

# Kern Singh, M.D.

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## PROFESSIONAL APPOINTMENTS

### **Rush University Medical Center – Chicago, IL (2005 – 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**

- 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 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

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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, Kudravalli 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, Kudravalli 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 2<sup>nd</sup> 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 KH, Kudravalli 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, Kudravalli 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 31<sup>st</sup> 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)

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- 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 - 2<sup>nd</sup> 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.
- 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 - 2<sup>nd</sup> Place – Basic Science Category, Midwest Orthopedic Research Educational Foundation, Chicago, IL. *In Vitro* Formation of Scaffold-free Tissue-engineered Cartilage

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from Expanded Osteoarthritic Human Chondrocytes stimulated by Osteogenic Protein-1 using the Alginate-Recovered-Chondrocyte Method: An Assessment of Gross Morphology and Biochemistry.

- 2004 - 2<sup>nd</sup> 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 - 1<sup>st</sup> Place -13<sup>th</sup> Annual Rush Surgical Society, Chicago, IL. A Biomechanical Comparison of Spinal Instrumentation Following Multi-level Corpectomy of the Cervical Spine.
- 2003 - Educational Grant – 3<sup>rd</sup> 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

## 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

- Radiographic Evaluation of the Cervical Neck Surgical Approach and Its Relationship with BMI and Operative Characteristics following ACDF. CSRS 2020.

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- 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

- Synopsis of Spine Surgery 2<sup>nd</sup> 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 3<sup>rd</sup> Edition. An HS, Singh K, Thieme, 2016.
- Orthopedic Knowledge Update 12, Section Editor Spine, March 2017.
- Pocket Atlas of Spine Surgery, 2<sup>nd</sup> Edition, Thieme 2018.
- Textbook of Minimally Invasive Spinal Instrumentation, 1<sup>st</sup> Edition, Thieme 2020.
- Spine Essentials Handbook: A Bulleted Review of Anatomy, Evaluation, Imaging, Tests, and Procedures. Singh K, Thieme 2019.
- Surgical Spinal Oncology, 1<sup>st</sup> 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)

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- Editoria 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)
- Editoria Board, Thieme MedOne Orthopaedics (2019-Present)
- Associate Editor, 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)
- 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.



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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.
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.

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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.
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. JBJS [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.



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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.
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.
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373. Single Level MIS TLIF vs ALIF at L5/S1: A Comparison of Patient Reported Outcomes and Recovery Ratios. Jacob KC, Patel MR, Chavez FA, Parsons AW, Ribot MA, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. Society for Minimally Invasive Spine Surgery. Las Vegas, Nevada. 2021 October 28-30.
374. The Influence of Preoperative Narcotic Consumption on Patient Reported Outcomes of Lumbar Decompression. Patel MR, Jacob KC, Lynch CP, Cha EDK, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. Society for Minimally Invasive Spine Surgery. Las Vegas, Nevada. 2021 October 28-30.
375. Impact of Preoperative Physical Function Scores on Postoperative Outcomes for Isthmic Spondylolisthesis Patients Following TLIF. Patel MR, Jacob KC, Lynch CP, Cha EDK, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
376. Differences in Pain and Narcotic Consumption Following Revision Anterior Cervical Discectomy and Fusion: Single vs. Multilevel. Patel MR, Jacob KC, Cha EDK, Lynch CP, Pawlowski H, Vanjani NN, Prabhu MC, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
377. Two-Year Outcomes Following MIS TLIF using Expandable vs Static Interbody Cages. Jacob KC, Patel MR, Lynch CP, Cha EDK, Vanjani NN, Prabhu MC, Pawlowski H, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
378. Impact of Smoking among Obese Patients Undergoing MIS TLIF. Jacob KC, Patel MR, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
379. Lateral Lumbar Interbody Fusion in the Outpatient Setting: Clinical Case Series. 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.
380. Impact of Total Hip Arthroplasty on Postoperative Improvement Following Lumbar Fusion. Jacob KC, Patel MR, Cha EDK, Lynch CP, Vanjani NN, Prabhu MC, Pawlowski H, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
381. The Effect of the Severity of Preoperative Back Pain on Patient Reported Outcomes, Recovery Ratios, and Patient Satisfaction Following MIS-TLIF. Jacob KC, Patel MR, Parsons AW, Chavez FA, Ribot MA, Pawlowski H, Vanjani NN, Prabhu MC, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
382. Single Level MIS TLIF vs LLIF at L4/L5: A Comparison of Patient Reported Outcomes and Recovery Ratios. Jacob KC, Patel MR, Ribot MA, Parsons AW, Chavez FA, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
383. Two-Level MIS TLIF vs ALIF: A Comparison of Patient Reported Outcomes, MCID Achievement, Post-operative Complications and Recovery Ratios. Patel MR, Jacob KC, Ribot MA, Chavez FA, Parsons AW, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.

