

CURRICULUM VITAE

Ripul Rajen Panchal, DO, FACOS, FACS



Personal Information

Work Address:	4001 West 15 th Street, Suite 445 Plano, TX 75093
Mailing Address:	PO Box 2193 Grapevine, TX 76099
Work Phone:	972.806.1188
Work Fax:	888.843.8304
Email:	info@americanneurospine.com

Areas of Interest

Dr. Panchal is a board certified, fellowship-trained neurosurgeon with subspecialty in 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 is in minimal invasive spine surgery, computer-assisted surgery, and motion preservation surgery (disc replacement surgery).

Education

Education and Training

1997 - 2001	Benedictine University, Lisle, IL, B.S., Bachelor of Science, Molecular Biology Major/Mathematics Minor
1999 - 2000	Howard Hughes Medical Institute Summer Research Fellowship at Benedictine University, Lisle, IL, Molecular Biology/Mathematics/Computer Science (Dr. Theresa Friedman, PhD)
2001 - 2005	Des Moines University, Des Moines, IA, D.O., Doctorate of Osteopathic Medicine
2005 - 2006	Western University, Riverside County Regional Medical Center, Traditional Rotating Internship with neurosurgery focus (Dr. Roger C. Garrison, DO)
2006 - 2010	Western University, Arrowhead Regional Medical Center, Neurosurgery Resident (Dr. Javed Siddiqi, MD, PhD)
2010 - 2011	Western University, Arrowhead Regional Medical Center, Chief Neurosurgery Resident (Dr. Javed Siddiqi, MD, PhD)
2011 - 2012	University of California, Davis Medical Center, Sacramento, CA, Complex and Reconstructive Spine Surgery Fellowship (Dr. Kee D. Kim, MD)

Licenses and Certifications

2005	Doctorate of Osteopathic Medicine
2006	Licensed - Osteopathic Medical Board of California, 20A9785
2007	DEA License
2010	California X-Ray Supervisor and Operator Permit, Rhc 169540
2012	American Osteopathic Board of Surgery - Neurological Surgery
2017	Licensed - Texas Medical Board, R3397

Education: Additional Information

Course Work

The Cranial Academy - Basic course in Osteopathy in the Cranial Field, 40hrs
Des Moines, IA. June 15 - 19, 2002

Clinical Epidemiology and Study Design Course. Department of Public Health Sciences, University of California, Davis. Course Instructor - Dr. Stephen McCurdy, MD, MPH. July 8 - 12, 2013

Introduction to Healthcare Improvement Certificate Program. UC Davis School of Medicine Dean's Office and the UC Davis Student Interest Group in Quality Improvement and Patient Safety. Course Instructor - Dr. Ulfat Shaikh, MD, MPH. March 15-16, 2016

Online Evidence-Based Medicine Training Program. North American Spine Society. Course Instructor - Drs. Charles Reitman, MD and Zoher Ghogawala, MD November 29, 2016

Faculty Education Program. AO Spine North America. Course Instructor - Drs. John France, MD, Jean-Paul Wolinsky, MD, and John DeVine, MD. June 15 - August 12, 2017

Professional Affiliations

American Osteopathic Association, 2001 - Present

Honorary Service Fraternity, Sigma Sigma Phi, 2002 - Present

The Osteopathic Cranial Academy, 2002 - 2014

American College of Osteopathic Surgeons, 2007 - Present

North American Spine Society, 2009 - Present

AO Spine - North America, 2011 - Present

Indo-American Spine Alliance, 2012 - Present

California Association of Neurological Surgeons, 2013 - 2017

Osteopathic Physicians & Surgeons of California, 2013 - 2017

California Medical Association, 2014 - 2017

Congress of Neurological Surgeons, 2015 - Present

Council of State Neurological Societies, 2015 - 2016

Scoliosis Research Society, 2016 - Present

American Association of Neurological Surgeons, 2016 - Present

Languages

Fluent in Gujarati

Employment

Employment History

06/2005 - 06/2006	Riverside County Regional Medical Center, Moreno Valley, CA, Internship
07/2006 - 06/2010	Arrowhead Regional Medical Center, Colton, CA, Neurosurgery Resident
07/2010 - 06/2011	Arrowhead Regional Medical Center, Colton, CA, Chief Neurosurgery Resident
07/2011 - 06/2012	University of California, Davis Medical Center, Sacramento, CA, Clinical Neurosurgery/Spine Fellow
07/2012 - 08/2017	Department of Neurological Surgery, University of California, Davis Medical Center, Sacramento, CA, Assistant Professor
08/2014 - 08/2017	Department of Primary Care, Touro University - College of Osteopathic Medicine, Vallejo, CA, Adjunct Clinical Faculty
09/2017 - 10/2017	Consulting Neurosurgeon, Axis Brain & Back Institute, PLLC, Fort Worth, TX
10/2017 - Present	Consulting Neurosurgeon/Founder, American Neurospine Institute, PLLC, Plano, TX

Extending Knowledge

Broadcast, Print or Electronic Media

1.	Brain Tumor Interrupts Trip, Life, Magazine Article, July 2008, All Points Bulletin, The official publication of the Riverside Sheriffs' Association.
2.	Surgical Specialists, Mastering the Mind, Newspaper Article, July 10, 2010, The Sun, San Bernardino County's Newspaper, California.
3.	Serum sodium levels and optimization of brain tissue oxygenation and Intracranial pressures in severe traumatic brain injury, Magazine Article, Fall 2010, California DO, The Journal of the Osteopathic Physicians & Surgeons of California.
4.	VSP Opportunity in Kerala, Other, Spring 2014, Issue 4, IASA (Indo-American Spina Alliance) Newsletter.
5.	Mission Trip to Kolkata, Other, Fall 2014, Issue 5, IASA (Indo-American Spina Alliance) Newsletter.
6.	Spine Fellowship at UC Davis, Other, Summer 2015, Issue 6, IASA (Indo-American Spina Alliance) Newsletter.
7.	InsideSpine, Other, 2015.
8.	Member Spotlight, Other, 2016 Summer, AO Spine Summer Newsletter.
9.	UC Davis surgeons enroll the first patient in an acute spinal cord injury study, Website, October 3, 2016, http://www.ucdmc.ucdavis.edu/publish/news/newsroom/11511 .
10.	UC Davis Health's Dr. Ripul Panchal on new spine surgery techniques: 5 highlights Featured, Website, August 11, 2016, Becker's Spine Review.

Workshops, Conferences, Presentations and Short Courses

1.	Interested in SURGERY? How about SHADOWING a SURGEON?, Invited Speaker, Pre-Med Students, Olson 147, UC Davis, April 3, 2013, 25 Attendees.
2.	Davis Pre-Med SOMA's annual "Dinner with D.O.", Invited Speaker, Pre-Med Students, ARC Ballroom B, UC Davis campus, May 4, 2013, 35 Attendees.
3.	Davis Pre-Med SOMA's annual "Dinner with D.O.", Invited Speaker, Pre-med Students, ARC Ballroom B, UC Davis campus, May 26, 2012, May 4, 2013, 30 Attendees.
4.	Osteopathic Physician Sub-Specialties Panel - 11th Annual UC Davis Pre-Medical and Pre-Health Professions National Conference, Invited Speaker, Pre-Medical Students, UC Davis Campus, October 12, 2013, 60 Attendees.
5.	Want to learn more about: Neurology? Surgery? Osteopathy? Invited Speaker, Medical students, Touro University - School of Osteopathic Medicine, Vallejo, CA, October 15, 2013, 50 Attendees.
6.	On Being a Neurosurgeon, Invited Speaker, Pre-med students, UC Davis campus, April 22, 2014, 30 Attendees.
7.	Osteopathic Physician Sub-Specialties Panel - 12th Annual UC Davis Pre-Medical and Pre-Health Professions National Conference, Invited Speaker, Pre-Medical Students, UC Davis Campus, October 11, 2014, 40 Attendees.
8.	The Path to Neurosurgery and Strategies to Success, Invited Speaker, Medical Students, UC Davis, School of Medicine, February 6, 2015, 40 Attendees.

