

UC Davis Medical Group Directory

Your guide to primary and specialty health-care providers



Patient information and
appointment assistance:

800-2-UCDAVIS
(800-282-3284)



Provider referral and
transfer assistance:

800-4-UCDAVIS
(800-482-3284)



UCDAVIS
MEDICAL GROUP

medicalgroup.ucdavis.edu

UC Davis Medical Group offers nationally renowned primary care and specialty expertise based at UC Davis Medical Center and multiple medical offices across the greater Sacramento region. Medical group physicians, nurse practitioners and clinical nurse specialists emphasize wellness and prevention, apply the latest knowledge to solve health problems and offer access to promising clinical trials, newly proven therapies and advanced technologies when needed.

FOR PATIENTS

Find a UC Davis physician, nurse practitioner or clinical nurse specialist

Consumer Resource Center: **800-2-UCDAVIS (800-282-3284)**

- General information about available providers and services
- Assistance with appointments and referrals
- Information about accepted insurance plans

Established UC Davis patients can also use the MyChart web-based portal to communicate with their care teams, request certain appointments and refills, access medical records and more.

FOR HEALTH PROFESSIONALS

Outpatient referrals and provider phone consultations

UC Davis Physician Referral Center: **800-4-UCDAVIS (800-482-3284) Option #2** Monday | Friday, 8 a.m. to 5 p.m. Or online (non-urgent) requests via referrals.ucdavis.edu

- Information about availability of specialty services
- Coordination and status of referrals to specialty services
- Assistance for provider-to-provider phone consultations with specialists

Acute interfacility transfers and after-hours consultations

24/7 Transfer Center: **800-4-UCDAVIS (800-482-3284)**

- Round-the-clock, R.N.-led coordination of acute interfacility transfers
- After-hours coordination of emergent provider-to-provider telephone consultations for complex or unusual cases
- transfer requests evaluated based upon clinical urgency, availability of resources and other factors

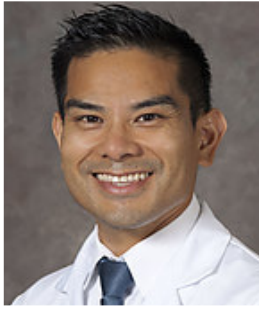
Referring physicians can receive real-time access to test results and clinical information for their patients at UC Davis through the PhysicianConnect online electronic medical record.

Jason Matthew Cage, D.O.

Jason Matthew Cage welcomes LGBT patients.

Title	Orthopaedic Spine Surgery Fellow
Specialty	Orthopaedic Surgery
Division	Orthopaedic Surgery
Center/Program Affiliation	Spine Center
Address/Phone	Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	D.O., Virginia College of Osteopathic Medicine, Blacksburg VA 2008 B.S., Virginia Military Institute, Lexington VA 2004
Internships	General Surgery, Brooke Army Medical Center, San Antonio TX 2009
Residency	OrthoPaedic Surgery, Tripler Army Medical Center, Honolulu HI 2015

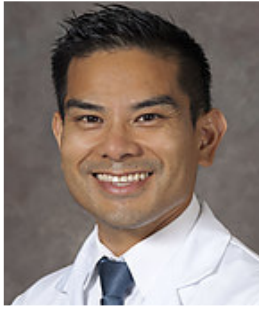
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Charles De Mesa, D.O., M.P.H.

Charles De Mesa welcomes LGBT patients.

Philosophy of Care	Holistic approach to treating patients with an emphasis on wellness recognizing the musculoskeletal system as a key element of health.
Clinical Interests	Dr. De Mesa's clinical interests include: Traditional intervention spine techniques, Ultrasound-guided pain interventions, Musculoskeletal Pain Medicine, and Manual Therapy.
Research/Academic Interests	Dr. De Mesa's research interests include: Dynamic neuromusculoskeletal ultrasound and compressive neuropathies such as neurogenic thoracic plexus pathology.
Title	Director of Pain Medicine Fellowship Director of Musculoskeletal Pain Medicine Assistant Professor Department of Anesthesiology and Pain Medicine
Specialty	Anesthesiology Pain Medicine, Physical Medicine and Rehabilitation, Musculoskeletal Pain Medicine
Division	Pain Medicine
Center/Program Affiliation	Spine Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 2700 Sacramento, CA 95817 Phone: 916-734-7246 Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	D.O., A.T. Still University ? Kirksville College of Osteopathic Medicine, Kirksville MO 2010 M.P.H., Environmental and Occupational Health, University of Hawaii-Manoa, Honolulu HI 1999 B.S., Boston College, Chestnut Hill MA 1997
Internships	Maimonides Medical Center, Brooklyn NY 2010-2011
Residency	Physical Medicine and Rehabilitation, Baylor College of Medicine, Houston TX 2010-2013 Chief Academic Resident- Physical Medicine and Rehabilitation, Baylor College of Medicine, Houston TX 2013-2014
Fellowships	Pain Medicine, UC Davis Medical Center, Sacramento CA 2014-2015



Charles De Mesa, D.O., M.P.H.

Board Certifications

American Board of Physical Medicine and Rehabilitation
American Board of Physical Medicine and Rehabilitation, Pain Medicine

Professional Memberships

American Academy of Pain Medicine
American Association of Physical Medicine and Rehabilitation
American Medical Association
American Osteopathic Association

Honors and Awards

UC Davis Division of Pain Medicine Gary Collins, M.D. Memorial Fellow Teacher of the Year Award, 2015
Oliver R. Smith, M.D. Award for Outstanding Resident, 2014
Carlos Vallbona, M.D. Professionalism Award, 2014
Baylor College of Medicine / University of Texas PMR Alliance Resident Teacher of the Year Award, 2014
Drs Isabelle and Josephine Morelock Osteopathic Scholarship Award ATSU-KCOM, 2008
Excellence Award, ATSU-KCOM Area Health Education Preventive Medicine and Community Service, 2007

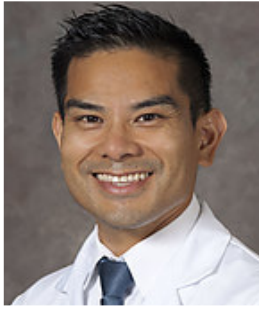
Select Recent Publications

De Mesa C, Chu I, Furukawa K, Sheth S. Use of Continuous Femoral and Sciatic Nerve Catheters to Facilitate a Multidisciplinary Inpatient-Based Rehabilitation Plan in a Child with Lower Extremity Type 1 Complex Regional Pain Syndrome. *Am J Phys Med Rehabil.* 2015 Nov;94(11): e114-5.

De Mesa C, Crump ME, Anti-AMPA Receptor Limbic Encephalitis presenting with Ovarian Teratoma, Encephalopathy and Autonomic Instability-A Case Report. *PM&R Journal of Injury, Function and Rehabilitation.* 2013 Sept Vol 5, Issue 9, Pages S273-274.

De Mesa C, Amley, X, Lam, P, Seales, M, Kerstein, J. Mediastinitis following a routine dental procedure in a patient with history of cardiac surgery. *N A J Med Sci.* 2011;4(4):245-248.

Boyчук RB, De Mesa CJ, Kiyabu KM, Yamamoto F, Yamamoto LG, Sanderson R, Gartner B, Donovan R, Beckham S, Pang C, Fanucchi R, Chong V. Change in approach and delivery of medical care in children with asthma: results from a multicenter emergency department



Charles De Mesa, D.O., M.P.H.

educational asthma management program. *Pediatrics*. 2006 Apr; 117(4Pt 2):S145-51.