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384. Influence of Preoperative Mental Health on PROMs among WC Population undergoing MIS TLIF. Patel MR, Jacob KC, Parsons AW, Chavez FA, Ribot MA, Vanjani NN, Prabhu MC, Pawlowski H, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
385. Impact of Predominant Back Pain versus Predominant Leg Pain on VAS and ODI Satisfaction Scores following MIS LD. Patel MR, Jacob KC, Lynch CP, Cha EDK, Vanjani NN, Prabhu MC, Pawlowski H, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
386. Lateral Lumbar Interbody Fusion: Single Surgeon Learning Curve. Jacob KC, Patel MR, Munim MA, Pawlowski H, Vanjani NN, Prabhu MC, Singh K. *American Academy of Orthopaedic Surgeons*. Chicago, IL. 2022 March 22-26.
387. Influence of Preoperative SF-12 MCS on PROMs and Achievement of MCID in an Isthmic Spondylolisthesis Population undergoing MIS TLIF. Jacob KC, Patel MR, Chavez FA, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *Lumbar Spine Research Society*. Chicago, IL. 2022 April 7-8.
388. Impact of Predominant Back Pain versus Predominant Leg Pain on VAS and ODI Satisfaction Scores following MIS LD. Jacob KC, Patel MR, Chavez FA, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *Lumbar Spine Research Society*. Chicago, IL. 2022 April 7-8.
389. Two-Level MIS TLIF vs ALIF: A Comparison of Patient Reported Outcomes, MCID Achievement, Post-operative Complications and Recovery Ratios. Jacob KC, Patel MR, Chavez FA, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *Lumbar Spine Research Society*. Chicago, IL. 2022 April 7-8.
390. Single-Level MIS TLIF vs ALIF for Surgical Treatment of Isthmic Spondylolisthesis. Jacob KC, Patel MR, Chavez FA, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *Lumbar Spine Research Society*. Chicago, IL. 2022 April 7-8.
391. Comparison of Postoperative Clinical Outcomes Between Primary MIS TLIF and MIS TLIF with Revision Decompression for Degenerative Spondylolisthesis. Jacob KC, Patel MR, Chavez FA, Prabhu MC, Pawlowski H, Vanjani NN, Singh K. *Lumbar Spine Research Society*. Chicago, IL. 2022 April 7-8.
392. ALIF As a Salvage Procedure for TLIF Pseudarthrosis: A clinical outcome study. Jacob KC, Patel MR, Cha EDK, Lynch CP, Vanjani NN, Pawlowski H, Prabhu MC, Singh K. *North American Spine Society*. Chicago, IL. 2022 October 12-15.
393. Preliminary Analysis on the Influence of Workers' Compensation Status on Outcomes of Anterior Lumbar Interbody Fusion at L5S1. Patel MR, Jacob KC, Reji J, Vanjani NN, Pawlowski H, Prabhu MC, Singh K. *North American Spine Society*. Chicago, IL. 2022 October 12-15.
394. Jacob KC, Patel MR, Hartman TJ, Nie JW, Oyetayo OO, Zheng E, MacGregor KR, Singh K. Comparing Patient-Reported Outcomes in Patients Undergoing Lumbar Fusion for Isthmic Spondylolisthesis with Predominant Back Pain versus Predominant Leg Pain Symptoms. [Oral Presentation]. *American Academy of Orthopaedic Surgeons Conference*; March 8, 2023. Las Vegas, NV, USA.

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395. Nie JW, Hartman TJ, Zheng E, MacGregor KR, Oyetayo OO, Singh K. Impact of Mental Health Scores on Clinical Outcomes in Cervical Disc Replacement. [Oral Presentation]. American Academy of Orthopaedic Surgeons Conference; March 8, 2023. Las Vegas, NV, USA.
396. Patel MR, Jacob KC, Pawlowski H, Hartman TJ, Nie JW, Zheng E, MacGregor KR, Oyetayo OO, Singh K. Comparison of Cervical Disc Replacement Outcomes by Insurance: Workers' Compensation vs. Private. [Oral Presentation]. American Academy of Orthopaedic Surgeons Conference; March 9, 2023. Las Vegas, NV, USA.
397. Patel MR, Jacob KC, Nie JW, Hartman TJ, MacGregor KR, Oyetayo OO, Zheng E, Singh K. Influence of Obesity on Perioperative Outcomes, Patient Reported Outcome Measures, and Minimal Clinically Important Difference Achievement among Isthmic Spondylolisthesis Patients Receiving Minimally Invasive Transforaminal Lumbar Interbody Fusion. [Oral Presentation]. American Academy of Orthopaedic Surgeons Conference; March 10, 2023. Las Vegas, NV, USA.
398. Hartman TJ, Nie JW, Jacob KC, Patel MR, Pawlowski H, Oyetayo OO, Zheng E, MacGregor KR, Singh K. Influence of Preoperative Symptom Duration on Postoperative Clinical Outcomes and Trajectory in Patients Undergoing Minimally Invasive Transforaminal Lumbar Interbody Fusion for Isthmic Spondylolisthesis. [Oral Presentation]. American Academy of Orthopaedic Surgeons Conference; March 10, 2023. 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

- Bombar 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.
- MIS Japanese National Meeting - “MIS Spine Surgery: The American Perspective”, Tokyo, Japan, 2016.

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- 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.
- 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 91<sup>st</sup> 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)

## FACULTY COURSES



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- 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
  - 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

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- 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.
- 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)

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- *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* - MS<sup>3</sup> (Medical Student) Tutoring Committee (1995-1999)
- Penn State Intramural Basketball (1993-1995)
- Jefferson Medical College Intramural Basketball (1995-1999)