9.	Des Moines University Alumni Sharing Knowledge (ASK), Invited Speaker, Medical Students, Des Moines, IA (Skype), April 24, 2017, 24 Attendees.
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Grants and Contracts *(Discontinued with recent change in affiliation.)*

Grants Active

05/27/2015 - 06/30/2016	\$368,550.00, Co-Investigator, *Clinical Trial*: Safety and Efficacy of Pulsed Electromagnetic Fields (Cervical-Stim) as an Adjunct to Enhance Union in Conservatively Treated, Kee D. Kim, MD (Principal Investigator), Orthofix, Inc.
05/12/2015 - 3/29/19	Principal Investigator, *Clinical Trial*: Isolated Traumatic C1 Injury Patterns, Department of Neurological Surgery
03/31/2015 - 01/30/2028	Grant #Invivo-100-101, \$172,846, Co-Investigator, *Clinical Trial*: INVIVO: Pilot Study of Clinical Safety and Feasibility of The Plga-Poly-L-Lysine Scaffold for The Treatment of Complete (ASIA A) Traumatic Acute Spinal Cord Injury, Kee D. Kim, MD (Principal Investigator), InVivo Therapeutics Corporation
6/7/2017 - 2/6/2020	\$95,936, Principal Investigator, *Clinical Trial*: A Prospective, Randomized, Multi-Center, Open-Label Pilot Study of Infuse® Bone Graft with Mastergraft® Strip and Posterior Fixation for Posterolateral Fusion (PLF) Treatment of Multi- Level Degenerative Lumbosacral Spinal Conditions, Medtronic
01/18/2017 - 12/31/2017	\$90,288, Co-Investigator, *Clinical Trial*: A Multicenter, Randomized, Double-Blind, Controlled Study of EXPAREL for Postsurgical Pain Management in Subjects Undergoing Open Lumbar Spinal Fusion Surgery, Kee D. Kim, MD (Principal Investigator), Pacira Pharmaceuticals, Inc.
04/10/2017 - 4/9/2027	Principal Investigator, Cost-effectiveness of a novel cervical spine clearance protocol: obviating the need for routine magnetic resonance imaging
10/6/2015 - 09/29/2020	Grant #MSB_DR003, \$380,462, Co-Investigator, *Clinical Trial*: A Prospective, Multi-center, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Efficacy and Safety, Kee K. Kim, MD (Principal Investigator), Mesoblast, Inc
4/1/2016 - 6/30/2020	Grant #VX15-210-101, \$166,055, Co-Investigator, *Clinical Trial*: A Phase 2b/3, Double-blind, Randomized, Placebo-Controlled, Multicenter Study to Assess the Efficacy and Safety of VX-210 in Subjects with Acute Trauma5c Cervical Spinal Cord Injury, Kee D. Kim, MD (Principal Investigator), Vertex Pharmaceuticals, Inc
2/10/2017 - 6/1/2019	\$57,922, Co-Investigator, *Clinical Trial*: Post-Market, 10 Year Follow Up of Mobi-C Cervical Disc for one and Two Level Treatment of Cervical Disc Disease, Kee D. Kim, MD (Principal Investigator), LDR Spine
5/27/2015 - 3/13/2027	Principal Investigator, *Clinical Trial*: Comparing clinical and radiographic outcomes of lumbar fixation techniques, Department of Neurological Surgery
12/18/2015 - 12/17/2018	Principal Investigator, *Clinical Trial*: Comparing clinical and radiographic outcomes of intramural tumors after surgical management, Department of Neurological Surgery
3/10/2016 - 3/9/2019	Principal Investigator, *Clinical Trial*: Tarlov's cysts and clinical outcome after surgical and non-surgical intervention, Department of Neurological Surgery

Grants Completed

10/08/2015 - 07/01/17	\$36,597.00, Principal Investigator, *Clinical Trial*: Evaluation of Intraoperative Navigation and PediGuard for Pedicle Screw Insertion, Spine Guard, Inc.
01/14/2013 - 01/13/2016	Principal Investigator, *Clinical Trial*: 2-Level ACDF: A single Institution experience with multiple cervical devices, Department of Neurological Surgery
10/26/2011 - 11/01/2016	Grant #MSB_DR001 Disc, \$205,670, Co-Principal Investigator, *Clinical Trial*: A Prospective, Multi-center, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Efficacy and Safety, Kee D. Kim, MD (Principal Investigator), Mesoblast, Inc
08/13/2012 - 05/31/2014	Grant #LDR-001, \$1,705,477, Co-Investigator, MOBI-C: A Multi-Center, Prospective, Randomized, Controlled Clinical Trial Comparing the Safety and Effectiveness of the MOBI-C Prosthesis to Conventional Anterior Cervical Discectomy and Fusion in the Treatment of Symptomatic Degenerative Disc Disease in, Kee D. Kim, MD (Principal Investigator), LDR Spine
12/08/2011 - 06/30/2017	\$113,368.00, Co-Investigator, *Clinical Trial*: DuraSeal Exact Spine Sealant System Post-Approval Study, Kee D. Kim, MD (Principal Investigator), Integra
01/22/2015 - 01/21/2016	Principal Investigator, *Clinical Trial*: Segmental Correction of Kyphotic Deformity, Department of Neurological Surgery
08/16/2013 - 12/31/2016	\$57,923.00, Principal Investigator, *Clinical Trial*: Does the Type of Procedure Affect the Incidence of Dysphagia and Dysphonia in ACDF patients?, Globus, Inc.

Honors & Awards

2002 - Present	Honorary Service Fraternity Certificate, Sigma Sigma Phi
2007	Residency Advisory Committee Service Award
2007-2008	Cambridge Who's Who Registry of Executives and Professionals
2009	#1 score on the Neurosurgery Osteopathic In-Service exam for PGY-4 in the Country
2009	2nd Place, Resident achievement award for research paper, American College of Osteopathic Surgeons (ACOS) - Neurological Surgery Section
2010	2nd Place, Robert C. Erwin Literary Award, ACOS
2010	2nd Place, Scientific poster presentation in the field of Neurological Surgery, ACOS
2010	1st Place, Scientific poster presentation in the field of Neurological Surgery, ACOS
2010	1st Place, Osteopathic Physicians and Surgeons of California's Resident, Research Paper Competition Award
2010	1st Place, Resident achievement award for research paper, ACOS Neurological Surgery Section
2011	George W. Northup, DO, Medical Writing Award
2011	Certificate of Recognition Presented by San Bernardino County Fifth District Supervisor Josie Gonzales.
2014	Fellow of the American College of Osteopathic Surgeons (FACOS)
2015	Teaching in Excellence Award, Department of Neurological Surgery - University of California, Davis
2015	University of California, Davis Medical Center Excellence in Quality
2016	UC Davis Medical Center GME High Value Competition Award, with resident, Dr. Darrin Lee, designed and submitted a project involving "Implementation of protocols to reduce postoperative morbidity in elective neurological surgery spine cases
2016	Fellow of the American College of Surgeons (FACS)
2017	1st Place, 2017 GME High Value Award

List of Evaluations

2012-2013	Teaching evaluations: Neurological Surgery Residency Program (Summary), Instructor Score: 4.7, Course Score: 1-5
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Spring 2013	Neurological Surgery: Career in Osteopathic Medicine - Neurosurgery (Complete), Instructor Score: 4.6/5, Course Score: 1-5
Summer 2013	9th Annual Spine Conference Conference: Lumbar Spine: Common Pathologies and Their Treatment (Complete), Instructor Score: 4.6, Course Score: 1-5
Summer 2013	NSU 470: Advanced Clinical Neurosurgery Total Enrollment: 3 (Complete), Instructor Score: 4.33, Course Score: 1-5
2013-2014	Teaching evaluations: Neurological Surgery Residency Program (Summary), Instructor Score: 5, Course Score: 1-5
2013-2014	Fourth Year Curriculum: Med Student evaluations (Summary), Instructor Score: 4.33, Course Score: 1-5
2014-2015	Teaching evaluations: Neurological Surgery Residence Program (Summary), Instructor Score: 4, Course Score: 1-5
2015	Webinar: Cervical Spine Degenerative Disorders and Management Total Enrollment: 20, Total Responses: 20, % of Return: 100.00% (Summary)
2015-2016	Teaching Evaluations: Neurological Surgery Residence Program (Summary), Instructor Score: 4.65, Course Score: 1-5

