NASS Global Spine Congress: Percutaneous Endoscopic Lumbar Discectomy (PELD) and Endoscopic Techniques

Tuesday, May 1, 2018
Academia, Singapore General Hospital
Singapore

Course Chairs and Faculty:
Patrick Hsieh, MD
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Martin Komp, MD
Chien-Min Chen, MD
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Richard Ibrahim, MD
Ralf Wagner, MD
Hyeun Sung Kim, MD, PhD
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Alastair Gibson, MD
Verapan Kuansongtham, MD
Dong-Hwa Heo, MD
Christoph Hofstetter, MD, PhD
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Course Description:
This one-day intensive workshop demonstrates the recent evolution of percutaneous endoscopic procedure as well as its current stance as a feasible treatment alternatives for various lumbar spine pathologies. Reflecting the higher demands from the patients’ for a smaller incision, minimized manipulation to normal structures, as well as consequent faster recovery, these percutaneous procedures have been well acclaimed from various minimally invasive spinal surgery (MISS) related societies around the globe recently. Novel advances in the field of endoscopic optics and miniaturized but reinforced surgical tools would be thoroughly scrutinized and compared to assess their future capabilities to replace the conventional ‘open’ surgeries under microscopic view. Discussions take place on cases that illustrate common clinical problems that average spine practitioners routinely face, their feasible solutions using spinal endoscopy including surgical “tips and pearls” on this emerging percutaneous procedures, with debates from opposing viewpoints that favor standard operations given on that treatment considerations.

Upon completion of the course, participants will gain strategies to:
• Perform the basic skills for the endoscopic approaches (transforaminal & interlaminar) and should be capable of selecting proper modality based upon preoperative anatomical and imaging considerations Describe contraindications to the performance of the procedure;
• Differentiate the current standard and this novel surgical options, indications and contraindications for PELD and an evidence-based justification for this endoscopy application considerations.
• Discuss the treatment stratification (ramification) from conservative management, endoscopy application to conventional open surgeries based on the illustrative cases and debate with opposing viewpoints on treatment options.

**Agenda**

8:00-8:05 a.m. Welcome and Introduction  
*Patrick Hsieh, MD and Jin-Sung Kim, MD*

**Percutaneous Endoscopic Lumbar Discectomy (PELD)**

8:05-8:20 a.m. Percutaneous endoscopic surgery: the current evidence  
*Alastair Gibson, MD*

8:20-8:35 a.m. The history (past), present of PELD  
*Zhen-Zhou Li, MD*

8:35-8:50 a.m. Endoscopic Transforaminal approach: surgical anatomy and technical tips  
*Verapan Kuansongtham, MD*

8:50-9:05 a.m. Transforaminal PELD: technical tips to prevent complications  
*Ralf Wagner, MD*

9:05-9:20 a.m. Endoscopic Interlaminar approach: surgical anatomy and technical tips  
*Sebastian Ruetten, MD*

9:20-9:35 a.m. Percutaneous endoscopic interlaminar discectomy: possible pitfalls & surgical strategy to avoid complications  
*H. Kim, MD*

9:35-9:50 a.m. Questions and Answers  
All Faculty

**Advanced Endoscopic Techniques**

9:50-10:05 a.m. Endoscopic strategy for migrated disc herniation  
*Chien-Min Chen, MD*

10:05-10:20 a.m. Precise diagnosis and minimally invasive treatment of lumbar degenerative diseases  
*Jian Cheng Zeng, MD*

10:20-10:35 a.m. Endoscopic Interlaminar decompression for lumbar spinal stenosis  
*Martin Komp, MD*

10:35-10:45 p.m. Coffee Break

10:45-11:00 a.m. Bi-portal endoscopic decompression for lumbar spinal stenosis
Dong-Hwa Heo, MD

11:00-11:15 a.m. Interlaminar endoscopy: the evolution of MIS decompression
Christoph Hofstetter, MD, PhD

Endoscopic Procedures for Low Back Pain

11:15-11:30 a.m. Endoscopic procedure for chronic low back pain (discogenic, facet, SIJ)
Richard Ibrahim, MD

11:30-11:45 p.m. Questions and Answers
All Faculty

12:00-1:00 p.m. Lunch

1:00-6:00 p.m. Hands-on Skills Lab
All Faculty

Bioskills Lab PSL1A, 1B, 1C
Station 1:

Session 1 Full-endoscopic treatment for Facet and Sacro-Iliac-Joint therapy basic
Richard Ibrahim, MD

Session 2 Full-endoscopic transforaminal decompression for lumbar spinal stenosis advanced
Guntram Krzok, MD

Session 3 Full-endoscopic dorsal cervical decompression advanced
Ralf Wagner, MD

Station 2:

Session 1 Full-endoscopic transforaminal decompression for lumbar spinal stenosis advanced
Guntram Krzok, MD

Session 2 Full-endoscopic lumbar discectomy with transforaminal approach basic
Alastair Gibson, MD

Session 3 Full-endoscopic ventral cervical decompression advanced
Alastair Gibson, MD

Station 3:

Session 1 Full-endoscopic transforaminal decompression for lumbar spinal stenosis advanced
Ralf Wagner, MD

Session 2 Full-endoscopic lumbar discectomy with interlaminar approach basic
Christoph Hofstetter, MD, PhD

Session 3 Full-endoscopic lumbar discectomy with interlaminar approach basic
Guntram Krzok, MD

Station 4:

Session 1 Full-endoscopic lumbar discectomy with interlaminar approach basic
Christoph Hofstetter, MD, PhD

Session 2 Full-endoscopic lumbar decompression with interlaminar approach for lumbar spinal stenosis advanced
Hyeun Sung Kim, MD, PhD

Session 3 Full-endoscopic lumbar decompression with interlaminar approach for lumbar spinal stenosis basic
Hyeun Sung Kim, MD, PhD

Station 5:
Full-endoscopic lumbar decompression with trans- and extraforaminal approach for disk herniations and lateral stenosis:
Full-endoscopic and fluoroscopic controlled foraminoplasty
Zhen-Zhou Li, MD
Station 6:
Full-endoscopic lumbar decompression with interlaminar approach for disk herniations and lateral recess stenosis
Verapan Kuansongtham, MD

Station 7:
Full-endoscopic interlaminar decompression for central lumbar spinal stenosis:
Ipsilateral and contralateral over-the-top technique
Martin Komp, MD

Station 8:
Full-endoscopic cervical foraminotomy and diskectomy with posterior approach
Sebastian Ruetten, MD

Station 9:
Full-endoscopic interlaminar approach with high speed drill system for surgical treatments of lumbar disc herniation and stenosis
Jian Cheng Zeng, MD

Station 10:
Transforaminal endoscopic foraminoplasty with full see protective tube techniques
Chien-Min Chen, MD

6:00 p.m. Adjourn

Disclaimer
NASS courses are created to enhance physician understanding of the complexity of performing these procedures only. The course is not designed to certify that attendees are proficient in the procedures taught in the course. NASS strongly advises participants to continue to have proctoring, mentoring and additional experience prior to treating patients.