



Cleveland Spine Review: *Hands-On 2011*

Presented by Cleveland Clinic Center for Spine Health

A comprehensive approach for Neurosurgeons,
Orthopaedic Surgeons, and Nurses



July 13-19, 2011

Cleveland Clinic Lutheran Hospital • Hyatt Regency at the Arcade
Cleveland, OH

Cleveland Spine Review: Hands-On 2011



Cleveland Spine Review: Hands-On 2011 is a comprehensive course utilizing the cadaver laboratory and didactic sessions with ample time for discussion. This intensive course emphasizes the fundamentals of spine surgery, particularly biomechanical considerations, and the surgery decision-making process.

Through intensive, hands-on sessions utilizing cadavers, participants study surgical techniques and strategies for a range of procedures including: screw, lateral mass, pedicle and wire fixation, as well as occipitocervical and cervical, thoracic, lumbar, and lid sacral surgical techniques. Complex surgical exposures in all regions of the spine are emphasized.

Led by experienced faculty, the course examines the multiple adjuncts to surgery, including soft tissue and bone retractors and distractors, minimally invasive surgical techniques, spinal implants (from multiple vendors), and dissection tools. Non-operative strategies are also emphasized. Significant time is dedicated to operative indication discussions. The problem-based decision-making process is introduced and emphasized during these very interactive discussions.

Upon completion of the Cleveland Spine Review, the participant will be able to:

- Utilize problem-based decision-making to develop logical algorithms for solving complex problems.
- Employ physiological and surgical principles to spinal fusion and instrumentation.
- Apply anatomic and physiologic principles to the variety of surgical approaches available to access all regions of the spine.
- Recognize the fundamental skills required to perform the most appropriate operation for any given clinical pathology, and to recognize one's own limitations in this regard.
- Evaluate available instrumentation systems and appreciate the advantages of each, as well as the relative indications for their use.



Why Should Nurses Attend?

Nurses have the unique opportunity to learn side by side, in didactic sessions as well as a cadaver laboratory, with surgeons in a relaxed, collegial atmosphere. Additionally, a special nursing seminar is held at noon the first day to meet fellow attendees and prepare for the content to be presented throughout the remainder of the course. A variety of nursing breakout sessions and a cadaver dedicated to nursing attendees gives participants a multifaceted learning experience. Social functions complete an extremely memorable course.

The Ohio Board of Nursing will accept at face value the number of contact hours awarded for a continuing education activity that has been approved by a nationally recognized accreditation system of continuing education approval. Therefore 35.75 physician AMA PRA Category 1 Credits™ will be accepted for nursing credits. Nurses from other states should contact their State Board of Nursing.



Comments from the past course evaluation forms...

This was a one of a kind course! It was wonderful dealing with a very friendly group of people. Everyone was so helpful and willing to teach. The course was intense during the day and the social activities were a great way to unwind from the day. The lectures followed by labs enhanced the learning process.

Another great conference. A+ for the course!

I feel that this was an excellent course, truly one of a kind. Faculty was great. There was a wealth of knowledge and everyone was friendly and did not mind explaining or talking to you.

This is by far the best course I have attended. The topics covered are all pertinent and the course is the right length. The interaction with the faculty during dissections was very valuable. The hike is a great break and occurred at the right time. It would be hard to improve the course.

Happy to work in a small group especially in the lab. Thank you for offering special nursing topics.

This is the best course ever.

Great conference and social events.

Course Faculty

Directors

Edward C. Benzel, MD
Cleveland Clinic, Cleveland, OH

Marc E. Eichler, MD
Newton Centre, MA

Doug Orr, MD
Cleveland Clinic, Cleveland, OH

Gregory R. Trost, MD
University of Wisconsin, Madison, WI

Honored Guest

Volker Sonntag, MD
Vice Chairman Emeritus
Barrow Neurological Institute

Nursing Directors

Ann Henwood, MSN, RN, CNS
Cleveland Clinic, Cleveland, OH

Andrea Strayer, MS, A/G NP, CNRN
University of Wisconsin, Madison, WI

Dr. Volker Sonntag

For the past 30 years, Dr. Sonntag has performed surgery on thousands of patients and made significant contributions to the understanding of spinal disorders. He has co-edited five major books, made more than 800 presentations around the world, and written more than 90 textbook chapters and 460 papers. He is consistently recognized as one of the Best Doctors in America. In 2002, Dr. Sonntag was named the Honored Guest of the Congress of Neurological Surgeons, the highest honor paid to a neurosurgeon by his peers.



