

CURRICULUM VITAE

Ripul Rajen Panchal, DO, FACOS, FACS, FCNS



Personal Information

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| Work/Mailing Address: | 13136 Dallas Parkway, Suite 540A Frisco, TX 75033 |
| Work Phone: | 972.806.1188 |
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| 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, robot-assisted surgery and motion preservation surgery (disc replacement surgery).

Education

Education and Training

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| 8/1997 – 5/2001 | Benedictine University, Lisle, IL, B.S., Bachelor of Science, Molecular Biology Major/Mathematics Minor |
| 8/1999 – 5/2000 | Howard Hughes Medical Institute Summer Research Fellowship at Benedictine University, Lisle, IL, Molecular Biology/Mathematics/Computer Science (Dr. Theresa Friedman, PhD) |
| 8/2001 – 5/2005 | Des Moines University, Des Moines, IA, D.O., Doctorate of Osteopathic Medicine |
| 7/2005 – 6/2006 | Western University, Riverside County Regional Medical Center, Traditional Rotating Internship with neurosurgery focus (Dr. Roger C. Garrison, DO) |
| 7/2006 – 6/2010 | Western University, Arrowhead Regional Medical Center, Neurosurgery Resident (Dr. Javed Siddiqi, MD, PhD) |
| 7/2010 – 6/2011 | Western University, Arrowhead Regional Medical Center, Chief Neurosurgery Resident (Dr. Javed Siddiqi, MD, PhD) |
| 7/2011 – 6/2012 | University of California, Davis Medical Center, Sacramento, CA, Complex and Reconstructive Spine Surgery Fellowship (Dr. Kee D. Kim, MD) |

Licenses and Certifications

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| 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 Instructors - Drs. John France, MD, Jean-Paul Wolinsky, MD, and John DeVine, MD. June 15 - August 12, 2017

Chairperson Education Program. AO Spine North America. Course Instructors – Drs. Michael Baumgaertner, MD, and Chitra Subramaniam, PhD. January 4 – March 5, 2019

Professional Affiliations

American Osteopathic Association, 10/2001 - Present

American Association of Neurological Surgeons, 11/2016 – 6/2023

American College of Osteopathic Surgeons, 9/2007 - Present

AO Spine - North America, 7/2011 - Present

California Association of Neurological Surgeons, 7/2013 – 8/2017

California Medical Association, 7/2014 – 6/2017

Congress of Neurological Surgeons, 2/2015 - Present

Council of State Neurological Societies, 1/2015 – 1/2016

Honorary Service Fraternity, Sigma Sigma Phi, 11/2002 - Present

Indo-American Spine Alliance, 4/2012 - Present

North American Spine Society, 11/2009 - Present

Osteopathic Physicians & Surgeons of California, 7/2013 – 6/2017

Scoliosis Research Society, 10/2016 - Present

Texas Medical Association, 10/2022 - Present

The Osteopathic Cranial Academy, 8/2002 – 12/2014

Languages

Fluent in Gujarati, English

Employment

Employment History

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| 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 |
| 03/2018 - Present | Associate Professor, Department of Medical Education, Texas Christian University – Burnett School of Medicine, Fort Worth, TX |

Extending Knowledge

Broadcast, Print or Electronic Media

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| 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

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| 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. |

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| 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. |
| 10. | Management of Back pain in Geriatrics, Invited Speaker, Gujarati Senior Society, Plano, TX, January 16 th , 2019, 150 Attendees. |
| 11. | Second cup of Coffee – Trends in Spine Surgery, Invited Speaker, Community members, The Shops of Willow Bend, Plano, TX, March 9, 2019, 30 Attendees. |
| 12. | New! Navigated Adaptix™ Interbody System with Titan nanoLOCK™ Surface Technology, and Grafton™ DBM inject, Society for Minimally Invasive Spine Surgery, October 30, 2020, Online. |

