

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.

Debra Ann Fishman, M.A., Psy.D.

Philosophy of Care	To assist individuals to identify and harness internal motivation to make positive health behavior changes that are consistent with their personal values and goals. Patients are viewed as collaborative partners in their care and services are delivered in a manner that respects personal interests, autonomy, and choice.
Clinical Interests	Clinical services are focused on assisting patients to engage in and maintain positive health behaviors, in order to prevent and/or manage single or multiple health issues.
Title	Psychologist
Specialty	Physical Medicine and Rehabilitation, Psychology
Department	Physical Medicine and Rehabilitation
Division	Physical Medicine and Rehabilitation
Clinic	Physical Medicine & Rehabilitation, Therapy Service
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	Psy.D., Alliant University-CSPP, Alameda, California, 2006 M.A., Alliant University-CSPP, Alameda, California, 2004 M.A., UC Davis, Davis, California, 1985 B.S., East Stroudsburg University of Pennsylvania, Pennsylvania, 1978
Internships	UC Davis Medical Center, Sacramento , CA, 2006
Fellowships	UC Davis Medical Center, Sacramento, CA, 2007
Board Certifications	Licensed Clinical Psychologist, 2009

Debra Ann Fishman, M.A., Psy.D.

Professional Memberships American College of Sports Medicine
American Psychological Association

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Ken Furukawa, M.D.

Clinical Interests	Dr. Furukawa specializes in acute and chronic pain management, pediatric acute pain management and pediatric anesthesiology. His research interests include general anesthesia and respiratory infections, as well as acute pain control for skin grafting in burned children.
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., University of Texas Medical Branch at Galveston, Galveston, Texas, 1985 B.A., Pomona College, Claremont, California, 1981
Internships	The University of Texas Medical Branch, Galveston, Texas, 1986
Residency	The University of Texas Medical Branch, Galveston, Texas, 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 Board



Ken Furukawa, M.D.

Journal of Burn Care & Rehabilitation
Sierra Sacramento Valley Medical Society
Society for Pediatric Anesthesia

Honors and Awards

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

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Peter Karl Gerritz, M.D.

Philosophy of Care	Dr. Gerritz provides a healing environment with an integral symbiotic patient- physician relationship for pain management and other functional impairments.
Clinical Interests	Integrative medicine, concussion management/traumatic brain injury, musculoskeletal medicine, non operative spine care, electrodiagnostics (EMG/NCS), and neuro-rehabilitation focusing on multiple sclerosis, adults with cerebral palsy, stroke, and other neurological conditions. He is a member of the multidisciplinary inpatient rehabilitation team.
Title	Staff Physician
Specialty	Physical Medicine and Rehabilitation
Department	Physical Medicine and Rehabilitation
Division	Physical Medicine and Rehabilitation
Clinic	UC Davis Medical Group, Folsom
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
	UC Davis Medical Group - Folsom, 251 Turn Pike Dr. Folsom, CA 95630 Phone: 916-985-9300
Additional Phone	Phone: 800-4-UCDAVIS (800-482-3284)
Languages	Spanish, Thai
Education	M.D., UC Irvine College of Medicine, Irvine, California, 2007 B.S., UC Santa Barbara, Santa Barbara, California, 2003
Internships	UC Davis Medical Center, Sacramento, CA, 2008



Peter Karl Gerritz, M.D.

Residency UC Davis Medical Center, Sacramento, CA, 2011

Fellowships University of Arizona, Arizona Center for Integrative Medicine, Tucson, AZ, 2011

Professional Memberships American Academy of Medical Acupuncture
American Academy of Physical Medicine Rehabilitation

Honors and Awards APS: Fundamentals of Pain Management Grant, 2010
AMSA Complementary and Alternative Medicine Leadership Training Program Grant, 2004
American Heart Association Summer Research Internship Grant, 2000

Select Recent Publications Yao E, Gerritz PK, Henricson E, Abresch T, Kim J, Han J, Wang K, Zhao H. Randomized controlled trial comparing acupuncture with placebo acupuncture for the treatment of carpal tunnel syndrome. *PM R.* 2012 May;4(5):367-73. Epub 2012 Mar 7.

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Munish C. Gupta, M.D.

