not appropriate  
• Illustrate anatomic considerations for each technique
10 a.m.  Break & Exhibits

10:15 a.m.  Live Broadcast from BioSkills Lab
Hands-on Demonstration 2
Endoscopic Posterior Decompression
Jin-Sung Luke Kim, M.D.
Objectives:
- Identify appropriate and pertinent anatomy with regards to both surgical procedures
- Employ techniques that take into consideration complication avoidance
- Perform an endoscopic posterior decompression

SESSION 2: Lumbar (L4-5 Spondylolisthesis)

11 a.m.  Lateral Lumbar Interbody Fusion (LLIF)
Addison Stone, M.D.
Objectives:
- Apply the method of LLIF
- Identify common complications and avoidance techniques
- Defend the benefits of lateral surgery

11:15 a.m.  TLIF
Richard G. Fessler, M.D., Ph.D.
Objectives:
- Perform the TLIF procedure
- Identify common complications and avoidance techniques
- Describe the benefits and drawbacks of TLIF vs lateral surgery

11:30 a.m.  Interspinous Stabilization Technology
Darrell Brett, M.D.
Objectives:
- Review indications for interspinous stabilization technology devices
- Discuss appropriate and inappropriate candidates for its use
- Describe use in the OR including ease vs challenges

11:45 a.m.  Break & Pick Up Lunch

12 p.m.  Live Broadcast from BioSkills Lab (working lunch)
Hands-on Demonstration 3
LLIF
Addison Stone, M.D.
Objectives:
- Identify appropriate and pertinent anatomy with regard to surgical procedure
- Employ techniques that take into consideration complication avoidance
- Perform an LLIF

12:45 p.m.  Panel Discussion: LLIF vs. TLIF vs. Interspinous Stabilization Technology
Addison Stone, M.D.; Richard G. Fessler, M.D., Ph.D.
Moderator: Jeffrey Roh, M.D.
Objectives:
- Review indications for each procedure
- Discuss complications associated with each procedure and review avoidance techniques
- Illustrate appropriateness for each intervention in various patient examples

1:15 p.m.  Live Broadcast from BioSkills Lab
Hands-on Demonstration 4
TLIF
Richard G. Fessler, M.D., Ph.D.
Objectives:
• Identify appropriate and pertinent anatomy with regard to surgical procedure
• Employ techniques that take into consideration complication avoidance
• Perform a TLIF

2 p.m.  
Break & Exhibits

2:15 p.m.  
**Live Broadcast from BioSkills Lab**

**Hands-on Demonstration 5**

**Navigation Assisted Percutaneous Pedicle Screw Placement**

*Kern Singh, M.D.*

**Objectives:**
- Identify appropriate and pertinent anatomy with regard to surgical procedure
- Employ techniques that take into consideration complication avoidance
- Perform a percutaneous pedicle screw placement with navigation assistance

**SESSION 3: MIS Innovation**

3 p.m.  

**Robotics**

*Sheeraz Qureshi, M.D.*

**Objectives:**
- Recognize the benefits of surgical planning prior to intraoperative execution using robotics
- Describe the benefits of reduced OR time and improved accuracy by preplanning with robotic surgery
- Recognize the improved patient outcomes with reduced perioperative morbidity and length of stay after robotic spine surgery

3:15 p.m.  
**AR/VR**

*Kern Singh, M.D.*

**Objectives:**
- Recognize the basic concepts of AR/VR
- Discuss application in spine surgery including benefits
- Review the challenges of implementation and pitfalls in surgical planning

3:30 p.m.  

**SI Joint Fusion**

*Abhineet Chowdhary, M.D.*

**Objectives**
- Identify indications for SI joint fusion
- Describe complications that can occur with this surgical approach
- Discuss follow-up and expected outcomes

3:45 p.m.  
**Live Broadcast from BioSkills Lab**

**Hands-on Demonstration 6**

**Rod Placement and Reduction**

*Sheeraz Qureshi, M.D.*

**Objectives:**
- Identify appropriate and pertinent anatomy with regard to surgical procedure
- Employ techniques that take into consideration complication avoidance
- Perform a rod replacement and reduction

4:10 p.m.  

**Panel Discussion: Robotics vs. AR/VR vs. SI Joint Fusion**

*Sheeraz Qureshi, M.D.; Kern Singh, M.D.; Abhineet Chowdhary, M.D.*  
**Moderator:** Jeffrey Roh, M.D.

**Objectives:**
- Review the benefits and challenges of robotic MIS surgery in spine
- Defend the use of AR/VR in surgical interventions
- Discuss the utility of SI joint fusions in the future
4:35 p.m.   Break, Exhibits and Change into Scrubs

4:45pm   Hands-On Cadaver Lab
12 minute lab rotations
All Faculty
Objectives:
- Recognize the indications for MIS surgery
- Discuss anatomic considerations for the varying procedures with patients
- Integrate new applications of the procedures into your practice, including applications in the future

STATION 1
Lateral Lumbar Interbody Fusion (LLIF)
Addison Stone, M.D.

STATION 2
Multi-level Percutaneous Pedicle Screw Placement
Kern Singh, M.D.

STATION 3
Artificial Disc Replacement
Rod Oskouian, Jr., M.D.

STATION 4
Posterior Cervical Endoscopic Procedures
Jin-Sung Luke Kim, M.D.

STATION 5
SI Joint Fusion
Abhineet Chowdhary, M.D.

STATION 6
Percutaneous Screws
Bruce McCormack, M.D.

6 p.m.   Adjourn
### FACULTY

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<thead>
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<th>Name</th>
<th>Position</th>
<th>Institution</th>
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