De Mesa CJ, Pang CK, Kiyabu KM, Yamamoto FY, Sanderson RR, Gartner BM, Beckham S, Asuncion DA, Nekoba AC, Kitayama J, Teruya BY, Boychuk RB. Demographics and characteristics of wheezing/asthmatic children with repeat emergency department visits in O'ahu, Hawai'i. *Hawaii Med J*. 2006 Feb;65(2):40-5.

Humphries M, Salhan N, De Mesa C. Ultrasound-guided pectoralis minor muscle block to aid diagnosis of neurovascular pectoralis minor syndrome. *Society for Vascular Surgery*. 2016.

Humphries M, De Mesa C, Sheth S, Salhan N, Freischlag J. Ultrasound-guided Anesthetic or Botulinum Toxin Injection of the Anterior and Middle Scalene muscles to assist with diagnosis and treatment of neurogenic Thoracic Outlet Syndrome. *Society for Vascular Surgery*. 2016.

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Scott Fishman, M.D.

Clinical Interests	Dr. Fishman is continuing his educational and research activities in chronic pain, cancer pain management, psychiatric issues of chronic illness and pain, neuropathic pain treatment strategies, and medical informatics.
Title	Chief of Pain Medicine Professor Vice Chair for Pain Medicine & Faculty Development
Specialty	Anesthesiology, Hospice and Palliative Medicine, Pain Medicine
Department	Anesthesiology
Division	Pain Medicine
Clinic	Pain Management Clinic
Center/Program Affiliation	UC Davis Medical Group Spine Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 2700 Sacramento, CA 95817 Phone: 916-734-7246 UC Davis Medical Group - Folsom, 1370 Prairie City Rd. Folsom, CA 95630 Phone: 916-985-9300
Additional Phone	Clinic Phone: 916-734-7246 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., University of Massachusetts Medical School, Worcester, Massachusetts, 1990 B.A., Hampshire College, Amherst, Massachusetts, 1981
Internships	Greenwich Hospital, Yale University, New Haven, Connecticut, 1992
Residency	Greenwich Hospital, Yale University, New Haven, Connecticut, 1992 Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, 1996
Fellowships	Massachusetts General Hospital, Harvard Medical School, Cambridge, Massachusetts, 1995
Board Certifications	American Board of Internal Medicine, 2005 American Board of Pain Medicine

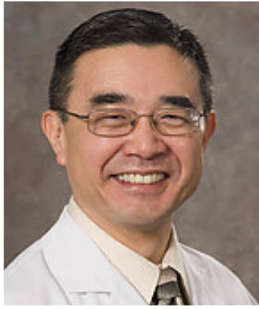


Scott Fishman, M.D.

American Board of Psychiatry and Neurology, 2010

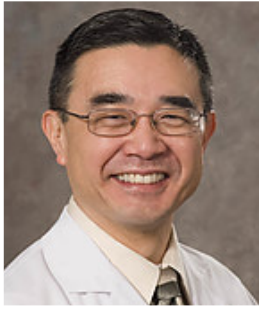
American Board of Psychiatry and Neurology, 2010

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Kenneth Furukawa, M.D.

Clinical Interests	Dr. Furukawa specializes in pediatric anesthesiology, acute pain management including the perioperative period, and pediatric and adult chronic pain management. An area of interest is anesthesia and pain management of burned patients.
Title	Health Sciences Clinical Professor
Specialty	Anesthesiology, Pain Medicine, Pediatric Anesthesiology
Department	Anesthesiology
Division	Pain Medicine Pediatric Anesthesiology
Center/Program Affiliation	Spine Center UC Davis Children's Hospital
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 2700 Sacramento, CA 95817 Phone: 916-734-7246 Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., University of Texas Medical Branch at Galveston, Galveston TX 1985 B.A., Pomona College, Claremont CA 1981
Internships	The University of Texas Medical Branch, Galveston TX 1986
Residency	The University of Texas Medical Branch, Galveston TX 1987 Walter Reed Army Medical Center, Washington, D.C. 1992
Board Certifications	American Board of Anesthesiology, 1993 American Board of Anesthesiology, Pain Medicine, 1998
Professional Memberships	American Burn Association American Medical Association American Society of Anesthesiologists and California Society of Anesthesiologists American Society of Regional Anesthesia and Pain Medicine California Medical Association



Kenneth Furukawa, M.D.

Honors and Awards

Sierra Sacramento Valley Medical Society
Society for Pediatric Anesthesia
Society for Pediatric Pain Medicine
UC Davis Pain Management Center Teacher of the Year, 2008
Meritorious Service Medal with 3 oak leaf clusters
Army Commendation Medal with 5 oak leaf clusters
North Atlantic Treaty Organisation (NATO) Service Ribbon, 1999
Army National Defense Service Ribbon, 1991
Reserve Forces Service Ribbon, 1991
Army Achievement Medal, 1988
Distinguished Military Graduate, 1981
Reserve Officers Training Corporation (ROTC) Award, Pomona College, 1981

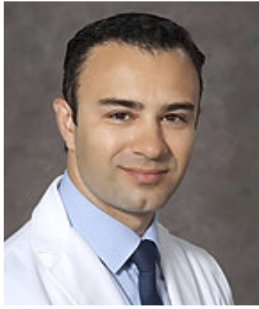
Select Recent Publications

Devera HV, Furukawa KT, Scavone JA, Matson M, Tumber S. Interscalene blocks in anesthetized pediatric patients. *Reg Anesth Pain Med.* 2009 Nov-Dec;34(6):603-4.

DeVera HV, Furukawa KT, Matson MD, Scavone JA, James MA. Regional techniques as an adjunct to general anesthesia for pediatric extremity and spine surgery. *J Pediatr Orthop.* 2006 Nov-Dec;26(6):801-4.

Reynolds PC, Furukawa KT. Modern draw-over anesthetic vaporizers used to deliver anesthesia in austere and battlefield conditions. *Mil Med.* 2003 May;168(5):ii-iii.

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Yashar Javidan, M.D.

Yashar Javidan welcomes LGBT patients.

Philosophy of Care

As an adult and pediatric orthopaedic spine surgeon, I understand the challenges facing patients with spinal disorders. I treat each patient as an individual with unique needs and use a team approach to enable timely, effective diagnoses and treatments.

I believe in educating patients as much as possible about their condition and available treatment alternatives. My staff is dedicated to providing this information and answering questions, so you can take an active part in your own care decisions.

Clinical Interests

Dr. Javidan's interest in spinal deformity surgery started in residency at University of Southern California, Keck School of Medicine. He gained a tremendous volume of experience in spinal deformity surgery at University of California, Davis Spine Fellowship.

He currently practices at UC Davis and Shriners Hospital of Northern California. We treat severe spinal deformity more successfully today than ever before, but many questions remain regarding the best course of treatment. As faculty of the UC Davis Spine Center he looks forward to continued research and teaching of new orthopaedic surgeons here at UC Davis.

Title Assistant Professor

Specialty Adult and Pediatric Spinal Surgery

Department [Orthopaedic Surgery](#)

Division Orthopaedic Surgery

Center/Program Affiliation [Spine Center](#)

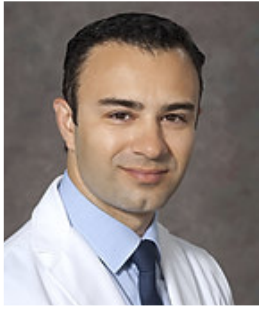
Address/Phone Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816
Phone: 916-734-7463

Additional Phone Physician Referrals: 800-4-UCDAVIS (800-482-3284)

Education M.D., Chicago Medical School, Chicago IL 2009
B.S., UC Irvine, Irvine CA 2005

Residency Orthopaedic Residency, Keck School of Medicine, Los Angeles CA 2014

Fellowships Spine Surgery, UC Davis Medical Center, Sacramento CA 2015



Yashar Javidan, M.D.