Clinical Interests	Munish C. Gupta is an adult and pediatric spine care specialist. His areas of expertise focus on spinal reconstructive surgery, including repair of spinal deformities associated with scoliosis, multiple surgeries and severe spine problems. Gupta is conducting research to develop an animal model to enhance spinal fusion.
Title	Chief of Orthopaedic Spinal Disorders Service Co-Director of Spine Center Professor
Specialty	Orthopaedic Surgery - Spinal Disorders
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., Northwestern University, Chicago, Illinois, 1986 B.S., Northwestern University, Evanston, Illinois, 1982
Internships	Northwestern University, Chicago, Illinois, 1986-87
Residency	Northwestern University, Chicago, Illinois, 1987-91
Fellowships	Kenton D. Leatherman Spine Center and University of Louisville, Louisville, Kentucky, 1991-92
Board Certifications	American Board of Orthopaedic Surgery, 2005
Professional Memberships	American Academy of Orthopaedic Surgeons American College of Surgeons American Medical Association American Osteopathic Association California Orthopaedic Association



Munish C. Gupta, M.D.

Federation of Spine Association
Medical Advisory Board, Sacramento Valley Chapter
National Scoliosis Foundation
North American Spine Society
Paul R. Lipscomb Society
Scoliosis Association, Inc.
Scoliosis Research Society
Western Orthopaedic Association

Honors and Awards

Distinguished Service Award, City of Detroit, 2004
Teacher of the Year, Orthopaedic Department, 2002
Spirit of Detroit Award for Work in West Africa, 2001
Teacher of the Year, Orthopaedic Department, 1999
Chief Residents' Special Recognition Award for Excellence in Teaching, 1998

Select Recent Publications

Chan, D, Khan, S, Ye, X, Curtiss, S, Gupta, M, Klineberg, E. Mechanical Deformation and Glycosaminoglycan Content Changes in a Rabbit Annular Puncture Disc Degeneration Model, Neu, C, Spine 2011 Jan 25.

Klineberg E, Schwab FJ, Ames CP, Hostin R, Bess S, Smith JS, Gupta, MC, Boachie-Adjei, O, Hart, RA, Akbarnia, BA, Butron, DC, Lafage V. Acute Reciprocal Changes Distant from the Site of Spinal Osteotomies Affect Global Postoperative Alignment, The International Spine Study Group, Advances in Orthopedics, vol. 2011, Article ID 415946, 7 pages, 2011.

Tang, Y, Ye, X, Klineberg, E, Curtiss, S, Maitra, S, Gupta, MC. Temporal and spatial expression of BMP's and BMP antagonists during posterolateral lumbar fusion, Spine, 2010 Nov 19.

Khan SN, Hofer MA, Gupta MC. Lumbar degenerative scoliosis: outcomes of combined anterior and posterior pelvis surgery with minimum 2-year follow-up. Orthopedics, 32(4): 112-5. 2009

Khan, S.N., Edmonds, E.w., Titelman, R.M., Gupta, M.C. Using Suture Anchors for Cervical Laminoplasty: A Reliable Safe and Simple Technique, The American Journal of Orthopaedics, Am J Orthop, 37(8): 400-2. 2008

Gupta MC, Theerajunvaporn T, Maitra S, Schmidt NB, Holy CE, Kadiyala S, Bruder SP: Efficacy of mesenchymal stem cell enriched grafts in an ovine posterolateral lumbar spine model. Spine. 2007 April 1;32(7): 720-6.

Gupta MC, Wijesekera S, Sossan A, Martin L, Vogel LC, Boakes JL, Lerman JA, McDonald CM, Betz RR: Reliability of radiographic parameters in neuromuscular scoliosis. Spine. 2007 Mar 15;32(6): 691-5



Munish C. Gupta, M.D.

Huang P, Gupta MC, Sarigul-Klihn N, Hazelwood S: Two in vivo surgical approaches for lumbar corpectomy using allograft and a metallic implant: a controlled clinical and biomechanical study. Spine J. 2006 Nov-Dec;6(6):648-58.

Cheng, I., Kim, Y., Gupta, M., Bridwell, K., Hurford, R., Lee, S., Awaya, D., Theerajunyaporn, T., Lenke, L. Apical Sublaminar Wires versus Pedicle Screws – Which Provides Better Results for Surgical Correction of Adolescent Idiopathic Scoliosis? Spine, Vol.30(18), 2104-2112.

Gupta MC, Khan SN: Application of bone morphogenetic proteins in spinal fusion. Cytokine Growth Factor Rev. 2005 June;16(3):347-55.

