

Kern Singh, M.D.

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PROFILE

Internationally renowned academic spine surgeon with extensive expertise in minimally invasive and endoscopic spine surgery. Vice Chair and Director of Spine Surgery at Rush University Medical Center, with over two decades of clinical, academic, and research leadership. Author of 500+ peer-reviewed publications, editor of numerous textbooks, and holder of multiple medical device patents. Recognized by leading surgical societies for innovation, research, and surgical education.

PROFESSIONAL APPOINTMENTS

Rush University Medical Center – Chicago, IL (2005 – Present)

- Vice Chair, Department of Orthopaedic Surgery (2024-Present)
- Director, Division of Spine Surgery (2024-Present)
 - Associate Director, Division of Spine Surgery (2023-Present)
- Professor, Department of Orthopaedic Surgery (2016-Present)
- Co-Director, Minimally Invasive Spine Institute at Rush (2013-Present)
- Board Certified, American Board of Orthopedic Surgery (2005-2015)
 - Board Re-Certified, American Board of Orthopedic Surgery (2015-2025)
- American Association of Disability Examining Physicians (2013-Present)

EDUCATION

Emory University – Atlanta, GA (2004-2005)

- Fellowship – Spinal Surgery

Rush University Medical Center – Chicago, IL (1999-2004)

- Residency - Orthopaedic Surgery

M.D. Jefferson Medical College – Philadelphia, PA (1995-1999)

- Alpha Omega Alpha - Jr. Year - 1998
- *Summa Cum Laude*

B.S. Pennsylvania State University – University Park, PA (1993-1997)

- Eberly College of Science Scholar
- Golden Key National Honor Society
- Alpha Epsilon Delta – National Pre-Medical Honor Society

HONORS/AWARDS

Rush University Medical Center

- Fellow, American Orthopedic Association (2024-Present)
- Level 4 Participant – AAOS Leadership Institute (2024-2025)
- 2023- Nie JW, Hartman TJ, Oyetayo OO, MacGregor KR, Zheng E, Singh K. Pain Interference Influence on Postoperative Clinical Trajectory in Patients Undergoing Lumbar Decompression. *WNS Editor's Choice Article for January 2023*. January 3, 2023.
- 2022- Jacob KC, Patel MR, Nie JW, Hartman TJ, Ribot MA, Parsons AW, Pawlowski H, Prabhu MC, Vanjani NN, Singh K. Presenting Mental Health Influences Postoperative Clinical Trajectory and Long Term Patient Satisfaction following Lumbar

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- Decompression. *World Neurosurg.* May 7, 2022. *WNS Editor's Choice Article for August 2022*
- 2022 - Jacob KC, Patel MR, Collins AP, Park GJ, Vanjani NN, Prabhu MC, Pawlowski H, Parsons AW, Singh K. Meeting Patient Expectations and Achieving a Minimal Clinically Important Difference for Back Disability, Back Pain, and Leg Pain May Provide Predictive Utility for Achieving Patient Satisfaction Among Lumbar Decompression Patients. *World Neurosurg.* 2022 Mar 5:S1878-8750(22)00283-2. doi: 10.1016/j.wneu.2022.03.002. PMID: 35259504 *WNS Editor's Choice Article for June 2022*
 - 2022 - Jacob KC, Patel MR, Collins AP, Ribot MA, Pawlowski H, Prabhu MC, Vanjani NN, Singh K. The Effect of the Severity of Preoperative Disability on Patient-Reported Outcomes and Patient Satisfaction Following Minimally Invasive Transforaminal Lumbar Interbody Fusion. *WNS Editor's Choice Article for March 2022.* March 8, 2022.
 - 2021 – Best Paper - Jacob KC, Patel MR, Chavez F, Parsons AW, Ribot M, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. Single Level MIS TLIF vs ALIF at L5/S1: A Comparison of Patient Reported Outcomes and Recovery Ratios. Society for Minimally Invasive Spine Surgery. Las Vegas, Nevada. 2021 October 28-30.
 - 2021 Editor's Choice Award – World Journal of Neurosurgery. Geoghegan CE, Mohan S, Cha EDK, Lynch CP, Jadcak CN, Singh K. Achievement of a Minimum Clinically Important Difference for Back Disability is a Suitable Predictor of Patient Satisfaction Among Lumbar Fusion Patients. *World Neurosurgery.* May 11th, 2021.
 - 2020 - Best Paper - Validation of PROMIS Physical Function in MIS TLIF: 2 Year Follow Up. Jenkins NW, Lynch CP, Cha EDK, Parrish JM, Jadcak CN, Mohan S, Geoghegan CE, Mohan S, Singh K. Society for Minimally Invasive Spine Surgery. Las Vegas, Nevada. 2020 October 29-31.
 - 2019 Spine Technology Awards – TDI Ultrasound. Orthopedics this Week.
 - All Disclosure is Good Disclosure: Patient Awareness of the Sunshine Act and Perceptions of Surgeon-Industry Relationships. Iyer S, Khechen B, Haws BE, Patel DV, Cardinal KL, Guntin JA, Karmarkar SS, Phillips FM, Singh K. The American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada. 2019 March 12-16.
 - Patient Perceptions of Iliac Crest Bone Grafting in Minimally Invasive Transforaminal Lumbar Interbody Fusion. Haws BE, Khechen B, Patel DV, Cardinal KL, Guntin JA, Karmarkar SS, Singh K. The American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, Nevada. 2019 March 12-16.
 - 2018 – Resident Research Award - Hijji FY, Narain AS, Haws BE, Khechen B, Bohl DD, Kudaravalli KT, Yom KH, Singh K. The Efficacy of Electrical Spinal Fusion Stimulators on Fusion Rates: A Meta-Analysis. *Current Orthopaedic Practice.* 2018 July 10.
 - AAOS ePoster Tour - The Impact of Local Steroid Application on Dysphagia Following an Anterior Cervical Discectomy and Fusion: Preliminary Results of a Prospective, Randomized, Single Blind Trial. Narain AS, Hijji FY, Haws BE, Kudaravalli KT, Yom KH, Mayo BC, Massel DH, Aboushaala K, Singh K. American Academy of Orthopaedic Surgeons Annual Meeting. New Orleans, Louisiana. 2018 March 6-10.
 - 2017 – CSRS 2nd Place - The Impact of Local Steroid Application on Dysphagia Following an Anterior Cervical Discectomy and Fusion: Preliminary Results of a Prospectively, Randomized, Single Blind Trial. Narain AS, Hijji FY, Haws BE, Mayo BC, Massel DH, Yom

