



Ripul R. Panchal, D.O., F.A.C.O.S., F.A.C.S.

Philosophy of Care

Dr. Panchal integrates his growing interest in spine pathophysiology and biomechanics with his humanistic inclinations to provide the most comprehensive, compassionate neurosurgical care.

Clinical Interests

Dr. Panchal's clinical subspecialty is the management of spinal disorders including trauma, tumors (spinal and intradural), degenerative disease and osteoporotic fractures, adult deformity, infection, complex spinal revision and reconstructive surgeries.

His surgical expertise includes minimal invasive spine surgery, computer-assisted surgery, and motion preservation surgery (disc replacement surgery).

Research/Academic Interests

Dr. Panchal's research focuses on biomechanics of the spine, spine and spinal cord injuries, and spinal instrumentation. He also is involved in national clinical trials involving cervical spondylolytic myelopathy, spinal cord injury, biologics to enhance spinal fusion, and stem cells for lumbar disc regeneration and cervical fusion.

Dr. Panchal has been invited to present his research at the national level and serves as a peer reviewer for Global Spine Journal, The Spine Journal, The Journal of the American Osteopathic Association, and World Journal of Orthopedics.

Title Assistant Professor

Specialty Neurological Surgery, Spine Surgery

Department [Neurological Surgery](#)

Division Neurological Surgery

Center/Program Affiliation [Spine Center](#)

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Languages Gujarati

Education D.O., Des Moines University, Des Moines IA 2005

B.S., Benedictine University, Lisle IL 2001

Internships Riverside County Regional Medical Center, Moreno Valley CA 2005-2006



Ripul R. Panchal, D.O., F.A.C.O.S., F.A.C.S.

Residency Neurological Surgery, Arrowhead Regional Medical Center/Western University, Colton CA 2006-2011

Fellowships Complex and Reconstructive Spine Surgery, UC Davis Medical Center, Sacramento CA 2011-2012

Board Certifications American Osteopathic Board of Surgery-Neurological Surgery, 2012

Professional Memberships American College of Osteopathic Surgeons (ACOS)
American Osteopathic Association
AO Spine
California Association of Neurological Surgeons
Congress of Neurological Surgeons
Council of State Neurosurgical Societies
Indo-American Spine Alliance
North American Spine Society
Scoliosis Research Society

Honors and Awards UC Davis Medical Center GME High Value Competition Award, 2015
UC Davis Medical Center Excellence in Quality, 2015
Teaching in Excellence Award, Department of Neurological Surgery - University of California, Davis, 2015
George W. Northup, DO, Medical Writing Award, 2011
Osteopathic Physicians and Surgeons of California's Resident Research Paper Award, 2010
Scientific Poster Presentation in the field of Neurological Surgery, ACOS, 2010
Robert C. Erwin Literary Award, 2010
Residency Advisory Committee Service Award, 2007

Select Recent Publications Lee DJ, Kim SB, Rosenthal R, Panchal RR, Kim KD. Stereotactic guidance for navigated percutaneous sacroiliac joint fusion. *Journal of Biomedical Research*. 2016;30(2): 162-167.

Liu JJ, Cadena G, Panchal R, Schrot R, Kim KD. Relief of cervicogenic headaches after single level and multilevel anterior cervical discectomy: a five-year post-hoc analysis. *Global Spine Journal*. 2015.

Gill RK, Smith ZJ, Panchal RR, Bishop JW, Gandour-Edwards R and Wachsmann-Hogiu S.



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Preliminary fsLIBS Study on Bone Tumors. *Biomedical Optics Express*. 2015; 6(12): 4850-4858.

Egerter AC, Kim ES, Lee DJ, Liu JJ, Cadena G, Panchal RR and KD Kim. Dysphagia Secondary to Anterior Osteophytes of the Cervical Spine. *Global Spine Journal*. 2015; 5(5): e78-83.

Panchal RR, Matheis EA, Gudipally M, Hussain MM, Kim KD, Bucklen BS. Is lateral stabilization enough in thoracolumbar burst fracture reconstruction? A biomechanical investigation. *Spine J*. 2015; 15(10): 18-21.

Panchal RR: Chapter 12: Cervicothoracic Junction Injuries, Alex R. Vaccaro and F. Cumhuri Oner, (ed), *AOSpine Masters Series: Cervical Spine Trauma, Vol. 5*, Thieme Publishers, New York. 2015.

Panchal RR, Kim KD and Vaccaro AR: Chapter 9: Classification of Upper Cervical Fractures, H S Chhabra, (ed), *International Spinal Cord Society (ISCoS) Textbook on Comprehensive management of SCI*, Wolters Kluwer India. 2015.

Panchal RR, Duong HT, Shahlaie K, Kim KD. Cervical spinous process reconstruction. *Journal of Neurosurgery. Spine*. 2014; 20(1): 18-21.

Cramer D, Miulli D, Valcore J, Taveau JW, Do N, Hutton DS, Sonti G, Wogu E, Boorman CF, Panchal RR. The effects of osteopathic manipulation on intracranial pressure in patients with severe closed injuries. *The Journal of the American Osteopathic Association*. 2010 April; 110(4): 232-238.

Glick RP, Lichtor T, Panchal R, Mahendra A, Cohen EP. Treatment of allogeneic interleukin-2 secreting fibroblasts protects against the development of malignant brain tumors. *Journal of Neuro-Oncology*. 2003 Aug; 64(1-2): 139-46.



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