Button G, Gupta M, Barrett C, Cammack P, Benson D: Three- to six-year follow-up of stand-alone BAK cages implanted by a single surgeon. Spine J. 2005 Mar-Apr;5(2):155-60

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

Clinical Interests J. Patrick Johnson is an internationally renowned spinal expert who has directed spine centers at UCLA and Cedars-Sinai and is a leader in the rapidly emerging field of spinal technologies. He is an innovator in developing new minimally invasive surgical methodologies using computer-guided surgical procedures, endoscopic and minimally invasive surgical procedures and motion preservation procedures with artificial discs (including FDA/IDE clinical trials for two artificial disc devices). Dr. Johnson's other clinical research interests involve stem cell repair of the spinal column and the spinal cord, and he is one of a limited number of neurosurgeons who specialize in novel methods of treating scoliosis and complex spinal deformities.

Dr. Johnson draws from 20 years of clinical expertise in a wide variety of spine problems, including disc herniation, spinal stenosis, spondylolisthesis and related degenerative spine disorders. He also has experience with traumatic spine and spinal cord injuries, spinal cord tumors and spinal column tumors, spinal infections, congenital spinal anomalies, spinal vascular malformations and spinal deformity disorders.

Dr. Johnson has published more than 500 manuscripts, abstracts, books and book chapters in leading journals, and has lectured widely at national and international meetings on most aspects of spinal disorders and emerging technologies. He is actively involved in post-graduate fellowship training for surgeons in both orthopedics and neurosurgery and has trained more than 70 surgeons worldwide.

Title Clinical Professor, Co-Director Neurosurgery Spine Fellowship Program

Specialty [Cancer](#), Neurological Surgery

Department Neurological Surgery

Division Neurological Surgery

Clinic Neurological Surgery Clinic
UC Davis Cancer Center

Center/Program Affiliation [Spine Center](#)

[UC Davis Comprehensive Cancer Center](#)

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Phone: 916-734-7463



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

Additional Phone 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
Neurosurgical Society of America
North American Spine Society
ONE Spine – Board Member
Professional Bull Riders



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

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

Select Recent Publications

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* February 2012;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* November 2011; 31 (5):E9

Jeswani S, Drazin D, Shirzadi A, Fan X, Johnson JP. Endometriosis in the Lumbar Plexus Mimicking a Nerve Sheath Tumor. *World Journal of Oncology* December 2011; Vol. 2, No. 6, p314-318

Sasso RC, MD, Anderson PA, Riew DK, Heller JG (Johnson JP-contributing IDE Clinical Investigator): Results of Cervical Arthroplasty Compared with Anterior Discectomy and Fusion: Four-Year Clinical Outcomes in a Prospective, Randomized Controlled Trial. *J Bone Joint Surg* 2011;93:1684-92

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, *Journal of Neurosurgery-Spine* December 2010;13(6): p695-706

Ghostine S, Perry E, Vaynman S, Raghavan R, Tong KA, Samudrala S, Johnson JP, Colohan ART: The Rare Case of an Intramedullary Cervical Spinal Cord Teratoma in an Elderly Adult: Case Report and Literature Review. *Spine* 2009;15;34(26):E973-8

Heller JG, Sasso RC, Papadopoulos SM, Anderson PA, Fessler RG, Hacker RJ, Coric D, Cauthen JC, Riew DK (Johnson JP-contributing IDE Clinical Investigator): Comparison of BRYAN Cervical Disc Arthroplasty With Anterior Cervical Decompression and Fusion: Clinical and Radiographic Results



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

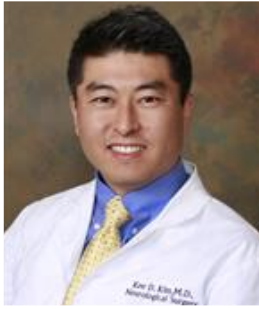
of a Randomized, Controlled Clinical Trial. SPINE 2008;34(2):101-107

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

Patel N, Wolcott P, Johnson JP, Cambron HO, Lewin M, McBride DQ, Batzdorf U: "Esophageal Injury Associated with Anterior Cervical Spine Surgery". Surg Neurol January 2008;69(1):20-4

Meyer SC, Swartz K, Johnson JP: Quadriplegia and Spinal Cord Stimulation: Case Report. Spine September 2007 32(19): E565-8

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Kee D. Kim, M.D.