Dr. Sonntag retired in January 2010 but remains at the Barrow Neurological Institute as Vice Chairman Emeritus. The Institute is constructing the Sonntag Education Pavilion to honor his countless contributions.

Guest Faculty

Darryl DiRisio, MD
Albany Medical Center
Albany, NY

Lisa Ferrara, PhD
Orthokinetic Technologies, Inc.
Southport, NC

Eldad Hadar, MD
University of North Carolina
Chapel Hill, NC

Alex Jones, MD
Hudson Valley Neurosurgical
Associates, LLC
Goshen, NY

Cumhur Kilincer, MD, PhD
Trakya University
Edirne, Turkey

**Denise Niklasch, MSN,
CS, RN, ANP, CNRN**
Medical College of Wisconsin
Milwaukee, WI

Rakesh Patel, MD
University of Michigan
Ann Arbor, MI

Ioannis Polythodorakis, MD
University of Crete
Arta, Greece

Daniel Resnick, MD
University of Wisconsin
Madison, WI

Mario Alberto Rott, MD
Buenos Aires, Argentina

Abdelfattah Saoud, MD, PhD
Ain Shams University
Cairo, Egypt

Shelly Schmoller, PA-C
University of Wisconsin
Madison, WI

Salman Sharif, MD
Liaquat National Hospital
Karachi, Pakistan

Andrew Wakefield, MD
Hartford Hospital
Hartford, CT

Mehmet Zileli, MD
Ege University
Izmir, Turkey

Cleveland Clinic Faculty

Lilyana Angelov, MD
Rose Ella Burkhardt
Brain Tumor and
Neuro-Oncology Center

Gordon Bell, MD
Center for Spine Health

Edward Covington, MD
Center for Spine Health

Iain Kalfas, MD
Center for Spine Health

Ajit Krishnaney, MD
Center for Spine Health

Eric Mayer, MD
Center for Spine Health

Daniel Mazanec, MD
Center for Spine Health

Robert McLain, MD
Center for Spine Health

Alfred Melillo, PA-C
Center for Spine Health

Thomas Mroz, MD
Center for Spine Health

Paul Ruggieri, MD
Neuroradiology

Judith Scheman, PhD
Chronic Pain Rehabilitation
Center for Spine Health

Richard Schlenk, MD
Center for Spine Health

Michael Steinmetz, MD
Center for Spine Health

Santhosh Thomas, DO, MBA
Center for Spine Health

Lab Faculty

Jeremy Amps, MD
Cleveland Clinic Center for
Spine Health

James Anderson, MD
MetroHealth Medical Center
Cleveland, OH

Toomas Anton, MD
Cleveland Clinic East Region

Frank Bishop, MD
Cleveland Clinic Center for
Spine Health

Nathaniel Brooks, MD
University of Wisconsin
Madison, WI

Rick Burg, MD
Orthopaedic Associates of
North Texas
Allen, TX

Ali Chahlavi, MD
St. Vincent's Spine and Brain
Institute
Jacksonville, FL

Saad Chaudhary, MD
New Jersey Medical School
Newark, NJ

Todd Francis, MD, PhD
Wayne State University
Detroit, MI

Fadi Hanbali, MD
Texas Tech University
El Paso, TX

David Hart, MD
University Hospitals
Cleveland, OH

Elijah Hothem, MD
Cleveland Clinic Center for
Spine Health

Christopher Iannotti, MD
Cleveland Clinic Center for
Spine Health

**Desmond Kwok, BSc, MD,
FRCS**
Hamilton General Hospital
Hamilton, Ontario, Canada

Joshua Landa, MD
Cleveland Clinic Center for
Spine Health

Vincent Miele, MD
West Virginia University
Morgantown, WV

Michael Morone, MD
The Billings Institute
Billings, MT

Ricky Placide, MD
Westend Orthopaedic Clinic
Richmond, VA

Sharad Rajpal, MD
Boulder Neurosurgical
Associates
Boulder, CO

Daniel Shedid, MD
University of Montreal
Montreal, Quebec, Canada

John Shin, MD
Cleveland Clinic Center for
Spine Health

**Gandhivarma
Subramaniam, MD**
Cleveland Clinic Center for
Spine Health

Fernando Techy, MD
Cleveland Clinic Center for
Spine Health

Kene Ugokwe, MD
Youngstown Neurologic Associates
Poland, OH

Andrew Utter, MD
Louisiana Spine
Shreveport, LA

Felipe Valdivia, MD
Hospital Alemana
Santiago, Chile

Seth Zeidman, MD
University of Rochester
Rochester NY

Course Overview

Unique Features of the Course

- Interactive Small Group Case Presentations – Participants are **encouraged** to bring cases for discussion
- Collegial Atmosphere with Ample Opportunity to Pose Questions to the Faculty and Honored Guest One-on-One and During Lectures

