SEATTLE SCIENCE FOUNDATION

8th Annual Spinal Deformity Symposium – Innovations in Deformity Surgery
Saturday, August 26, 2023

at the Seattle Science Foundation

AGENDA

8 a.m. **Registration & Breakfast**

8:25 a.m. **Welcome & Course Overview**
Robert A. Hart, M.D. & Amir Abdul-Jabbar, M.D.

8:30 a.m. **Keynote Talk**
Should There Be a Spine Residency – If So, How to Bring it About
Christopher Shaffrey, M.D.
Objectives:
- Evaluate the demand for spine specialists in the medical field to gauge the necessity for a residency program
- Develop a comprehensive proposal outlining the program's structure, curriculum, benefits and potential impact

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

8:50 a.m. **Live Demonstration Broadcast from BioSkills Lab No.1**
Procedural Solutions Driving Both Ultrasonic & BGS Portfolios of Product in Complex Spine
Munish Gupta, M.D.
Objectives:
- Illustrate use of bone scalpel in spine surgery
- Demonstrate use of the bone scalpel for treatment of spinal deformity
- Describe use of bone scalpel in VCR

9:20 a.m. **Q & A**

9:25 a.m. **Rod Fracture: Incidence and Prevention Strategies**
Robert Hart, M.D.
Objectives:
- Describe techniques for avoidance of rod fractures
- Illustrate new metal alloys with the potential to reduce incidence of non-union and rod fracture

9:40 a.m. **Q & A**

9:45 a.m. **Evolution of MIS Capacity for Deformity Correction**
Robert Eastlack, M.D.
Objectives:
- Describe the role and pitfalls of MIS deformity correction
- Illustrate how to preform LLIF and ACR when correcting adult deformity

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

10:05 a.m. **<u>Live Demonstration Broadcast from BioSkills Lab No.2</u>**
Intradiscal Osteotomy
Robert Eastlack, M.D.
Objectives:
- Describe intradiscal osteotomy techniques and
- Review indication in deformity surgery

10:35 a.m. **Q & A**

10:40 a.m. **Break & Exhibits** *(not for CME credit)*

10:55 a.m. **Restoring Cervical Lordosis**
Amir Abdul-Jabbar, M.D.
Objectives:
- Review literature on cervical thoracic measurements
- Describe techniques for improving cervical alignment

11:10 a.m. **Q & A**

11:15 a.m. **Complex Spinal Deformity Using the MoRe Alloy** *(virtual)*
Steve Enguidanos, M.D.
Objectives:
- Review available alloys for spinal instrumentation
- Describe strengths and drawbacks of individual options

11:30 a.m. **Q & A**

11:35 a.m. **<u>Live Demonstration Broadcast from BioSkills Lab No. 3</u>**
Dual Pelvic Screws
Alekos Theologis, M.D.
Objectives:
- Illustrate variable techniques for pelvic screw placement
- Describe relationships to the lumbar construct

12:05 p.m. **Q & A**

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

12:30 p.m. **Intradiscal Osteotomy – A Different Way to Change Alignment**
Jens Chapman, M.D.
Objectives:
- Review posterior based Deformity correcton options
- Illustrate techniques of IDO
- Describe early results and learning points

12:45 p.m. **Q & A**

12:50 p.m. **Robotics and Image Guidance in Adult Deformity Surgery**
Roland Kent, M.D.
Objectives:
- Discuss the rationale of using robotic assistance in deformity reconstruction
- Identify potential complications associated with the use of robotics and image guidance in the Deformity patient

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

1:10 p.m. **Live Demonstration Broadcast from BioSkills Lab No.4**
Quad Rod Constructs: Satellite and Outrigger Constructs
Roland Kent, M.D.
Objectives:
- Illustrate alternate techniques for increasing stability in spinal constructs
- Describe applications in relation to osteotomy techniques

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

1:45 p.m. **The Rail Technique for Correction of Complex Spinal Deformities**
Alekos Theologis, M.D.
Objectives:
- Define the benefits of the "Rail Technique" for correction of spinal deformity
- Illustrate the step-by-step approach to preforming the "Rail Technique"

