



February 16–18, 2012  
St. Louis, MO



The 5<sup>th</sup> CSRS (Cervical Spine Research Society)

# Cervical Spine Decompression and Stabilization Techniques

## A Hands-On Cadaver Workshop

An offering through Practical Anatomy & Surgical Education  
Saint Louis University School of Medicine

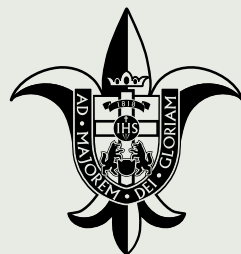
### Course Co-Directors

Robert F. Heary, MD

John M. Rhee, MD

### Course Advisor

K. Daniel Riew, MD



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# Course Content

## Thursday, February 16, 2012 (4:00 p.m.–6:30 p.m.)

- ▶ Vertebral Artery Injuries from Spine Surgery: How to Prevent, Expose and Treat
- ▶ Anterior Cervical Approach to C<sub>2-4</sub> & C<sub>7-T</sub><sub>3</sub>
- ▶ Anterior Cervical Plating: Tips, Pearls, Avoiding ALOD, Length of Screws, Different Plate Types
- ▶ Pseudarthrosis Dx and Repair (L): Radiographic Dx, Advantages/ Disadvantages of Treating Anterior vs Posterior
- ▶ Post-op Hematoma Management & Emergency Cricothyroidotomy: How to Avoid and Treat
- ▶ Dysphagia and Dysphonia
- ▶ Cervical Dural Tears

## Friday, February 17, 2012 (8:00 a.m.–4:30 p.m.)

- ▶ 3D Demonstration: Anterior Cervical Decompression, Foraminotomy, Discectomy, Exposure of Vertebral Artery
- ▶ Arthroplasty: Indications vs Fusion, Results, Currently Available Products
- ▶ **Hands-On Cadaver Lab Session: ACDF, Foraminotomy, Uncinate Resection, Exposure of the Vertebral Artery, Dissection of Hypoglossal, Glossopharyngeal, Recurrent Laryngeal, Superior Laryngeal Nerves, Diaphragm Muscle, Cricothyroidotomy, Odontoid Fixation**
- ▶ Bone Graft Options: Allograft, Autograft, Cages
- ▶ Transoral Resection of Dens
- ▶ Lateral Mass Screw Fixation
- ▶ Pedicle Screw Fixation C<sub>7-T</sub><sub>3</sub>
- ▶ **Hands-On Cadaver Lab Session: Anterior Cervical Fusion Techniques and Transoral Resection, Arthroplasty**

## Saturday, February 18, 2012 (8:00 a.m.–4:00 p.m.)

- ▶ 3D Demonstration: Laminoplasty, Foraminotomy
- ▶ Minimally Invasive Foraminotomy: Positioning, How to Place Tubes, Tricks and Pearls
- ▶ C<sub>1-2</sub> Posterior Fixation: C<sub>1</sub> Lateral Mass, C<sub>2</sub> Pars /Pedicle/ Translaminar C<sub>1-2</sub> Transarticular
- ▶ **Hands-On Cadaver Lab Session: Dural Repair, Laminoplasty, Foraminotomy, C<sub>1</sub> Lateral Mass, C<sub>2</sub> Fixation, C<sub>3-7</sub> Lateral Mass Screws and C<sub>7-T</sub><sub>3</sub> Pedicle Screws, Occipitocervical Fixation (continued through the afternoon)**

Register On-Line at <http://pa.slu.edu>

For course outline and additional details or to register, please visit our website at <http://pa.slu.edu> and click on workshop schedule/links choosing the current course. You can also find workshop details on accommodations and transportation. This workshop will be held at the PASE Learning Center at 3839 Lindell Boulevard, St. Louis, MO 63108. **Contact Information:** Phone: (314) 977-7400 Email: [pa@slu.edu](mailto:pa@slu.edu)

## Tuition Fees

Physician Fee  
**\$1,995**

Residents/Fellows/USA Military Fee  
**\$1,195** (Letter of verification required)

*Register by December 15 for Early Bird Rates. See Details Online.*

## Course Co-Directors

### *Robert F. Heary, MD*

Professor, Department of Neurosurgery  
Director of the Spine Research Laboratory  
University of Medicine and Dentistry of New Jersey  
New Jersey Medical School  
Neurological Institute of New Jersey  
Newark, NJ