Grants and Contracts and Clinical Trials

Active Grants

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| 09/15/2022 - Present | Principal Investigator, *Clinical Trial*: M6-C™ Artificial Cervical Disc Two-Level IDE Pivotal Study. Orthofix, Inc. |
| 09/14/2022 - Present | Principal Investigator, *Clinical Trial*: A Prospective, Randomized Multi-Center, Open-Label Study of Infuse™ Bone Graft with Mastergraft™ Strip and Posterior Fixation for Posterolateral Fusion (PLF) Treatment of Multi-Level Degenerative Lumbosacral Spinal Conditions. Medtronic, Inc. |
| 01/27/2022 - Present | Principal Investigator, *Clinical Trial*: A Prospective, Randomized, Controlled, Blinded Study In Subjects Undergoing A Transforaminal Lumbar Interbody Fusion (TLIF) At One Or Two Levels Using Infuse™ Bone Graft and The Capstone™ Spinal System with Posterior Supplemental Fixation For The Treatment Of Symptomatic Degenerative Disease Of The Lumbosacral Spine. Medtronic, Inc. |
| 11/17/2023 - Present | Principal Investigator, *Clinical Trial*: The Ailliance Post-Market Clinical Study. Medtronic, Inc. |
| 02/03/2025 - Present | Principal Investigator, *Clinical Trial*: A Group-Randomized, Standard-Of-Care-Controlled, Crossover Trial Evaluating Nasal Antimicrobial Photodisinfection For The Prevention Of Surgical Site Infections. Light-Activated Antimicrobial Therapy To Prevent Surgical Site Infections, “LANTERN” trial. Ondine Biomedical, Inc. |

Discontinued

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| 10/01/2018 – 08/16/2022 | Principal Investigator, *Clinical Trial*: Randomized, controlled trial of posterior C1-2 fusion versus bracing alone for treatment of type II odontoid process fractures in the elderly. Medtronic, Inc. |
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Grants Discontinued with change in affiliation (2017).

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| 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 PIGA-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

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| 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

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| 2002 - 2023 | 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 |
| 2019 | Compassionate Caregiver Award – Medical City McKinney Hospital |
| 2019 | Best of Plano - Neurosurgeon |
| 2019 | Trademark Top Doctors of America |
| 2020 | Continental Who's Who as a Pinnacle Lifetime Achiever in Medicine |
| 2021-2022 | D Magazine's 2021 Best Doctors |

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| 2023 | Outstanding Service, Methodist McKinney Hospital |
| 2020-2025 | D Magazine's Best Doctors in Collin County |

Publications

Journals

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| 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. Using titanium mesh cage and anterior cervical plate for cervical corpectomies. Clinical Article. <i>Journal of Spine & Neurosurgery</i> , 2(4). |
| 2013 | 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. |
| 2016 | 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 | Danison AP, Lee DJ, Panchal RR . Temporary stabilization of unstable spine fractures. <i>Current reviews in musculoskeletal medicine</i> , 32 (1): 68-76 |
| 2017 | Lee DJ, Ahmadpur A, Ament JD, Goodarzi A, Panchal RR . When is occipitocervical fusion necessary for upper cervical injuries?. <i>Seminars in Spine Surgery</i> , 29(2017): 20-26. |
| 2018 | Ahmadpour A, Goodarzi A, Lee DJ, Panchal RR , Kim KD. Cervical spine fractures in osteopetrosis: a case report and review of the literature. <i>Journal of Biomedical Research</i> , 32(1): 68-76. |