Publications

Journals

2003	Glick RP, Lichtor T, Panchal R , Mahendra A and EP Cohen. Treatment with allogeneic interleukin-2 secreting fibroblasts protects against the development of malignant brain tumors. <i>Journal of Neuro-Oncology</i> , 64: 139-146.
2010	Cramer D, Miulli DE, Valcore JC, Taveau JW, Do N, Hutton DS, Sonti G, Wogu E, Boorman CF and RR Panchal . Effect of pedal pump and thoracic pump techniques on intracranial pressure in patients with traumatic brain injuries. <i>The Journal of the American Osteopathic Association (JAOA)</i> , 110(4): 232-238.
2012	Panchal RR , Hutton DS, Kim KD. Bilateral cerebellar infarcts from vertebral artery insufficiency caused by cervical osteophyte. <i>Journal of Spine</i> , 1: 22.
2013	Panchal RR , Kim KD, Krel MA, Lopez J, Shahlaie K and Bobinski M. (Broken Link) Using titanium mesh cage and anterior cervical plate for cervical corpectomies. Clinical Article. <i>Journal of Spine & Neurosurgery</i> , 2(4).
2014	Panchal RR , Duong HT, Shahlaie K, Kim KD. Cervical spinous process reconstruction. <i>Journal of neurosurgery. Spine</i> , 20(1): 18-21.
2014	Kerr EE, Panchal RR , and Kim KD. Refractory Cervical Spinal Pseudomeningocele Successfully Treated with a Polycarbonate Face Mask: Technical Note. <i>JSM Neurosurgery and Spine</i> , 2(1): 1-4.
2015	Panchal RR , Matheis EA, Gudipally M, Hussain MM, Kim KD, Bucklen BS. Is lateral stabilization enough in thoracolumbar burst fracture reconstruction? A biomechanical investigation. <i>Spine J</i> , 15(10): 18-21.
2015	Egerter AC, Kim ES, Lee DJ, Liu JJ, Cadena G, Panchal RR and KD Kim. Dysphagia Secondary to Anterior Osteophytes of the Cervical Spine. <i>Global spine journal</i> , 5(5): e78-83.
2015	Gill RK, Smith ZJ, Panchal RR , Bishop JW, Gandour-Edwards R and Wachsmann-Hogiu S. Preliminary fsLIBS Study on Bone Tumors. <i>Biomedical Optics Express</i> , 6(12): 4850-4858.
2016	Liu JJ, Cadena G, Panchal RR , Schrot RJ, Kim KD. Relief of Cervicogenic Headaches after Single-Level and Multilevel Anterior Cervical Discectomy: A 5-Year Post Hoc Analysis. <i>Global spine journal</i> , 6(6): 563-70.
2016	Lee DJ, Kim SB, Rosenthal R, Panchal RR , Kim KD. Stereotactic guidance for navigated percutaneous sacroiliac joint fusion. <i>Journal of Biomedical Research</i> , 30(2): 162-167.

2017	Danison AP, Lee DJ, Panchal RR . Temporary stabilization of unstable spine fractures. <i>Current reviews in musculoskeletal medicine</i> .
2017	Panchal RR , Kim KD, Eastlake R, Lopez J, Clavenna A, Brooks DM, Joshua G. A Clinical Comparison of Anterior Cervical Plates versus Stand-Alone Intervertebral Fusion Devices for Single-Level Anterior Cervical Discectomy and Fusion Procedures. <i>World Neurosurgery</i> , 99: 630-637.
2017	Lee DJ, Ahmadpour A, BS, Ament JD, Goodarzi A, Panchal RR . When is occipitocervical fusion necessary for upper cervical injuries? <i>Seminars in Spine Surgery</i> , 29(1): 20-26.

Journals In Press

2017	Danison AP, Lee DJ, Ramanathan D, Matin M, Kim KD, Panchal RR . Adult thoracic intradural exophytic mature teratoma: case report and literature review. ** IN PRESS **
2017	Ahmadpour A, Goodarzi A, Lee DJ, Panchal RR , Kim KD. Spine fractures in osteopetrosis: a case report and review of the literature. <i>Journal of Biomedical Research</i> . ** IN PRESS **

Book Chapters

2013	Panchal RR and EO Klineberg, and KD Kim: Chapter 64: Primary Malignant and Benign Tumors of the Spine, Kim DH, Vaccaro AR, Dickman CA, Cho D, Lee S and Kim I., (ed), <i>Surgical Anatomy & Techniques to the Spine (2nd Ed)</i> , Elsevier Inc., 622-632.
2013	Panchal RR and KD Kim: Chapter 65: Secondary Metastatic Tumors of the Spine, Kim DH, Vaccaro AR, Dickman CA, Cho D, Lee S and Kim I., (ed), <i>Surgical Anatomy & Techniques to the Spine (2nd Ed)</i> , Elsevier Inc., 633-638.
2013	Panchal RR , EE Kerr, and KD Kim: Chapter 66: Surgical Technique for Resection of Intradural Tumors, Kim DH, Vaccaro AR, Dickman CA, Cho D, Lee S and Kim I., (ed), <i>Surgical Anatomy & Techniques to the Spine (2nd Ed)</i> , Elsevier Inc., 639-645.
2015	Panchal RR , Kim KD and Vaccaro AR: Chapter 9: Classification of Upper Cervical Fractures, H S Chhabra, (ed), <i>International Spinal Cord Society (ISCOs) Textbook on Comprehensive management of SCI</i> , Wolters Kluwer India, 166-176.
2015	Panchal RR : Chapter 12: Cervicothoracic Junction Injuries, Alex R. Vaccaro and F. Cumhuri Oner, (ed), <i>AOSpine Masters Series: Cervical Spine Trauma</i> , Vol. 5, Thieme Publishers, New York. pp. 128-136.

Alternative Media

2013	Panchal RR , Duong HT, Shahlaie K, Kim KD.: Cervical spinous process reconstruction. Case Report, <i>JNS Spine Weekly Podcast</i> .
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Abstracts

2008	Panchal R , Cramer D, Miller B, Johl J, Miulli D, Siddiqi J. Treatment of basal ganglia hemorrhage with intraventricular extension using recombinant tissue plasminogen activator. <i>Stroke</i> , 39(2): 651.
2011	Panchal RR , Krel, MA, Miulli DE, Hutton DS, Siddiqi J. Serum sodium levels and optimization of brain tissue oxygenation and intracranial pressures in severe TBI. <i>Journal of Neurosurgery</i> , 115(2): A418.
2013	Kim K and R Panchal . Minimally Invasive Surgery for Disc Herniation, World Federation of Neurosurgical Societies, Seoul, Korea, September.

2013	Kim K and R Panchal . Cervical Spine Deformity Reconstruction, World Federation of Neurosurgical Societies, Seoul, Korea, September.
2014	Panchal RR , Matheis E, Gudipally M, Salloum K, Hussain M, Kim KD, Brandon Bucklen B. Biomechanical Effects of Thoracolumbar Burst Fracture Stability with In Vitro Human Cadaveric Model Using Traditional and Integrated Expandable Corpectomy Spacers. <i>Neurosurgical Focus</i> , April: A32-33.
2015	Kim KD, Panchal RR , Matheis E, Gudipally M, Salloum K, Hussain M, and B Bucklen. Is Lateral Stabilization Enough In Thoracolumbar Burst Fracture Reconstruction? A Biomechanical Investigation. <i>Journal of Neurosurgery</i> , 123(2): A507.
2015	Liu JJ, Panchal RR , Kim, KD. Functional Spinal Unit Height and Sagittal Alignment of Two- Level CDA and ACDF Patients. <i>The Spine Journal</i> , 15: 87S–267S.
2016	Kim KD, DenHaese RP, Strenge KB, Hill CP, Passias PG, Arnold PM, Panchal RR , Ferry C, Beginn B, Martine SB, Moore C. Interspinous Process Fixation versus Pedicle Screw Fixation in Circumferential Arthrodesis: Outcomes from a Prospective Randomized Multicenter Trial. <i>The Spine Journal</i> , 16(10): S371.
2016	Panchal R , Gandhi A, Ferry C, Farmer S, Hansmann J, Wanebo J. A Biomechanical Evaluation of a Versatile and Novel Anterior Cervical Fusion Device Possessing Modular and Integrated Fixation Capabilities. <i>Global Spine Journal</i> , 06(S01).
2016	Panchal R , Beliveau A, Lee P, Shen P Chin-Shang L, Klineberg E, Kim K. Two Level Anterior Cervical Arthrodesis with Integrated Spacer and Plate versus Traditional Anterior Spacer and Plate System. <i>Global Spine Journal</i> , 06(S01).