Board Certifications American Board of Surgery

Professional Memberships American Academy of Orthopaedic Surgeons
Scoliosis Research Society

Select Recent Publications Javidan Y, J. Mathew Cage. Pyogenic Infections of the Spine Chapman's comprehensive Orthopaedic Surgery, Fourth Ed. Editors: Michael W. Chapman and Michelle A. James. 2015.

Seehausen DA, Andras L, Javidan Y, Skaggs DL. Safety and Efficacy of Power-Assisted Pedicle Tract Preparation and Pedicle Screw Placement. Spine Deformity. 2015.

Kramer J, Javidan Y, Smith J. The Value Of Disk Replacement? In Seminars in Spine Surgery (Sam W. Wiesel MD, Scott D. Boden MD) Volume 26, Issue 1, Pages 45–51. 2014.

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J. Patrick Johnson, M.D., M.S.

J. Patrick Johnson welcomes LGBT patients.

Philosophy of Care

As a spinal surgeon I want to treat patients and their families with the same care I want for me and my family. This means providing the highest degree of professionalism that exists today to provide compassionate care and the best possible clinical outcomes with the most efficient and lasting results.

Clinical Interests

My clinical interests include a wide variety of essentially all aspects of spinal surgical problems that include degenerative and traumatic problems, neoplasms, tumors, vascular lesions, infections, congenital abnormalities, spinal deformity including scoliosis and kyphosis and failed surgical cases involving all regions and levels of the spinal column. A particular interest that I have always welcomed is evaluating and treating spinal problems that are considered the most complex and challenging that most surgeons are not will to take into consideration.

Research/Academic Interests: Clinical research has been a career-long focus of my daily practice as a spine surgeon. We have been involved in the development of many new concepts in spinal implant technologies and these include FDA/IDE studies of artificial discs that are now used in regular clinical practice. We have also been doing clinical research to develop computer guided spine surgical techniques, since their inception in the early 1990's that is now becoming a mature technology used in daily practice. We now are now merging endoscopic surgery with computer guided surgery to improve precision and perform the most complicated surgeries with less invasive techniques.

Basic research interests in application of stem cell technologies that have been related to translational research in collaboration with basic scientists to develop new methods of cellular technology to repair spinal discs and bone repair as well as repair of nerve and spinal cord injuries and abnormalities.

Title Clinical Professor, Co-Director Neurosurgery Spine Fellowship Program

Specialty Neurological Surgery

Department [Neurological Surgery](#)

Division Neurological Surgery

Clinic Neurological Surgery Clinic

Center/Program Affiliation [Spine Center](#)



J. Patrick Johnson, M.D., M.S.

Address/Phone	Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Phone: 310-423-9792 Clinic Phone: 916-734-7463 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Spanish
Education	M.D., Oregon Health & Science University School of Medicine, Portland, Oregon, 1986 M.S., Oregon Health & Science University School of Medicine, Portland, Oregon, 1981 B.A., The Citadel, Charleston, SC, 1978
Internships	UCLA Medical Center, Los Angeles, CA, 1987
Residency	UCLA Medical Center, Los Angeles, CA, 1992
Fellowships	National Hospital for Nervous Diseases, Queen Square, London, 1990 University of Tennessee, Memphis, TN, 1993
Board Certifications	American Board of Neurological Surgery, 1996
Professional Memberships	AANS/CNS Joint Spine Section ? Executive Committee American Association for the Advancement of Science American Association of Neurological Surgeons American Association of Spine Physicians American College of Surgeons California Association of Neurological Surgeons ? Director and Board Member Congress of Neurological Surgeons Editorial Board Member, Journal of Critical Spine Cases, 2009-present Editorial Board Member, Neurosurgery, 2010-present Editorial Board Member, Surgical Neurology, 2005-2011 Editorial Board Member, The Spine Journal (Journal of the North American Spine Society), 2000-2009 Editorial Board Member, World Journal of Surgery, 1996-present Foundation for International Education in Neurosurgery (FIENS) ? Board Member Los Angeles County Medical Association Los Angeles Surgical Society



J. Patrick Johnson, M.D., M.S.

Neurosurgical Society of America
North American Spine Society
ONE Spine ? Board Member
Professional Bull Riders
Professional Rodeo Cowboys Association
Rocky Mountain Neurosurgical Society
Scoliosis Research Society
Spine Institute Foundation - President and CEO
Topic Editorial Member, Neurosurgical Focus (Journal of Neurosurgery), 2000-present
Western Neurosurgical Society

Honors and Awards

Cedars-Sinai Department of Neurosurgery, ?Golden Apple Award? for Outstanding Teaching Award, 2010
Cedars-Sinai Institute for Spinal Disorders Fellowship Outstanding Teaching Award (2005, 2007), 2009
UCLA Outstanding Physician of the Year, 1996
US News and World Reports ?Best Doctors? 2009, 2010, 2011, 2012, 2013, 2014, 2015
Southern California ?Super Doctors? in Neurosurgery 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015
Castle Connolly ?Top Doctors? in the USA 2009, 2010, 2011, 2012, 2013, 2014, 2015
Who?s Who in Medicine and Healthcare, 1997-2015

Select Recent Publications

Drazin DG, Shweikeh F, Wieshofer E, Kim TT, Johnson JP: Public awareness of the bone morphogenic protein controversy: evidence from news publications. Surg Neurol Int. 2014 Dec; 5: 529.

Shweikeh F Al-Khouja L, Nuno M, Johnson JP, Drazin DG, Adamo MA: Disparities in Clinical and Economic outcomes in children and adolescents following surgery for tethered cord syndrome in the United States. J Neurosurg: Pediatrics. 2015, Apr, Vol 15(4):427-33.

Shirzadi AS, Drazin DG, Gates M, Shirzadi N, Bannykh S, Fan X, Hunt L, Baron EM, King WA, Kim TT, Johnson JP: Surgical management of primary spinal hemangiopericytomas: an institutional case series and review of the literature. Eur Spine J. 2013 May; 22 Suppl 3:S450-9.



J. Patrick Johnson, M.D., M.S.

Samudrala S, Vaynman S, Thiayananthan T, Ghostine S, Bergey DL, Pashman RS, Johnson JP:. Pedicle Subtraction Osteotomy for Kyphosis of the Cervicothoracic Junction: A New Approach, J of Neurosurgery-Spine, 2010 Dec; 13(6): p695-706.

Wagner W, Regan JJ, Leary SP, Lanman TH, Johnson JP, Rao RK, Cossman D: Access strategies for revision or explanation of the Charité lumbar artificial disc replacement. J of Vascular Surgery, 2006 Dec;44(6):1266-72.

Hsieh J, Drazin DG, Firempong A, Pashman RS, Johnson JP, Kim TT: Accuracy of intraoperative computed-tomography image-guided surgery (CT-IGS) in placing pedicle and pelvic screws for primary versus revision spine surgery. Neurosurg Focus. 2014; 36 (3).

Johnson JP, Drazin DG, King WA, Kim TT: Image-Guided Navigation and Video Assisted Thoracoscopic Spine Surgery: The Second Generation. Neurosurg Focus. 2014; 36 (3).