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| 2018 | Zhou C, Zhang G, Panchal RR , Ren X, Xiang H, Xuexiao M, Chen X, Tongtong G, Hong W, Dixson AD. Unique Complications of Percutaneous Endoscopic Lumbar Discectomy and Percutaneous Endoscopic Interlaminar Discectomy. <i>Pain Physician</i> , 21(2): E105-E112. |
| 2018 | Zhai J, Panchal RR , Tian Y, Wang S, Zhao L. The Management of Cerebrospinal Fluid Leak After Anterior Cervical Decompression Surgery. <i>Orthopedics</i> , 41(2): E283-E288. |
| 2018 | Danison AP, Lee DJ, Ramanathan D, Matin M, Kim KD, Panchal RR . Adult thoracic intradural exophytic mature teratoma: case report and literature review. <i>Asian Journal of Neurosurgery. Ahead of Print</i> . |
| 2018 | Panchal RR , Denhaese R, Hill, C, Streng B, De Moura A, Passias P, Arnold P, Cappuccino A, Dennis MD, Kranenburg A, Ventimiglia B, Martin K, Ferry C, Martineck S, Moore C, Kim KD. Anterior and lateral lumbar interbody fusion with supplemental interspinous process fixation: outcomes form a multicenter, prospective, randomized, controlled study. <i>International Journal of Spine Surgery</i> , 12(2): 1-13. |
| 2019 | Zhou C, Liu C, Panchal RR , Ma X, Chen X. Modified expansive laminoplasty and fusion compared with anterior cervical surgeries in treating four-level cervical spondylotic myelopathy. <i>Journal of International Medical Research</i> , 0(0): 1-11. DOI: 10.1177/0300060519838919. |
| 2019 | Panchal RR , Gandhi, A, Ferry, C, Farmer, S, Hansmann J, Wanebo. A Biomechanical Evaluation of a Next-Generation Integrated and Modular ACDF Device Possessing Full-Plate, Half-Plate, and No-Profile Fixation Iterations. <i>Global Spin Journal</i> , 1-8. DOI: 10.1177/2192568219834252 |
| 2019 | Medani K, Lawandy S, Schrot R, Binongo JN, Kim KD, Panchal RR . Surgical management of symptomatic Tarlov Cysts: cyst fenestration and nerve root imbrication – a single institutional experience. <i>Journal of Spine Surgery</i> , 5(4): 496-503. |
| 2020 | Vaccaro AR, Harris, JA, Mussain MM, Wadhwa R, Chang VW, Schroerlucke SR, Samora WP, Passias PG, Patel RD, Panchal RR , D'Agostino S, Whitney NL, Crawford NR, Bucklen BS. Assessment of Surgical Procedural Time, Pedicle Screw Accuracy, and Clinician Radiation Exposure of a Novel Robotic Navigation System Compared with Conventional Open and Percutaneous Freehand Techniques: A Cadaveric Investigation. <i>Global Spine Journal</i> , 10(7): 814-825. DOI: 10.1177/2192568219879083. |
| 2020 | Goodarzi A, Clouse J, Capizzano T, Kim KD, Panchal R . The optimal surgical approach to intradural spinal tumors: Laminectomy or hemilaminectomy? <i>Cureus</i> , 12(2): e7084. DOI 10.7759/cureus.7084. |
| 2020 | Orlando A, Rubin B, Panchal R , Tanner II A, Hudson J, Harken K, Madayag R, Berg G, Bar-OR D. In patients over 50 years, increased age is associated with decreased odds of documented loss of consciousness after a concussion. <i>Frontiers in Neurology</i> , 11(39): 1-9. |
| 2020 | Kim KD, Panchal R , Moldavsky M, Wang W, Bucklen BS. Effects of pre-contoured and in situ contoured rods on the mechanical strength and durability of posterior cervical instrumentation: a finite-element analysis and scanning electron microscopy investigation. <i>Spine Deformity</i> , DOI: 10.1007/s43390-020-00078-5 |
| 2021 | Canseco JA, Schroeder GD, Patel PD, Grasso G, Chang M, Kandziora F, Vialle EN, Oner FC, Schnake KJ, Dvorak MF, Chapman JR, Benneker LM, Rajasekaran S, Kepler CK, Vaccaro AR; AO Spine Cervical Classification Validation Group . Regional and experiential differences in surgeon preference for the treatment of cervical facet injuries: a case study survey with the AO Spine Cervical Classification Validation Group. <i>Eur Spine J</i> , 30(2): 517-523. DOI: 10.1007/s00586-020-06535-z. |
| 2021 | Salottolo K, Panchal R , Madayag RM, Dhakal L, Rosenberg W, Banton K, Hamilton D, Bar-Or D. Incorporating age improved the Glasgow Coma Scale score for predicting mortality from traumatic brain injury. <i>Trauma Surgery & Acute Care Open</i> , 2021; 6: e000641. DOI: 10.1136/tsaco-2020-000641. |