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- KH, Kudaravalli KT, Singh K. Cervical Spine Research Society Annual Meeting. Hollywood, FL. 2017 Nov 29-Dec 2.
- 2017 -2018 – Journal of Bone and Joint Surgery – Elite Reviewer Award
 - 2017 - ISASS Best Poster - Inpatient Pain Scores and Narcotic Utilization Based on American Society of Anesthesiologists Score after Cervical and Lumbar Spinal Fusion. Narain AS, Hijji FY, Long WW, Yom KH, Kudaravalli KT, Shoshana NB, Singh K. International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
 - 2016 – NASS Best Paper - Missing Data May Invalidate Spine Surgery Database Studies. Basques BA, Lukasiewicz AM, Samuel AM, Webb ML, Bohl DD, Ahn J, Singh K, Grauer JN. North American Spine Society 31st Annual Meeting, Boston, MA: October 26-29, 2016.
 - 2016-Present – Rush Associates Board
 - 2016-18 – AAOS Achievement Award
 - 2015 – Cervical Spine Research Society Travelling Fellowship (April-May 2015)
 - 2015 – Becker’s Top 20 Spine Surgeon’s Leadership Award
 - 2014 – Orthopaedics Today - Technology of the Year – Vital 5 Drain (Co-Founder)
 - 2013-14 – Teacher of the Year, Rush Spine Surgery Fellowship
 - 2009-10 – Teacher of the Year, Rush Spine Surgery Fellowship
 - 2014 - Best Paper - The Utility of Obtaining Routine Hematologic Laboratory Values Following a Minimally Invasive Transforaminal Lumbar Interbody Fusion. Elboghdady I, Aboushaala K, Naqvi A, Manning B, Jorgensen A, Singh K. SMISS, Miami.
 - 2014 - Best Paper - The Utility of Obtaining Routine Hematologic Laboratory Values Following an Anterior Cervical Discectomy and Fusion. Elboghdady I, Aboushaala K, Naqvi A, Manning B, Jorgensen A, Singh K. CSRS, Orlando.
 - 2014 - Best Clinical Paper, A Peri-Operative Cost Analysis Comparing Single-Level Minimally Invasive and Open Transforaminal Lumbar Interbody Fusion. Singh K, Nandyala S, Marques A, Fineberg S, Phillips FM, Society Minimally Invasive Spine Surgery, Las Vegas.
 - 2014 - Poster Tour Award - Effect of Diabetes Mellitus in Surgical Outcomes Following Anterior Cervical Spine Fusion. Nandyala S, Marques A, Singh K. AAOS, New Orleans.
 - 2013 - 2nd Place - The Incidence and Mortality Associated with Re-intubations following Anterior Cervical Fusion. Marquez-Lara A, Fineberg S, Oglesby M, Pelton M, Patel A, Singh K. Cervical Spine Research Society, Los Angeles.
 - 2013 - Best Clinical Paper, Comparison between Revision Surgeries for Cervical TDR and 1-2 Level ACDF from 2002-2009. Fineberg S, Oglesby M, Patel A, Singh K, NASS, New Orleans.
 - 2013 - Best Clinical Paper - Nominated. Outcomes and Complications of Anterior and Posterior Cervical Fusion with Bone Morphogenetic Protein. Marquez-Lara A, Fineberg S, Oglesby M, Pelton M, Patel A, Singh K. Cervical Spine Research Society, Los Angeles.
 - 2012-Present: - Patients’ Choice Award
 - 2012-Present - Most Compassionate Doctor
 - 2011 Becker’s Orthopedic and Spine Top 100 Spine Surgeons in America
 - 2008 - Best Clinical Paper - Factors Affecting Re-operations after ACDF within and outside of an FDA IDE Cervical TDR Trial. Singh K, Phillips FM, An HS, Goldberg EJ. NASS, Toronto.

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- 2007 - Alternate, North American Traveling Fellowship
- 2007 - Top E-Poster. A prospective, randomized, double blind study of the efficacy of post-operative continuous local anesthetic infusion at the iliac crest bone graft site after posterior spinal arthrodesis: A minimum of four-year follow-up. IMAST, Atlantis, Bahamas.
- 2005 - First Place Resident Award - *In Vitro* Formation of Scaffold-free Tissue-engineered Cartilage by Expanded Osteoarthritic Chondrocytes using the ARC Method. Singh K, Ponnappan RK, Masuda K, An HS. U of Penn Ortho J.
- 2004 - The Spine Journal Outstanding Paper Award [Clinical Science, Runner-Up] – Congenital Lumbar Spinal Stenosis: A Controlled, Matched Cohort Radiographic Analyses. Singh K, Samartzis D, Vaccaro AR, Nassr A, Andersson GB, Yoon ST, Phillips FM, Goldberg E, An HS. SPINE J, Vol 5(6): 615-22, 2005.
- 2004 - *Finalist* –Basic Science Category, Smith and Nephew National Resident Research Competition, Memphis, TN. *In Vitro* Formation of Scaffold-free Tissue-engineered Cartilage from Expanded Osteoarthritic Human Chondrocytes stimulated by Osteogenic Protein-1 using the Alginate-Recovered-Chondrocyte Method: An Assessment of Gross Morphology and Biochemistry. Singh K, Masuda K, Ponnappan RK, Cz-Sabo G.
- 2004 - *2nd Place* – Basic Science Category, Midwest Orthopedic Research Educational Foundation, Chicago, IL. *In Vitro* Formation of Scaffold-free Tissue-engineered Cartilage from Expanded Osteoarthritic Human Chondrocytes stimulated by Osteogenic Protein-1 using the Alginate-Recovered-Chondrocyte Method: An Assessment of Gross Morphology and Biochemistry.
- 2004 - *2nd Place* – Basic Science Category. Rush Surgical Society, , Chicago, IL. *In Vitro* Formation of Scaffold-free Tissue-engineered Cartilage from Expanded Osteoarthritic Human Chondrocytes stimulated by Osteogenic Protein-1 using the Alginate-Recovered-Chondrocyte Method: An Assessment of Gross Morphology and Biochemistry.
- 2003 - *Best Paper* – Senior Thesis Day, Department of Orthopaedic Surgery - RUMC, Chicago, IL. A Biomechanical Comparison of Spinal Instrumentation Following Multi-level Corpectomy of the Cervical Spine.
- 2003 - *1st Place* -13th Annual Rush Surgical Society, Chicago, IL. A Biomechanical Comparison of Spinal Instrumentation Following Multi-level Corpectomy of the Cervical Spine.
- 2003 - Educational Grant – 3rd Annual Cervical Spine Study Group, Colorado Springs, CO.
- 2002 - Educational Grant – Aventis Orthopedic Resident Scholarship, AAOS National Meeting, Dallas, TX.
- 2002-04 – Pillsbury Resident Academic Scholarship

Jefferson Medical College

- 1998 – Alpha Omega Alpha – Junior Year
- 1997 – APC (American Pathology Chairs) National Honor Society
 - Selected for the 4th Annual National Pathology Symposium, Chicago, IL.
- 1997 – Hobart Amory Hare Internal Medicine Honor Society
 - 1998 - CPC (Clinical Pathologic Case) – Medicine Grand Rounds
- 1996 – Lavine Student Research Scholarship

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Pennsylvania State University

- 1994 – Semi-Finalist, Presidential Scholars Program
- 1993 – Golden Key National Honor Society
- 1993 – Alpha Epsilon Delta – National Pre-Medical Honor Society
- 1993-95 – Eberly College of Science Scholar
- 1993-95 – Dean’s List
- 1992 – Colorado Chapter, Penn State Alumni Scholarship
- 1992 – National Honor Society

ISSUED PATENTS

- Quantitative UltraSound - Dec. 18, 2018 as US Pat. 10,154,826
- Catheter – US Patent number D679804 Application number 29/406,437: 2013.
- Barrier Catheter - US Patent App. 13/240,708, 2011
- Catheter Assembly - US Patent App. 13/240,781, 2011
- Constrained Fluid Device - US Patent App. 12/667,870, 2008

RESEARCH GRANTS

- Markerless Pose Estimation in Spinal Deformity Patients. AO Spine, 2023
- Radiographic Evaluation of the Cervical Neck Surgical Approach and Its Relationship with BMI and Operative Characteristics following ACDF. CSRS 2020.
- Phillips FM, Singh K. Repeat use of rhBMP-2 at an adjacent lumbar level: An assessment of efficacy and immunologic response. Medtronic Sofamor Danek, September 2005.
- Bohl DD, Mayo BC, Ahn J, Singh K. Improvement in Grip and Pinch Strength following Anterior Cervical Discectomy and Fusion Procedures. Grant from the Cervical Spine Research Society. 2015 Oct.