Clinical Interests

Dr. Kim is a neurosurgeon 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. As the UC Davis neurosurgery spine fellowship director, he has trained many residents and fellows who have gone on to become spine specialists in their respective groups. He has published numerous manuscripts and book chapters dealing with myriad of spinal disorders. As an expert recognized in his field, 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 Associate Professor
Chief, Spinal Neurosurgery
Co-Director of Spine Center

Specialty Neurological Surgery

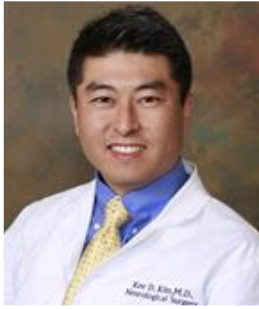
Department Neurological Surgery

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, Maryland, 1992
B.S., Yale University, New Haven, Connecticut, 1986

Internships UC Davis Medical Center, Sacramento, California, 1992-1993

Residency UC Davis Medical Center, Sacramento, California, 1993-1998

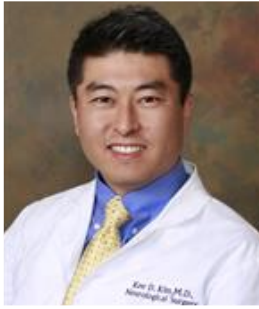
Fellowships UCLA, Los Angeles, California, 1997-1998

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
Korean American Spine Society
National Neurotrauma Society
North American Spine Society
Sacramento-El Dorado Medical Society
Spine Arthroplasty Society
World Spine Society

Honors and Awards Kingston's National Registry of Who's Who, 2001
Kingston's National Registry of Who's Who, 2000
CARE (Courtesy, Attitude, Respect, Enthusiasm) Certificate, UC Davis Medical Center, 1994
The Beyond War Award, Peace Corps, Thailand, 1987
Cum Laude, Yale University, New Haven, Connecticut, 1986
Westinghouse Talent Search, Semifinalist, New York, New York, 1981

Select Recent Publications Lee C and Kim K. Stem cell microenvironment as a potential therapeutic target. *Regenerative Medicine*, 2012 7(1): 3-5.
Jared D. Ament, M.D., M.P.H., and Kee D. Kim, M.D. Standardizing cost-utility analysis in neurosurgery. *Neurosurg Focus*, 2012 33(1): 1-6.



Kee D. Kim, M.D.

- Kim KD, Li W and C Galloway. Use of a Radiopaque Localizer to Reduce Radiation Exposure. *Annals of Surgical Innovation and Research*, 2011: 5:6.
- Mohammed A, Eleraky MA, Duong HT, Esp E, and KD Kim. Expandable Versus Non-expandable Cages for Thoracolumbar Burst Fracture. *World Neurosurgery*, 2011 75(1): 149-154.
- Kim KD, Wright NM and The Spinal Sealant Study Group. Polyethylene Glycol (PEG) Hydrogel Spinal Sealant (DuraSeal™ Spinal Sealant) as an Adjunct to Sutured Dural Repair in the Spine: Results of a Prospective, Multicenter, Randomized Controlled Study. *Spine*, 2010 36(23): 1906 - 1912.
- Roberto RF, McDonald T, Curtiss S, Neu CP, Kim KD and FPennings. Kinematics of Progressive Circumferential Ligament Resection (Decompression) in Conjunction With Cervical DiscArthroplasty in a Spondylotic Spine Model. *Spine*, 2010 35(18): 1676-1683.
- Cappuccino A, Cornwall GB, Turner A, Fogel G, Duong HT, Kim KD and DS Brodke. Biomechanical Analysis and Review of Lateral Lumbar Fusion Constructs. *Spine*, 2010 35(26S): S361-S367
- Shahlaie K. and KD Kim. Occipitocervical Fusion using Recombinant Human Bone Morphogenetic Protein-2: Adverse Effects Due to Tissue Swelling and Seroma Spine. *Spine*, 2008 33(21): 2361-2366.

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Eric O. Klineberg, M.D.

Clinical Interests	Dr. Klineberg's clinical interests include all aspects of spinal degeneration, deformity, tumor and fracture. He has a particular interest in minimal access surgery and cervical compression and deformity. Dr. Klineberg's research interests focus on cartilage regeneration in degenerative disc disease as well as biomechanical models of spinal stability.
Title	Assistant Residency Director Associate Professor Spine Fellowship Program Director
Specialty	Orthopaedic 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., University of Maryland, Baltimore, Maryland, 2001 B.A., Rice University, Houston, Texas, 1994 M.S., University of Maryland, College Park, Maryland, 1996
Internships	University of Washington, Seattle, WA, 2002
Residency	University of Washington, Seattle, WA, 2006
Fellowships	Cleveland Clinic Foundation, Cleveland, OH, 2007
Board Certifications	American Board of Orthopaedic Surgery, 2009
Professional Memberships	AO Spine North America California Orthopaedic Association North American Spine Society (NASS) Sierra Sacramento Valley Medical Society (SSMS)



Eric O. Klineberg, M.D.

