

# Keck Medicine of USC

BEYOND EXCEPTIONAL MEDICINE™



## MINIMALLY INVASIVE SURGERY FOR LUMBAR SPINE

The USC Spine Center offers four advanced MIS procedures to minimize tissue damage, blood loss, and pain:

- Microdiscectomy, also called microlumbar discectomy (MLD), is ideal for patients with a painful lumbar herniated disc.
- Microlaminectomy helps patients with symptomatic, painful lumbar spinal stenosis, accomplishing a lumbar decompression of three spinal levels or fewer.
- Spinal decompression can refer to several treatments that relieve pain and pressure on the spinal cord and nerve roots.
- Transforaminal lumbar interbody fusions (TLIF) require surgical grafting of two or more lumbar spine bones together. Spinal fusions, including motion preservation procedures, can stabilize the spine using novel implants, state-of-the-art instrumentation and disc replacement techniques. TLIF can be performed with minimally invasive techniques for faster recovery.

## MINIMALLY INVASIVE SURGERY

### Cutting-edge spine surgery techniques mean faster recovery times

Minimally invasive surgery (MIS) treatments from the USC Spine Center at Keck Medicine of USC can give patients with degenerative or complex spinal conditions a head start at getting back to their life.

Procedures are performed with small incisions, using cutting-edge intraoperative navigation and imaging systems that work together to allow surgeons to more easily and accurately treat complex spinal cases. This improves outcomes by making complex cases more effective, safe, and accurate. While the majority of surgeries in the United States are performed without this navigational assistance, Keck Medicine is equipped with three of these systems.

After an MIS procedure, patients typically go home the same day or next morning. Teamed with a comprehensive physical therapy program and post-operative education, patients can quickly return to the independent lifestyle they knew before.

# MINIMALLY INVASIVE SURGERY

## MIS TECHNIQUES

- MIS cervical foraminotomy for cervical nerve pain
- MIS spine trauma fixation
- MIS spine tumor resection
- MIS thoracic and lumbar decompression for stenosis
- MIS thoracic and lumbar discectomy
- MIS thoracic and lumbar fusion

## EXPERT MEDICAL TEAM

### Thomas C. Chen, MD, PhD

Professor of Neurological Surgery and Orthopaedic Surgery

### David S. Cheng, MD

Clinical Assistant Professor of Neurological Surgery

### Raymond J. Hah, MD

Assistant Professor of Orthopaedic Surgery and Neurological Surgery

### Patrick C. Hsieh, MD

Professor of Neurological Surgery and Orthopaedic Surgery

### John C. Liu, MD

Professor of Neurological Surgery and Orthopaedic Surgery  
Co-Director, USC Spine Center

### Christopher C. Ornelas, MD

Assistant Professor of Orthopaedic Surgery and Neurological Surgery

### Mark J. Spoonamore, MD

Associate Professor of Orthopaedic Surgery and Neurological Surgery

### Jeffrey C. Wang, MD

Professor of Orthopaedic Surgery and Neurological Surgery  
Co-Director, USC Spine Center

## LOCATIONS

### Arcadia

125 W. Huntington Dr., Bldg. B, Suite B200, Los Angeles, CA 90033

### Beverly Hills

9033 Wilshire Blvd., Suite 400, Beverly Hills, CA 90211

### Glendale

1818 Verdugo Blvd., Suite 300, Glendale, CA 91208

### La Cañada Flintridge

1751 Foothill Blvd., Suite 2, La Canada, CA, 91011

### Los Angeles

Healthcare Center 4, 1450 San Pablo St., Suite 5400, Los Angeles, CA 90033

### Pasadena

625 S. Fair Oaks Ave., Suite 400, Pasadena, CA 91105

To make an appointment, call

**(800) USC-CARE**  
**(800) 872-2273**

[spine.keckmedicine.org](http://spine.keckmedicine.org)

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