TEXTBOOK EDITOR

- Textbook of Endoscopic Spine Surgery 1st Edition, Eds Singh, Park, Kim, Elsevier, 2025
- Synopsis of Spine Surgery 2nd Edition. An HS, Singh K, Thieme, 2007.
- Curbside Consultations of the Spine: 49 Clinical Questions. Singh K, Slack, 2008.
 - 2014 E-Book Online Text
- Pocket Atlas of Spine Surgery. Singh K, Vaccaro AR. Thieme, 2012
- Minimally Invasive Spine Surgery: An Algorithmic Approach. Singh K. Jaypee Brothers Publishing, 2013
 - 2014 E-Book Online Text
- Minimally Invasive Spine Surgery: Techniques, Evidence and Controversies. Singh K, Vaccaro AR. Jaypee Brothers Publishing, 2015.
- Decision Making in Degenerative Spinal Surgery: A Case Based Approach. Singh K, Qureshi S, Nova Publishers 2015.
- Synopsis of Spine Surgery 3rd Edition. An HS, Singh K, Thieme, 2016.
- Orthopedic Knowledge Update 12, Section Editor Spine, March 2017.
- Pocket Atlast of Spine Surgery, 2nd Edition, Thieme 2018.
- Textbook of Minimally Invasive Spinal Instrumentation, 1st Edition, Thieme 2020.

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- Spine Essentials Handbook: A Bulleted Review of Anatomy, Evaluation, Imaging, Tests, and Procedures. Singh K. Theime 2019.
- Surgical Spinal Oncology, 1st Edition. Eds Singh K, Colman M. Springer, 2020

GUEST EDITOR JOURNALS

- Outpatient Spine Surgery. Seminars in Spine Surgery. Singh K 30(3): 141-178, Oct 2018.
- Mesenchymal Stem Cells In Spinal Surgery. Seminars in Spine Surgery. Hassanzadeh H, Singh K. 27(2): 71-118, 2015.
- Operative Techniques in Sports Medicine: The Athlete's Spine. Singh K, Vol 21(3): 145-190, 2013
- Current Reviews In Musculoskeletal Medicine: Special Focus on Bone Morphogenic Protein. Singh K, Vol 7(3): 182-219, 2014.

JOURNAL EDITORIAL POSITIONS

- Editor-in-Chief, Journal of Contemporary Spine Surgery (2012-Present)
 - Associate Editor, Journal of Contemporary Spine Surgery (2008-2011)
- Editor-in-Chief, Vertebral Columns – Official Publication of ISASS (2015-Present)
- Editorial Board, Orthopedics Today (2017-Present)
- Editorial Board, Spine Surgery Today (2013-Present)
- Senior Editorial Board, Journal of Minimally Invasive Orthopedics (2014-Present)
- Editorial Review Board, American Journal of Orthopedics (2006-Present)
- Editorial Board, Journal of Spinal Disorders and Techniques (2015-Present)
- Editorial Board, World Journal of Orthopedics (2014-Present)
- Editorial Board, Annals of Translational Medicine (2015-Present)
- Editorial Board, ISRN Orthopedics (2011-2014)
- Editorial Board, EC Orthopaedics (2017-Present)
- Editorial Board, Indian Spine Journal (2017-Present)
- Editorial Board, Journal of Spine Surgery (2017-Present)
- Editorial Board, Neurospine (2018-Present)
- Editorial Board, Clinical Spine Surgery (2017-Present)
- Editorial Board, Thieme MedOne Orthopaedics (2019-Present)
- Editorial Board, The Spine Journal (2018-Present)
- Editorial Board, Journal of Orthopedic Experience and Innovation (2020-Present)

JOURNAL POSITIONS

- Reviewer, Journal of the American Academy of Orthopedic Surgeons (2008-Present)
- Reviewer, Clinical Orthopedics and Related Research (2006-Present)
- Reviewer, Spine (2012-Present)
- Reviewer, The Spine Journal (2014-Present)
- Reviewer, Journal of Orthopaedic Surgery (2010-Present)
- Reviewer, Journal of Neurosurgical Anesthesiology (2010-Present)
- Reviewer, Current Orthopaedic Practice (2012-Present)
- Reviewer, Journal of Bone and Joint Surgery (2011-Present)
- Reviewer, BiomedCentral Musculoskeletal Disorders (2012-Present)

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- Reviewer, British Medical Journal (2010-Present)
- Reviewer, Global Spine Journal (2014-Present)
- Reviewer, International Journal of Spine Surgery (2014-Present)
- Reviewer, Neurosurgery (2015-Present)
- Reviewer, Journal of Neurosurgery (2015-Present)
- Reviewer, BMJ Case Reports (2015-Present)
- Reviewer, World Journal of Orthopedics (2015-Present)
- Reviewer, Journal of Clinical Orthopedics and Trauma (2016-Present)
- Reviewer, Orthopedics (2016-Present)

PUBLISHED ARTICLES

1. Complications of Closed Skeletal Reduction. Singh K, Vaccaro AR, Shakil MS, Cotler JM. Seminars in Spine Surgery, 10(3): 237-241, 1998.
2. Early Failure of Long Segment Anterior Cervical Plate Fixation. Vaccaro AR, Falatyn S, Scuderi GJ, Eismont FJ, McGuire RA, Singh K, Garfin S. Journal of Spinal Disorders, 11(5): 410-15, 1998.
3. Computer-Assisted Image Guided Surgery: Application in Cervical Spine Surgery. Singh K, Vaccaro AR. Current Opinion in Orthopedics 12(3): 245-250, 2001.
4. Long Structural Allografts in the Treatment of Anterior Spinal Column Defects. Singh K, DeWald CJ, Hammerberg KW, DeWald RL. Clinical Orthopedics Related Research (394): 121-129, 2002.
5. Comparing Outcomes of Anterior Cervical Discectomy and Fusion in Workman's Versus Non-Workman's Compensation Population. Goldberg E, Singh K, Van U, Garretson R, An HS. Spine J Vol 2(6): 408-14, 2002.
6. Computer Assisted Image-Guided Surgery Cervical Spine Surgery. Singh K, Vaccaro, A.R. Techniques in Orthopaedics 17(3): 374-381, 2002.
7. A Biomechanical Comparison of Cervical Spine Reconstructive Techniques Following a Multi-Level Corpectomy of the Cervical Spine. Singh K, Vaccaro AR, Kim J, Lorenz P, Lim TH, An HS. Spine 28(20): 2352-58, 2003.
8. Anterior Cervicothoracic Junction Approach. Singh K, Albert TJ. Sasso R (Ed) In Techniques in Orthopaedics, 17(3): 365-373, 2003.
9. Biomechanical Evaluation of Modern Posterior Constructs for an Unstable Burst Fracture Calf Spine Model: Special References to Hook Configurations and Pedicle Screws. An HS, Singh K, Vaccaro AR, Yoshida H, Eck J, McGrady L. Spine 29(3): 257-62, 2004.
10. The Surgical Management of Thoracolumbar Injuries. Singh K, Vaccaro AR, Eichenbaum MD, Fitzhenry LN. J Spinal Cord Medicine 27(2) 95-101, 2004.
11. Enhancement of Stability Following Anterior Cervical Corpectomy: A Biomechanical Study. Singh K, Vaccaro AR, Kim J, Lorenz P, Lim TH, An HS. Spine 29(8): 845-9, 2004.