Presentations

2007	April 14, Treatment of basal ganglia hemorrhage with intraventricular extension using recombinant tissue plasminogen activator, E-poster presentation at the American Association of Neurological Surgeons Annual Meeting, Washington, DC; April 14-19.
2007	October 18, Treatment of basal ganglia hemorrhage with intraventricular extension using recombinant tissue plasminogen activator, Poster presentation at the Annual Clinical Assembly of Osteopathic Specialists, San Francisco, California; October 18-21.
2007	October 18, Early abdominal abscess with ventriculoperitoneal shunt infection associated with diabetes mellitus and review of literature, Poster presentation at the Annual Clinical Assembly of Osteopathic Specialists, San Francisco, California; October 18-21.
2008	February 20, Treatment of basal ganglia hemorrhage with intraventricular extension using recombinant tissue plasminogen activator, Poster presentation at the International Stroke Conference, New Orleans, Louisiana; February 20-22.
2010	September 11, Serum sodium levels and optimization of brain tissue oxygenation and Intracranial pressures in severe traumatic brain injury, Oral Manuscript presentation at the Osteopathic Physicians and Surgeons of California, 21st Annual Fall Conference, Monterey, California.
2010	October 23, Serum sodium levels and optimization of brain tissue oxygenation and Intracranial pressures in severe traumatic brain injury, Poster presentation at the Annual Clinical Assembly of Osteopathic Specialists, San Francisco, California; October 23-26.
2011	April 11, Serum sodium levels and optimization of brain tissue oxygenation and Intracranial pressures in severe traumatic brain injury, Oral presentation at the American Association of Neurological Surgeons Annual Meeting, Denver, Colorado; April 11.

2011	September 15, Treating chronic subdural hematomas early with craniotomy when twist-drill craniostomy with closed system drainage fails, Poster presentation at the Annual Clinical Assembly of Osteopathic Specialists, Atlanta, Georgia; September 15-18.
2012	April 14, Treating chronic subdural hematomas early with craniotomy when twist-drill craniostomy with closed system drainage fails, E-poster presentation at the American Association of Neurological Surgeons Annual Meeting, Miami, Florida; April 14-18.
2012	November 9, Kim KD, Panchal RR (Preparation of the presentation). The role of discectomy and corpectomy in cervical deformity surgery, The 6th Asia Pacific Cervical Spine Society Meeting (APCSS). Chiang Mai, Thailand.
2013	January 8, Decision making in Cervical spine pain patient: Case Presentation., Oral Presentation at the University of California, Davis, Department of Neurosurgery Spine Conference, Sacramento, California.
2013	February 11, MIS(S) Therapies for LBP, Oral Presentation at the University of California, Davis, Department of Pain Grand Rounds, Sacramento, California.
2013	February 19, Prospective, randomized evaluation of 2-level anterior cervical discectomy and fusion with three different cervical spacer and plate systems., Oral presentation at the University of California, Davis, Neurosurgery Research Conference, Sacramento, California.
2013	March 6, Cervical corpectomies: Using titanium mesh cage and anterior cervical plate, Clinical experience, E-poster presentation at the 29th Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona; March 6-9.
2013	June 28, Lumbar Spine: Common Pathologies, 9th Annual UC Davis Spine Care Conference for the Primary Care Practitioner. Sacramento, CA.
2013	June 28, Lumbar Spine - Panel Discussion with Case Vignettes, 9th Annual UC Davis Spine Care Conference for the Primary Care Practitioner. Sacramento, CA.
2013	September, Kee Kim and Ripul Panchal (Preparation of the presentation). Minimally Invasive Surgery for Disc Herniation, World Federation of Neurosurgical Societies, Seoul, Korea.
2013	September, Kee Kim and Ripul Panchal (Preparation of the presentation). Cervical Spine Deformity Reconstruction, World Federation of Neurosurgical Societies, Seoul, Korea, September.
2013	October 15, Want to learn more about Neurology, Surgery, and Osteopathy? Osteopathic Medical Students and faculty, Touro University, Vallejo, California.
2013	November 17, Life After Training: Academic Practice, Hospital Employee, or Private Practice. 2013 Annual Clinical Assembly of Osteopathic Surgeons/American College of Osteopathic Surgeons - Neurological Surgery Discipline, Las Vegas, NV (Delayed entry of details).
2014	February 1, Ripul Panchal and Kee Kim. C1 Ring Fracture. Oral presentation. Spine A-Z: Current Concepts and Controversies. Association for Collaborative Spine Research, San Diego, CA.
2014	February 4, Biomechanical Comparison of Thoracolumbar Burst Fracture Stability. Oral presentation. Spine Grand Rounds, UC Davis, Sacramento, CA.
2014	February 26, Ripul Panchal and Kee Kim. Understanding Cervical Spine Mechanics in Deformity Management. Oral presentation. Visiting Professor - Orthopedic Grand Rounds. Amrita Institute of Medical Sciences, Kochi, Kerala, India.
2014	March 5, Ripul Panchal and Kee Kim. Biomechanical comparison of thoracolumbar burst fracture stability using various instrumented fixation techniques with expandable cage. Oral presentation. 30th Annual

	Meeting of the AANS/CNS section on Disorders of the Spine and Peripheral Nerves - American College of Osteopathic Surgeons (Neurosurgery Discipline) Society Meeting, Orlando, FL.
2014	April 1, Interdisciplinary Spine Conference - Spine Surgery in India, UC Davis Medical Center, Sacramento, CA.
2014	April 5, Ripul Panchal, Phillip Rosenthal, Sung Bum Kim, and Kee Kim. Stereotactic guidance for percutaneous sacroiliac joint fusion: technical note. E-poster presentation. American Association of Neurological Surgeons Annual Meeting, San Francisco, California; April 5-9.
2014	April 5, Ripul Panchal, Edward Kerr, and Kee Kim. Refractory cervical spinal pseudomeningocele successfully treated with a polycarbonate face mask. E-poster presentation. American Association of Neurological Surgeons Annual Meeting, San Francisco, California; April 5-9.
2014	April 5, Ripul Panchal, Alexander Egerter, Eric Kim and Kee Kim. Dysphagia secondary to diffuse Idiopathic skeletal hyperostosis of the cervical spine. E-poster presentation. American Association of Neurological Surgeons Annual Meeting, San Francisco, California; April 5-9.
2014	April 5, Panchal RR, Matheis EA, Gudipally M, Slalom K, Hussain MM, Kim KD, Bucklen BS. Supplemental fixation for thoracolumbar burst fracture following reconstruction using traditional or integrated expandable cages: a biomechanics assessment. E-poster presentation. American Association of Neurological Surgeons Annual Meeting, San Francisco, California; April 5-9.
2014	April 5, Panchal RR, Matheis EA, Gudipally M, Slalom K, Hussain MM, Kim KD, Bucklen BS. comparison of thoracolumbar burst fracture stability using traditional and integrated expandable cages: an in vitro human cadaveric model. E-poster presentation. American Association of Neurological Surgeons Annual Meeting, San Francisco, California; April 5-9.
2014	April 5, Cadena G, Duong H, Panchal R, Kim K. C1 Crossing Posterior Arch Screw for Atlantoaxial Fixation: Cadaveric Feasibility Study, E-poster presentation. American Association of Neurological Surgeons Annual Meeting, San Francisco, California; April 5-9.
2014	May 1, Panchal RR, Matheis EA, Gudipally M, Slalom K, Hussain MM, Kim KD, Bucklen BS. Effects of thoracolumbar burst fracture stability with in vitro human cadaveric model using traditional and integrated expandable corpectomy spacers. E-poster presentation. 7th Annual Lumbar Spine Research Society Meeting, Chicago, Illinois; May 1-2.
2014	July 25, Contemporary Clinical Topics: Biomechanical comparison of thoracolumbar burst fracture stability using traditional and integrated expandable corpectomy Spacers, an in vitro human cadaveric model. Oral presentation. Spine Biomechanics Symposium, Audubon, Pennsylvania.
2014	September 2, Interdisciplinary Spine Conference - Anterior cervical and posterior lumbar fusion and adjacent segment pathology and interesting case presentations, UC Davis Medical Center, Sacramento, CA.
2014	October, Panchal RR, Matheis EA, Gudipally M, Salloum K, Hussain M, Kim KD, Bucklen B. Biomechanical comparison of thoracolumbar burst fracture stability with traditional and integrated expandable corpectomy spacers: The effect of footprint size, supplemental fixation, and fracture screws. Poster Presentation, Orthopedic Trauma Association annual meeting, Tampa, Florida; October 15-18.
2015	April 26, Gill R, Smith, Z, Panchal R, Wachsmann-Hogiu S. Femtosecond laser induced breakdown spectroscopy for tissue characterization: A preliminary study., Oral Presentation. 35th Annual Conference of the American Society for Laser Medicine and Surgery. Kissimmee, Florida.
2015	May 2, Danison AP, Lee DJ, Matin M, Kim KD, Panchal RR. Surgical management of a thoracic intramural exophytic mature teratoma, E-poster presentation. American Association of Neurological Surgeons Annual Meeting, Washington D.C; May 2-6.

