

5th Annual ONE Spine Masters Course

Saturday, June 24, 2017
at the Seattle Science Foundation

- 7:30 a.m. **Registration and Breakfast**
- 7:55 a.m. **Welcome and Introduction**
Shane Tubbs, PhD, PA-C
- 8 a.m. **Spinal Deformity: Getting to a 3D Perspective**
Key Note Speaker: Jean Dubousset, M.D.
Learning Objectives:
- Identify the three dimensions of the spine
 - Describe the anatomy of the deformed spine
 - Review spine corrective strategies
- 8:45 a.m. **Spine Navigation**
J. Patrick Johnson, M.D.
Learning Objectives:
- Describe the benefits of spine navigations
 - Review the challenges of relying on spine navigation
 - Discuss future possibilities with navigation and spine surgery
- 9:10 a.m. **Broadcast from BioSkills Lab**
Hands-on Demonstration 1
Relevant Neuromuscular Structures of the Back
Shane Tubbs, Ph.D., PA-C
Learning Objectives:
- Recognize common fractures and appropriate fixation
 - Identify anatomic structures and considerations of and around C1-2
 - Review complications related to surgical approaches at C1-2
 - Describe common fractures and appropriate fixation
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- 9:35 a.m. **Thoracolumbar Spine Trauma**
D. Kojo Hamilton, M.D.
Learning Objectives:
- Recognize spine trauma considerations in the thoracolumbar spine including three column spine principles
 - Review spine trauma considerations in the thoracolumbar spine
 - Describe the three column spine principles
 - Identify surgical fixation options
- 10 a.m. **Break & Exhibits**
- 10:15 a.m. **Broadcast from BioSkills Lab**
Hands-on Demonstration 2
Vertebrectomy
Sigurd Berven, M.D.
Learning Objectives:
- Discuss appropriate cases for vertebrectomy
 - Describe common complications of a vertebrectomy including avoidance techniques
 - Demonstrate a vertebrectomy

- 10:30 a.m. **Broadcast from BioSkills Lab**
Osteotomy Demonstration
Hands-on Demonstration 3
J. Patrick Johnson, M.D.
Learning Objectives:
- Discuss when osteotomies are useful
 - Describe anatomic considerations for osteotomies as pertains to alignment and sagittal balance
 - Demonstrate an osteotomy
- 10:45 a.m. **Adult Deformity Correction Techniques**
Sigurd Berven, M.D.
Learning Objectives:
- Describe surgical techniques for adult deformity surgery
 - Review anatomic considerations
 - Discuss timing and indications of adult deformity surgery
- 11:10 a.m. **Anatomy of the Lumbar Plexus**
Shane Tubbs, Ph.D., PA-C
Learning Objectives:
- Review important anatomic considerations for using the lateral spine surgery
 - Describe the benefits of knowing the lateral anatomy
 - Apply the principles and techniques acquired directly into their patient care of complex spinal disorders
- 11:35 a.m. **Advancements in Robotic Assisted Spine Surgery**
Andrew Manista, M.D.
Learning Objectives:
- Review the importance of pre-operative planning for spine surgery
 - Discuss the benefits and limitations of robotics for spinal surgery
 - Explain the changes in surgical work-flow when using robotics during spine surgery
- 12 p.m. **Exhibits and Pick Up Lunch**
- 12:15 p.m. **Case Reviews: The Most Difficult Cases in My Career**
(working lunch)
Moderator: Charles Sansur, M.D., MHSc
Panel Members: All Faculty
Learning Objectives:
- Review anatomic challenges of spinal surgery
 - Review common complications with spinal surgery
 - Discuss patient selection considerations
- 12:40 p.m. **Broadcast from BioSkills Lab**
Hands-on Demonstration 4
Vertebral Column Resection
Charles Sansur, M.D., MHSc
Learning Objectives:
- Discuss when vertebral column resection is useful
 - Describe anatomic considerations for vertebral column resection as pertains to alignment and sagittal balance
 - Demonstrate how to do an vertebral column resection

12:55 p.m.	<u>Broadcast from BioSkills Lab</u> Iliosacral Screw Fixation Demonstration Hands-on Demonstration 5 Jean Dubousset, M.D. and Charles Sansur, M.D., MHSc <i>Learning Objectives:</i> • Discuss when iliosacral screw fixation is useful • Describe anatomic considerations for iliosacral screw fixation • Demonstrate iliosacral screw fixation
1:10 p.m.	The Value of a Complications Database in Spine Surgery John Street, M.D., Ph.D., FRCSI <i>Learning Objectives:</i> • Discuss the components of a complications database • Describe the benefits of a complications database in spine surgery • Discuss transparency and pitfalls of the database
1:35 p.m.	Management of Degenerative Adult Scoliosis Charles Sansur, M.D., MHSc <i>Learning Objectives:</i> • Detail when is surgery indicated in degenerative adult scoliosis • Describe common complications and avoidance techniques • Review surgical fixation options
2 p.m.	Spinal Cord Tumors David Newell, M.D. <i>Learning Objectives:</i> • Discuss appropriate work-up for spinal tumors • Describe treatment options • Review risks and benefits of surgery
2:25 p.m.	Failed Fusion: Revision Considerations in Adult Deformity Correction Robert Hart, M.D. <i>Learning Objectives:</i> • Discuss the causes of hardware failure • Describe techniques for avoidance • Review surgical options for revision
2:50 p.m.	An Automated Systems Approach to Optimizing Surgical Outcomes David Hanscom, M.D. <i>Learning Objectives:</i> • Discuss the pitfalls of a surgical approach that does adequately prepare and clear patients for surgery • Describe steps of the automated systems approach benefits of optimizing surgical outcomes • Review benefits of optimizing surgical outcomes
3:15 p.m.	Panel Discussion: Challenging Case Presentation Moderator: J. Patrick Johnson, M.D. Panel Members: Sigurd Berven, M.D., Jean Dubousset, M.D. <i>Learning Objectives:</i> • Discuss complicated cases and peri-operative challenges • Describe lessons learned in challenging cases • Describe patient selection
3:30 p.m.	Break and Change into Scrubs Transition into BioSkills Lab

3:45 p.m.

Hands-On Cadaver Lab
(Rotate every 22 minutes)

Learning Objectives:

- Perform spinal reconstruction in challenging patient cases including identifying anatomic considerations as well as possible surgical techniques

STATION 1

D. Kojo Hamilton, M.D.
Spinal Navigation, Thoracic Screw Placement

STATION 2

J. Patrick Johnson, M.D.
Occiput Fixation

STATION 3

Andrew Manista, M.D.
Robotic Spine Surgery

STATION 4

David Hanscom, M.D. & Jason Dreyer, M.D.
Advanced Lateral Approaches

STATION 5

Sigurd Berven, M.D. & John Street, M.D., Ph.D., FRCSI
Posterior Osteotomy Techniques

STATION 6

Robert Hart, M.D., & Doug Orndorff, M.D.
Minimally Invasive Posterior Fixation Techniques

STATION 7

Posterior Cervical & Posterior Thoracic
Charles Sansur, M.D., MHSc

6 p.m.

Adjourn

DISTINGUISHED FACULTY

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