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| 2021 | Karamian BA, Schroeder GD, Holas M, Joaquim AF, Canseco JA, Rajasekaran S, Benneker LM, Kandziora F, Schnake KJ, Öner FC, Kepler CK, Vaccaro AR; AO Spine Subaxial Injury Classification System Validation Group . Variation in global treatment of subaxial cervical spine isolated unilateral facet fractures. <i>Eur Spine J</i> . 30(6): 1635-1650. doi: 10.1007/s00586-021-06818-z. |
| 2021 | Salottolo K, Panchal R , Dhakal L, Madayag RM, Banton K, Tanner A. Recalibrating the Glasgow Coma Score as an age-adjusted risk metric for neurosurgical intervention. <i>J Surg Res</i> . doi: 10.1016/j.jss.2021.08.002. |
| 2022 | Thind H, Beliveau A, Lee P, Shen, P, Li CS, Klineberg EO, Kim KD, Panchal RR . 2-Level Anterior Cervical Arthrodesis With Integrated Spacer and Plate vs Traditional Anterior spacer and Plate System. <i>International Journal of Spine Surgery</i> . doi: 10.14444/8206. |
| 2022 | Khalilullah T, Tummala S, Panchal R . Spondylolisthesis and idiopathic sarcopenia treated with minimally invasive surgery for transforaminal lumbar interbody fusion: A case study and literature review. <i>Cureus</i> . 14(5): e25086. doi: 10.7759/cureus.25086. |
| 2023 | Salottolo K, Betancourt A, Banton KL, Acuna D Panchal R , Bar-Or D, Palacio CH. Epidemiology of C2 fractures and determinants of surgical management: analysis of a national registry. <i>Trauma Surgery & Acute Care Open</i> . 8:e001094. doi: 10.1136/tsaco-2023-001094 . |
| 2023 | Vizcaino MA, Folpe AL, Huffman H, Panchal RR , Nielsen GP, Turakulov R, Aldape K, Giannini. Pseudoendocrine sarcoma: Clinicopathologic, molecular and epigenetic features of one case. <i>Virchows Arch</i> . 483(6):899-904. doi: 10.1007/s00428-023-03695-3. |
| 2024 | Khalilullah T, Mignucci-Jiménez G, Huffman H, Karthikeyan H, Hanif Z, Ariwodo O, Panchal RR . Surgical Management of Primary Thoracic Epidural Melanoma. <i>Cureus</i> . 2024 Feb 20;16(2):e54536. doi: 10.7759/cureus.54536. PMID: 38516457; PMCID: PMC10956551. |
| 2024 | Ruiz-Cardozo MA, Barot K, Brehm S, Bui T, Joseph K, Kann MR, Trevino G, Olufawo M, Singh S, Yahanda AT, Perdomo-Pantoja A, Jauregui JJ, Cadieux M, Ipsen BJ, Panchal R , Poelstra K, Wang MY, Witham TF, Molina CA. Pedicle screw placement in the cervical vertebrae using augmented reality-head mounted displays: a cadaveric proof-of-concept study. <i>Spine J</i> . 2024 Dec;24(12):2417-2427. doi: 10.1016/j.spinee.2024.08.012. Epub 2024 Aug 22. PMID: 39173914. |
| 2024 | Orlando A, Panchal RR , Mellor L, Dhakal L, Hamilton D, Quan G, Backen T, Gordon J, Palacio CH, Kerby J, Berg GM, Levy AS, Rubin B, Coresh J, Bar-Or D. Risk factors for neurosurgical intervention within 48 hours of admission for patients with mild traumatic brain injury and isolated subdural hematoma. <i>J Neurosurg</i> . 2024 Aug 30;142(2):547-560. doi: 10.3171/2024.5.JNS232476. PMID: 39213674; PMCID: PMC11361377. |
| 2024 | Orlando A, Panchal RR , Quan G, Backen T, Gordon J, Mellor L, Dhakal L, Hamilton D, Palacio CH, Kerby J, Acuna D, Berg GM, Levy AS, Rubin B, Coresh J, Bar-Or D. Creating and validating a neurosurgical intervention rule-out tool for patients with mild traumatic brain injury and isolated subdural hematoma: a 5-year, six-center retrospective cohort study. <i>J Neurosurg</i> . 2024 Oct 11;142(3):839-850. doi: 10.3171/2024.5.JNS232478. PMID: 39393090. |
| 2025 | Panchal RR , González-Cantalapiedra A, Mendaña MP, Lopez-Peña M, Khalilullah T, Muñoz F. Comparison of osseointegration in 3D-printed hexanium titanium cages and PEEK cervical cages: In-vivo ovine cervical |