Western Orthopaedic Association

Honors and Awards

American Orthopaedic Association (JOA) Japanese Traveling Fellowship, 2012

Select Recent Publications

Chan, D, Khan, S, Ye, X, Curtiss, S, Gupta, M, Klineberg, E . Mechanical Deformation and Glycosaminoglycan Content Changes in a Rabbit Annular Puncture Disc Degeneration Model, Neu, C, Spine 2011 Jan 25.

Klineberg E, Schwab FJ, Ames CP, Hostin R, Bess S, Smith JS, Gupta, MC, Boachie-Adjei, O, Hart, RA, Akbarnia, BA, Butron, DC, Lafage V. Acute Reciprocal Changes Distant from the Site of Spinal Osteotomies Affect Global Postoperative Alignment, The International Spine Study Group, Advances in Orthopedics, vol. 2011, Article ID 415946, 7 pages, 2011.

Lafage V, Smith JS, Bess S, Schwab FJ, Ames CP, Klineberg E, Arlet V, Hostin R, Burton DC, Shaffrey CI . Sagittal spino-pelvic alignment failures following three column thoracic osteotomy for adult spinal deformity. The International Spine Study Group. Eur Spine J. 2011 Aug 12.

Tang, Y, Ye, X, Klineberg, E, Curtiss, S, Maitra, S, Gupta . Temporal and spatial expression of BMP's and BMP antagonists during posterolateral lumbar fusion, MC, Spine, 2010 Nov 19.

Klineberg E . Cervical spondylotic myelopathy: a review of the evidence, , Orthop Clin North Am. 2010 Apr;41(2):193-202.

Klineberg, E, McHenry, T, Bellabarba, C, Wagner, T, Chapman, J, Sacral Insufficiency Fractures Caudal to Instrumented Posterior Lumbosacral Arthrodesis, submitted *Spine Journal* 2008 Jul 15; 33(16); 1806-11.

Minimally invasive surgical treatment of Bertolotti's syndrome: a case report and review of the literature, Ugokwe K, Chen T, Klineberg E, Steinmetz M, Neurosurgery, 2008 May; 62(ONSE 454-5)

Nicandri, GT, Klineberg, EO, Wahl, CJ, Mills, WJ, Treatment of Posterior Cruciate Ligament Tibial Avulsion Fractures Through a Modified Open Posterior Approach: Operative Technique and Twelve to Forty-Eight Month Outcomes, *J Orthop Trauma*, May-Jun;22(5):317-24. 2008

Surgical management of lumbar spinal stenosis: Khan SN, Klineberg E Sheth and Lonner: Gowned and Gloved Orthopaedics - Introduction to Common Procedures Edited by Neil P. Sheth, MD and Baron Lonner, MD Elsevier Science Inc, Philadelphia, PA, 2008

TASR-1 regulates alternative splicing of collagen genes in chondrogenic cells. Matsushita H, Blackburn ML, Klineberg E, Zielinska-Kwiatkowska A, Bolander ME, Sarkar G, Suva LJ, Chansky HA, Yang L. Biochem Biophys Res Commun. 2007 May 4;356(2):411-7.

Klineberg EO, McLain R, Bell G, Cervical Spondylotic Myelopathy: Anterior Approach: Multilevel



Eric O. Klineberg, M.D.

ACDF vs. Corpectomy, *Seminars in Spine Surgery*. 19:1:27-34

Klineberg, EO, Mazanec D, Orr D, DeMicco R, Bell G, McLain R, Masquerade: Medical Causes of Low Back Pain, *Cleveland Clinic Journal of Medicine*. 2007 Dec;74(12):905-13.

Klineberg, EO, Crites, B, Flinn, W, Archibald, J, Moorman III, C, The Role of Arteriography in Assessing Popliteal Artery Injury in Knee Dislocations, *J Trauma*. 56:786 –790

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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	Spine Center UC Davis Medical Group
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
Clinic	UC Davis Medical Group, Rocklin
Center/Program Affiliation	Spine Center UC Davis Medical Group
Address/Phone	Lawrence J. Ellison Ambulatory Care Center, 4860 Y St. Suite 2700 Sacramento, CA 95817 Phone: 916-734-7246 UC Davis Medical Group - Rocklin, 550 West Ranch View Dr. Suite 2005 Rocklin, CA 95765 Phone: 916-295-5700 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



Gagan Mahajan, M.D.

