Advanced Ultrasound and Fluoroscopic Guided Lumbar Spinal Procedures

Monday, April 30, 2018
Academia, Singapore General Hospital
Singapore

Course Chairs and Faculty:
David O’Brien, MD
Allen Chen, MD
David Fish, MD
Scott Kreiner, MD
Thomas Xu, MD
Jeffrey Wang, MD
Patrick Hsieh, MD
Sunil Panchal, MD

Course Description:
This one-day intensive workshop is intended to advance the existing skills of spine practitioners from a multi-specialty perspective. Distinguished faculty combines didactic instruction and hands-on lab-based training with topics related to the clinical evaluation of complex pain and functional impairment. Advanced management options including the role of radiofrequency rhizotomy, vertebral augmentation options, neuromodulation including spinal cord stimulation, and intra-thecal therapies are presented.

Spinal anatomy, patient selection, and high yield clinical pearls (with radiographic correlations and quantitative functional assessment) are covered in depth. Time will be provided for open discussions with attendees and faculty on important topics such as indications, risks, literature controversies in peer-review process, and pitfalls. Additionally, faculty will discuss outcome monitoring as part of the skill-set in treating complex pain disorders and their associated functional impairments and disability.

Upon completion of the course, participants will gain strategies to:
• Explain the role of advanced pain procedures in the evaluation and treatment of spine pain
• Comprehend the potential risks and complications of advanced spinal interventions to patients;
• Understand the role of neuromodulation in treating spine pain
• Understand the role of radiofrequency denervation in treating facet and SIJ mediated pain
• Be familiar with how ultrasound guidance may be used in performing spinal injections

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9:00-9:05 a.m. Welcome and Introduction
Allen Chen, MD

9:05-9:20 a.m. Risks, Complications, and Radiation Safety
Thomas Xu, MD
9:20-9:35 a.m.    Lumbar Disc Access
                  David O’Brien Jr., MD

9:35-9:50 a.m.    Transforminal epidural steroid injections and selective nerve root blocks
                  Scott Kreiner, MD

9:50-10:05 a.m.   Radiofrequency Ablation
                  Thomas Xu, MD

10:05-10:20 a.m.  SI Joint injection, lateral branch blocks and RFA
                  David Fish, MD

10:20-10:35 a.m.  Regenerative Medicine and Biologics
                  Allen Chen, MD

10:35-10:45 a.m.  Discussion
                  All faculty

10:45-10:55 a.m.  Break

10:55-11:10 a.m.  Spinal Cord Simulation
                  Sunil Panchal, MD

11:10-11:20 a.m.  Intrathecal pumps
                  David Fish, MD

11:20-11:30 a.m.  Vertebral Fracture Augmentation
                  Patrick Hsieh, MD

11:30-11:45 a.m.  Ultrasound vs. Fluoroscopic Techniques
                  Allen Chen, MD

11:45-12:00 a.m.  Discussion
                  All Faculty

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

1:00-5:00 p.m.    Hands-on Skills Lab
                  All Faculty
Station 1: Lumbar Transforaminal Injections and Lumbar Disc Access  
Scott Kreiner, MD

Station 2: Lumbar Facet and Medial Branch Injections  
Lumbar Radiofrequency Ablation  
Thomas Xu, MD

Station 3: Sacroiliac Joint and Lateral Branch Injections  
David O'Brien, MD

Station 4: Vertebral Fracture Augmentation  
Patrick Hsieh, MD

Station 5: Spinal Cord Stimulator  
Sunil Panchal, MD

Station 6: Ultrasound-Guided Caudal, Facet, SIJ Injections  
Allen Chen, MD and David Fish, MD

5:00 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.