



# **New Advances in the Treatment of Spinal Disorders**

**SATURDAY NOVEMBER 7, 2009**

**Course Director:  
Patrick C. Hsieh, MD**

*sponsored by*

**The Department of Neurosurgery  
and  
The Office of Continuing Medical Education  
Keck School of Medicine of the  
University of Southern California**

**Los Angeles Marriott Hotel  
333 South Figueroa Street  
Downtown, Los Angeles, California**

**KECK**  
SCHOOL OF MEDICINE **USC**

## PROGRAM NEEDS ASSESSMENT

Back pain affects 80 percent of the U.S. population at some point in life. Many controversies exist in the management of back pain and other spinal diseases. The cost of treatment has exceeded \$86 billion per year, a rise of 65 percent in a decade. While various treatments for back pain, degenerative spine disease, and other spinal disorders exist, there are no uniformly accepted treatment algorithms. As the aging population continues to increase, more people are symptomatically affected by back pain and other spinal disorders. There is tremendous need to educate community clinicians and practitioners on the latest clinical data on treatments for degenerative spine diseases and other spinal disorders. In addition, community clinicians and practitioners should be introduced to new surgical treatments for spine disorders that have evolved over the past several years in attempt to improve the outcome of spine surgery.

This symposium will provide the latest literature data on various treatments for patients with spinal disorders. The topics that will be discussed in this seminar will include clinical presentation, diagnostic criteria, medical management, and surgical management of various spinal disorders. Recent randomized trial results on surgical treatment of degenerative spine disease and metastatic spine tumors will be highlighted and discussed. In addition, novel treatment options and current research activities on treatment of spinal disorders conducted by physicians at USC will be presented.

## PROGRAM OBJECTIVES

The goal of this program is to provide primary care providers, neurologists, neurosurgeons, oncologists and pain specialists with the necessary information to increase knowledge and improve performance through the accomplishment of the following objectives.

At the end of this course, the participant will be able to:

1. Outline the natural history, diagnosis, and management of degenerative spine disease; (1, 2)
2. Counsel on motivational and behavioral changes to improve quality of life for patients with debilitating back pain; (1, 2)
3. Discuss interventional pain strategies to improve management of patient condition; (1, 2)
4. Discuss physiotherapy strategies to improve management of patient condition; (1, 2)
5. Discuss class 1 evidence from randomized trials on management of degenerative spine diseases and metastatic spine tumors; (1, 2)
6. Provide knowledge on latest medical, non-surgical, and surgical treatment of spine diseases. (1, 2)

### ***CORE COMPETENCIES***

In alignment with the CME mission of the Keck School of Medicine, programs are planned in the context of desirable physician attributes and core competencies (six abilities that are central to the practice of medicine): 1) Patient Care, 2) Medical Knowledge, 3) Practice Based Learning, 4) Interpersonal and Communication Skills, 5) Professionalism and 6) Systems Based Practice, as designated by the American Board of Medical Specialties. Core competencies addressed in each of the activity objectives will be noted, using numbers 1-6, on this brochure and in the proceedings. This shall serve the best interests of the public and assist attendees in Maintenance of Certification.

# PROGRAM

7:00a Registration and Continental Breakfast

8:00 **Welcome and Course Overview**

*Patrick C. Hsieh, MD*

8:05 **EPIDEMIOLOGY AND OVERVIEW OF SPINAL DISORDERS**

*Azadeh Farin, MD*

## **MEDICAL and SURGICAL TREATMENT OF DEGENERATIVE SPINE DISORDERS -**

### **Module 1**

8:30 **PART I: PAIN MANAGEMENT PROGRAM**

*Ali Nemat, MD*

8:55 **PART II: PHYSICAL THERAPY TREATMENTS**

*Yogi S. Matharu, DPT*

9:20 **PART III: NEUROLOGICAL EVALUATION OF NEUROMUSCULAR DISORDERS AND NEUROPATHIC PAIN SYNDROMES**

*Soma Sahai, MD*

9:45 Refreshment Break

10:00 **RANDOMIZED PROSPECTIVE TRIALS ON DEGENERATIVE SPINAL DISORDERS - Review of the SPORT Trials**

*Azadeh Farin, MD*

10:40 **SPINE ARTHROPLASTY AND MOTION PRESERVATION TECHNOLOGY**

*Michael K. Rosner, MD*

11:30 **MINIMALLY INVASIVE SPINE SURGERY**

*Patrick C. Hsieh, MD*

11:45 **UPDATES ON INTRA-OPERATIVE NEURO-MONITORING**

*Andres A. Gonzalez, MD*

12:00N **Luncheon and Case Presentations**

## **TREATMENT STRATEGIES FOR COMPLEX SPINAL TUMORS - Module 2**

1:15p **MANAGEMENT OF METASTATIC SPINE TUMORS AND PRIMARY SPINE TUMORS FROM A MEDICAL ONCOLOGY PERSPECTIVE**

*Helen Gu, MD*

1:45 **METASTATIC SPINE TUMORS**

*Thomas C. Chen, MD, PhD*

2:15 **PRIMARY TUMORS OF THE SPINE**

*Patrick C. Hsieh, MD*

2:45 **CYBERKNIFE AND RADIOTHERAPY FOR TREATMENT OF SPINAL TUMORS**

*Paul Pagnini, MD*

3:15 **OVERVIEW OF SPINAL DEFORMITIES AND ITS SURGICAL MANAGEMENT**

*Patrick C. Hsieh, MD*

3:30 **SPINE RESEARCH UPDATES AT USC**

*Thomas C. Chen, MD, PhD*

4:00p Adjournment

### ***Cultural and Linguistic Competency - California AB 1195***

This activity is in compliance with California Assembly Bill 1195, which requires that all CME activities address cultural and linguistic competency in patient care delivery to meet the concerns of a diverse population through effective and appropriate professional development.