Shweikeh F, Amadio J, Arnell M, Barnard Z, Kim TT, Johnson JP, MD1; Drazin DG: Robotics and the Spine: A Review of Current and Ongoing Applications. Neurosurg Focus. 2014; 36 (3).

Ghostine S, Vaynman S, Schoeb JS, Cambron HO, King WA, Samudrala S, Johnson JP. Image-guided thoracoscopic resection of thoracic dumbbell nerve sheath tumors. Neurosurgery 2012 Feb; 70(2):461-468.

Drazin D, Shirzadi S, Jeswani S, Ching H, Rosner J, Rasouli A, Kim TT, Pashman RS, Johnson JP: Direct surgical repair of lumbar spondylolysis in athletes: indications, techniques, and outcomes. Neurosurg Focus. 2011 Nov; 31 (5):E9.

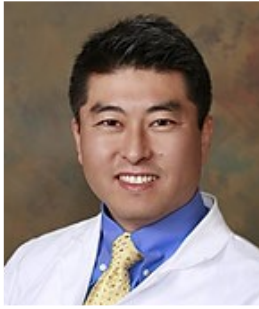


J. Patrick Johnson, M.D., M.S.

Mundwiler ML, Siddique K, Dym JM, Perri B, Johnson JP, Weisman MH. Complications of the spine in ankylosing spondylitis with a focus on deformity correction. *Neurosurg Focus*. 2008; 24(1): E6.

Villavicencio AT, Burneikene S, Pashman RS, Johnson, JP,; Spinal Artificial Disc Replacement: Cervical Arthroplasty; Part I: History, Design, and Types of Artificial Discs. *Contemporary Neurosurgery* 2007 Jun 15; 29(12).

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Kee D. Kim, M.D.

Clinical Interests

Dr. Kim is professor of neurological surgery and the chief of spinal neurosurgery. He has a special interest and expertise in dealing with challenging spinal disorders requiring surgical treatment. He has vast experience in complex spine surgery, regardless of etiology, including tumor, infection, degenerative spine and trauma. He is at the forefront of computer-assisted spine surgery, minimally invasive surgery and spinal instrumentation.

As a co-director of the UC Davis Spine Center, Dr. Kim is involved in multiple clinical trials as a primary investigator. He innovates and evaluates different cutting-edge technology to advance the field. Recent examples include the use of stem cells for disc regeneration and bony healing, the use of pharmaceutical agents for spinal cord injuries, and clinical evaluations of artificial disc and minimally invasive surgery. His research focuses on using the advances in different fields to bring about tangible improvement in patient care and surgical outcome.

He also devotes much of his time and resources to further the training of other surgeons, both locally and abroad. He has trained many residents and fellows who have gone on to become spine specialists in their respective fields. He has published numerous manuscripts and book chapters dealing with myriad of spinal disorders. As a widely recognized expert, he has spoken at many national and international meetings. Dr. Kim's primary focus, however, remains providing the best possible care to his patients.

Title Professor and Vice Chair
Chief, Spinal Neurosurgery
Co-Director of Spine Center

Specialty Neurological Surgery, Spine Surgery

Department [Neurological Surgery](#)

Division Neurological Surgery

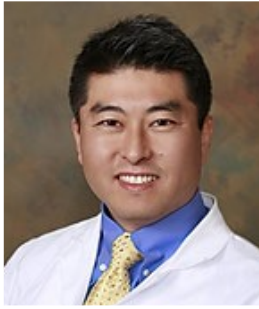
Center/Program Affiliation [Spine Center](#)

Address/Phone Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816

Phone: 916-734-7463

Additional Phone Clinic Phone: 916-734-7463

Physician Referrals: 800-4-UCDAVIS (800-482-3284)



Kee D. Kim, M.D.

Languages Korean

Education M.D., Johns Hopkins University School of Medicine, Baltimore MD 1992
B.S., Yale University, New Haven CT 1986

Internships UC Davis Medical Center, Sacramento CA 1992-1993

Residency UC Davis Medical Center, Sacramento CA 1993-1998

Fellowships UCLA, Los Angeles CA 1997-1998

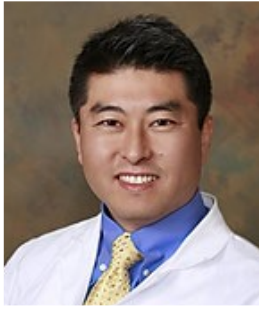
Board Certifications American Board of Neurological Surgery, 2002

Professional Memberships American Association of Neurological Surgeons
American Association of Neurological Surgeons/Congress of Neurological Surgeons (AANS/CNS)
Section on Disorders of the Spine and Peripheral Nerves
American Medical Association
California Association of Neurological Surgeons
Congress of Neurological Surgeons
International Society for Computer-Aided Surgery
International Society of Advancement Spine Surgery
National Neurotrauma Society
North American Spine Society

Honors and Awards Spine Surgeons to Know ? Becker?s Spine Review, 2016
The Best Doctors In America 2011, 2012, 2013, 2014, 2015
Spine Surgeons on the Forefront of Biologics & Stem cells, Becker?s Spine Review, 2015
The Charles D. Ray Award ? Best Clinical Paper, International Society of Advancement Spine Surgery, 2014
Spine Surgeon Leader to Know ? Becker?s Spine Review, 2013

Select Recent Publications Kim KD. Stem Cells and Discogenic Low Back Pain. Spine (Phila Pa 1976). 2016 Apr;41 Suppl 7: S11-2.

Ament JD, Yang Z, Nunley P, Stone MB, Lee D, Kim KD. Cost Utility Analysis of the Cervical Artificial Disc vs Fusion for the Treatment of 2-Level Symptomatic Degenerative Disc Disease: 5-Year Follow-up. Neurosurgery. 2016 Feb 5. [Epub ahead of print]



Kee D. Kim, M.D.

Bae HW, Kim KD, Nunley PD, Jackson RJ, Hisey MS, Davis RJ, Hoffman GA, Gaede SE, Danielson GO 3rd, Peterson DL, Stokes JM, Araghi A. Comparison of Clinical Outcomes of 1- and 2-Level Total Disc Replacement: Four-Year Results From a Prospective, Randomized, Controlled, Multicenter IDE Clinical Trial. *Spine (Phila Pa 1976)*. 2015 Jun 1;40(11):759-66.

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 Oct 1;15(10):2247-53.

Schrot RJ, Mathew JS, Li Y, Beckett L, Bae HW, Kim KD. Headache relief after anterior cervical discectomy: post hoc analysis of a randomized investigational device exemption trial: clinical article. *J Neurosurg Spine*. 2014 Aug;21(2):217-22.

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

Lee CC, Kim KD. Stem cell microenvironment as a potential therapeutic target. *Regen Med*. 2012 Jan;7(1):3-5.

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Eric Otto Klineberg, M.D., M.S.

Eric Otto Klineberg welcomes LGBT patients.

Philosophy of Care

My philosophy is to care for each patient as I would like myself or a family member to be treated. I am committed to excellence in surgical care with an emphasis on communication, compassion, and empathy.

Clinical Interests

Dr. Klineberg's clinical interests include all aspects of spinal degeneration, deformity, tumor and fracture. He has a particular interest in adult and pediatric spinal deformity surgery and cervical compression and deformity.

Research/Academic Interests

Dr. Klineberg's research interests focus on enhancement of spinal fusion with stem cells and proteins. He is also actively involved in clinical research investigating spinal deformity and outcomes.