2015	May 2, Kim KD, Liu JJ, Cadena G, Pancha RR, Schrot R. Relief of Cervicogenic Headaches After Single and Multilevel Anterior Cervical Discectomy: A Five-Year Post-Hoc Analysis, E-poster presentation. American Association of Neurological Surgeons Annual Meeting, Washington D.C; May 2-6.
2015	May 2, Ament JD, Chen Y, Yang Z, Pratt S, Panchal R, Vaccaro A, Arnold P, and Kim K. Spinal cord injury: Barriers to early intervention, E-poster presentation. American Association of Neurological Surgeons Annual Meeting, Washington D.C; May 2-6.
2015	May 2, Kim KD, Panchal RR, Matheis EA, Gudipally M, Slalom K, Hussain MM, Bucklen BS. Is Lateral Stabilization Enough In Thoracolumbar Burst Fracture Reconstruction? A Biomechanical Investigation, Oral and E-poster presentation. American Association of Neurological Surgeons Annual Meeting, Washington D.C; May 2-6.
2015	July 26, Wang W, Moldavsky M, Bucklen B, Panchal RR, Kim KD. Will Intraoperative Contouring of a 3.5mm Diameter Rod Decrease its Fatigue Performance: A Finite Element Study, E-poster Presentation. Spine Across the Sea, a joint meeting of the North American Spine Society and the Japanese Society for Spine Surgery, Kohala Coast, HI, July 26-30.
2015	August 4, Indications for Spinal Surgery, Oral presentation. Pain Fellow's Bootcamp, UC Davis Medical Center, Sacramento, CA.
2015	August 15, Acute Spinal Cord Injury, Oral presentation. Multidisciplinary Neurocritical Care Conference., UC Davis Education Building, Sacramento, CA.
2015	September 4, Si Joint Fusion, Oral presentation., Department of Pain Service, UC Davis Medical Center, Sacramento, CA.
2015	September 26, Spinal Trauma Primer, Oral Presentation. International Neuroscience Nurses Symposium by World Federation of Neuroscience Nurses., UC Davis Mind Institute. Sacramento, CA.
2015	October 6, Denison AP, Panchal RR. Surgical Thoracolumbar Burst Fractures, Oral Presentation. 2015 annual Clinical Assembly of Osteopathic Surgeons, Chicago, IL.
2015	October 30, Elderly Spine: Compression Fractures/Osteoporosis, 11th Annual UC Davis Spine Care Conference for the Primary Care Practitioner. Sacramento, CA.
2016	January 27, Neurosurgery Value Construct Activities. Oral Presentation, UC Davis Quality and Safety Operations Meeting, Sacramento, CA.
2016	February 24, Utilization of integrated spacer and plate versus traditional anterior spacer and plate system for two level anterior cervical arthrodesis, E-poster presentation, North American Spine Society's 2016 Evidence and Technology Summit, Park City, Utah.
2016	March 19, Panchal RR, Wanebo JE, Gandhi A, Ferry C, Farmer S and Das K. A biomechanical evaluation of a versatile and novel anterior cervical fusion device possessing modular and integrated fixation capabilities. Oral presentation, 32nd Annual meeting of the section on disorders of the spine and peripheral Nerves - Spine Summit 2016, Orlando FL.
2016	March 29, UCD Value Construct. Oral Presentation, Conscious Neurosurgery Care Initiative: Quality & Safety Conference, UC Davis, Sacramento, CA.
2016	March 29, Lee D and Panchal R. Post-op Complications and NSQIP update. Oral Presentation, Conscious Neurosurgery Care Initiative: Quality & Safety Conference, UC Davis, Sacramento, CA..
2016	March 29, Neurosurgery Spine Throughput. Oral Presentation, Conscious Neurosurgery Care Initiative: Quality & Safety Conference, UC Davis, Sacramento, CA.

2016	March 29, Lee D and Panchal R. Resident Education Day. Oral Presentation, Conscious Neurosurgery Care Initiative: Quality & Safety Conference, UC Davis, Sacramento, CA.
2016	April 6, Panchal RR, Wanebo JE, Gandhi A, Ferry C, Farmer S and Das K. A biomechanical evaluation of a versatile and novel anterior cervical fusion device possessing modular and integrated fixation capabilities. E-poster presentation, International Society for the Advancement of Spine Surgery, Las Vegas, NV.
2016	April 15, Panchal RR, Wanebo JE, Gandhi A, Ferry C, Farmer S and Das K. A biomechanical evaluation of a versatile and novel anterior cervical fusion device possessing modular and integrated fixation capabilities. Oral presentation, Global Spine Congress and World Forum for Spine Research 2016, Dubai, UAE.
2016	April 15, Two level anterior cervical arthrodesis with integrated spacer and plate versus traditional anterior spacer and plate system, Oral presentation, Global Spine Congress and World Forum for Spine Research 2016, Dubai, UAE.
2016	May 10, Utilization of integrated cages in cervical spine. Oral Presentation, UC Davis Inter-Disciplinary Spine Conference, Sacramento, CA.
2016	May 16, Panchal R, Wanebo J, Gandhi A, Ferry C, Farmer S. A biomechanical evaluation of a versatile and novel ACDF device possessing modular and integrated fixation capabilities. E-poster presentation, SpineWeek 2016, Singapore, Malaysia.
2016	August 2, Indications for Spine Surgery. Oral presentation. Pain Fellow's Bootcamp, UC Davis Medical Center, Sacramento, CA.
2016	September 24, Sagittal Plane Deformity: Open Approach. Oral presentation. 2016 Annual Clinical Assembly of Osteopathic Surgeons, Phoenix, AZ.
2016	September 24, Kim KD, DenHaese RP, Hill CP, Strenge KB, Moura AD, Passias PG, Arnold PM, Panchal RR, Ferry C, Begin B, Martineck SB. Anterior Versus Lateral Circumferential Lumbar Arthrodesis: Outcomes from a Prospective Multi-Center Study. E-poster presentation, 2016 Congress of Neurological Surgery Annual meeting, San Diego, CA.
2016	September 24, Kim KD, DenHaese RP, Hill CP, Strenge KB, Moura AD, Passias PG, Arnold PM, Panchal RR, Ferry C, Begin B, Martineck SB. Interspinous Process Fixation versus Pedicle Screw Fixation in Circumferential Arthrodesis: Outcomes from a Prospective Randomized Multi-Center Trial. E-poster presentation, 2016 Congress of Neurological Surgery Annual meeting, San Diego, CA.
2016	October 5, Kim K, DenHaese R, Hill C, Strenge B, Panchal R, Passias P, Arnold P, Ferry C, Beginn B, Martin K. Interspinous Process Fixation versus Pedicle Screw Fixation in Circumferential Arthrodesis: Outcomes from a Prospective Randomized Multicenter Trial, E-poster presentation, Eurospine 2016, Berlin, Germany.
2016	October 13, Kim K, DenHaese R, Hill C, Strenge B, de Moura A, Passias P, Ferry C, Bejin B, Martin K, Martineck S, Glorioso T, Arnold P, Panchal R. Lateral versus Anterior Lumbar Interbody Fusion: 2-Year Outcomes from a Prospective Multi-Center Study. Oral presentation, Society for Minimally Invasive Spine Surgery (SMISS) Global Forum, Las Vegas, NV.
2016	October 13, Kim K, DenHaese R, Hill C, Strenge B, de Moura A, Passias P, Ferry C, Bejin B, Martin K, Martineck S, Glorioso T, Arnold P, Panchal R. Interspinous Process Fixation versus Pedicle Screw Fixation in ALIF/LLIF: 2-year Outcomes from a Prospective Randomized Multi-Center Trial. Oral presentation., Society for Minimally Invasive Spine Surgery (SMISS) Global Forum, Las Vegas, NV.
2016	October 29, Kim KD, DenHaese RP, Strenge KB, Hill CP, Passias PG, Arnold PM, Panchal RR, Ferry C, Beginn B, Martine SB, Moore C. Interspinous Process Fixation versus Pedicle Screw Fixation in Circumferential Arthrodesis: Outcomes from a Prospective Randomized Multicenter Trial, Oral presentation, 31st Annual Meeting, North American Spine Society, Boston, MA.