### **Acknowledgment**

We gratefully acknowledge the following companies for providing an educational grant to support this meeting:

**DePuy Spine      Globus Medical      Synthes Spine**

# PROGRAM FACULTY

## Guest Faculty

### **MICHAEL K. ROSNER, MD**

LTC, MC, USA

*Chief of Neurosurgery, Walter Reed Army Medical Center*

*Program Director, National Capital Consortium*

*Director of Neurosurgery Complex Spine, National Capital Consortium*

*Associate Professor in Surgery, Uniformed Services University of Health Sciences  
Washington, D.C.*

## USC Faculty at the Keck School of Medicine

### **THOMAS C. CHEN, MD, PhD**

*Course Co-Director*

*Associate Professor of Neurosurgery*

### **AZADEH FARIN, MD**

*Clinical Instructor of Neurological Surgery*

### **ANDRES A. GONZALEZ, MD**

*Assistant Professor of Clinical Neurology*

### **HELEN GU, MD**

*Clinical Instructor of Medicine*

### **PATRICK C. HSIEH, MD**

*Course Director*

*Assistant Professor of Clinical Neurological Surgery*

*Director of Minimally Invasive Spine Program*

### **YOGI S. MATHARU, DPT**

*Assistant Professor of Clinical Physical Therapy*

### **ALI NEMAT, MD**

*Assistant Professor of Clinical Anesthesiology and Medicine*

*Department of Anesthesiology*

### **PAUL PAGNINI, MD**

*Assistant Professor of Radiation Oncology*

*Department of Radiation Oncology*

### **SOMA SAHAI, MD**

*Clinical Assistant Professor of Neurology*

#### **Faculty Disclosure Statement**

Current guidelines state that participants in continuing medical education activities should be aware of any affiliation or financial interest that could affect the speaker's presentation(s). The Accreditation Council for Continuing Medical Education policy mandates that the provider adequately manages all identified potential conflicts of interest prior to the program. Faculty members have completed disclosure forms and potential conflicts of interest have been reviewed and resolved prior to the program. All disclosures must be listed in the course syllabus.

# ACCREDITATION

The Keck School of Medicine of the University of Southern California is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Keck School of Medicine of the University of Southern California designates this educational activity for a maximum of *7AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

# REGISTRATION INFORMATION

## COURSE LOCATION:

Los Angeles Marriott Hotel  
333 South Figueroa Street  
Downtown, Los Angeles, CA 90071  
(213) 617-1133

**Guest Rooms Available:** Please note that we do NOT have a room block at the hotel. Call the hotel directly for current rates.

## REGISTRATION LOCATION:

Registration begins Saturday, November 7, 2009 at 7:00 a.m. in the Grand Ballroom Foyer - Second Floor.

## TUITION:

\$55 **Non-refundable**  
Cost includes lunch, breaks, parking, and course materials. Pre-payment requested.

Call (800) USC-1119 or (323) 442-2555 to register or fax registration to (888) 665-8650.

## PARKING:

Parking will be fully validated for those who valet park at the hotel. **There is NO validation for The World Trade Center lot.** Please bring your ticket to the registration desk for validation.



If you have a disability, advance notification by October 30, 2009 of any special needs will help us to better serve you.

If you register within 3 weeks of the course, please check with the Office of CME for space availability and program changes before making travel arrangements.

To register on-line, go to [www.peopleware.net/0128](http://www.peopleware.net/0128) and choose course #2575.  
Visit our web site at [www.usc.edu/cme](http://www.usc.edu/cme) or  
email us at [usccme@usc.edu](mailto:usccme@usc.edu)

## PROGRAM APPLICATION FOR

**#2575 New Advances in the Treatment of Spinal Disorders**  
Saturday, November 7, 2009

Tuition: \$55.00 - MD ♦ Pre-Payment Requested - Non-Refundable

(PRINT)

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Please mail check for appropriate amount made payable to the *University of Southern California* and this application to **The Office of Continuing Medical Education, Keck School of Medicine of USC**, 1975 Zonal Avenue, KAM 317, Los Angeles, CA 90033-1039. Call (800) USC-1119, (323) 442-2555 or Fax (888) 665-8650. To register on-line, go to [www.peopleware.net/0128](http://www.peopleware.net/0128) and choose course #2575.

E-mail [usccme@usc.edu](mailto:usccme@usc.edu) or visit our web site at [www.usc.edu/cme](http://www.usc.edu/cme) Courses are subject to cancellation. Please check with the Office of CME for availability if you register within 3 weeks prior to the starting date. **USC will not refund travel costs for cancelled courses.**

# **New Advances in the Treatment of Spinal Disorders**

## **Saturday, November 7, 2009**

### **The Los Angeles Marriott Hotel, 333 So. Figueroa Street, Los Angeles**

**Office of Continuing Medical Education  
Keck School of Medicine of the  
University of Southern California  
1975 Zonal Avenue, KAM 317  
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