

We welcome your questions about treatments and patient referrals.  
**(844) 872-3475**

**Keck Medicine of USC**  
BEYOND EXCEPTIONAL MEDICINE™

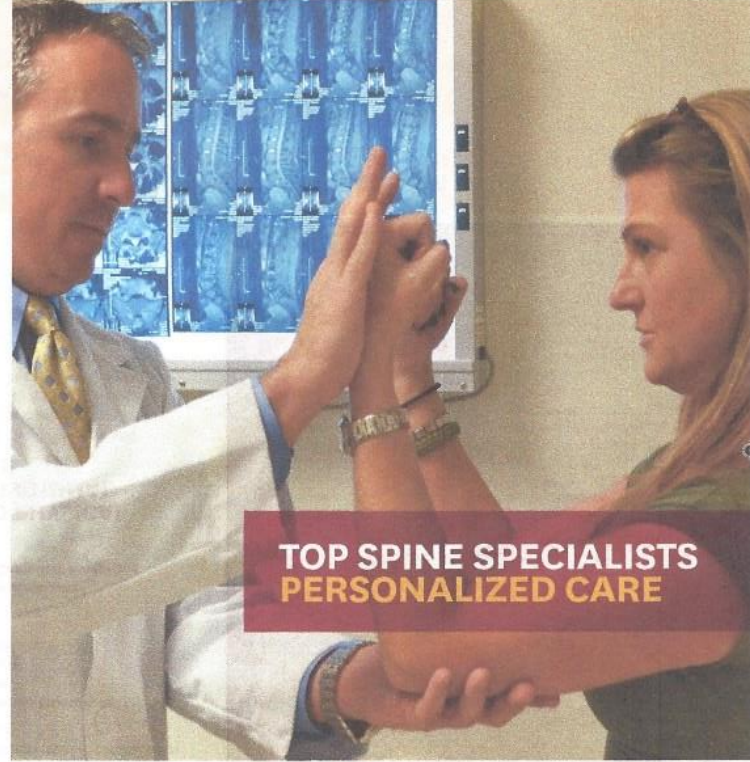
University of Southern California  
551-2830, 2011 N. Soto St.  
Los Angeles, CA 90032

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UNIVERSITY OF  
SOUTHERN  
CALIFORNIA

**MEETING ALL SPINE NEEDS**

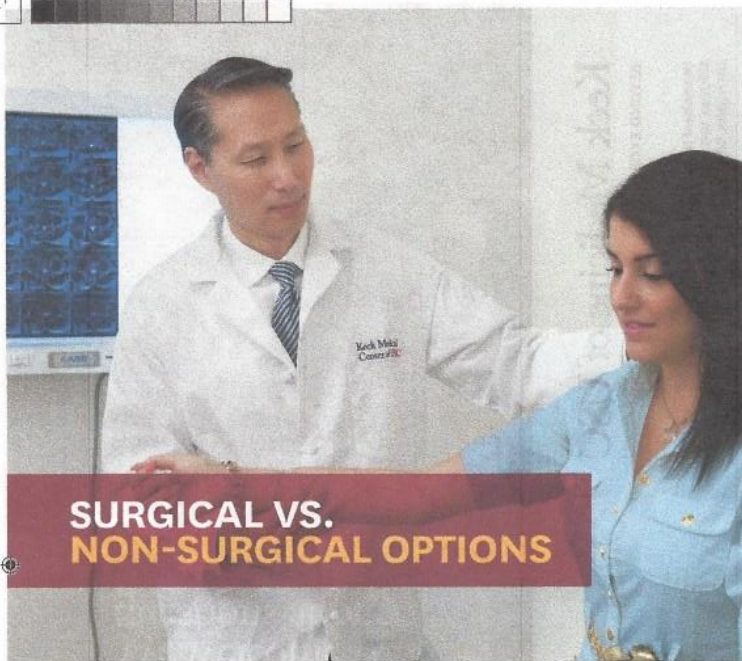
To refer a patient, call:  
**(844) 872-3475**

USC SPINE CENTER AT KECK MEDICINE OF USC



**TOP SPINE SPECIALISTS  
PERSONALIZED CARE**

**Keck Medicine of USC**  
BEYOND EXCEPTIONAL MEDICINE™



## SURGICAL VS. NON-SURGICAL OPTIONS

For answers to all neck, spine and back disorders, Keck Medicine of USC's spine center offers a variety of traditional and non-traditional treatments to meet the needs of all of our patients.