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12. Intradiscal Administration of Osteogenic Protein-1 Increases Intervertebral Disc Height and Proteoglycan Content in the Nucleus Pulposus in Normal Adolescent Rabbits. An HS, Takegami K, Kamada H, Nguyen C, Thonar EJ, Singh K, Andersson GB, Masuda K. Spine 30(1): 25-32, 2004.
13. Anterior Cervical Fusion: Surgical Techniques. Singh K, An HS. Seminars in Spine Surgery Vol 16(4): 245-254, Elsevier, 2004.
14. Assessing the potential impact of total disc arthroplasty on surgeon practice patterns in North America. Singh K, Vaccaro AR, Albert TJ. SPINE J 4(6) S195-201, 2004.
15. Animal Models for Human Disk Degeneration. Singh K, Masuda K, An HS. Spine J 5(6): S267-279, 2005.
16. Congenital Lumbar Spinal Stenosis: A Controlled, Matched Cohort Radiographic Analyses. Singh K, Samartzis D, Vaccaro AR, Nassr A, Andersson GB, Yoon ST, Phillips FM, Goldberg E, An HS. Spine J 5(6): 615-22, 2005.
17. Osteogenic Protein-1 is Most Effective in Stimulating Nucleus Pulposus And Annulus Fibrosus Cells to Repair their Matrix After Chondroitinase ABC-Induced In Vitro Chemonucleolysis. Takegami K, An HS, Kumano F, Chiba K, Thonar EJ, Singh K, Masuda K. Spine J 5(3): 231-8, 2005.
18. A Prospective Analysis of Vertebral Body Bone Mineral Density Adjacent to a Posterior Lumbar Spinal Fusion: A 9-12 Year Follow-up. Singh K, An HS, Samartzis D, Nassr A, Hickey M, Andersson GB. Spine 30(15): 1750-5, 2005.
19. A Prospective, Randomized, Double-Blind Study Evaluating the Efficacy of Post-Operative Continuous Local Anesthetic Infusion at the Iliac Crest Bone Graft Site After Spinal Arthrodesis. Singh K, Strom J, Samartzis D, Manning D, Hupp M, Wetzel FT, Gupta P, Phillips FM. Spine 30(22): 2477-83, 2005.
20. Neurofibromatosis Type I with Severe Dystrophic Kyphoscoliosis and its Operative Management Via a Simultaneous Anterior-Posterior Approach: A Case Report and Review of the Literature. Singh K, Samartzis D, An HS. Spine J 5(4): 461-6, 2005.
21. Surgical Management of Metastatic Spinal Disease. Singh K, Heller JG. Contemporary Spine Surgery, Vol 6(1): 1-7, 2005.
22. Post-Operative Spinal Infections. Singh K, Heller JG. Contemporary Spine Surgery, Vol 6(9): 61-68, 2005.
23. Post-Operative Spinal Infections. Singh K, Heller JG. Eds. Dorman, T. Contemporary Critical Care 3(8): 1-10, 2006.
24. Current Concepts in the Management of Metastatic Spinal Disease: The Role of Minimally Invasive Approaches. Singh K, Samartzis D, Vaccaro AR, Andersson GBJ, An HS, Heller JG. JBJS [Br] 88(4): 434-442, 2006.

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25. Open Vertebral Cement Augmentation Combined with Lumbar Decompression for the Operative Management of Thoracolumbar Stenosis Secondary to Osteoporotic Burst Fractures. Singh K, Heller JG, Samartzis D, Price SJ, An HS, Yoon ST, Rhee J, Phillips FM. J Spinal Disord Tech 18(5): 413-9, 2005.
26. The Biomechanics and Biology of the Spinal Degenerative Cascade. Singh K, Phillips FM. Sem Spine Surgery 17(3): 2005.
27. Management of Complex Soft-Tissue Defects after Spinal Instrumentation. Singh K, Samartzis D, Heller JG, An HS, Vaccaro AR. JBS [Br] 88(1): 8-15, 2005.
28. *In Vitro* Formation of Scaffold-free Tissue-engineered Cartilage by Expanded Osteoarthritic Chondrocytes using the ARC Method. Singh K, Ponnappan RK, Masuda K, An HS. U of Penn Ortho J, 2005.
29. Unusual Presentation of a Paraspinal Mass with Involvement of a Lumbar Facet Joint and the Epidural Space: A Case Report and Review of the Literature. Singh K, Samartzis D, Pennington W, Wise J, An HS. Orthopedics 29(3):265-7, 2006.
30. Intradiscal Therapy: A Review of Current Treatment Modalities. Singh K, Carl AL. Spine 30(17S): S20-6, 2005.
31. rhBMP-2 Enhancement of Posterolateral Spinal Fusion in a Rabbit Model in the Presence of Concurrently Administered Doxorubicin. Singh K, Smucker JD, Boden SD, Yoon ST. Spine J, 7(3): 326-31, 2007.
32. Use of recombinant human bone morphogenetic protein-2 as an adjunct in posterolateral lumbar spine fusion: CT-scan analysis at one and two years. Singh K, Smucker JD, Boden SD, J Spin Dis Tech 19(6): 416-23, 2006.
33. Treatment of Lumbar Instability: Transforaminal Lumbar Instability. Singh K, Vaccaro AR. Sem in Spine Surgery 17(4): 259-266, 2005.
34. Motion Preservation Technologies: Alternatives to Spinal Fusion. Singh K, An HS. AJO 35(9): 411-417, 2006.
35. Increased Swelling Complications Associated with Off-Label Usage of rhBMP-2 in the Anterior Cervical Spine. Smucker, JD, Rhee J, Singh K, Boden SD, Yoon ST, Heller JG. Spine 31(24): 2813-19, 2006.
36. Lumbar Spinal Stenosis: Surgical Management and Operative Techniques. Singh K, Samartzis D, Biyani A, An HS. JAAOS, 16(3):171-6, 2008.
37. Kyphoplasty and Functional Outcomes in patients with Osteoporotic Fractures. Singh K, Andersson GB. Nat Clin Pract Rheum 2(10): 532-3, 2006.

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38. A prospective, randomized, double blind study of the efficacy of post-operative continuous local anesthetic infusion at the iliac crest bone graft site after posterior spinal arthrodesis: A minimum of four-year follow-up. Singh K, Phillips FM, Kuo E, et al. Spine 32(25): 2790-6, 2007.
39. Comparison of Complications from Vertebroplasty and Kyphoplasty: A Meta-Analysis of 124 Studies. Lee M, Cahill P, Dumonski M, Stanley T, Park D, Singh K. Spine J 7(5): 19s, 2007.
40. Vertebroplasty Comparing Injectable Calcium Phosphate Cement Compared to Polymethylmethacrylate in a Unique Canine Vertebral Body Large Defect Model. Turner T, Urban R, Singh K, et al. Spine J 8(3): 482-7, 2008.
41. Evaluation of Back Pain Monograph. Park D, Singh K, An HS. BMJ Monograph, Epocrates Online, BMJ Publishing Group 2008.
42. Percutaneous Treatment of Vertebral Compression Fractures: A Meta-Analysis of Complications. Lee M, Cahill P, Singh K, et al. Spine 34(11): 1228-1232, 2009.
43. Cervical Kyphosis and Thoracic Lordoscoliosis in a Patient with Cerebral Palsy: A case report and review of the literature. Singh K, An HS. Orthopedics 31(3): 276, 2008.
44. Age-related changes of extracellular matrix proteins in the nucleus pulposus and anulus fibrosus of the human intervertebral disc. Singh K, Masuda KM, Thonar E, An HS, Cs-Szabo G. Spine 34(1): 10-16, 2009.
45. Recombinant Human Bone Morphogenetic Protein-2 in the treatment of bone fractures. Ghodadra N, Singh K. Biologics: Targets and Therapy 2(3): 345-54, 2008.
46. Peri-Operative Complications in Lumbar Spine Surgery. Park D, Khurana N, Ellman M, Singh K. J. Contemporary Spine Surgery, 10(3): 1-6, 2009.
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487. Impact of Time to Surgery for Workers' Compensation Patients Undergoing MIS TLIF. Patel MR, Jacob KC, Lynch CP, Cha EDK, Pawlowski H, Vanjani NN, Prabhu MC, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
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491. Impact of Preoperative SF-12 MCS on Achievement of MCID in Isthmic Spondylolisthesis Patients undergoing MIS TLIF. Patel MR, Jacob KC, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
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503. Nie JW, Hartman TJ, Patel MR, Jacob KC, Zheng E, MacGregor KR, Oyetayo OO, Singh K. Does Gender Impact Patient-Reported Outcomes Following Lateral Fusion? [Poster Presentation]. American Academy of Orthopaedic Surgeons Conference; March 7, 2023. Las Vegas, NV, USA.