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| | fusion model. Eur Spine J. 2025 May 10. doi: 10.1007/s00586-025-08809-w. Epub ahead of print. PMID: 40347286 |
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Book Chapters

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| 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

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| 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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Comments

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| 2019 | Panchal RR. Accuracy assessment of pedicle and lateral mass screw insertion assisted by Customized 3D-printed drill guides: A human Cadaver study. <i>Operative Neurosurgery</i> , 16(1):102 |
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Abstracts

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| 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. |

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| 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, Streng 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). |
| 2017 | Ament J, Thaci B, Said M, Panchal RR , Kim KD, Johnson JP. Cost-Effectiveness of a Novel Cervical Spine Clearance Protocol: Obviating the Need for Routine Magnetic Resonance Imaging. <i>Clinical Neurosurgery</i> , 64(1): 268. |
| 2017 | Thaci B, Ferry, C, Ventimiglia B, Glorioso T, Martin K, Martineck S, Panchal RR , Arnold PM, Passias PG, De Moura A, Streng B, hill C, Denhaese RP, Kim KD. Lumbar Interbody Fusion Status does not Correlate with Patient Reported Outcomes: Data Analysis from a Prospective Multi-center Study of Circumferential Lumbar Arthrodesis. <i>Clinical Neurosurgery</i> , 64(1): 271. |
| 2017 | Vaccaro AR, Hussain M, Harris, J, Crawford N, Chang V, Passias PG, Samora W, Patel RD, Wadhwa R, D'Agostino S, Panchal RR , Schroerlucke S, Whitney N, Bucklen B. In Vitro Analysis of Accuracy, Dosage, and Time Require for Pedicle Screw Placement Using Conventional Percutaneous and Robotic-assisted Techniques. <i>The Spine Journal</i> , 17(10): S261. |

Presentations

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| 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. |

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| 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. |

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| 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. |

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| 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. |

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| 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 |

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| | 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, Streng 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, Streng KB, 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, Streng KB, 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, Streng KB, 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 |