Course Schedule

- The program runs from Wednesday, July 13 through Tuesday, July 19.
- On July 14, 15, 17 & 18, the course begins at 6:30 am and ends at 5:30 pm. On July 16, the course begins at 6:30 am and ends at 2:00 pm.
- The physician program begins at 3 pm on July 13 and ends at 11:30 am on July 19.
- The pre-course RN lectures begin at 12 noon on July 13 and end at 11:30 am on July 19.
- **Round-trip transportation from the Hyatt Regency Hotel at the Arcade to Cleveland Clinic Lutheran Hospital will be provided each day.**

Day 1 Highlights

- Pain Management: Diagnosis and Treatment
- Using Interventional Techniques to Guide Surgery
- Selecting Patients for Surgery
- Mimics of Spinal Pathology
- Psychology of Spinal Disorders
- Outcome Instruments: What to Use and Why

Day 2 Highlights

- Biomechanics 101
- Craniocervical Junction Pathologies and Stabilization
- Orthotics
- Surgical Approaches to the Craniocervical Junction
- Cervical Spondylotic Myelopathy Diagnosis and Treatment
- Transoral and Craniocervical Exposures Lab
- Cervical Radic and Axial Neck Pain Diagnosis and Treatment
- Assessment and Treatment of Cervical Deformity
- Emerging Technologies in Cervical Spine
- Ventral Cervical Exposures and Fixation Lab



Day 3 Highlights

- Biomechanics 201
- Biomechanics of Implant Failure
- Dorsal Cervical Fixation Techniques
- Complications and Avoidance in the Cervical Spine
- Posterior Cervical, Lateral Mass O/C Laminoplasty Lab
- Dorsal Thoracic Exposures
- Thoracic Instrumentation Techniques Tricks and Pearls
- “Lenke Lab” Dorsal Thoracic Exposures and Instrumentation
- Lumbosacral Fixation Alternatives

Day 4 Highlights

- Biomechanics of Motion Preservation
- Surgery of the Geriatric Spine
- Surgical Exposure of the Cervico-Thoracic Junction
- Evidence and Outcomes: Making Sense of the Literature
- Spine Bowl I
- Injection Course – Lumbar and Cervical Techniques
- Hike and Crawfish Boil

Day 5 Highlights

- Surgical Exposure of the Ventral Thoracic and Lumbar Spines
- Principles of Deformity Correction
- Ventral and Lateral Cervico-Thoracic and Thoracic Exposures Lab
- What’s New in Image Guidance
- Degenerative Spondy and Scolio Treatment Options
- Spine Surgery in Haiti after the Quake
- Lumbar Complications Avoidance and Treatment
- Thoracic and Lumbar Stabilization Strategies
- Radiosurgery in the Spine
- Ventral Thoracic, Lumbar Exposures, and Instrumentation Lab
- Spine Bowl II
- Injection Course – Diagnostic Injections Improving Surgical Outcomes

Day 6 Highlights

- Interbody Fusions: Indications and Techniques
- Bone and Bone Substitutes Evidence and Options
- Failed Back Assessment and Treatment
- Spinal Infections
- Lumbar Fixation Lab
- MIS Surgery Tricks, Pearls, and Results
- Lumbar Fixation and ALIF Lab
- Spine Bowl Finale
- Corner Alley Bowling Reception

Day 7 Highlights

- Spine Surgery – Pearls and Tricks of the Trade
- Lumbosacral and Pelvic Fixation
- Cost Effectiveness of Spine Surgery
- MIS Surgery Complications and Avoidance
- Surgeons Role in Implant Cost Containment
- Vertebral Augmentation and The NEJM

General Information

Location

Lectures and Labs – Cleveland Clinic Lutheran Hospital:
1730 W. 25th Street, Cleveland

Lodging – Hyatt Regency Cleveland Hotel at the Arcade
(Note: The opening lectures on Wednesday, July 13, will be held at the Hyatt Regency Cleveland Hotel. All other lectures from Thursday through Tuesday will take place at Cleveland Clinic Lutheran Hospital.)



Hotel Reservations

Hotel reservations are separate from the course registration and are the responsibility of the participant. Rooms have been blocked for attendees at the following hotel:

Hyatt Regency Cleveland Hotel at the Arcade
420 East Superior Ave., Cleveland, Ohio, USA 44114
\$89 plus tax, per night
Telephone: 216-575-1234

The Hyatt Regency Cleveland Hotel is located 12 miles NE from Cleveland Hopkins International Airport. Public transportation through the RTA is available from the airport to Tower City. The hotel is attached to Tower City.