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508. Jacob KC, Patel MR, Vanjani NN, Nie JW, Hartman TJ, MacGregor KR, Oyetayo OO, Zheng E, Singh K. Physical Function at Presentation May Influence Postoperative Clinical Outcome Trajectory and Long Term Patient Satisfaction following Single-Level Lumbar Fusion [Poster Presentation]. American Academy of Orthopaedic Surgeons Conference; March 9, 2023. Las Vegas, NV, USA.
509. Hartman TJ, Nie JW, Zheng E, MacGregor KR, Oyetayo OO, Singh K. Influence of Preoperative Physical Function Scores on Outcomes after Single-Level Cervical Disc Replacement (CDR) [Poster Presentation]. American Academy of Orthopaedic Surgeons Conference; March 9, 2023. Las Vegas, NV, USA.
510. Jacob KC, Patel MR, Hartman TJ, Nie JW, Oyetayo OO, Zheng E, MacGregor KR, Singh K. The Effect of the Severity of Preoperative Leg Pain on Patient Reported Outcomes, Minimum Clinical Important Difference Achievement, and Patient Satisfaction Following Minimally Invasive Transforaminal Lumbar Interbody Fusion [Poster Presentation]. American Academy of Orthopaedic Surgeons Conference; March 9, 2023. Las Vegas, NV, USA.
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525. Anwar FN, Roca AM, Loya AC, Medakkar SS, Kaul A, Wolf JC, Federico V, Sayari A, Lopez G, Singh K. Impact of Preoperative Back Pain Severity on PROMIS Outcomes Following Minimally Invasive Lumbar Decompression. Society for Minimally Invasive Spine Surgeons Conference; October 5, 2023. Las Vegas, NV, USA.
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535. Roca AM, Anwar FN, Medakkar SS, Loya AC, Kaul A, Wolf JC, Federico V, Sayari A, Lopez G, Singh K. Preoperative Motor Weakness and the Impact on Patient Reported Outcomes in Lateral Lumbar Interbody Fusion. Society for Minimally Invasive Spine Surgeons Conference; October 5, 2023. Las Vegas, NV, USA.
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539. Loya AC, Roca AM, Anwar FN, Medakkar SS, Wolf JC, Kaul A, Sayari AJ, Singh K. Gender Differences in Preoperative Symptom Severity for Patients Undergoing Lumbar Decompression [Poster Presentation]. Lumbar Spine Research Society Conference; May 2-3, 2024. Chicago, IL, USA.
540. Medakkar SS, Roca AM, Anwar FN, Nie JW, Hartman TJ, Loya AC, MacGregor KR, Oyetayo OO, Zheng E, Federico VP, Lopez GD, Sayari AJ, Singh K. Effect of Preoperative Motor Weakness on Postoperative Clinical Outcomes in Patients Undergoing Lumbar Decompression [Podium Presentation]. Lumbar Spine Research Society Conference; May 2, 2024. Chicago, IL, USA.
541. Roca AM, Anwar FN, Nie JW, Hartman TJ, Medakkar SS, Loya AC, MacGregor KR, Oyetayo OO, Zheng E, Federico VP, Sayari AJ, Singh K. Predominant Back versus Leg Pain for PROMIS Outcomes Following Lumbar Decompression [Podium Presentation]. Lumbar Spine Research Society Conference; May 3, 2024. Chicago, IL, USA.
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543. Roca AM, Anwar FN, Medakkar SS, Loya AC, Kaul A, Wolf JC, Federico V, Sayari A, Lopez G, Singh K. Worse Preoperative Twelve-Item Veterans Rand Physical Component Scores Prognosticate Inferior Outcomes following Outpatient Lumbar Decompression. Society for Minimally Invasive Spine Surgeons Conference; October 5, 2023. Las Vegas, NV, USA.
544. Sencaj, JF, Snigur, GA, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Singh K. Tubular versus Unilateral Biportal Endoscopic Lumbar Decompression for Obese Patients. [Podium Presentation]. Society for Minimally Invasive Spine Surgery Annual Forum 2024; September 5-7, 2024. Las Vegas, NV, USA.
545. Sencaj, JF, Snigur, GA, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Singh K. Effect of Neck Pain Severity on Patient-Reported Outcomes Following Cervical Disc Replacement for Herniated Disc. [Rapid Fire Presentation]. Society for Minimally Invasive Spine Surgery Annual Forum 2024; September 5-7, 2024. Las Vegas, NV, USA.
546. Sencaj, JF, Snigur, GA, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Singh K. Endoscopic Spine Surgery in the Ambulatory Setting: Perioperative Data, Complications, and Early Clinical Outcomes. [ePoster Presentation]. Society for Minimally Invasive Spine Surgery Annual Forum 2024; September 5-7, 2024. Las Vegas, NV, USA.
547. Sencaj, JF, Snigur, GA, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Singh K. The Effect of Preoperative Symptom Duration and Spinal Pathology on Mental Health Outcomes

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SCIENTIFIC PRESENTATIONS – NATIONAL/INTERNATIONAL

1. Determination and Identification of Chimeric Yeast Artificial Chromosomes. Singh K, Gemmill R. ANNUAL PROCEEDINGS OF THE COLORADO/WYOMING ACADEMY OF MOLECULAR SCIENCES – Colorado Springs, CO 1994.
2. A Biomechanical Comparison of Spinal Instrumentation Following Multi-level Corpectomy of the Cervical Spine. Singh K, Vaccaro AR, Kim J, Lorenz E, Cho T, Humphreys C, Lim T, An HS. 13TH ANNUAL RUSH SURGICAL SOCIETY UNIVERSITY 2003, Chicago, IL
3. A Biomechanical Comparison of Spinal Instrumentation Following Multi-level Corpectomy of the Cervical Spine. Singh K, Vaccaro AR, Kim J, Lorenz E, Cho T, Humphreys C, Lim T, An HS. RUSH UNIVERSITY [SIGMA XI] RESEARCH FORUM 2003, Chicago, IL.
4. Enhancement of Stability Following Anterior Cervical Corpectomy: A Biomechanical Study. Singh K, Vaccaro AR, Kim J, Lorenz E, Cho T, Humphreys C, Lim T, An HS. RUSH UNIVERSITY [SIGMA XI] RESEARCH FORUM 2003, Chicago, IL.