2017	February 14, Spine Imaging. Oral presentation, UC Davis Inter-Disciplinary Spine Conference, Sacramento, CA.
2017	February 22, Ferry C, Gandhi A, Farmer S, Inzana J, Wanebo J, Panchal R. In-Vitro Characterization of an Anterior Cervical Plate Capable of Extreme Oblique Screw Angulation: Does Angulation Affect Construct Rigidity? E-poster presentation, NASS Evidence and Technology Summit, Park City, UT.
2017	March 10, Kim KD and Panchal RR. Lumbar Degenerative Spondylolisthesis, 12h Annual UC Davis Spine Care Conference for the Primary Care Practitioner. Sacramento, CA.
2017	March 11, Panchal RR, Ferry CM, Gandhi A, Farmer S, Glorioso T, Inzana J, Wanebo JE. Biomechanical Characterization of an Anterior Cervical Plate Capable of Extreme Oblique Screw Angulation: Does Angulation Affect Construct Rigidity? Oral presentation, 2017 Annual meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Las Vegas, NV.
2017	April 12, Kim K, Denhaese R, Hill C, Strenge K B, de Moura A, Passias P, Panchal R, Arnold P, Kranenburg A, Dennis M, Cappuccino A, Thaiyananthan T, Ferry C, Ventimiglia B, Glorioso T, Martineck A, Martin K. Lateral (LLIF) versus Anterior (ALIF) Lumbar Interbody Fusion: 2-year Outcomes from a Prospective Multi-center Study. Oral presentation, 17th Annual International Society for the Advancement of Spine Surgery Conference, Boca Raton, FL.
2017	April 12, Kim K, Denhaese R, Hill C, Strenge K B, de Moura A, Passias P, Panchal R, Arnold P, Ferry C, Ventimiglia B, Glorioso T, Martin K, Martineck S. Is Interspinous Process Fixation Appropriate at L5/S1 in ALIF? 2-year Comparative Outcomes to Pedicle Screw Fixation from a Prospective, Randomized, Controlled, Multi-center Trial. Oral presentation, 17th Annual International Society for the Advancement of Spine Surgery Conference, Boca Raton, FL.
2017	April 12, Ferry C, Gandhi A, Farmer S, Inzana J, Wanebo J, Panchal R. In-vitro Characterization of an Anterior Cervical Plate Capable of Extreme Oblique Screw Angulation: Does Angulation Affect Construct Rigidity? Oral presentation, 17th Annual International Society for the Advancement of Spine Surgery Conference, Boca Raton, FL.
2017	April 22, Kim K, Denhaese R, Hill C, Strenge K B, de Moura A, Passias P, Panchal R, Arnold P, Kranenburg A, Dennis M, Cappuccino A, Thaiyananthan T, Ferry C, Ventimiglia B, Glorioso T, Martineck A, Martin K. Lateral (LLIF) versus Anterior (ALIF) Lumbar Interbody Fusion: 2-year Outcomes from a Prospective Multi-center Study. E-poster presentation., 2017 Association of Neurological Surgeons Annual meeting, Las Angeles, CA.
2017	April 22, Ferry C, Gandhi A, Farmer S, Inzana J, Wanebo J, Panchal R. In-vitro Characterization of an Anterior Cervical Plate Capable of Extreme Oblique Screw Angulation: Does Angulation Affect Construct Rigidity? E-poster presentation, 2017 Association of Neurological Surgeons Annual meeting, Las Angeles, CA.
2017	May 24, Ferry C, Gandhi A, Farmer S, Inzana J, Wanebo J, Panchal R. In-Vitro Characterization of an Anterior Cervical Plate Capable of Extreme Oblique Screw Angulation: Does Angulation Affect Construct Rigidity? Poster presentation, The Cervical Spine Research Society – Europe Section, Salzburg, Austria.
2017	September 17, James T, Basco C, Danison A, Panchal R, Romero A, Tan C. A Collaborative Effort Identifying Barriers and Implementation of Measures for Patients Who Undergo Elective Spine Surgery to Improve Patient Satisfaction and Decrease Length of Stay. Poster presentation, 12th Quadrennial Congress of the World Federation of Neuroscience Nurses, Opatija, Croatia.
2017	October 7, Thaci B, Ferry C, Ventimiglia B, Glorioso T, MarWn K, MarWneck S, Panchal R, Arnold P, Passias P, de Moura A, Strenge KB, Hill C, DenHaese R, Kim K. Lumbar Interbody Fusion Status does not Correlate with Patient Reported Outcomes: Data Analysis from a Prospective Multi-center Study of Circumferential Lumbar Arthrodesis. Oral presentation, Congress of Neurological Surgeons Annual meeting, Boston MA.

Publications: Additional Information

Ad Hoc Journal Peer Reviewer

Operative Neurosurgery, November 2017 - Present
The Spine Journal, April 2015 - Present
Global Spine Journal, July 2012 - Present
The Journal of the American Osteopathic Association, July 2012 - Present
World Journal of Orthopedics, July 2012 - Present
Review for Journal of Neurological Surgery Reports, July 2017 - Present

Creative Activities: Public Dissemination

Broadcast - TV, Radio, Film, Internet Completed

06/30/2015	Cervical Spine Degenerative Disorders and Management, Webinar, Course Chair, This webinar provides a comprehensive and multidisciplinary approach to the degenerative cervical spine, including a review of the anatomy and biomechanics of the cervical spine, clinical examination, common cervical degenerative pathologies and their managements (operative and non-operative). In addition, the session will address post-operative care.
	View Event Information

Interview/Commentary Completed

08/09/2016	Ripul Panchal from UC Davis Health System: Finding New Approaches for Spinal Surgery, MD Magazine Video Interview. Video Interview. Sacramento, California.
	View Event Information

Performance Completed

10/20/2016	Visiting Clinician Program: Observe Oblique lumbar Interbody Fusion Procedure, Dr. Amit Singla, MD, Waterloo, IA, UC Davis Medical Center. Sacramento, California.
03/27/2017	Visiting Clinician Program: Observe Oblique lumbar Interbody Fusion Procedure, Dr. Jeffrey Mimbs, DO, Chico, CA, UC Davis Medical Center. Sacramento, California.

Service

Administrative Activities

2015 - 2017	Director, Spine Fellowship Program.
2016 - 2017	Medical Director, E5 Neuroscience Unit.

Committees

Department/Section

2012 - 2017	ACS NSQIP, Neurosurgery Physician Champion - American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP), Review and interpret outcome surgical data to develop and implement changes for improvement in clinical outcome of neurosurgical patients.
2013 - 2017	Member - UC Davis Neurosurgery Residency Interview Panel.
2014 - 2016	Chair - Neurological Surgery Quality & Safety Committee.

School/College/Division

2013 - 2017	Member - Admissions Committee.
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Campus

2014 - 2016	Member - Quality and Safety Operations Committee.
2014 - 2017	Alternate voting member - UC Davis Institutional Review Board (IRB) Biomedical Committee B, chaired by John Anderson, MD, and as an alternate voting member on Fast Track Committee D.
2017	Member - Value Team Committee.