Title Co-Director of the Spine Center

Associate Professor, Department of Orthopaedic Surgery

Specialty Orthopaedic Surgery, Adult and Pediatric Spinal Surgery

Department [Orthopaedic Surgery](#)

Division Orthopaedic Surgery

Center/Program Affiliation [Spine Center](#)

Address/Phone Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816
Phone: 916-734-7463

Additional Phone Clinic Fax: 916-734-7904
Physician Referrals: 800-4-UCDAVIS (800-482-3284)

Education M.D., University of Maryland School of Medicine, Baltimore, Maryland, 2001
M.S., University of Maryland, College Park MD 1996
B.A., Rice University, Houston, Texas, 1994

Internships General Surgery, University of Washington, Seattle, WA, 2001-2002

Residency Orthopaedic Surgery, University of Washington, Seattle, WA, 2002-2006

Fellowships Combined Neurological and Orthopaedic Surgical Spine, Cleveland Clinic Foundation, Cleveland, OH, 2006-2007



Eric Otto Klineberg, M.D., M.S.

Board Certifications American Board of Orthopaedic Surgery, 2009

Professional Memberships American Academy of Orthopaedic Surgeons
AO Spine North America
California Orthopaedic Association
North American Spine Society (NASS)
Scoliosis Research Society
Sierra Sacramento Valley Medical Society (SSMS)
Western Orthopaedic Association

Honors and Awards Best Podium and Best Poster 2014, International Society for the Advancement of Spine Surgery, 2014

Goldstein Clinical Science Award, Scoliosis Research Society, 2014

Traveling Fellowship Award, American Orthopaedic Association / Japanese Orthopaedic Association, 2012

Featured in InSpine 4-10 BMP Antagonists in Spine Fusion, 2010

Select Recent Publications Scheer JK, Lafage V, Smith JS, Deviren V, Hostin R, McCarthy IM, Mundis GM, Burton DC, Klineberg E, Gupta M, Kebaish K, Shaffrey CI, Bess S, Schwab F, Ames CP, International Spine Study Group. Maintenance of Radiographic Correction at 2 Years Following Lumbar Pedicle Subtraction Osteotomy is Superior with Upper Thoracic Compared with Thoracolumbar Junction Upper Instrumented Vertebra. *Eur Spine J*, 2015;24(S1): 121-30.

Smith JS, Shaffrey E, Klineberg E, Shaffrey CI, Lafage V, Schwab FJ, Protopsaltis T, Scheer JK, Mundis GM, Fu KM, Gupta MC, Hostin R, Deviren V, Kebaish K, Hart R, Burton DC, Line B, Bess S, Ames CP, International Spine Study Group. Prospective Multicenter Assessment of Risk Factors for Rod Fracture Following Surgery for Adult Spinal Deformity. *J Neurosurg Spine*, 2014;21(6): 994-1003.

Smith JS, Singh M, Klineberg E, Shaffrey CI, Lafage V, Schwab FJ, Protopsaltis T, Ibrahim D, Scheer JK, Mundis G, Gupta MC, Hostin R, Deviren V, Kebaish K, Hart R, Burton DC, Bess S, Ames CP, International Spine Study Group. Surgical Treatment of Pathological Loss of Lumbar Lordosis (flatback) in Patients with Normal Sagittal Vertical Axis Achieves Similar Clinical Improvement as Surgical Treatment of Elevated Sagittal Vertical Axis. *J Neurosurg Spine*, 2014;21



Eric Otto Klineberg, M.D., M.S.

(2): 160-70.

Smith JS, Lafage V, Schwab FJ, Shaffrey CI, Protosaltis T, Klineberg E, Gupta M, Scheer JK, Fu KM, Mundis G, Hostin R, Deviren V, Hart R, Burton DC, Bess S, Ames CP, International Spine Study Group. Prevalence and Type of Cervical Deformity among 470 Adults with Thoracolumbar Deformity. *Spine*, 2014;39(17): e1001-9.

Fu KM, Bess S, Shaffrey CI, Smith JS, Lafage V, Schwab F, Burton DC, Akbarnia BA, Ames CP, Boachie-Adjei O, Deverin V, Hart RA, Hostin R, Klineberg E, Gupta M, Kebaish K, Mundis G, Mummaneni PV, International Spine Study Group. Patients with Adult Spinal Deformity Treated Operatively Report Greater Baseline Pain and Disability than Patients Treated Nonoperatively; However, Deformities Differ Between Age Groups. *Spine*, 2014;39(17): 1401-7.

Nelson EM, Monazzam SM, Kim KD, Seibert JA, Klineberg EO. Intraoperative Fluoroscopy, Portable X-Ray and CT: Patient and Operating Room Personnel Radiation Exposure in Spinal Surgery. *Spine J*, 2014;14(12): 2985-91.

Ryan DJ, Protosaltis TS, Ames CP, Hostin R, Klineberg E, Mundis GM, Obeid I, Kebaish K, Smith JS, Boachie-Adjei O, Burton DC, Hart RA, Gupta M, Schwab FJ, Lafage V, International Spine Study Group. T1 Pelvic Angle (TPA) Effectively Evaluates Sagittal Deformity and Assesses Radiographical Surgical Outcomes Longitudinally. *Spine*, 2014;39(15): 1203-10.

Klineberg E, Bui T, Schlenk R, Lieberman I. Retro-Odontoid Calcium Pyrophosphate Dehydrate Deposition: Surgical Management and Review of the Literature. *Evid Based Spine Care J*, 2014;5(1): 63-9.

Klineberg E, Haudenschild DR, Snow KD, Garitty S, Christiansen BA, Acharya C, Maitra S, Gupta MC. The Effect of Noggin Interference in a Rabbit Posterolateral Spinal Fusion Model. *Eur Spine*



Eric Otto Klineberg, M.D., M.S.

J, 2014;23(11): 2385-92.

Hague RM, Mundis GM, Ahmed Y, El Ahmadieh TY, Wang MY, Mummaneni PV, Uribe JS, Okonkwo DO, Eastlack RK, Anand N, Kanter AS, La Marca F, Akbarnia BA, Park P, Lafage V, Terran JS, Shaffrey CI, Klineberg E, Deviren V, Fessler RG, International Spine Study Group. Comparison of Radiographic Results after Minimally Invasive, Hybrid, and Open Surgery for Adult Spinal Deformity: A Multicenter Study of 184 Patients. *Neurosurg Focus*, 2014;36(5): e13, 1-7.

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Paul Kreis, M.D.

Clinical Interests	Dr. Kreis has a special interest in spinal injections, including selective nerve root blocks, sympathetic blockade, radiofrequency ablation, facet injections and discography.
Title	Professor
Specialty	Anesthesiology, Pain Medicine
Department	Anesthesiology
Division	Pain Medicine
Center/Program Affiliation	UC Davis Medical Group Spine Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 2700 Sacramento, CA 95817 Phone: 916-734-7246
	UC Davis Medical Group - Folsom, 1370 Prairie City Rd. Folsom, CA 95630 Phone: 916-985-9300
	Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Clinic Phone: 916-734-7246 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., UC San Diego, La Jolla, California, 1982

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Gagan Mahajan, M.D.