Our internationally renowned team includes fellowship-trained and board-certified spine specialists who provide comprehensive operative and non-operative spine care. Our capabilities range from general pain management, degenerative spine disorders, trauma and deformities to oncological treatment of brain and spine tumors.

The USC Spine Center's multi-faceted team has expertise in both traditional and minimally invasive surgical options. Based on the nature

of the condition and the treatment needed, sometimes traditional surgery is the best option.

Our team is dedicated to providing the most appropriate treatment options for the varied and complex clinical problems that are associated with the neck and the back. Some of the conditions treated include:

- **Herniated disc**
- **Lumbar disc**
- **Cervical disc**
- **Spinal stenosis**
- **Failed spine surgery**

### ADVANCED TECHNIQUES AID DIAGNOSIS

We use a variety of methods and testing available for high-quality visualization and evaluation of anatomy and function, including:

- **Imaging such as MRI, CAT scan, X-ray**
- **EMG Nerve Conduction Studies**
- **Motor-evoked Potentials**
- **Bone Density Testing**
- **Bone Scan Testing**
- **Tumor Pathology Expert Examination**

### NON-SURGICAL TREATMENT GETS EXCELLENT RESULTS

Our philosophy is to treat conditions conservatively first, using non-operative approaches such as physical therapy, medications and spinal injections. Up to 90 percent of our patients report major symptom relief and can potentially avoid surgery.

### MINIMALLY INVASIVE SURGERY FOR BETTER OUTCOMES

When surgery is needed, our physicians are proficient at complicated procedures. We use minimally invasive approaches proven to decrease post-operative pain and help patients regain mobility sooner, compared to traditional methods.

- **Endoscopic-assisted Procedures**
- **Microdiscectomy**
- **Microlaminectomy**
- **Spinal Decompression**
- **Spinal Fusion**
- **Lumbar Fusion**
- **Artificial Disc Replacement**
- **Intraoperative Computer Navigation**

### #1 RANKED PHYSICAL AND OCCUPATIONAL THERAPISTS

USC's graduate program in Physical and Occupational Therapy continues to earn #1 rankings in the country from *U.S. News & World Report* because teachers and graduate students are superior in clinical practice, education and research. Your patients will receive customized therapy from some of the best rehabilitation specialists in the nation.



For emergencies, call the USC One Call Transfer Center to speak with a nurse intake specialist and attending physician:

**(855) 872-2337**

### OUR PHYSICIANS ARE ACCOMPLISHED SPECIALISTS HELPING PATIENTS MAKE THE BEST TREATMENT DECISIONS

Frank Acosta, MD

Thomas Chen, MD, PhD

Patrick Hsieh, MD

John C. Liu, MD

Christopher Ornelas, MD

Mark Spoonamore, MD

Jeffrey C. Wang, MD

#### Featured areas of focus:

- Adult Spine Deformity
- Cervical Disc Injury
- Chronic Back Pain
- Complex Reconstructive Spine Surgery
- Complex Spine Disorders
- Degenerative Disc Herniation
- Degenerative Spine Disorder
- Failed Back Syndrome
- Infection
- Instrumentation
- Laminectomy
- Lumbar Fusion
- Minimally Invasive Spine Surgery
- Neck and Back Surgery
- Neuro-Oncology
- Revision Spinal Reconstruction
- Scoliosis
- Spinal Conditions Due to Aging
- Spinal Decompression
- Spinal Deformity Surgery
- Spinal Disc Herniation
- Spinal Oncology
- Spinal Stenosis
- Spine Infections and Tumors

### Keck Medicine of USC 3 Convenient Locations

**Beverly Hills**  
9033 Wilshire Blvd., Suite 400

**Los Angeles**  
USC Healthcare Center 4  
1450 San Pablo St., 5th Floor

**Pasadena**  
625 S. Fair Oaks Ave., Suite 400