Other Non-University

2006 - 2010	Member - Western University - OPTI West OGME committee.
2009 - 2011	Member - Neurosurgery Bylaws Committee, American College of Osteopathic Surgeons.
2010 - 2011	President - Residency Advisory Committee, Arrowhead Regional Medical Center, 2006 - 2007, 2010 - 2011.
2012 - 2013	Member - AO Spine Knowledge Forum.
2013 - 2014	Member - ACA Scientific Grants and Exhibits Committee, ACOS.
2013 - Present	Member - Patient Safety Committee, North American Spine Society.
2014 - 2015	Member - Long Range Planning Committee for California Association of Neurological Surgeons.
2014 - 2016	CMA Delegate - Alternate - California Association of Neurological Surgeons.
2014 - 2016	Director - California Association of Neurological Surgeons.
2014 - 2017	Member - Legislative Committee, Osteopathic Physicians & Surgeons of California.
2014 - Present	Member - Council on Research, American Osteopathic Association.
2014 - Present	Member - Continuing Medical Education Committee, North American Spine Society.
2015 - Present	Member - Musculoskeletal Injuries and Prevention Task Force, American Osteopathic Association.
2016 - Present	Member - Community Development Committee, AOSpine.
2016 - Present	Member - Education Division, Congress of Neurological Surgeons.
2016 - Present	Member - Continuing Education Committee, American College of Osteopathic Surgeons.
2016 - Present	Member - Education Committee, Scoliosis Research Society.
2016 - Present	Faculty - AO Spine North America.
2017	Treasurer - California Association of Neurological Surgery.
2017 - Present	Member - Global Outreach Committee, Scoliosis Research Society.
2017 - Present	Member - Evidence-based Guideline Development Committee, North American Spine Society.

Editorial and Advisory Boards

2013 - Present	Editorial Board Member, Journal of Neurological Disorder.
2013 - Present	Editorial Board Member, Journal of Neuroinfectious Diseases.
2015 - Present	Editorial Board Member, World Journal of Orthopedics.
2015 - Present	Editorial Board Member, Journal of Neurology & Neuroscience.

Service: Additional Information

Volunteer Activities

77th Annual Meeting of the American Association of Neurological Surgeons, Volunteered to serve as a Marshal San Diego, CA. May 3 - 6, 2009

79th Annual Meeting of the American Association of Neurological Surgeons Volunteered to serve as a Marshal Denver, CO. April 9 - 13, 2011

80th Annual Meeting of the American Association of Neurological Surgeons Volunteered to serve as a Marshal Miami, FL. April 14 - 18, 2012

2012 U. S. Grand Prix MotoGP world championship motorcycle race
Volunteered to serve as medical physician for the riders
Monterey, CA July 28-29, 2012

2014 Operation Straight Spine Annual Mission Trip. Provided spinal surgical care for the treatment of spinal deformities and diseases to children and adults from poor and socially underserved areas. Ramakrishna Mission Seva Pratishtan - Local not-for-profit teaching hospital. Kolkata, India. February 22-28, 2014

2015 UC Davis Aggie Football (vs Southern Utah), Volunteered to serve as Staff Neurosurgeon for the team. Davis, CA. October 24, 2015. We had one spinal injury that I was able to follow and manage at UC Davis medical center.

2016 UC Davis Aggie Football (vs CSU Sacramento), Volunteered to serve as Staff Neurosurgeon for the team. Davis, CA. November 19, 2016. We had three concussions that I help assess and provide appropriate management plan.

Board Examiner

2014 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Boston, MA. September 16 - 17, 2014

2015 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Chicago, IL. October 2 - 3, 2015

2016 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Phoenix, AZ. September 20 -21, 2016

2017 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery National Harbor, MD. October 11 - 15, 2017

Program Chair

Program Chair, 2013 Annual Clinical Assembly of Osteopathic Surgeons/ American College of Osteopathic Surgeons - Neurological Surgery Discipline, I spearheaded the development of a balanced CME accredited program addressing various aspects of neurosurgery based on needs assessment, recruiting speakers from across the country, and moderating the program. November 14-17, 2013

Co-Chair, 11th Annual UC Davis Spine Care conference for the Primary Care Provider, I spearheaded the development of a balanced CME accredited program addressing various aspects of spine care based on needs assessment, recruiting speakers from UC Davis, and moderating the program. October 30-31, 2015

Chair, UC Davis Conscious Neurosurgery Care Initiative: Quality & Safety Conference, I started this meeting to encourage members of the department to understand and participate in improving quality and safety in the care of patients and at work place. We had 14 presenters, March 29th, 2016

Program Co-Chair, 52nd Annual Scoliosis Research Society meeting and course. My co-chair and I spearheaded the development of a balanced CME accredited lunchtime symposium titled, Adult Spinal Deformity for the Early Career Deformity Surgeons. The goal of this session is to address variety of concerns surgeons may encounter in their early practice. September 8th, 2017.

Teaching

Contact Hours

Summer/2012	Lecture=3.00, Discussion=44.00, Lab=0.00, Clinic=64.00
Fall/2012	Lecture=3.00, Discussion=96.00, Lab=0.00, Clinic=88.00
Winter/2012	Lecture=4.00, Discussion=140.00, Lab=0.00, Clinic=80.00
Spring/2013	Lecture=3.00, Discussion=88.00, Lab=0.00, Clinic=80.00
Summer/2013	Lecture=2.00, Discussion=128.00, Lab=0.00, Clinic=96.00
Fall/2013	Lecture=1.00, Discussion=164.00, Lab=0.00, Clinic=88.00

Winter/2014	Lecture=6.00, Discussion=168.00, Lab=0.00, Clinic=96.00
Spring/2014	Lecture=2.00, Discussion=220.00, Lab=0.00, Clinic=104.00
Summer/2014	Lecture=1.00, Discussion=232.00, Lab=0.00, Clinic=80.00
Fall/2014	Lecture=3.00, Discussion=184.00, Lab=0.00, Clinic=72.00
Winter/2015	Lecture=4.00, Discussion=240.00, Lab=0.00, Clinic=88.00
Spring/2015	Lecture=2.00, Discussion=264.00, Lab=0.00, Clinic=88.00
Summer/2015	Lecture=3.00, Discussion=156.00, Lab=0.00, Clinic=104.00
Fall/2015	Lecture=0.00, Discussion=200.00, Lab=0.00, Clinic=68.00
Winter/2016	Lecture=0.00, Discussion=188.00, Lab=0.00, Clinic=88.00
Spring/2016	Lecture=0.00, Discussion=160.00, Lab=0.00, Clinic=88.00
Summer/2016	Lecture=0.00, Discussion=172.00, Lab=0.00, Clinic=96.00
Fall/2016	Lecture=0.00, Discussion=200.00, Lab=0.00, Clinic=88.00
Winter/2017	Lecture=0.00, Discussion=144.00, Lab=0.00, Clinic=96.00
Spring/2017	Lecture=0.00, Discussion=180.00, Lab=0.00, Clinic=88.00
Summer/2017	Lecture=0.00, Discussion=24.00, Lab=0.00, Clinic=8.00

Courses

2013	Summer Special Session, Course Number=NSU470, Advanced Clinical Neurosurgery, Units=6, Undergraduate Count=0, Graduate Count=3, Percentage Effort=25
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Curricular Development

2014	Member, Program Evaluation Committee. Work with other members to develop education activities from lecture series to late workshops to enhance resident education.
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Lecture/Seminar/Lab/Other (by term)

2008	Winter Quarter Lecture: Clinical instructor, Intermediate Care Training Course - Neuro Assessment of the Conscious and Unconscious Patient. Kaiser-Fontana Medical Center, Fontana, CA. December 3, 2008, Kaiser-Fontana Medical Center, Fontana, CA. December 3, 2 hours
2010	Spring Semester Lecture: Dizziness/Neurosciences, Western University - College of Osteopathic Medicine Pomona, CA. April 28, 1 hours
2014	Fall Quarter Other: NSU 470 Course for International Medical Students (3) not for credit., 2.0 hours
2014	Fall Semester Lecture: Neuro/musculoskeletal systems course on Spine for second year medical students, Touro University - College of Osteopathic Medicine, Vallejo, CA. December 2-3, 4 hours
2014	Fall Semester Lab: Facilitator, SP Visit #7 (Neuromuscular Cases), Touro University - College of Osteopathic Medicine, Vallejo, CA. December 9., 2 hours
2015	Fall Semester Lecture: Neuro/musculoskeletal systems course on Spine for second year medical students, Touro University - College of Osteopathic Medicine, Vallejo, CA. December 2-3, 4 hours
2016	Fall Semester Lecture: Skull Fractures, Traumatic Brain Injury & Subarchnoid Bleeds, Touro University - College of Osteopathic Medicine, Vallejo, CA. November 16, 2 hours
2016	Fall Semester Lecture: Cervicothoracic Spine, Therapeutics & Scoliosis, Touro University - College of Osteopathic Medicine, Vallejo, CA. November 30, 2 hours
2016	Fall Semester Lecture: Lumbar Spine, Therapeutics & Scoliosis, Touro University - College of Osteopathic Medicine, Vallejo, CA. December 1, 2 hours