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5. Use of recombinant human bone morphogenetic protein-2 as an adjunct in posterolateral lumbar spine fusion: CT-scan analysis at one and two years. Singh K, Smucker JD, Boden SD. KELLY DAY – EMORY UNIVERSITY, 2005, Atlanta, GA.
6. Cervical Spine Trauma: Current Concepts. Singh K. Stryker Resident Trauma Symposium, 2006, Chicago, IL.
7. Animal Models for Disc Repair. An HS, Singh K. NORTH AMERICAN SPINE SOCIETY ANNUAL MEETING 2004, SPINE JOURNAL SPECIAL ISSUE: BIOLOGICS IN SPINAL SURGERY. Oct 2004, Chicago, IL.
8. *In Vitro* Formation of Scaffold-free Tissue-engineered Cartilage from Expanded Osteoarthritic Human Chondrocytes stimulated by Osteogenic Protein-1 using the Alginate-Recovered-Chondrocyte Method: An Assessment of Gross Morphology and Biochemistry. Singh K, Masuda K, Ponnappan RK, Cz-Sabo G. SMITH AND NEPHEW NATIONAL RESIDENT COMPETITION, August, 2004, Memphis, TN.
9. A Prospective, Randomized, Double Blind Study of the Efficacy of Post-Operative Continuous Local Anesthetic Infusion at the Iliac Crest Bone Graft Site After Spinal Arthrodesis. Singh K, Manning D, Samartzis D, Hupp M, Wetzel T, Phillips FM. CERVICAL SPINE RESEARCH SOCIETY, Dec 2004, Boston, MA.
10. The Management of Recurrent Spinal Metastasis. Heller JG, Singh K. 9TH INTERNATIONAL ARGOS SYMPOSIUM – PITFALLS IN SPINAL METASTASIS, 2005, Paris, France.
11. Early versus Late Management of Spinal Metastases. Heller JG, Singh K. 9TH INTERNATIONAL ARGOS SYMPOSIUM – PITFALLS IN SPINAL METASTASIS, 2005, Paris, France.
12. A Prospective, Randomized, Double Blind Study of the Efficacy of Post-Operative Continuous Local Anesthetic Infusion at the Iliac Crest Bone Graft Site After Spinal Arthrodesis. Singh K, Manning D, Samartzis D, Hupp M, Wetzel T, Phillips FM. INTERNATIONAL SOCIETY OF LUMBAR SPINE SURGERY, 2005, New York, NY.
13. Vertebral Body Augmentation: Cements and Resorbables. Singh K, SPINE TECHNOLOGY EDUCATION GROUP – 2ND ANNUAL SYMPOSIUM, July 2005, Cabo San Lucas, Mexico.
14. Open Cement Augmentation and Lumbar Decompression With or Without Posterior Instrumentation for the Operative Management of Thoracolumbar Stenosis Secondary to Osteoporotic Burst Fractures. Singh K, Heller JG, Samartzis D, Price S, An HS, Ledlie A, Phillips FM. WORLD SPINE III: AN INTERDISCIPLINARY CONGRESS ON SPINE CARE, 2005, Rio de Janeiro, Brazil.
15. A Prospective, Randomized, Double Blind Study of the Efficacy of Post-Operative Continuous Local Anesthetic Infusion at the Iliac Crest Bone Graft Site After Spinal Arthrodesis. Singh K, Manning D, Samartzis D, Hupp M, Wetzel T, Phillips FM. WORLD SPINE III: AN INTERDISCIPLINARY CONGRESS ON SPINE CARE, 2005, Rio de Janeiro, Brazil.

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412. Snigur GA, Sencaj JF, Anwar FN, Roca AM, Medakkar SS, Loya AC, Federico VP, Sayari AJ, Lopez GD, Singh K. The impact of preoperative anxiety on clinical outcomes following lumbar fusion [RapidFire ePoster Presentation]. North American Spine Society 39th Annual Meeting; September 25th, 2024. Chicago, IL, USA.
413. Sencaj JF, Snigur GA, Anwar FN, Roca AM, Vasudevan V, Ilyas Y, Loya AC, Medakkar SS, Federico VP, Singh K. Predictors of time to achieve clinically significant improvements following lateral lumbar interbody fusion [RapidFire ePoster Presentation]. North American Spine Society 39th Annual Meeting; September 25th, 2024. Chicago, IL, USA.
414. Snigur GA, Sencaj JF, Anwar FN, Roca AM, Loya AC, Medakkar SS, Federico VP, Sayari AJ, Lopez GD, Singh K. Mental and physical health outcomes of outpatient lumbar decompression for patients with severe baseline disability [RapidFire ePoster Presentation]. North American Spine Society 39th Annual Meeting; September 25th, 2024. Chicago, IL, USA.
415. Sencaj JF, Snigur GA, Anwar FN, Roca AM, Khosla I, Federico VP, Loya AC, Medakkar SS, Singh K. Worse baseline neck pain is associated with worse postoperative mental health, physical function and cervical range of motion following cervical disc replacement [RapidFire ePoster Presentation]. North American Spine Society 39th Annual Meeting; September 25th, 2024. Chicago, IL, USA.
416. Sencaj JF, Snigur GA, Roca AM, Anwar FN, Loya AC, Medakkar SS, Singh K. Biological sex influences patient-reported outcomes for patients with a high preoperative PROMIS-anxiety

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score undergoing lumbar decompression. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

417. Snigur GA, Sencaj JF, Roca AM, Anwar FN, Loya AC, Medakkar SS, Singh K. Patients with work-related musculoskeletal disorders treated with minimally invasive microdiscectomy report improvement in clinical outcome measures. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

418. Sencaj JF, Snigur GA, Roca AM, Anwar FN, Medakkar SS, Loya AC, Singh K. Influence of preoperative symptom duration on clinical outcomes after lumbar decompression in the ambulatory surgical setting. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

419. Snigur GA, Sencaj JF, Roca AM, Anwar FN, Medakkar SS, Loya AC, Federico VP, Sayari AJ, Lopez GD, Singh K. Correlation between PROMIS physical function and legacy physical function PROMs in patients undergoing lateral lumbar interbody fusion. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

420. Sencaj JF, Snigur GA, Roca AM, Anwar FN, Medakkar SS, Loya AC, Federico VP, Sayari AJ, Lopez GD, Singh K. Does poor anxiety and mental health correlate with inferior patient-reported outcomes following cervical disc replacement? [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

421. Snigur GA, Sencaj JF, Anwar FN, Roca AM, Nie JW, Medakkar SS, Loya AC, MacGregor KR, Oyetayo OO, Zhang E, Federico VP, Sayari AJ, Lopez GD, Singh K. Patients with elevated depressive symptoms undergoing lumbar decompression for disc herniation do not report inferior outcomes in the ambulatory surgical center. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

422. Sencaj JF, Snigur GA, Roca AM, Anwar FN, Khosla I, Medakkar SS, Loya AC, Sayari AJ, Singh K. Systematic review of common complications reported after unilateral and biportal endoscopic lumbar spine surgery. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

423. Snigur GA, Sencaj JF, Roca AM, Anwar FN, Loya AC, Medakkar SS, Federico VP, Sayari AJ, Lopez GD, Singh K. Effect of workers' compensation on PROMIS outcome measures in spine patients undergoing lumbar decompression. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.

424. Sencaj, JF, Snigur, GA, Anwar FN, Roca AM, Patel, SN, Ward, SO, Khosla, I, Medakkar SS, Loya AC, Federico VP, Sayari AJ, Lopez GD, Singh K. Clinical and Radiographic Outcomes of Cervical Disc Replacement for Treatment of Adjacent Segment Disease: A Case Series. [Poster Presentation]. Cervical Spine Research Society 52nd Annual Meeting; December 11-14, 2024. Chicago, IL, USA.

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425. Snigur GA, Sencaj JF, Khosla I, Anwar FN, Roca AM, Medakkar SS, Loya AC, Singh K. Influence of preoperative disability on outcomes following primary surgical treatment of cervical disc herniation. [Virtual Poster Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.
426. Snigur GA, Sencaj JF, Roca AM, Anwar FN, Nie J, Loya AC, Medakkar SS, Singh K. The Impact of Age and Gender on Short Term PROMIS Outcomes in Lumbar Decompression. [Virtual Poster Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.
427. Snigur GA, Sencaj JF, Roca AM, Anwar FN, Loya AC, Medakkar SS, Singh K. Impact of length of stay on outcomes after minimally invasive TLIF versus LLIF. [Virtual Poster Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.
428. Snigur GA, Sencaj JF, Roca AM, Anwar FN, Loya AC, Medakkar SS, Singh K. Patients with work-related musculoskeletal disorders treated with minimally invasive microdiscectomy report improvement in clinical outcome measures. [Podium Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.
429. Snigur GA, Sencaj JF, Roca AM, Anwar FN, Medakkar SS, Loya AC, Singh K. Predictors of Chronic Back Pain After Lateral Lumbar Fusion. [Virtual Poster Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.
430. Snigur GA, Sencaj JF, Federico VP, Roca AM, Anwar FN, Loya AC, Medakkar SS, Singh K. The Effect of Operative Level on Clinical Outcomes After Cervical Spine Surgery. [Virtual Poster Presentation]. North American Spine Society 39th Annual Meeting; September 25-28, 2024. Chicago, IL, USA.
431. Snigur, GA, Sencaj, JF, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Singh K. Does Baseline Severity of Arm Pain Affect PROMIS Scores Following Cervical Disc Replacement? [Podium Presentation]. Cervical Spine Research Society 52nd Annual Meeting; December 11-14, 2024. Chicago, IL, USA.
432. Snigur, GA, Sencaj, JF, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Federico VP, Singh K. Comparison of Outcomes of Ambulatory versus In-Hospital Cervical Disc Replacement. [Poster Presentation]. Cervical Spine Research Society 52nd Annual Meeting; December 11-14, 2024. Chicago, IL, USA.
433. Sencaj, JF, Snigur, GA, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Singh K. Tubular versus Unilateral Biportal Endoscopic Lumbar Decompression for Obese Patients. [Podium Presentation]. Society for Minimally Invasive Spine Surgery Annual Forum 2024; September 5-7, 2024. Las Vegas, NV, USA.
434. Sencaj, JF, Snigur, GA, Anwar FN, Roca AM, Patel, SN, Ward, SO, Medakkar SS, Loya AC, Singh K. Effect of Neck Pain Severity on Patient-Reported Outcomes Following Cervical Disc Replacement

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for Herniated Disc. [Rapid Fire Presentation]. Society for Minimally Invasive Spine Surgery Annual Forum 2024; September 5-7, 2024. Las Vegas, NV, USA.