Professional Memberships

American Academy of Physical Medicine and Rehabilitation
Physicians' Association of Spine, Sports and Occupational Medicine

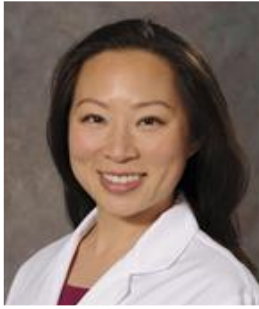
Honors and Awards

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

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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Maureen Noh, M.D.

Clinical Interests	Non operative musculoskeletal and orthopedic care.
Title	Associate Physician
Specialty	Physical Medicine and Rehabilitation
Division	Physical Medicine and Rehabilitation UC Davis Medical Group, Folsom
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
	UC Davis Medical Group - Folsom, 251 Turn Pike Dr. Folsom, CA 95630 Phone: 916-985-9300
Additional Phone	Phone: 800-4-UCDAVIS (800-482-3284)
Education	M.D., University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, NC, 2006 B.S., University of North Carolina, Chapel Hill, NC, 2001
Internships	Internal Medicine, Greenville Hospital, Greenville, SC, 2006
Residency	Physical Medicine and Rehabilitation, University of Washington, Seattle, WA, 2007
Fellowships	Physical Medicine and Rehabilitation, University of Florida, Gainesville, FL, 2010
Board Certifications	American Board of Physical Medicine and Rehabilitation
Professional Memberships	American Academy of Physical Medicine Rehabilitation

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Ripul R. Panchal, D.O.

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).

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 Journal of the American Osteopathic Association, and World Journal of Orthopedics.

Dr. Panchal integrates his growing interest in spine pathophysiology and biomechanics with his humanistic inclinations to provide the most comprehensive, compassionate neurosurgical care. He uses telemedicine to bring care to patients who otherwise would not be able to receive neurosurgical consultation.

Title Assistant Professor

Specialty Neurological Surgery

Department Neurological Surgery
UC Davis Medical Group

Division Neurological Surgery
UC Davis Medical Group, Rocklin

Clinic UC Davis Medical Group, Rocklin

Center/Program Affiliation [Spine Center](#)

[UC Davis Medical Group](#)

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

Phone: 916-734-7463

UC Davis Medical Group - Rocklin, 550 West Ranch View Dr. Suite 2005 Rocklin, CA 95765

Phone: 916-295-5700



Ripul R. Panchal, D.O.

Additional Phone	Clinic Phone: 916-734-7463 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, 2005-06
Residency	Arrowhead Regional Medical Center/Western University, Colton, CA, 2006-11
Fellowships	UC Davis Medical Center, Sacramento, CA, 2011-12
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 North American Spine Society Sigma Sigma Phi Honorary Service Fraternity The Osteopathic Cranial Academy
Honors and Awards	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	Panchal RR, Hutton DS, Kim KD. Bilateral cerebellar infarcts from vertebral artery insufficiency caused by cervical osteophyte. <i>Journal of Spine</i> . July 2012; 1:122 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. <i>The Journal of the American Osteopathic Association</i> . April 2010; 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. <i>Journal of Neuro-Oncology</i> . August 2003; 64(1-2): 139-46



Ripul R. Panchal, D.O.

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Rolando F. Roberto, M.D.

Clinical Interests	Rolando F. Roberto specializes in adult and pediatric spine surgery. He treats diseases of the spine, including scoliosis, lumbar spinal stenosis, herniated discs of the cervical and lumbar spine, in patients from birth through advanced age. Roberto's research focuses on brace treatment of scoliosis, modern surgical methods of scoliosis treatment, and treatment of spinal trauma. He is fluent in Spanish.
Title	Associate Clinical Professor Orthopaedic Residency Program Director
Specialty	Orthopaedic Surgery - Spinal Disorders
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)
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	American Academy of Orthopaedic Surgeons North American Spine Society Scoliosis Research Society



Rolando F. Roberto, M.D.