Lecture/Seminar/Lab/Other (by month)

2013	April Lab: Course Instructor, Resident and Fellows Surgical Workshop. Cadaver Mobile Unit - Surgical Training Institute, UC Davis Property. Sacramento, CA. April 30, 4 hours
2014	April Lab: Course Instructor, Resident and Fellows Surgical Workshop. Cadaver Mobile Unit, UC Davis Property. Sacramento, CA, April 22, 4 hours
2014	August Lab: Globus cortical screw placement workshop, Organizer/Speaker for Medical students, residents and fellows, UC Davis operating room, August 18, 2014, 8 Attendees., University of California, Davis Medical Center, Sacramento, CA, 3 hours
2015	April Lecture: Advanced MIS Corpectomy: MIS for Burst Fracture - Internal Stabilization vs Reconstruction, Debate, Los Angeles, CA, 0.5 hours
2015	April Lab: Advanced MIS Corpectomy, Los Angeles, CA, 4 hours
2015	June Lab: Minimally Invasive Procedural Solutions: Navigated OLIF25, Milpitas, CA, 8 hours
2015	June Lab: Presenter, Minimally Invasive Procedural Solutions: Navigated OLIF25, Milpitas, CA, 4 hours
2015	July Lab: Presenter, CATALYSTTM EDUCATION PROGRAM OLIF25 Hands-On Training, Milpitas, CA, 5 hours
2016	March Lab: Spine Section Cadaver Lab, 32nd Annual meeting of the Section on disorders of the spine and peripheral Nerves - Spine Summit 2016., Orlando, FL, 4 hours
2016	May Lab: Stryker Spine's Mobile Lab Experience - Advanced Resident & Fellows Education, Sacramento, CA, 4 hours
2016	July Lab: The Society of Neurological Surgeons (SNS) Boot Camp Fundamental Skills Course, Portland, OR, 14 hours
2016	September Lab: CNS OLIF Lab, Sand Diego, CA, 1 hours
2016	November Lecture: Advanced Oblique Lateral Technique Training - OLIF 51 Procedure, McLean, VA, 9.5 hours
2017	January Lab: Innovations in Anterior and Posterior Cervical Treatment Options, Milpitas, CA, 5.5 hours
2017	January Lab: Succeeding in Practice, Milpitas, CA, 12 hours
2017	June Lab: MERI China MIDLF & OLIF Course, Memphis, TN, 16 hours

Student Advising

2012 - 2013	Number of undergraduate advisees: (2), Number of graduate advisees: (3), Surgery Interns (4), Residents (6)
2013 - 2014	Number of undergraduate advisees: (3), Number of graduate advisees: (2), Surgery Interns (5), Residents (7)
2014 - 2015	Number of undergraduate advisees: (2), Number of graduate advisees: (1), Surgery Interns (3), Residents (7)
2015 - 2016	Number of undergraduate advisees: (2), Number of graduate advisees: (1), Interns (3), Residents (6)
2016 - 2017	Number of undergraduate advisees: (2), Number of graduate advisees: (1), Interns (4), Residents (7)

Thesis Committees

2012-2015	Ruby Gill, PhD
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Trainees

2010 - 2017	Mark A. Krel, DO, Medical Student/Resident, Neurosurgery Resident at Arrowhead Regional Medical Center
2011 - 2013	Eric Kim, Pre-Medical Student
2012 - 2016	Angela Beliveau, MPH, Graduate Student, Junior Specialist, Department of Neurological Surgery
2012 - 2013	Azeem Oladunjoye, MD, Clinical Spine Fellowship, Practicing Neurosurgeon
2012 - 2013	Ed Kerr, MD, Resident, Practicing Neurosurgeon
2012 - 2014	Philip Rosenthal, MD, Clinical Spine Fellowship, Practicing Neurosurgeon
2012 - 2014	Azeem Oladunjoye, MD, Resident, Practicing Neurosurgeon
2012 - 2015	Gilbert Cadena, MD, Resident, Assistant Professor at UC Irvine
2012 - 2017	Darrin Lee, MD, PhD, Resident, William P. Van Wagenen Fellowship at University of Toronto, Canada
2012 - 2016	Jon Liu, MD, Resident, Practicing Neurosurgeon
2012 - 2017	Krista Keachie, MD, Resident, Fellow at University of Colorado
2012 - 2017	Jared Ament, MD, Resident, Chief Resident
2012 - 2017	Tamar Binyamin, MD, Resident, Resident
2013 - 2015	Bi Mo, MD, Resident, Resident
2013 - 2014	Alexander Egerter, DO, Pre-Medical Student, Medical Student at Touro University - School of Osteopathic Medicine
2013 - 2014	George Silverio, BS, Pre-Medical Student, Research Associate at California Clinical Research, Inc.
3/2013 - 02/2014	Sung Bum Kim, MD, Visiting Associate Professor, Associate Professor, Neurosurgery, Kyung Hee University, School of Medicine, #23 Luimgjeedae-ro, Dongdaemun-gu, Seoul 130-872m, Korea
2014 - 2017	Amir Goodazi, MD, Resident, Resident
2014 - 2015	John Capua, DO, Clinical Spine Fellowship, Practicing Neurosurgeon
March 1 - 30th 2015	Pallav Shyamsunder Bhatia, MBBS, MS ORTHO, Observation Spine Fellowship, Consultant Spine Surgeon, Lokmanya Hospital, Pune, India
02/2015 - 02/2016	Young Jin Kim, MD, Visiting Associate Professor, Associate Professor, Neurosurgery-Spine, Yangsan, Dankook University Hospital, 152 Jukjeon-ro, Suji-gu, Yongin-si, Gyeonggi-do, South Korea
2015 - 2016	Shokry Lawandy, DO, Clinical Spine Fellowship, Practicing Neurosurgeon
2015 - 2016	Tatiana Capizzano, Pre-Med, Research Volunteer, Medical Student
2016 - 2017	Edwin Kulubya, MD, Resident, Resident
2016 - 2017	Aaron Danison, DO, Clinical Spine Fellow, Practicing Neurosurgeon
09/2016 - 12/2016	Jiliang Zhai, MD, Visiting Clinical Spine Fellow, 2016 Chinese Association of Orthopedic Surgeons (CAOS) Traveling Fellow/Visiting Attending Orthopedic Surgeon, Department of Orthopedic Surgery, Peking Union Medical College Hospital, Beijing, China
12/2016 - 2/2016	Chuanli Zhou, MD, Visiting Clinical Spine Fellow, 2016 CAOS Traveling Fellow/Visiting Associate Professor, Department of Spine Surgery, Affiliated Hospital of Qingdao University Institute of Orthopedics and Traumatology of Shandong Province, China
April 2017	Chandrashekhar Vijay Gaike, MBBS, MS, DNB, Clinical Spine Fellow, 2017 Association of Spine Surgeons of India Traveling Fellowship, Aurangabad, Maharashtra, India

Teaching: Additional Information

Surgical/Clinical Observers

2013. Michelle Lim, University of California, Davis (October 5 & 12, November 2, January 11)

2012 - 2013. Argelyn Rose Munoz. University of California, Davis. (November - January)

2013. Blake Friedman. University of California, Davis. (January)

2013 - 2016. Alexander Egerter. College of William and Marry, Williamsburg, VA. (January 17 & 21) - Matriculate into Touro University - School of Osteopathic Medicine, 2013.

2013. Harrold B. Navea. San Francisco State University, San Francisco, CA. (January 11)

2013 - 2014. Aakash Saxena. University of California, Davis - Matriculate into Touro University - School of Osteopathic Medicine, 2016.

2013 - 2014. Christian P. Joaquin. California State University - Matriculated into Lake Erie College of Osteopathic Medicine, 2014.

2015 - 2017. Tatiana Capizzano. University of California, Berkeley - Matriculated into University of Cincinnati College of Medicine, 2017.