SURGICAL ADVISORY BOARDS

- Kyphon KAVIAR Study (8/2006-2015)
- Vital5 – Co-Founder (2012-Present)
TruVue Surgical – Co-Founder (2013-Present)
- Avaz Surgical – Co-Founder (2013-Present)
- TDi – Co-Founder (2017-Present)

PRINCIPAL INVESTIGATOR IDE TRIALS

- Depuy Discover - Cervical Total Disc Arthroplasty
- AST Stabilimax – Lumbar Dynamic Stabilization
- Facet Solutions – Lumbar Facet Replacement

INVITED VISITING PROFESSOR LECTURSHIPS

- Florida Orthopedic Institute, Department of Orthopaedic Surgery, Grand Rounds, May 2025.
- European Society of Unilateral Biportal Endoscopy, Montpellier, France May 2025.
- Chicago Interurban Neurological Society – Guest Lectureship, Controversies in Endoscopic Spine Surgery, Chicago March 2025.
- U. of Miami – Rosenfeld Annual Visiting Professor, November, 2024.
- Boston University Medical Center – Thomas Einhorn 13th Annual Visiting Professor, May 3, 2024.
- Jefferson/Rothman Orthopedics - Department of Orthopaedic Surgery Grand Rounds – March 29, 2024. MIS Spine Surgery: I always wanted to be a Total Joint Surgeon
- U. of Massachusetts – Department of Orthopaedic Surgery Grand Rounds – Oct 11, 2023: MIS Spine Surgery: I always wanted to be a Total Joint Surgeon
- Bombay Spine Society – Outpatient Spine Surgery: Transitioning to an ASC – Bombay, India (Nov 20, 2021)
- 34th International Pakistan Orthopedic Conference – MIS Spine Surgery – New Technologies – Karachi, Pakistan (Nov 11-13, 2021)
- International Medical Center – Jeddah Spine Summit, Jeddah, Saudi Arabia, 2013.
- Yale University, New Haven, CT – “The Surgeon Learning Curve: MIS Spine Surgery, Oct 2013.
- Hospital for Joint Diseases / NYU – “MIS Spine Surgery: The True Learning Curve”, New York, NY, Feb 2015.
- Keio University – “Lateral Based Spine Surgery: What Can be Accomplished?” – Tokyo, Feb 18, 2016.
- MIST Japanese National Meeting - “MIS Spine Surgery: The American Perspective”, Tokyo, Japan, 2016.
- Brown University – MIS Spine Surgery: The Good, The Bad and the True Surgical Learning Curve. Providence, RI 2017.
- William Beaumont Hospital – The Ethics of the Learning Curve in Minimally Invasive Spinal Surgery. Royal Oak, MI 2018.

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- Arab Health 2018 - The Ethics of the Learning Curve in Minimally Invasive Spinal Surgery. Dubai, UAE 2018.
- Japanese Society of Spinal Research 2018 – MIS Spine Surgery – The Learning Curve Understood. Kobe, Japan 2018.
- Japanese Orthopedic Association 91st Annual Meeting 2018 – “MIS Spine Surgery: The Good, the Bad and the Surgical Learning Curve. Kobe, Japan 2018.
- Ohio State University – The Ethics of the Learning Curve in Minimally Invasive Spine Surgery, Oct 2018.
- Georgetown Medical Center – The Ethics of the Learning Curve in Minimally Invasive Spine Surgery, Nov 2018.
- JASMISS (Japanese Association Minimally Invasive Spine Society) – Tokyo, Japan Nov 2018.
- Spine Technology 2020 Awards Selection Committee Reviewer
- Cedars – Sinai, Grand Rounds – Everything I learned about Spine Surgery, I learned from my Arthroplasty Partners – Nov 2020
- Harvard Mass General Hospital Grand Rounds - Everything I learned about Spine Surgery, I learned from my Arthroplasty Partners – Nov 2020
- Surgical Masters Indian Spine Society – MIS Posterior Cervical Foraminotomy – Nov 1, 2020
- HSS – David Levine Spine Symposium – Nov 6, 2020
- How to transition your practice to the outpatient environment – Singh K, Nov 22, 2020, Neurological Surgeons Society of India (NSSI)

INTERNATIONAL SOCIETY LEADERSHIP POSITIONS

- Spine Arthroplasty Society (SAS)
 - Program Committee, London (2008-9)
 - Research Committee (2008-9)
- Cervical Spine Research Society
 - Program Committee (2014-2016)
 - Member Survey Committee (2016-2019)
- Indian American Spine Alliance (2011-Present)
 - Founding Member
 - Board of Directors
- American Academy Orthopaedic Surgeons (AAOS)
 - Spine Content Committee Chairman AAOS (2023-2025)
 - Spine Program Committee Chairman AAOS National Meeting (2017-2023)
 - Spine Program Committee (2014-19, 2019-22)
 - Critical Evaluator (2015-19)
 - Moderator, Thoracolumbar Deformity (2016)
 - Central Program Liason Committee (2017-2020)
- International Society for Advancement of Spine Surgery (ISASS)
 - Coding Committee (2014-Present)
 - Program Committee (2013-Present)
 - Co-Chair, Minimally Invasive Spine Surgery Program, San Diego, 2015
 - Chairman, Publications Committee (2015-Present)

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- Industry Relations Committee (2020-Present)
- Society Minimally Invasive Spine Surgery (SMISS)
 - Program Committee (2014-Present)
 - Co-Chair, Spine Week Singapore, 2016
 - Program Chair, National Meeting 2019 (Las Vegas, NV)
 - Industry Relations Committee (2020)
- Scoliosis Research Society (SRS)
 - IMAST Program Committee, 2014-16, Kuala Lumpur, Malaysia.
 - Coding Committee (2014-Present)
- North American Spine Society (NASS)
 - Robotics and Navigation Committee – (2014-Present)
 - Minimally Invasive Procedures Committee – (2014-Present)
 - Program Committee (2015-Present)
 - Abstract Reviewer (2015-Present)
 - NASS 2016 Summer Spine Meeting – Program Reviewer (2016)
 - Young Spine Surgeons Forum Executive Committee Member (2008-2010)
- Lumbar Spine Research Society (LSRS)
 - Planning Committee (2015-Present)

PROFESSIONAL ORGANIZATIONS

- North American Spine Society (2005-Present)
- American Academy of Orthopedic Surgeons (2007-Present)
- Lumbar Spine Research Society (2011-Present)
- International Society for the Advancement of Spine Surgery (2012-Present)
- Cervical Spine Research Society (2012-Present)
- Scoliosis Research Society (2015-Present)
 - Candidate Member – Scoliosis Research Society (2008-2014)
- Society Minimally Invasive Spine Surgery (2010-Present)
- International Society for Advancement of Spine Surgery (2010-Present)
- *President* - AMSA Surgical Observation committee (1999)
- American Medical Student Association (1995-1999)
- American Medical Association (1995-Present)