Registration/Refund Policy

Register at www.ccfme.org/spinereview11. The course size is limited. The registration deadline is Friday, July 8, 2011 at 5:00 PM EST, or until all available slots have been taken. To register after July 8, please contact Martha Tobin at 216-445-3449 or tobinm@ccf.org.

In case of cancellation, a \$50 cancellation fee will be deducted from your refund. Written notification of your cancellation is required in order to process your refund. **NO REFUNDS WILL BE ISSUED AFTER JULY 8**, but registration is transferable through JULY 19, 2011.

Accreditation

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this educational activity for a maximum of 35.75 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association Council on Continuing Medical Education for Category 2 credit.

Faculty Disclosure

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

Special Needs

The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify Monet Smith at 216-444-9380 at least two weeks prior to the activity.

For additional information: Ms. Martha Tobin – 800-223-2273 ext. 53449
(e-mail) tobinm@ccf.org / (fax) 216-445-4527



RN Special Lectures

Please Note: RNs attend the same lectures as the physicians. They also begin with a 3-hour pre-course session on the first day. Special, nurses-only lectures include:

- Functional Anatomy and Physiology of the Spine, Spinal Cord and Peripheral Nerves
- Cervical Spine Pathology and Correlative Neuro Assessment
- Radiology Fundamentals
- Biomechanics Fundamentals
- Spinal Column Pathology and Medical Decision-Making: The Surgeon's Perspective
- Outcomes Assessment
- Lumbar Spine Pathology and Correlative Neuro Assessment
- Pre- and Post-Operative Nursing Care Considerations
- Interactive Cervical and Lumbar Case Discussions



Great Lakes Science Center

Have Your Family Vacation in Cleveland in 2011!

For family entertainment, Cleveland offers a wealth of fun and excitement sure to intrigue families with children of all ages. From thrilling rides at area amusement parks to fun-filled attractions and interesting museums, there's plenty to see and do year round in Greater Cleveland. An official visitors guide, with dozens of savings coupons, will be sent to each registered attendee.

Some Area Attractions

- Cedar Point Amusement Park
- Cleveland Metroparks Zoo and RainForest
- Rock and Roll Hall of Fame and Museum
- Great Lakes Science Center
- NASA John H. Glenn Research Center at Lewis Field
- Cleveland Botanical Garden
- The Steamship William G. Mather
- Cleveland Museum of Natural History
- Pro Football Hall of Fame
- Cleveland Orchestra
- Playhouse Square Center
- Cleveland Play House
- Quicken Loans Arena
- Progressive Field



Progressive Field



Cleveland Zoo



Rock and Roll Hall of Fame and Museum

Register online at www.cfcme.org/spinereview11

Registration Form

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Hyatt Regency Hotel at the Arcade and Lutheran Hospital
Cleveland, Ohio

For Office Use Only: 020765

Fee: _____ M.O.P. _____

Date: _____ CXL/Fee: _____

Name _____ Degree _____
First M.I. Last

Company/Organization _____

Address _____

City, State, Country, Zip Code _____

Phone # _____ Fax # _____

E-mail _____

Surgeons Only: Neurosurgeon Orthopaedic Surgeon

RNs Only: OR Outpatient Inpatient

Course Registration Fees

(please check appropriate box)

Surgeons: \$3,750

Residents/Fellows: \$2,500

Nurses: \$1,500

Cleveland Clinic Alumni: \$2,940

Course fee includes registration materials, continental breakfasts and lunches, Opening Reception, Crawfish Boil, and Bowling Night

Payment Options (please check appropriate box)

Check enclosed (made payable to: The Cleveland Clinic Educational Foundation)

Visa MasterCard AmEx Discover Card # _____

Name on Card _____ Exp. Date _____

Signature _____ 3- or 4-digit Verification No. _____
(not valid without signature) (found on back of card)

Total Amount Paid \$ _____

Mail completed registration form and payment information to:

Cleveland Clinic Educational Foundation
P.O. Box 931653
Cleveland, OH 44193-1082

Or, if paying by credit card, registration may be faxed to 216-448-0783

(Once faxed, do not mail original registration.)


Cleveland Clinic
Over 75 Years of Excellence in
CONTINUING MEDICAL EDUCATION

Register online at www.ccfcmec.org/spinereview11



The Cleveland Clinic Foundation
Neurological Institute
9500 Euclid Avenue, S-40
Cleveland, OH 44195



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