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| | 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. |
| 2019 | October 25, Vaccaro AR, Harris JA, Hussain MM, Wadhwa R, Chang VW, Schroerlucke SR, Samora WP, Passias PG, Patel RD, Panchal RR, D'Agostino S, Whitney NL, Crawford NR, Bucklen BS. Comparison of Novel Robotic Navigation System with Conventional Open Techniques: In Vitro Analysis of Accuracy, Dosage, and Time Required for Pedicle Screw Placement. Oral Presentation. 32 nd Annual North America Spine Society meeting, Orlando, FL. |
| 2018 | April 11, Vaccaro AR, Hussain M, Harris, J, Crawford N, Chang V, Passias PG, Samora W, Patel RD, Wadhwa R, D'Agostino S, Panchal RR, Schroerlucke S, Whitney N, Bucklen B. In Vitro Analysis of Accuracy, Dosage, and Time Require for Pedicle Screw Placement Using Conventional Percutaneous and Robotic-assisted Techniques. Oral presentation, International Society for Advancement of Spine Surgery, Annual meeting, Toronto, Canada. |
| 2018 | April 11, Vaccaro AR, Hussain M, Harris, J, Crawford N, Chang V, Passias PG, Samora W, Patel RD, Wadhwa R, D'Agostino S, Panchal RR, Schroerlucke S, Whitney N, Bucklen B. Comparison of Novel Robotic Navigation System with Conventional Open Techniques: In Vitro Analysis of Accuracy, Dosage, and Time Required for Pedicle Screw Placement . Oral presentation, International Society for Advancement of Spine Surgery, Annual meeting, Toronto, Canada. |
| 2018 | September 15, Basics of Adult Spinal Deformity. Oral presentation, 1 st Franklin Wagner Jr., MD Endowed Lectureship and Symposium: Innovations in Spine Surgery at University of California, Davis, Sacramento, CA. |
| 2018 | September 15, Panel Spine Case Discussion. Moderator, 1 st Franklin Wagner Jr., MD Endowed Lectureship and Symposium: Innovations in Spine Surgery at University of California, Davis, Sacramento, CA. |
| 2018 | October 6, Redmond and Panchal R. Assessment of Spinal Column Stability for Image-Guidance After Lateral Corpectomy. E-poster presentation, Congress of Neurological Surgeons Annual meeting, Houston TX. |
| 2018 | December 7, Permeswaran V, Gandhi A, Patel V, Wanebo J, Panchal R. Correlating Radiographic Signs of Disc Degeneration with Changes in Cervical Spine Biomechanics. Oral presentation, Cervical Spine Research Society, Scottsdale, AZ. |
| 2019 | May 15, Redmond J, Prevost J, Woods, D, Panchal R. Assessment of spinal column stability for image-guidance after lateral Corpectomy. E-poster, Global Spine Congress, Toronto, Canada. |
| 2019 | January 18, Vaccaro AR, Harris JA, Hussain MM, Wadhwa R, Chang VW, Schroerlucke SR, Samora WP, Passias PG, Patel RD, Panchal RR, D'Agostino S, Whitney NL, Crawford NR, Bucklen BS. In Vitro Analysis of Accuracy, Dosage, and Time Required for Pedicle Screw Placement Using Conventional Percutaneous and Robotic-Assisted Techniques. Oral Presentation. 44 th Annual Louisiana Neurosurgical Society meeting, New Orleans, LA. |
| 2019 | January 18, Vaccaro AR, Harris JA, Hussain MM, Wadhwa R, Chang VW, Schroerlucke SR, Samora WP, Passias PG, Patel RD, Panchal RR, D'Agostino S, Whitney NL, Crawford NR, Bucklen BS. Comparison of Novel Robotic Navigation System with Conventional Open Techniques: In Vitro Analysis of Accuracy, Dosage, and Time Required for Pedicle Screw Placement. Oral Presentation. 44 th Annual Louisiana Neurosurgical Society meeting, New Orleans, LA. |