Clinical Interests	Dr. Mahajan has both clinical and research interests in pain medicine.
Title	Professor
Specialty	Anesthesiology, Pain Medicine
Department	Anesthesiology
Division	Pain Medicine
Center/Program Affiliation	Spine Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 2700 Sacramento, CA 95817 Phone: 916-734-7246
	Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Clinic Phone: 916-734-7246 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., Pennsylvania State University College of Medicine, Hershey, Pennsylvania, 1996 B.S., UCLA, Los Angeles, California, 1992
Internships	Loma Linda University Medical Center, Loma Linda, California, 1996-1997
Residency	Baylor College of Medicine, Houston, Texas, 1997-2000
Fellowships	UC Davis Medical Center, Sacramento, California, 2000-2001
Board Certifications	American Board of Anesthesiology, Pain Medicine, 2001 American Board of Physical Medicine and Rehabilitation, Pain Medicine, 2001
Professional Memberships	American Academy of Physical Medicine and Rehabilitation Physicians' Association of Spine, Sports and Occupational Medicine
Honors and Awards	Rhone-Poulenc Rorer Physiatry Residents Scholarship Program, 1999 Third prize, Lewis Leavitt MD Memorial Lectureship, Baylor College of Medicine, 1999 Graduated with honors, UCLA, 1992



Gagan Mahajan, M.D.

Select Recent Publications

Mahajan B, Kaldis T, Kevorkian C, Oden K. Functional outcomes of post-cardiac surgery stroke patients. *Archives of Physical Medicine and Rehabilitation*, 80:1138, 1990.

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

Ripul R. Panchal welcomes LGBT patients.

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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Additional Phone Physician Referrals: 800-4-UCDAVIS (800-482-3284)

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.



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

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.



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

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Rolando F. Roberto, M.D.

Clinical Interests

Mission Statement: As Chief of the UC Davis Orthopedic Spine Service, I would like to extend a warm introduction to our treatment team. Having practiced at tertiary care University Hospitals since my fellowship training, I have had the opportunity to treat some of the most complex spinal problems that afflict children and adults. My colleagues and I have many years of experience in the treatment of complex spinal deformities of congenital, idiopathic and degenerative origin. As the founder of our spinal deformity team, Dr. Daniel Benson began treating scoliosis patients in the 1970s at UC Davis, our institution has amassed over 40 years of experience in the treatment of spinal disorders. Our experience therein spans the spectrum of patients from birth and into the seventh and eighth decade of life. We also treat complex spinal tumors, both primary sarcomas and metastatic disease and have extensive experience with vertebral resection and replacement. In so doing we have the full support of a world-class oncology team comprised of medical and radiation oncologists. Given the increased health and longevity of our patients and the predilection of the human spine to degenerate, we have expertise in degenerative conditions and are able to treat herniated lumbar and cervical discs with the least invasive spinal surgeries. We have performed scientific studies on the treatment of cervical disc disease and myelopathy and we have published our experience on the treatment of these diseases with cervical disc replacement and laminoplasty.

Underlying our innovative and cutting edge treatment options, we believe that meticulous attention to patient care and standardized treatment protocols result in the safest surgical outcomes. We work closely with our National Surgical Quality Improvement Program and strive to provide the highest quality medical and surgical care. We hope that those of you in need of spinal surgical treatment will trust our experienced and caring team.

Title Chief of Spine Service
Executive Vice Chair
Professor

Specialty Orthopaedic Surgery - Spinal Disorders

Department [Orthopaedic Surgery](#)

Division Orthopaedic Surgery

Center/Program Affiliation [Spine Center](#)



Rolando F. Roberto, M.D.

Address/Phone	Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Spanish
Education	M.D., UC Irvine College of Medicine, Irvine, California, 1989 B.S., UC Irvine, Irvine, California, 1985
Internships	University of Illinois, Chicago, Illinois, 1989-90
Residency	University of Illinois, Chicago, Illinois, 1990-94
Fellowships	Minnesota Spine Center, Minneapolis, Minnesota, 1994-95
Board Certifications	American Board of Orthopaedic Surgery, 1997 American Board of Orthopaedic Surgery, recertification, 2007
Professional Memberships	Academic Orthopedic Association American Academy of Orthopaedic Surgeons Cervical Spine Research Society J. Robert Gladden Society North American Spine Society Scoliosis Research Society Western Orthopaedic Association
Honors and Awards	Outstanding Faculty Award, Department of Orthopaedic Surgery, UC Davis Medical Center, Sacramento, 2010 Outstanding Faculty Award, Department of Orthopaedic Surgery, UC Davis Medical Center, Sacramento, 2005 Outstanding Faculty Award, Dept. of Orthopaedics, University of Arizona. Teaching award conferred by graduating residents., 2002 Outstanding Faculty Award, Dept. of Orthopaedics, University of Arizona, 2000 President's Undergraduate Fellowship Recipient. National award funding research of DNA sequence analysis of <i>D. melanogaster</i> dopa decarboxylase gene., 1984
Select Recent Publications	Roberto, R, Klineberg, E, Complications in the Treatment of Subaxial Cervical Fractures and Dislocations, Chapter 106, 5th Edition, the Cervical Spine, Lippincott Williams & Wilkins



Rolando F. Roberto, M.D.

Wilkins, 1267-1275.

Robbins M, Mallon Z, Roberto R, Patel R, Gupta M, Klineberg Traumatic Spondylopelvic Dissociation: A Report of Two Cases of Spondylolisthesis at L5-S1 and Review of Literature. E. Global Spine J. 2015 Jun;5(3):225-30.

Tomov M, Mitsunaga L, Durbin-Johnson B, Nallur D, Roberto R. Reducing Surgical Site Infection in Spinal Surgery with Betadine Irrigation and Intra-Wound Vancomycin Powder. Spine (Phila Pa 1976). 2015 Jan 20. 491-9.

Gire JD, Roberto RF, Bobinski M, Klineberg EO, Durbin-Johnson B The utility and accuracy of computed tomography in the diagnosis of occipito cervical dissociation. Spine J. 2013 May; 13(5): 510-9.Epub 2013 Feb 22.

Roberto, R. Dezfuli, B, Deuel, C, Curtiss, S, Hazelwood, S. A Biomechanical Comparison of Three Spondylolysis Repair Techniques in a Calf Spine Model. Orthopaedics and Traumatology: Surgery and Research, 2012 October.

Galan, T, Mohan, V, Klineberg, K, Gupta, M, Roberto, R, Ellwitz, J. Case Report: Incisional Hernia as a Complication of Extreme Lateral Interbody Fusion. The Spine Journal, 2012 Feb.

Treatment of Spine Deformity in Neuromuscular Diseases Maitra, S., Roberto, RF, McDonald, CM, Gupta, MC Phys Med Rehab Clin N Am, 2012 Nov., 23 (4): 869-83.

Roberto, R. Fritz, A. Hagar, Y. Boice, B. Skalsky, A. Hwang, H. Mitsunaga, K. Beckett, L. McDonald, C. Gupta, M. the Natural History of Cardiac and Pulmonary Function Decline in Patients with Duchenne Muscular Dystrophy. Spine.2011 July;36(15) E1009-1017.



Rolando F. Roberto, M.D.

Enoch Leung, Nesrin Sarigul-Klijn, Rolando Roberto, Characterization of Irregular stress distributions induced by klippel feil syndrome, Proceedings of the ASME International Mechanical Engineering Congress Exposition, IMECE2011-63343, November 11-17, 2011, Denver, Colorado, USA, 2011

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Samir Jayraj Sheth, M.D.

Samir Jayraj Sheth welcomes LGBT patients.

Clinical Interests Dr. Sheth completed his residency in Anesthesiology at Columbia University in New York City and his fellowship in Pain Medicine at the University of California, Davis in Sacramento, CA. He is board certified in both Anesthesiology and Pain Medicine.

As co-director of neuromodulation, much of his interest in pain medicine involves the mechanism of spinal cord stimulation and the treatment of persistent, neuropathic pain with spinal cord stimulation.

