This comprehensive adult spinal deformity course will provide in-depth coverage of various forms of cervical deformity, various forms of adult idiopathic scoliosis deformities, differentiate features of adult de novo degenerative lumbar scoliosis, identify issues involved with revision spinal deformity patients, avoidance of complications and differentiate between less invasive deformity options. Spinal surgeons will gain practical knowledge and technical skills through didactic lectures, case discussions, and cadaveric bioskills sessions.

Upon completion of this course, participants should gain strategies to:

- Recognize various forms of cervical deformity, patient presentations, symptoms, evaluation and surgical treatment.
- Identify various forms of Adult Idiopathic Scoliosis deformities, their classification, symptomatology, evaluation, operative and non-operative treatments.
- Differentiate features of Adult De Novo Degenerative Lumbar Scoliosis, presenting symptoms including spinal stenosis, evaluation, operative and non-operative treatments.
- Identify issues involved with revision spinal deformity patients, avoidance of complications, optimal spinal balance, pelvic parameters, and principles and techniques of revision spinal reconstruction.
- Differentiate between less invasive deformity options, their indications, results, possible complications, and where these are potentially headed in the future.

Credits
The North American Spine Society designates this live activity for a maximum of 13.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Day 1: Friday, March 24, 2017

7:00 a.m. Registration
Continental Breakfast
7:35-7:45 Welcome
Auditotium
7:45-8:05 Cervical Spine Deformity
- Evaluation of Cervical deformity
- Etiologies of Cervical Deformity
- Degenerative, Inflammatory, Neuromuscular, Trauma, Tumor
- Measurement of cervical spine deformity
8:05-8:10 Discussion
8:10-8:30  Surgical Approaches to the Upper Cervical Spine
- Occipital Cervical fusion
  - Indications and Techniques
- Atlantoaxial fusion
  - Indications and Techniques

8:30-8:35  Discussion

8:35-8:55  Subaxial Cervical deformity
- Anterior Approaches
  - Indications and Techniques including osteotomies
- Posterior Approaches
  - Indications and Techniques including osteotomies
  - Role of Circumferential Fusion

8:55-9:00  Discussion

9:00-9:20  Cervicothoracic Junction
- Pathologies of the Cervicothoracic Junction
- Management of Cervicothoracic Kyphosis
- How high/How Low

9:20-9:25  Discussion

9:25-10:00  Cases & Panel Discussion

10:00-10:30  Break and transition from auditorium to lab

10:00-12:30 p.m.  Hands-on Skills Lab

Implant placement into the Occiput, Cervical and Thoracic Spine

12:30-1:30  Lunch Lecture:  
Lunch Lecture: Complications in Adult Spinal Deformity Surgery: Rates, impact and reasons for revision

1:30-1:50  Thoracic Deformity
- Classifying Thoracic Deformity
- Kyphosis and Techniques for Correction
  - Choosing levels
- Scoliosis and Techniques for Correction
  - Choosing Levels
  - LIV consideration

1:50-1:55  Discussion
Thoracolumbar Deformity
- Measuring Deformity in the Thoracolumbar Spine
- Sagittal Parameters
- Etiologies of Thoracolumbar Deformity
- Radiographic Evaluation of Deformity

Approaches to the Thoracolumbar Spine
- Role of Anterior Surgery
  - Stand-Alone
  - Combined Anterior and Posterior

Posterior-only approaches to TL deformity
- Role of TLIF
- Correction mechanisms

Osteotomies for Posterior-based correction of deformity
- SPO/Ponte/PSO/VCR
- Indications and techniques

Cases & Panel Discussion

Day 2: Saturday, March 25, 2017

7:30 a.m. Continental Breakfast

8:00-8:20 Minimally Invasive Approaches to Deformity
- Direct Lateral – Indications and Techniques
- Posterior techniques

8:20-8:25 Discussion

8:25-8:45 Pelvic Fixation
- Role of Pelvic Fixation
  - When and Why
- Techniques of Pelvic Fixation

8:45-8:55 Biologics and Spinal Deformity
- An Evidence-based approach to Bone Graft Choices
8:55-9:00   Discussion
9:00-9:20   Outcomes and Value Optimization in Adult Deformity Surgery
   • Cost Considerations
   • Improving Outcomes and Durability
9:20-9:25   Discussion
9:25-10:00  Case Discussions
   • Adult Degenerative Deformity
     o MIS vs Open Approach
   • PJK case
     o Choice of Proximal and Distal levels in adult deformity
10:00-10:30 Lab Demonstration (from lab to auditorium)/Break

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<th>Bio-skills Lab</th>
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12:30 p.m.   Course Adjourns