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| 2019 | January 19, Vaccaro AR, Harris JA, Hussain MM, Wadhwa R, Chang VW, Schroerlucke SR, Samora WP, Passias PG, Patel RD, Panchal RR, D'Agostino S, Whitney NL, Crawford NR, Bucklen BS. In Vitro Analysis of Accuracy, Dosage, and Time Required for Pedicle Screw Placement Using Conventional Percutaneous and Robotic-Assisted Techniques. Oral Presentation. 44 th Annual Louisiana Neurosurgical Society meeting, New Orleans, LA. |
| 2019 | September 21, Salottolo K, Panchal R, Rosenberg WS, Dhakal L, Rubin BA, Madayag R, Tanner II A. The Predictive Ability of the Glasgow Coma Scale for Severe Traumatic Brain Injury Declines with Age. E-Poster. 2019 American Association for the Surgery of Trauma meeting. Dallas, TX. |
| 2019 | October 17, Panchal RR, The Basics of Neurotrauma. Oral Presentation. 2 nd Annual Trauma Symposium, Lewisville, TX. |
| 2020 | September 18, Panchal RR. Surgery for Symptomatic Sacral Tarlov's Cysts: Technique, Pearls & Pitfalls. Oral Presentation. Association of Spine Surgeons of India 2020 Virtual Conference. |
| 2020 | October 6-9, Panchal RR, Amin D, Allal M, Harris J, Bucklen B. In vitro assessment of adjustable lordotic expandable lateral interbody spacers on endplate loading and lordosis correction. E-Poster. 2020 North American Spine Society Virtual Annual Meeting. |
| 2020 | October 6-9, Panchal RR, Amin D, Allal M, Harris J, Bucklen B. In vitro assessment of novel adjustable-lordotic expandable and static hyperlordotic lateral interbody spacers on endplate loading and lordosis correction; E-Poster. 2020 North American Spine Society Virtual Annual Meeting. |
| 2020 | October 6-9, Kim C, Hannibal M, Scioli M, Steinmetz M, Stevenson K, Yue J, Panchal R, Mahoney J, Harris, J, Gonzalez J, Bucklen B. Comparison between standard Minimally invasive transforaminal lumbar interbody fusion and novel cannulated technique: Operative time and instrument passes; E-Poster. 2020 Eurospine Virtual Annual Meeting. |
| 2020 | October 6-9, Kim C, Hannibal M, Steinmetz M, Stevenson K, Yue J, Panchal R, Mahoney J, Harris, J, Gonzalez J, Bucklen B. Comparison between standard Minimally invasive transforaminal lumbar interbody fusion and novel cannulated technique: Disc preparation effectiveness; E-Poster. 2020 Eurospine Virtual Annual Meeting. |
| 2021 | August 21-25, Goodarzi A, Atoussi A, Capizzano T, Lee D, Panchal R. Surgical treatment of intradural spinal tumors: A 6-year single institutional experience comparing laminectomy to hemilaminectomy; E-Poster. 2021 American Association of Neurological Surgeons Annual Virtual Meeting. |
| 2021 | September 18, Panchal RR, Amin DB, Allal M, Harris JA, Bucklen BS. <i>In Vitro</i> Assessment of Adjustable Lordotic Expandable Lateral Interbody Spacers on Endplate Loading and Lordosis Correction; Oral presentation. Spine summit 2021, The 37 th Annual meeting of the AANS/CS Section on Disorders of the Spine and Peripheral Nerves, San Diego, CA. |

Publications: Additional Information

Ad Hoc Journal Peer Reviewer

Neurosurgery, September 2020 - Present

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

Journal of Neurological Surgery, June 2020 - Present

Creative Activities: Public Dissemination

Broadcast - TV, Radio, Film, Internet Completed

| | |
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| 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

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| 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

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| 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. |
| 2024 – Present | Board member, Methodist McKinney Hospital |

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. |
| 2021 - 2022 | Vice Chief – Department of Surgery, Medical City of Plano |
| 2022 - Present | Chief – Department of Surgery, Medical City of Plano |
| 2023 - Present | Co-Director, Department of Spine Surgery, Texas Health Hospital Frisco |