He also has an interest in furthering the field of evidenced-based pain medicine. Dr. Sheth's goal is to provide a safe, comprehensive approach to minimize pain.

He has published chapters in pain medicine textbooks and is actively involved in research projects involving low back and neck pain.

Research/Academic Interests Dr. Sheth's research interests include: Spinal Cord Stimulation, Neuropathic Pain, Radiofrequency Ablation, and Ultrasound Guided Techniques.

Title Assistant Professor, Department of Anesthesiology and Pain Medicine
Director of Neuromodulation
Director of Medical Student and Resident Education

Specialty Pain Medicine, Anesthesiology

Department [Anesthesiology](#)

Division Pain Medicine

Center/Program Affiliation [Spine Center](#)

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Additional Phone Phone: 800-4-UCDAVIS (800-482-3284)

Languages Gujarati

Education M.D., University of Toledo College of Medicine, Toledo OH 2005
B.A., Washington University, St. Louis MO 2001



Samir Jayraj Sheth, M.D.

Internships St. Luke's-Roosevelt Hospital Center, New York NY 2005-2006

Residency Anesthesiology, Columbia University - New York Presbyterian Hospital, New York NY 2006-2009

Fellowships Pain Medicine, UC Davis Medical Center, Sacramento CA 2009-2010

Board Certifications American Board of Anesthesiology
American Board of Anesthesiology, Pain Medicine

Professional Memberships American Medical Association
American Psychiatric Association
American Society of Anesthesiologists
International Anesthesiologists Research Society
International Neuromodulation Society
International Spine Interventional Society
New York State Society of Anesthesiologists
North American Neuromodulation Society

Select Recent Publications De Mesa C, Chu I, Furukawa K, Sheth S. Use of Continuous Femoral and Sciatic Nerve Catheters to Facilitate a Multidisciplinary Inpatient-Based Rehabilitation Plan in a Child with Lower Extremity Type 1 Complex Regional Pain Syndrome. Am J Phys Med Rehabil. 2015 Nov;94(11): e114-5.

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Chris Sterling Shin, M.D.

Clinical Interests	Dr. Shin's clinical focus includes amputee prosthetic management, non-operative spine care, electro diagnostic testing, and general outpatient rehabilitation.
Title	Associate Professor, Department of Physical Medicine and Rehabilitation
Specialty	Physical Medicine and Rehabilitation
Department	Physical Medicine and Rehabilitation
Division	Physical Medicine and Rehabilitation
Center/Program Affiliation	Spine Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, Physical Medicine & Rehabilitation, 4860 Y St. Suite 1700 Sacramento, CA 95817 Phone: 916-734-7041
	Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., UC Davis School of Medicine, Sacramento, California, 2001 A.A., DeAnza College, Cupertino, California, 1993 B.S., UC Davis, Davis, California, 1995
Residency	UC Davis School of Medicine, Sacramento, California, 2001-2005
Board Certifications	American Board of Electrodiagnostic Medicine, 2006 American Board of Physical Medicine and Rehabilitation, 2006
Professional Memberships	American Academy of Physical Medicine and Rehabilitation American College of Sports Medicine
Honors and Awards	Award for Outstanding Attendance at Clinical Seminars, Department of Physical Medicine and Rehabilitation, UC Davis Medical Center, 2004 Award for Outstanding Teaching of Medical Students, Department of Physical Medicine and Rehabilitation, UC Davis Medical Center, 2004



Chris Sterling Shin, M.D.

Award for Excellence in Physical Medicine and Rehabilitation, Department of Physical Medicine and Rehabilitation, UC Davis Medical Center, 2001

Mortin Levitt Research Award, UC Davis School of Medicine, 2001

Annual Medical Student Award for Excellence in Medical Rehabilitation, The Northwest Association of Physical Medicine and Rehabilitation, 2000

Select Recent Publications

Shin CS. Research Investigator: Determining Neuropsychiatric Baselines in Amateur Boxers Using ImPACT Software. Proposal to Institutional Review Board. (In Submission)

Shin CS, Brian BA. Femoral neuropathy due to patellar dislocation: A case report. *Archives of Physical Medicine & Rehabilitation*, 86(6):1258-60, Jun 2005.

Shin CS, Abresch RT, Widman L, McDonald CM. Regional Body Composition in Male Subjects with Neuromuscular Disease as Assessed by Dual-Energy X-Ray Absorptiometry. Poster Presentation at the 2003 Annual Meeting of the Academy of Academic Physiatrists, 2004.

Shin CS, Abresch RT, Walsh SA, Ong EK, McDonald CM. Relationship Between Quantitative Measures of Regional Lean Tissue Mass and Strength in Children with Duchenne Muscular Dystrophy and Controls. Poster Presentation at the 1999 Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine, 1999.

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Naileshni Singh, M.D.

Philosophy of Care	Dr. Singh is interested in interventional pain medicine, neuromodulation, alternative medicine, and pain education.
Clinical Interests	Dr. Singh's clinical duties involve assessing and treating patients of all ages who have acute, chronic, or cancer pain including performing interventional pain procedures and neuromodulation techniques.
Title	Assistant Professor, Pain Medicine Fellowship Director
Specialty	Anesthesiology, Pain Medicine
Department	Anesthesiology
Division	Pain Medicine
Center/Program Affiliation	Spine Center
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 3200 Sacramento, CA 95817
Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Education	M.D., Stanford University School of Medicine, Stanford CA 2006 B.S., UC Davis, Davis CA 2003
Internships	Transitional Internship, Santa Clara Valley Medical Center, San Jose CA 2006-2007
Residency	Anesthesiology and Pain Medicine, UC Davis Medical Center, Sacramento CA 2007-2010
Fellowships	Anesthesiology and Pain Medicine, UC Davis Medical Center, Sacramento CA 2010-2011
Board Certifications	American Board of Anesthesiology American Board of Anesthesiology, Pain Medicine
Professional Memberships	American Academy of Pain Medicine American Medical Association American Society of Anesthesiologists
Honors and Awards	Chief Resident, UC Davis Department of Anesthesiology and Pain Medicine, 2009 Gary Collins, MD Memorial Fellow Teacher of the Year Award, 2011
Select Recent Publications	Arwood E, Rowe JM, Singh NS, Carr DB, Herr KA, Chou R. Implementing a Paradigm Shift: Incorporating Pain Management Competencies into Pre-Licensure Curricula. Pain Med. 2015 Feb;



Naileshni Singh, M.D.

16(2):291-300. Epub 2014 Sep 22.

Fishman SM, Young HM, Lucas Arwood E, Chou R, Herr K, Murinson BB, Watt-Watson J, Carr DB, Gordon DB, Stevens BJ, Bakerjian D, Ballantyne JC, Courtenay M, Djukic M, Koebner IJ, Mongoven JM, Paice JA, Prasad R, Singh N, Sluka KA, St Marie B, Strassels SA. Core Competencies for Pain Management: Results of an Interprofessional Consensus Summit. *Pain Med.* 2013 Apr 11.

Singh, Naileshni, Scott Fishman, Anna Orlowski, Ben Rich. Prescription Opioid Forgery: Reporting to Law Enforcement and Protection of Medical Information. *Pain Med.* 2013 Mar 5.

Singh N. Patient Education and Self Advocacy: Questions and Responses on Pain Management: Behcet's Disease. *J Pain Palliat Care Pharmacother.* 2011; 25(3): 283-5.

Wilse, BL, Fishman SM, Casamalhuapa C, Singh N. Computerized progress notes for chronic pain patients receiving opioids; the Prescription Opioid Documentation System (PODS). *Pain medicine (Malden, Mass.)*, 2010; 11(11): 1707-17.