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 *D. melanogaster dopa decarboxylase gene.*, 1984

Select Recent Publications

1. 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
 2. 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*.36(15) E1009-1017. July 2011.
 3. Roberto RF, McDonald T, Curtiss S, Neu CP, Kim K, Pennings F, "Kinematics of Progressive Circumferential Ligament Resection (Decompression) in Conjunction with Cervical Disc Arthroplasty in a Spondylotic Spine Model. *Spine* 35 (18) 1676-83. August 2010
 7. Huang, P., MD, PhD, Sarigul-Klijn, N., PhD, Hazelwood, S., PhD, Gupta, M. MD, Roberto, R., MD. Design of Biomechanical testing methods and metrics to evaluate the performance of synthetic spinal implants versus bone graft for Lumbar Corpectomy. *Journal of Biomechanics*, 2008.
 8. Dezfuli, B. Roberto, R.; Spondylolysis Effects and Repair in A Calf Spine Model. *Journal of Investigative Medicine: Volume 55 - Issue 1 - p S154* February 3, 2007
 9. Porter, S, Roberto, R. A Retrospective Review of the Anterior and Posterior Approaches To Subaxial Cervical Dislocations and Fracture Subluxation, *Journal of Investigative Medicine* 54(1) S115 Jan 2006.
- Szivek JA, Roberto RF, Margolis OS. In vivo strain measurements from hardware and lamina during spine fusion. *J Biomed Mater Res B Appl Biomater*, 75(2): 243-50. 2005
- Lewicky YM, Roberto RF, Curtin SL. The unique complications of coccidioidomycosis of the spine: a detailed time line of disease progression and suppression. *Spine*, 29(19): E435-41. 2004
- Szivek JA, Roberto RF, Slack JM, Majeed BS. An implantable strain measurement system designed to detect spine fusion: preliminary results from a biomechanical in vivo study. *Spine*, 27(5): 487-



Rolando F. Roberto, M.D.

97. 2002

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Chris S. Shin, M.D.

Clinical Interests My relationship with UC Davis stretches back to my undergraduate training. Throughout my stint here as a medical student and resident the institution has grown by leaps and bounds at a fairly dizzying pace. Being part of something so dynamic is one of the reasons I stayed on as faculty in this system once my training was over. In this system, I serve as a clinician, an educator, and an administrator. My clinical focus includes amputee prosthetic management, non-operative spine care, electro diagnostic testing, and general outpatient rehabilitation. As an educator, I am actively involved in the education of both medical students and residents in the classroom and clinical settings. My administrative duties come as the clinic medical director for the Physical Medicine Rehabilitation clinics at UC Davis. In addition to my work related responsibilities, I also enjoy giving back to the community by volunteering as the musculoskeletal coordinator at the Paul Hom student run free clinic on a monthly basis.

Title Assistant Professor

Specialty Physical Medicine and Rehabilitation

Department Physical Medicine and Rehabilitation

Division Physical Medicine and Rehabilitation

Center/Program Affiliation [Spine Center](#)

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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



Chris S. Shin, M.D.

- 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
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
Award for Outstanding Service and Dedicated Commitment to the Community, Paul Hom Asian Clinic, 1999
Departmental Citation for Academic and Research Excellence, Department of Microbiology, UC Davis, 1995
Award for Academic Excellence, DeAnza College, 1993
- Select Recent Publications** Shin CS. Research Investigator: Determining Neuropsychiatric Baselines in Amature 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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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 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](#)

Address/Phone Lawrence J. Ellison Ambulatory Care Center, Physical Medicine & Rehabilitation, 4860 Y St. Suite 1700 Sacramento, CA 95817
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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, 1987-1990

Board Certifications American Board of Physical Medicine and Rehabilitation, 1991



Carol Vandenakker-Albanese, M.D.

Professional Memberships

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

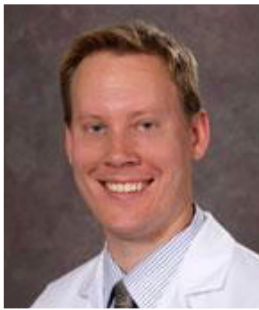
Honors and Awards

Outstanding Aerobics Major – Oral Roberts University, 1980
National Merit Scholar, 1976

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.
Roach KE, Vandenakker C, Wise H, Markei L, Morales C, Lawrence S: A one year follow-up study of patients with post-polio syndrome and other polio survivors. Physical Therapy 77, 1997.
Roach KE, Vandenakker C, Wise H, Prieto N, Reilly K, Walker A, Van Bruggen P: A comparison between patients with post-polio syndrome and other polio survivors. Physical Therapy 76, 1996.