2:00 p.m. **Q & A**

2:05 p.m. **Pedicle Subtraction Osteotomies, Lessons Learned**
Munish Gupta, M.D.
Objectives:
- Describe technical pearls
- Explain complications
- Identify pitfalls

2:20 p.m. **Q & A**

2:25 p.m. **Live Demonstration Broadcast from BioSkills Lab No.5**
Posterior Cervical – Novel Quad-Rod OC Fusion
Amir Abdul-Jabbar, M.D.
Objectives:
- Illustrate techniques of increasing rigidity in OC fusions
- Describe relationships to occipital plating techniques

2:55 p.m. **Q & A**

3:00 p.m. **Technology & Techniques to Prevent Iatrogenic Deformity**
Kristen Jones, M.D. (virtual)
Objectives:
- Describe pre-operative spinal alignment planning steps to avoid creating iatrogenic deformity
- Identify surgical techniques commonly associated with creation of iatrogenic deformity

3:15 p.m. **Q & A**

3:20 p.m. **Live Demonstration Broadcast from BioSkills Lab No.6**
Multi-Rod Constructs in Cervical Spine
Christopher Shaffrey,, M.D.
Objectives:
- Describe indications for multi-rod constructs in cervical spine
- Illustrate possible patterns of multi-rod constructs in cervical spine

3:50 p.m. **Q & A**

3:55 p.m. **Lumbar Alignment in the Normal, Degenerated and Deformed Spine**
Bassel G. Diebo, M.D. (virtual)
Objectives:
- Discuss the evolution of spinal alignment analysis in degenerative and deformity
- Illustrate a step by step approach for surgical planning of degenerative spine surgery from alignment perspective
- Explain the importance of restoring segmental lumber lordosis, shape and apex in preventing adjacent segment disease and improving PROMS

4:10 p.m. **Q & A**

4:15 p.m. **Wrap Up**

4:25 p.m. **Adjourn**

ESTEEMED FACULTY

Robert A. Hart, M.D.
Course Chairman
Complex Spine Surgeon
Swedish Neuroscience Institute
Seattle, Washington

Amir Abdul-Jabbar, M.D.
Course Chairman
Orthopedic Surgeon
Swedish Neuroscience Institute
Seattle, Washington

Jens R. Chapman, M.D.
Complex Spine Surgeon
Swedish Neuroscience Institute
Seattle, Washington

Bassel G. Diebo, M.D. *(virtual)*
Spine & Scoliosis Surgeon
Brown University Orthopedics
Providence, Rhode Island

Robert Eastlack, M.D.
Head, Division Spine Surgery, Clinical Professor,
Director of Research
Scripps MD Anderson Center
La Jolla, California

Steve Enguidanos, M.D. *(virtual)*
Orthopaedic Surgeon
Twin Cities Orthopedics &
Sports Medicine Center
Niceville, Florida

Munish Gupta, M.D.
Professor of Neurological Surgery Division of Spine Surgery, Co-Director of Pediatric and Adult Spinal Deformity Service
Washington University School of Medicine
Saint Louis, Missouri

Kristen Jones, M.D. *(virtual)*
Assistant Professor, Department of Orthopedic Surgery & Neurosurgery
University of Minnesota
Minneapolis, Minnesota

Roland Kent, M.D.
Spine Surgeon
Axis Spine Center
Coeur d' Alene, Idaho

Christopher Shaffrey, MD
Professor of Orthopaedic and Neurological Surgery – Chief, Spine Division
Duke University Hospital
Durham, North Carolina

Alekos Theologis, M.D.
Assistant Professor, Spine Surgeon
UCSF Orthopaedic Surgery
San Francisco, California

Surgical Demonstrations Supported by Swedish Neuroscience Institute Fellows
Brian Anderson, D.O.; Donald Davis, M.D.; Neel Patel, M.D.; Gautam Rao, M.D.