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Carol Vandenakker-Albanese, M.D.

Clinical Interests Dr. Vandenakker Albanese has clinical interests in diagnosis and non-operative care of spine conditions and problems related to sequelae of polio. She speaks locally, nationally and internationally on topics related to spine care and the management of polio-related conditions. Dr. Vandenakker-Albanese is well-known for her expertise in post-polio syndrome and established the UC Davis Post-Polio Clinic in 2001. She serves on the Board of Directors and the medical advisory board for Post-Polio Health International as well as several local post-polio support groups.

Dr. Vandenakker-Albanese reviews manuscripts for multiple medical journals and has authored several book chapters and peer-reviewed journal publications on topics relating to aging with disability, and rehabilitation of spine and post-polio conditions.

As the department's Mentoring Director, Residency Program Director and as a Faculty Mentor for the medical school, she promotes quality medical education and fosters professional development.

Title Professor
Residency Program Director

Specialty Physical Medicine and Rehabilitation

Department [Physical Medicine and Rehabilitation](#)

Division Physical Medicine and Rehabilitation

Center/Program Affiliation [Spine Center](#)

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Additional Phone Physician Referrals: (800) 480-0482 Ex.3284

Education M.D., Oral Roberts University, Tulsa, Oklahoma, 1986
B.S., Oral Roberts University, Tulsa, Oklahoma, 1980

Internships St. Lukes-Roosevelt Hospital, Columbia University, New York, New York, 1986-87

Residency Rusk Institute of Rehab Medicine, New York University Medical Center, New York, New York,



Carol Vandenakker-Albanese, M.D.

1987-1990

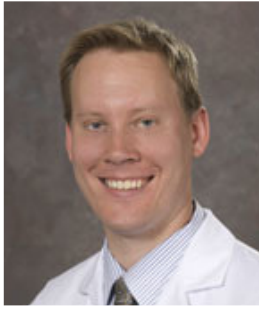
Board Certifications American Board of Physical Medicine and Rehabilitation, 1991

Professional Memberships American Academy of Physical Medicine and Rehabilitation
Association of Academic Physiatrists
International Society of Physical and Rehabilitation Medicine
North American Spine Society

Honors and Awards David D. Kilmer Faculty Teaching Award, 2014

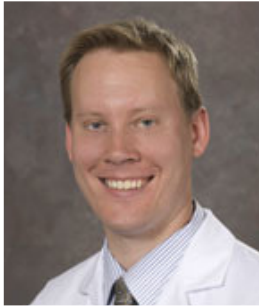
Select Recent Publications Vandenakker-Albanese, C: Post-Polio Syndrome. AAPM&R Knowledge Now, 2013
Siegel L, Vandenakker Albanese C, Siegel D: Anterior Cruciate Ligament Injuries: Anatomy, Physiology, Biomechanics, and Management. Clin J Sport Med, 22(4):349-355, July 2012
Moore MN, Vandenakker Albanese C, Hoffman MD: Use of Partial Body-Weight Support for Aggressive Return to Running after Lumbar Disk Herniation: A Case Report. Archives of Physical Medicine and Rehabilitation 91: 803-805, 2010.
Grimby G, Li J, Vandenakker C, Sandel ME: Post-Polio Syndrome: A Perspective from Three Countries. Physical Medicine and Rehabilitation 1: 103 5-1040, 2009.
Vandenakker C, Glass D: Menopause and Aging with a Disability. Phys Med Rehab Clin North Am 12:1, 2001.
Vandenakker C: Brown-Sequard Syndrome. emedicine.com, Physical Medicine and Rehabilitation, 2001.

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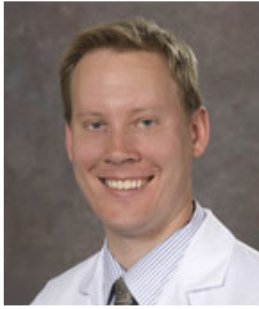
Ben Waldau, M.D., FAANS

Clinical Interests	Dr. Waldau is a specialist in open cerebrovascular and endovascular treatment of cerebral aneurysms and arteriovenous malformations. His dual training in open surgery and endovascular embolization allows him to choose the best treatment modality for his patients, and sometimes he uses a combination of both approaches to achieve the best results. He also has an interest in stroke and extracranial carotid disease which he can treat with carotid endarterectomy or carotid angioplasty and stenting. With the establishment of the stroke unit at UC Davis, we are striving to provide highly specialized care to our vascular patients to achieve the best outcomes.
Research/Academic Interests	Dr. Waldau's research focuses on transplantation of reprogrammed progenitor cells after stroke to enhance functional recovery. Human subventricular progenitor cells are harvested and reprogrammed to become motor neurons in collaboration with the UC Davis Stem Cell Program. The overall goal is to gather sufficient data to start clinical trials in stroke patients in the future.
Title	Associate Professor
Specialty	Neurological Surgery, Surgery - Vascular and Endovascular , Skull Base Surgery, Brain Tumors, Spine Surgery
Department	Neurological Surgery
Division	Neurological Surgery UC Davis Medical Group, Sacramento - Midtown
Clinic	Neurological Surgery Clinic
Center/Program Affiliation	Center for Neuroscience Center for Skull Base Surgery UC Davis Medical Group Spine Center
Address/Phone	UC Davis Midtown Ambulatory Care Center, Midtown Neurology Clinic, 3160 Folsom Blvd Suite 2100 Sacramento, CA 95816 Phone: 916-734-3588 Cannery Building, Spine Center, 3301 C St. Suite 1500 Sacramento, CA 95816 Phone: 916-734-7463



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Additional Phone	Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	German
Education	M.D., Ruprecht-Karls University, Heidelberg, Germany 2002
Internships	General Surgery, Duke University Medical Center, Durham NC 2004-2005
Residency	Neurosurgery, Duke University Medical Center, Durham NC 2005-2010
Fellowships	Endovascular Neurosurgery, University of Florida, Gainesville FL 2010-2011 Neural Stem Cell Research, William P. Van Wagenen Fellowship at Center for Regenerative Therapies Dresden, Dresden, Germany 2011-12
Board Certifications	American Board of Neurological Surgery - Diplomate
Professional Memberships	American Association of Neurological Surgeons Congress of Neurological Surgeons Society for Neuroscience
Honors and Awards	UC Davis Stroke Center Award of Excellence, 2015 CNS Basic Science/Translational Research Resident Fellowship Award, 2007
Select Recent Publications	Cary WA, Hori CN, Pham MT, Nacey CA, McGee JL, Hamou M, Berman RF, Bauer G, Nolte JA, Waldau B. Efficient Generation of Induced Pluripotent Stem and Neural Progenitor Cells From Acutely Harvested Dura Mater Obtained During Ventriculoperitoneal Shunt Surgery. <i>World Neurosurg.</i> 2015 Nov;84(5):1256-66.e1. Jamal AL, Walker TL, Waber Nguyen AJ, Berman RF, Kempermann G, Waldau B. Transplanted Dentate Progenitor Cells Show Increased Survival in an Enriched Environment But Do Not Exert a Neurotrophic Effect on Spatial Memory Within 2 Weeks of Engraftment. <i>Cell Transplant.</i> 2015;24(12):2435-48. Lu A, Shen P, Lee P, Dahlin B, Waldau B, Nidecker AE, Nundkumar A, Bobinski M. CrossFit-related cervical internal carotid artery dissection. <i>Emerg Radiol.</i> 2015 Aug;22(4):449-52.



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