Wednesday, July 29, 2020
Hands-on Course: Complex Spine Surgery and Minimally Invasive Spine Surgery
8:00 a.m.-5:00 p.m., Chulalongkorn University, Bangkok, Thailand

Course Chairs:
Charles A. Reitman, MD
John C. Liu, MD

Description:
This course, taught by a group of internationally renowned faculty, will provide didactic and hands-on educational advancement for surgeons, residents, and fellows interested in learning the latest surgical indications, considerations, and techniques in complex and minimally invasive spine surgery. Faculty will discuss surgical indication, surgical anatomy, technique pearls, complication avoidance, and complication management in a small group environment. Participants will receive didactic materials prior to the course to enhance their education and preparation for the lab. Completion of this work will be necessary to allow more time in the lab and to optimize your lab experience.

Upon completion of this course, participants should gain strategies to:
- Identify surgical indications and considerations for complex spine surgery;
- Determine relevant surgical anatomy to facilitate successful decompression and instrumentation;
- Determine indications for spinal deformity, spinal osteotomy and thoracolumbar reconstructive surgery;
- Recognize the importance of precision and localization in MIS and how evolving technology can improve safety and efficiency of MIS;
- Identify the learning curve associated with minimally invasive spine surgery and implement stepwise training toward adoption of MIS in current clinical practice.

Agenda:
7:00-8:00 a.m. Registration
8:00-8:05 a.m. Welcome and Introduction
8:05-8:15 a.m. Freehand vs. Fluoroscopic vs. Navigation/Robotic Assisted Pedicle Screw Placement in Spinal Deformity
8:15-8:25 a.m. Tubular Minimally Invasive Decompression and Fusion: Indications, Outcomes and Surgical Pearls for Complication Avoidance
8:25-8:35 a.m. Posterior Cervical Laminoplasty and Fusion for Cervical Myelopathy, Cervical Instability, and Cervical Deformity
8:35-8:45 a.m. Lateral Transpsoas and Pre-psoas Interbody Fusion: Technical Consideration and Complication Avoidance
8:45-8:55 a.m. Surgical Indication and Management of Spinal Osteotomies for Spinal Deformity and Revision Spine Surgery
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<tr>
<td>9:05-9:15 a.m.</td>
<td>Discussion, Questions and Answers</td>
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<td>9:15-9:30 a.m.</td>
<td>Coffee Break</td>
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<td>9:30-12:30 p.m.</td>
<td><strong>Hands-on Lab Workshop: Cadaveric Course Rotation 1</strong></td>
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<td>12:30-1:30 p.m.</td>
<td>Lunch Break</td>
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<td>1:30-4:30 p.m.</td>
<td><strong>Hands-on Lab Workshop: Cadaveric Course Rotation 2</strong></td>
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<td>4:30-5:00 p.m.</td>
<td>Case Discussion, Questions and Answers</td>
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