Current Trends in Minimally Invasive Spine Surgery

Friday, December 5, 2014

Seattle Science Foundation
Swedish Cherry Hill
550 17th Avenue, Suite 600
Seattle, Washington
Needs Statement
According to the American Academy of Orthopaedic Surgeons, approximately a quarter-million spinal fusions are performed each year. Surgically managing patients with spine tumors, fractures and spinal deformities has improved significantly with the development of innovative technologies and techniques. The trend in spine surgery has moved toward minimally invasive procedures, which involves small incisions and minimal disruption of the surrounding muscle tissue. The benefits of minimally invasive spine (MIS) surgery include decreased pain, less blood loss, shorter hospital stays and faster recovery.

Increasing familiarity with MIS techniques increases the options for surgeons and patients. There is an inherently difficult learning curve when mastering MIS approaches to spinal decompression and fusion, and complication rates may be underestimated. There has been an expressed need for a program that will bring neurological and orthopedic spine surgeons together to receive updates in their field as well as practice MIS techniques in a hands-on cadaver lab alongside experts in the techniques.

Course Description
The trend in spine surgery for many procedures has been moving toward minimally invasive approaches. These include spine surgery for lumbar fusion, deformity surgery, cervical surgery and sacroiliac joint fusion. The benefits of minimally invasive spine surgery include decreased pain, less blood loss, shorter hospital stays and faster recovery. However, there is a difficult learning curve for surgeons when mastering MIS procedures. Increasing familiarity with MIS techniques increases the options for surgeons and potentially lessens surgical complications. The goal of this conference is to update neurological and orthopedic surgeons and allied health professionals on the latest advances in minimally invasive spine surgical techniques.

Intended Audience
The Current Trends in Minimally Invasive Spine Surgery conference is intended for neurosurgeons, orthopedic surgeons, neuroradiologists, radiation therapists, neurologists and allied health professionals who participate in the care of a spine surgery patient in the Pacific Northwest.

Location
The Seattle Science Foundation is located at Swedish Medical Center Cherry Hill. Swedish Cherry Hill is located at 500 17th Avenue in Seattle, Washington. The conference will be held in the Swedish Education and Conference Center on the first floor of the James Tower. Parking is available in the garage on 16th Avenue between Cherry and Jefferson at a maximum fee of $16.50. From I-5 (northbound and southbound), take the James Street exit. Travel east on James Street. James will become Cherry Street. Turn right (south) on 16th Avenue. Turn right into the main garage entrance.

Agenda
7:45 a.m.  Registration and Continental Breakfast
8:15 a.m.  Welcome and Introductions
           John N. Hsiang, M.D., Ph.D.
8:30 a.m.  Why Do Minimally Invasive Surgery:
           What are the Pitfalls
           Jeffrey S. Roh, M.D.
9 a.m.    Advantages of Lateral Approach Lumbar
           Interbody Fusion: XLIF®
           Antoine G. Tohmeh, M.D.
9:20 a.m.  Advantages of Lateral Approach Lumbar
           Interbody Fusion: OLIF
           John K. Shuster, M.D.
9:40 a.m.  Posterior Percutaneous Instrumentation:
           Pedicle Screw and Facet Screw
           John N. Hsiang, M.D., Ph.D.
10 a.m.   Break
10:15 a.m. Utilization of MIS Lateral Technology in the
           Treatment of Complex Adult Spinal Deformities
           Jean-Christophe Leveque, M.D.
10:45 a.m. Pros and Cons of Minimally Invasive Cervical
           Foraminotomy
           Johnny B. Delashaw, M.D.
11 a.m.   Minimally Invasive SI Joint Fusion
           Abhineet Chowdhary, M.D.
11:15 a.m. Pick up lunch and move back to conference room
11:45 a.m. Working Lunch: Case Discussion
           Moderator: Rod J. Oskouian Jr., M.D.
12:50 p.m. Move to Hands-on Cadaver Lab
           (attendees will rotate through four, 60-minute labs)
1 p.m.    Lab station one: XLIF®
           Antoine G. Tohmeh, M.D.
2 p.m.    Lab station two: OLIF
           John K. Shuster, M.D.
3 p.m.    Lab station three: Percutaneous
           Jeffrey S. Roh, M.D.
4 p.m.    Lab station four: SI Joint
           Abhineet Chowdhary, M.D.
5 p.m.    Adjourn
Course Objectives
At the conclusion of this symposium, the participant will provide better patient care through an increased ability to:

- Define the current state of MIS surgery, review the pitfalls of minimally invasive approaches to the spine and appreciate the role of MIS in complex spine procedures
- Identify appropriate patients for the lateral interbody fusion (XLIF®/OLIF) procedure, discuss how to avoid or reduce complications with the XLIF®/OLIF procedure and describe the XLIF®/OLIF minimally invasive platform
- Describe appropriate patients for the lateral interbody fusion procedure, minimize risks associated with the lateral procedure and appreciate the unique anatomy related to the lateral approach
- Review indications for percutaneous pedicle screw and facet screw and discuss surgical techniques using those instruments
- Discuss the limitations of MIS techniques in correcting spinal deformity, review the long-term benefits and short-term outcomes of MIS techniques
- Review the anatomy of the cervical foramin, discuss how to manage cervical venous plexus and describe how to perform posterior cervical discectomy
- Review the anatomy of the SI Joint, discuss diagnosis, including physical exam, for SI Joint pain and describe the surgical anatomy of SI Joint
- Identify lateral approaches to the spine, discuss how to avoid neurologic injury, describe deformity correction from a lateral approach and discuss MIS approaches to complex spine problems
- Describe appropriate positioning and intra-operative imaging of patients undergoing the XLIF®/OLIF procedure, discuss the appropriate approach and use of instruments to safely access the target disc space subject to the XLIF®/OLIF procedure and detail the appropriate disc space preparation and implantation of interbody cages via the XLIF®/OLIF technique
- Review the appropriate positioning, imaging and approach to the lateral interbody fusion procedure
- Discuss the current state of MIS, review the pitfalls of minimally invasive approaches to the spine and review the role of MIS in complex spine procedures
- Review the surgical anatomy of the SI Joint, including optimal placement of fixation and potential pitfalls

Accreditation with Commendation
Swedish Medical Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA PRA Category 1 Credits™
Swedish Medical Center designates this live activity for a maximum of 8.0 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Faculty
Abinheet Chowdhary, M.D.
Neurosurgeon
Neurosurgery Program Director
Overlake Medical Clinics – Neurosurgery
Bellevue, Washington

Johnny B. Delashaw, M.D.
Neurosurgeon
Brain and Spine Specialist
Swedish Neuroscience Institute
Seattle, Washington

John N. Hsiang, M.D., Ph.D.
Neurosurgeon
Spine Specialist
Swedish Neuroscience Institute
Seattle, Washington

Jean-Christophe Leveque, M.D.
Neurosurgeon
Group Health Cooperative
Virginia Mason Hospital
Seattle, Washington

Rod J. Oskouian Jr., M.D.
Neurosurgeon
Director, Neurosurgery Fellowship Program
Swedish Neuroscience Institute
Seattle, Washington

Jeffrey S. Roh, M.D.
Orthopedic Surgeon
Medical Director
ProOrtho, Division of Proliance Surgeons
Seattle, Washington

John K. Shuster, M.D.
Orthopedic Surgeon
Northwest Orthopedic Specialists
Spokane, Washington

Antoine G. Tohmeh, M.D.
Orthopedic Surgeon
Northwest Orthopedic Specialists
Spokane, Washington

Planning Committee
John N. Hsiang, M.D., Ph.D., Course Chair
Laura E. Jacob, MEd, Education Program Administrator
Linda Lai, PA-C
Rod J. Oskouian Jr., M.D.
Alexis Takasumi, Business Development Specialist

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For Further Information
Phone: 206-386-2755
Fax: 206-320-7462
E-mail: cme@swedish.org
Web: www.swedish.org/cme
Registration Information: Preregistration is required as space is limited. Participants who register by the “Advance Registration” deadline will receive a confirmation postcard after Monday, Nov. 24, 2014. Registrations will only be processed when accompanied by full payment.

Cancellation: To receive a refund, notice of cancellation must be received no later than Friday, Nov. 28, 2014.

If using the registration form, please mail or fax it to:
Continuing Medical Education
Swedish Medical Center
747 Broadway
Seattle, WA 98122
Fax: 206-320-7482

Please note: No registrations are accepted by phone or e-mail.
If you have special needs, please contact the CME office at 206-386-2755.

Registration Fees: The fee for this course includes catering, all instruction materials, online syllabus access and a certificate of AMA PRA Category 1 Credits™.

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