School/College/Division

| | |
|-------------|--------------------------------|
| 2013 - 2017 | Member - Admissions Committee. |
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Campus

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| 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. |
| 2016 - 2019 | Member - Community Development Committee, AO Spine. |
| 2017 | Treasurer - California Association of Neurological Surgery. |
| 2014 - 2015 | Member - Council on Research, American Osteopathic Association. |
| 2014 - 2016 | Member - Continuing Medical Education Committee, North American Spine Society. |
| 2015 - 2016 | Member - Musculoskeletal Injuries and Prevention Task Force, American Osteopathic Association. |
| 2016 - 2017 | Member - Education Division, Congress of Neurological Surgeons. |
| 2016 - 2018 | Member - Continuing Education Committee, American College of Osteopathic Surgeons. |
| 2016 - 2017 | Member - Education Committee, Scoliosis Research Society. |
| 2016 - Present | Faculty - AO Spine North America. |
| 2017 - 2018 | Member - Global Outreach Committee, Scoliosis Research Society. |
| 2017 - Present | Member - Evidence-based Guideline Development Committee, North American Spine Society. |

Editorial and Advisory Boards

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|----------------|--|
| 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. |
| 2019 - Present | Editorial Board Member, NASS SpineLine |

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 Pratishthan - 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

2018 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Atlanta, GA. October 17 - 21, 2018

2019 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Colorado Springs, CO. October 19 - 23, 2019

2020 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Online. April 23-24, 2021

2021 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Online. December 3-4, 2021

2022 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Online. October 15, 2022

2023 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Chicago, IL September 20, 2023

2024 Oral Board Examiner - Neurological Surgery Discipline, American Osteopathic Board of Surgery Chicago, IL September 25, 2024

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 workplace. 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

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| 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

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| 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)

| | |
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| 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 |

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| | 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)

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| 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: Faculty, 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: Faculty, Stryker Spine's Mobile Lab Experience - Advanced Resident & Fellows Education, Sacramento, CA, 4 hours |
| 2016 | July Lab: Faculty, The Society of Neurological Surgeons (SNS) Boot Camp Fundamental Skills Course, Portland, OR, 14 hours |
| 2016 | September Lab: Faculty, 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: Faculty, Innovations in Anterior and Posterior Cervical Treatment Options, Milpitas, CA, 5.5 hours |
| 2017 | January Lab: Faculty, Succeeding in Practice, Milpitas, CA, 12 hours |

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| 2017 | June Lab: Faculty, MERI China MIDLF & OLIF Course, Memphis, TN, 16 hours |
| 2018 | March Lab: Faculty, Synergy Spinal Workflows Course, Tampa, FL 8hrs |
| 2018 | October Lab: Faculty, MERI China MIDLF & OLIF Course, Memphis, TN, 16 hours |
| 2019 | July Lab: Faculty, Pacific American Life Science Learning Center – OLIF Course, San Diego, CA, 5hours |
| 2019 | Lab: Faculty, CNS Synergy Corpectomy with StealthStation S8 & O-arm Imaging System, Chicago IL, 3hrs |

Student Advising

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|-------------|---|
| 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

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|-----------|----------------|
| 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 |

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|-------------------|--|
| 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, |
| 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 |
| 11/2020 – 11/2021 | Siri Tummala, Medical Student, University of North Texas Health Sciences Center School of Medicine and Texas Christian University, Fort Worth, TX |
| 2022 - 2023 | Ariwodo Ogechukwu, Medical Student, Philadelphia College of Osteopathic Medicine |
| 2021 – Present | Taha Khalilullah, Pre-Med, Research Volunteer, University of Texas at Dallas; Medical student, Johns Hopkins University School of Medicine |

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.

2020 - Present. Taha Khalilullah. University of Texas at Dallas – Matriculated into Johns Hopkins School of Medicine, 2024.

2023 – Present. Hasita Karthikeyan, Pre-med, University of Texas at Austin, Austin, Tx.