### *John M. Rhee, MD*

Associate Professor, Department of Orthopaedic Surgery  
Emory University School of Medicine  
Emory Spine Center  
Atlanta, GA

## Course Advisor

### *K. Daniel Riew, MD*

Mildred B. Simon Distinguished Professor  
of Orthopaedic Surgery  
Professor of Neurological Surgery  
Department of Orthopaedics  
Washington University School of Medicine  
St. Louis, MO

## Invited Faculty

### *Dirk H. Alander, MD*

Professor, Department of Orthopaedic Surgery  
Saint Louis University School of Medicine  
St. Louis, MO

### *Ronald I. Apfelbaum, MD, FAANS*

Professor Emeritus of Neurosurgery  
University of Utah School of Medicine  
Salt Lake City, UT

### *Nitin N. Bhatia, MD*

Chief, Spinal Surgery  
Associate Professor  
Department of Orthopaedic Surgery  
University of California - Irvine School of Medicine  
Orange, CA

Faculty subject to last minute changes

### *Jacob M. Buchowski, MD, MS*

Assistant Professor of Orthopaedic and Neurological Surgery  
Department of Orthopaedic Surgery  
Director, Center for Spinal Tumors  
Washington University School of Medicine  
St. Louis, MO

### *Sanford E. Emery, MD, MBA*

Professor and Chairman  
Department of Orthopaedics  
West Virginia University School of Medicine  
Morgantown, WV

### *Timothy A. Garvey, MD*

President, Twin Cities Spine Center  
Minneapolis, MN

### *Paul Santiago, MD*

Associate Professor of Neurological and  
Orthopaedic Surgery  
Department of Neurological Surgery  
Washington University School of Medicine  
St. Louis, MO

### *Rick C. Sasso, MD*

Professor, Department of Orthopaedics  
Indiana University School of Medicine  
Indiana Spine Group  
Indianapolis, IN

### *Todd J. Stewart, MD*

Associate Professor of Neurological and Orthopedic Surgery  
Department of Neurological Surgery  
Washington University School of Medicine  
St. Louis, MO

### *Bobby Tay, MD*

Associate Clinical Professor  
Department of Orthopaedic Surgery  
University of California, San Francisco Spine Center  
University of California, San Francisco School of Medicine  
San Francisco, CA

### *Eric Truumees, MD*

Director of Spinal Research  
Seton Spine & Scoliosis Center  
University Hospital at Brackenridge  
Austin, TX

## Learning Objectives

The emphasis of this workshop is on surgical microanatomy and microdissection of the cervical spine. It will enhance the 3D anatomical knowledge of participants and sharpen their surgical skills of cervical decompression and stabilization techniques through discussion and/or repeat demonstrations of:

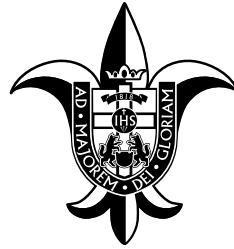
- the intricate anatomy of the uncinat process, nerve roots, vertebral artery and foramen
- the relationship of the above to each other
- anterior and posterior surgical approaches to the cervical spine
- posterior decompression techniques including laminotomy, foraminotomy, laminoplasty, laminectomy and facetectomy
- fusion techniques including occipital-cervical constructs, C<sub>1-2</sub> transarticular fixation, subaxial wire and plating constructs
- anterior decompression techniques including discectomy, foraminotomy and corpectomy
- anterior fusion techniques including Smith-Robinson and strut grafting as well as subaxial plate, odontoid fixation and cages
- transoral approach to dens resection

*Due to federal regulations, participants are not allowed to place products into the cervical spine that are not FDA-approved.*

**CONTINUING EDUCATION** Saint Louis University School of Medicine designates this live activity for a maximum of *15 AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**ACCREDITATION** Saint Louis University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The education the participant gains through our CME activities does not satisfy training requirements to perform the surgery



**SAINT LOUIS UNIVERSITY**  
Practical Anatomy & Surgical Education  
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St. Louis, MO 63108-3413

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St. Louis, MO  
Permit No. 1455

## Practical Anatomy

MISSION STATEMENT: Practical Anatomy & Surgical Education and Center for Anatomical Science and Education, Saint Louis University School of Medicine, is dedicated to the development and presentation of innovative medical health and science workshops. Practical Anatomy strives to promote the concept of lifelong learning by utilizing the latest technology to connect young people, residents, health care professionals and surgeons to world-class experts and faculty.

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