REGIONAL EXECUTIVE / LEADERSHIP POSITIONS

- OrthoMidwest Board of Directors (2023-Present)
- Midwest Orthopaedics at Rush Executive Committee (2008-Present)
- Board Member, OrthoCentrix Solutions (2014-2015)
- Marketing Committee MOR (2007-Present)
- Rush Residency Education Committee (2017-Present)
- Rush Orthopaedic Surgery Residency Selection Committee (2006-Present)
- Rush Spinal Surgery Fellowship Selection Committee (2005-Present)
- Rush Implant Valuation Committee (2010-Present)
- Chicago Orthopedic Society (1999-Present)
- Board Member (Treasurer) – Gold Coast Surgery Center (2013-2015)
- Atlanta Orthopedic Society (2004-2005)

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FACULTY COURSES

- Emerging Technologies, Steamboat, CO 2009
- Young Spine Surgeons Symposium, Toronto, CA – NASS 2008
- Spine Technology Education Group, Cabo San Lucas (2005-Present)
- Spine Study Group, West Palm Beach, FL, (2006-Present)
- AAOS, Current Techniques in Spine Surgery, Chicago, IL, (2006-Present).
- AAOS-CSRS, Current Techniques in Spine Surgery, Chicago, IL, September 2015.
- ASSICON (Association of Spine Surgeons of India), Chennai, India, January 2009.
 - ASSICON 2021 – AR/VR and its Use in Improving Access in Spine Care
- NASS – Spine Across the Seas, Moderator, July 2007
- NASS – Spine Across the Seas, Moderator, July 2009
- Cervical Spine Research Society, Moderator, Salt Lake City, UT, December 2009.
- SAS – Moderator, New Orleans, LA, April 2010.
- LSRS – Instructional Course Lecture – MIS TLIF, Chicago, 2012.
- IASA – MIS Lumbar Techniques (Invited Guest Lecturer) – Bangalore, India, 2012.
- CSRS - Instructional Course Lecture (C1-2 Fusion) – Chicago, 2012
- NASS – Physician Practice Symposium – Dallas, 2012.
- NASS – Minimally Invasive Cadaveric Instructional Course – Dallas, 2012.
- LSRS – Instructional Course Lecture, Chicago, 2013
- NASS Technology Summit – Salt Lake City, UT 2013.
- SMISS – Instructional Course Lecture, Las Vegas, 2013
 - Research Abstract Reviewer
- SMISS – Global Forum, Miami, 2014
 - Research Abstract Reviewer
 - Program Committee Member
 - Moderator
- NASS – Complication Avoidance and Management in Minimally Invasive Spine Surgery, May 2014.
 - Course Chairman
- AAOS – Instructional Course Lecture – Complications in Minimally Invasive Spinal Surgery. New Orleans 2014.
- AAOS – Instructional Course Lecture – Degenerative Lumbar Spondylolisthesis, New Orleans 2014.
- AAOS – Moderator – Lumbar Deformity, New Orleans 2014.
- AAOS – Member, Program Committee 2015.
- ISASS – Instructional Course Lecture Cadaver Lab – Miami 2014.
- ISASS – Program Committee Member – Miami 2014.
- AAOS/ASSH – Board Review Course, Spinal Trauma, Chicago (2014-Present).
- NASS – Co-Chair, Complication Management in MIS Spine Surgery, Chicago 2014.
- CSRS – Member, Program Committee, Orlando 2014.
- CSRS – Instructional Course Lecture, Orlando 2014.
- ISASS – Co-Chair, MIS Program Committee, San Diego, 2015.
- AAOS – Instructional Course Lecture, Las Vegas 2015
 - Complication Management in Minimally Invasive Spine Surgery

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- Head and Spine Injuries in Athletes: When to Worry?
 - Degenerative Spondylolisthesis: An Evidenced Based Assessment
 - Patient Reported Outcomes in Spine Surgery
- NASS – Complication Avoidance and Management in Minimally Invasive Spine Surgery, May 2015.
 - Course Co-Chairman
- NASS – Annual Meeting, Program Committee – Abstract Reviewer, Chicago, 2015.
- LSRS – Moderator, Instructional Course Lecture – Degenerative Scoliosis – Chicago, 2015.
- SMISS Global Forum 15 – Educational / Program Committee – Las Vegas, 2015.
- AAOS/CSRS – Cutting Edge Techniques, Chicago, 2015.
- CSRS – Instructional Course Lecture, San Diego, 2015.
- ISASS – Program Committee, Las Vegas, 2016.
- AAOS – Instructional Course Lecture, Orlando, 2016.
 - Complication Management in Minimally Invasive Spine Surgery
 - Head and Spine Injuries in Athletes: When to Worry?
 - Degenerative Spondylolisthesis: An Evidenced Based Assessment
 - MIS TLIF – Is the Evidence There?
 - Cervical Smack Down – Ask the Experts
- AAOS – Specialty Day, Orlando, 2016.
 - Outpatient Spinal Surgery, CSRS
 - MIS TLIF for the Treatment of Degenerative Spondylolisthesis, ISASS
- SMISS Spine Week – Co-Chairman, Singapore, 2016.
- SMISS Global Forum 2016 – Moderator / Program Committee
 - Moderator
 - Faculty – MIS TLIF
- ISASS – Annual International Meeting Chairman – Boca Raton, FL 2016.
- SMISS National Meeting – Las Vegas, 2016
 - **MIS TLIF**

INDUSTRY FACULTY COURSES

- Stryker Posterior Cervical Course, Ft. Lauderdale, FL, November 2006-2009.
- Stryker, Young Lions Symposium, Las Vegas, NV 2006-2009.
- Stryker, Chairman, Young Lions Symposium, Las Vegas, NV 2007.
- Stryker, Fellows Boot Camp, Las Vegas, NV 2006-2007.
- Stryker, Invited Guest Lecturer, MIS Spine Course, Monte Fiore Hospital, NYC, 2008.
- Stryker, Invited Guest Lecturer, MIS Spine Course, Mt. Sinai Hospital, NYC, 2013.
- Stryker, Advanced Posterior Cervical Instrumentation Course, Las Vegas, NV 2007.
- Stryker, Advanced Posterior Cervical Instrumentation Course, Denver, CO 2008.
- Stryker, Aging Spine Course, Ft. Lauderdale, FL, 2007-2008.
- Stryker, TRACS Committee Member, 2006-11.
- Depuy, Fellows Cadaver Course, Denver, CO 2008-2010.
- Depuy, Chairman, Spinal Surgery Complications Course, Raynham, MA 2010.
- Salient, Co-Chairman, Spine Surgery Fellows Course, Vail, CO 2012-2013.
- Globus, Spinal Deformity Course, NYC, 2013.
- Globus, Complications in Spinal Surgery, San Diego, 2014.

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- Depuy, MIS Spine Complications Course, Chicago, 2014.
- Depuy, MIS Spine Complications Course, Milwaukee, 2015.

NON-ACADEMIC ACHIEVEMENTS

- Varsity High School Tennis (1990-1993)
- Varsity High School Cross-Country (1990-1993)
- Red Cross F.A.S.T. Team (First Aid Service Team) (1990-1993)
- Colorado State Invitational Open Pro-Am Tennis Tournament (1990-99)
- *Editor* - Jefferson Medical College Class of 1999 Yearbook
- Jeff HOPE - Medical care to Philadelphia's homeless (1995-1999)
- *Volunteer* - Special Olympics, Philadelphia, PA (1995-1999)
- *Writer* - Jefferson student newspaper, "The Examiner" (1995-1999)
- *President* - MS³ (Medical Student) Tutoring Committee (1995-1999)
- Penn State Intramural Basketball (1993-1995)
- Jefferson Medical College Intramural Basketball (1995-1999)