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Ben Waldau, M.D.

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. 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 Assistant Professor

Specialty Neurological Surgery, [Surgery - Vascular and Endovascular](#)

Department Neurological Surgery

Division Neurological Surgery

Center/Program Affiliation [Center for Neuroscience](#)
[Center for Skull Base Surgery](#)
[Spine Center](#)
[UC Davis Medical Group](#)

Address/Phone Lawrence J. Ellison Ambulatory Care Center, Neurosurgery Clinic, 4860 Y St. Suite 0100
Sacramento, CA 95817
Phone: 916-734-4300

Languages German

Education M.D., Ruprecht-Karls University, Heidelberg, 2002

Internships Duke University Medical Center , 2004-05

Residency Duke University Medical Center, 2005-10



Ben Waldau, M.D.

Fellowships University of Florida , 2010-11

William P. Van Wagenen Fellowship at Center for Regenerative Therapies Dresden, Dresden, 2011-12

Professional Memberships Society for Neuroscience

Honors and Awards CNS Basic Science/Translational Research Resident Fellowship Award, 2007

Select Recent Publications

Waldau B, Fargen KM, Mack WJ, Wilson NM, Khaldi A, Hoh BL, Mocco J. Axiom MicroFX Coil for Completing Endovascular Aneurysm Surgery Study (ACCESS): A prospective evaluation of the safety and durability of Axiom MicroFX PGLA coils. *Interv Neuroradiol.* 2012; 18:200-7

Khaldi A, Fargen KM, Waldau B, Siddiqui AH, Hoh BL, Mack W, Carpenter J, Veznedaroglu E, Mocco J. The Orbit Galaxy XTRASOFT Coils: A Multicenter Study of Coil Safety and Efficacy in Both Ruptured and Unruptured Cerebral Aneurysms. *J Vasc Interv Neurol.* 2012; 5:17-21

Waldau B, Reavey-Cantwell JF, Lawson MF, Jahshan S, Levy EI, Siddiqui AH, Mocco J, Hoh BL. Intentional partial coiling dome protection of complex ruptured cerebral aneurysms prevents acute rebleeding and produces favorable clinical outcomes. *Acta Neurochir (Wien).* 2012; 154:27-31

Waldau B, Turk AS 3rd, Yashar P, Khaldi A, Turner RD 4th, Chaudry MI, Siddiqui AH, Levy EI, Hoh BL, Mocco J. Perioperative safety of Hydrossoft coils. *J Neurointerv Surg.* 2011; [Epub ahead of print]

Khaldi K, Waldau B, Skowlund C, Velat GJ, Mocco J, Hoh BL. Delayed complication from a percutaneous vascular closure device following a neuro-interventional procedure. *Interv Neuroradiol.* 2011; 17:495-500

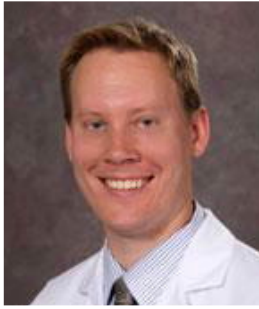
Waldau B, Clayton DA, Gasperson LB, Turner DA. Analysis of the Time Course of the Effect of Subthalamic Nucleus Stimulation upon Hand Function in Parkinson's Patients. *Stereotact Funct Neurosurg.* 2011; 89:48-55

Waldau B, Hattiangady B, Kuruba R, Shetty AK. Medial Ganglionic Eminence-Derived Neural Stem Cell Grafts Ease Spontaneous Seizures and Restore GDNF Expression in a Rat Model of Chronic Temporal Lobe Epilepsy. *Stem Cells.* 2010; 28:1153-64

Waldau B. Stem Cell Transplantation for Enhancement of Learning and Memory in Adult Neurocognitive Disorders. *Aging and Disease.* 2010; 1:60-71

Waldau B, McLendon RE, Fuchs HE, George TM, Grant GA. Few isolated neurons in hypothalamic hamartomas may cause gelastic seizures. *Pediatr Neurosurg.* 2009; 45:225-229

Waldau B, Domeshek LF, Leigh FA, Lum KC, Fuchs HE, Marcus JR, Mukundan S, Grant GA. Spontaneous resolution of a 13-mm Chiari malformation Type I in relation to differential growth of



Ben Waldau, M.D.

the posterior fossa volume. J Neurosurg Pediatrics. 2009; 3:110-4

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