

# Kern Singh, M.D.

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[www.outpatient-spine-surgeon.com](http://www.outpatient-spine-surgeon.com)

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## PROFESSIONAL APPOINTMENTS

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

- Professor, Department of Orthopaedic Surgery
- 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**

- 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 (Podium presentation).
- 2016-Present – Rush Associates Board
- 2016 – AAOS Achievement Award, Orlando, FL
- 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. Elboghday 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. Elboghday 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. Nandyala S, Marques A, Fineberg S, Singh K, Society Minimally Invasive Spine Surgery, Las Vegas.

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- 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 Morphogenic 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 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.

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- 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

- 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

- 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.
- Minimally Invasive Spinal Surgery Instrumentation. [Singh K](#), Fessler R. Thieme 2017.

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- Orthopedic Knowledge Update 12, Section Editor Spine, 2016.

## GUEST EDITOR JOURNALS

- 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, 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)

## 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.

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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.
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.

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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.
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.

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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.
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.

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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.
47. Cervical Spondylotic Myelopathy. Siemienow K, Patel A, Singh K. *Contemporary Spine Surgery*, Vol 9(12): 2008.
48. Primary Spinal Cord Tumors: Extradural, Extra-Medullary. Munns J, Park D, Deutsch H, Singh K. *Contemporary Spine Surgery*, Vol 10(5): 1-8, 2009.
49. Primary Spine Tumors: Intradural. Munns J, Park D, Deutsch H, Singh K. *Contemporary Spine Surgery*, Vol 10(6): 1-8, 2009.
50. Percutaneous Treatment of Vertebral Compression Fractures: A Meta-Analysis. Lee MJ, Dumonski M, Cahill P, Stanley T, Park D, Singh K. *Spine* 34(11): 1228-32, 2009.
51. Rheumatoid Arthritis of the Cervical Spine. Munns J, Park D, Singh K. *Contemporary Spine Surgery* 10(12): 1-7, 2009.
52. The Role of Osteogenic Protein -1 in Spinal Fusion. Munns J, Park DK, Singh K. *Orthopedic Research and Reviews*, 1: 11-21, 2009.
53. Osseous Spinal Tumors: Malignant Neoplasms. Munns J, Park D, Singh K. *Cotemporary Spine Surgery* 10(11): 1-7. 2009.
54. Direct Lateral Approach to the Lumbar Spine: A Technical Article. *Contemporary Spine Surgery* 11(2): 1-7, 2010.
55. Spinal Metastatic Disease – Treatment Algorithms. Park D, Munns J, Hussainen O, Singh K. *Contemporary Spine Surgery*, Vol 11(1): 1-7, 2010.
56. The Relationship of Intra-Psoas Nerves during a Trans-Psoas Approach to the Lumbar Spine. Park D, Lee M, Lin E, Singh K, An HS, Phillips FM. *JSDT* 23(4): 223-8, 2010.
57. Complications of Spine Surgery: Neurodeficits of the Spinal Cord and Nerve Roots. Munns J, Park DK, Singh K, Stambough JL. *Orthopaedic Knowledge Online* 8(4):2010.
58. Lateral Lumbar Approach. Shukairy M, Siemenow K, Singh K. *Contemporary Spine Surgery*, Vol 11(2): 1-7, 2010.
59. Repeat use of rhBMP-2 for second level lumbar arthrodesis. Singh K, Stanley T, Dumonski M, Ponnappan R, Phillips FM. *Spine* 36(3): 192-6, 2010.
60. Lumbar Anular Repair for Degenerative Disc Disease. Singh K, Park D, Hoskins J. *Contemporary Spine Surgery*, Vol 11(11): 1-5, 2010.
61. Cauda Equina Syndrome: Principles of Diagnosis and Management. *Contemporary Spine Surgery*, Vol 12(7): 1-5, 2011.



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62. Basic Science Concepts Behind Minimally Disruptive Spine Surgery. *Contemporary Spine Surgery* 12(12): 1-6, 2011.
63. Diagnosis and Management of Myeloradiculopathy. Hoskins J, Smith S, Zaglama R, Shukairy M, Singh K. *Contemporary Spine Surgery*. Vol 12(1): 1-6, 2012.
64. Interspinous Process Devices for Motion Preservation and Fusion. Hoskins J, Zaglama R, Smith S, Singh K. *Contemporary Spine Surgery*. Vol 12(2): 1-5, 2012.
65. Diagnosis and Management of Sacral Fractures. Hoskins J, Lewis P, Singh K. *Contemporary Spine Surgery*. Vol 12 (9): 1-8, 2012.
66. Lumbar Extracavitary Corpectomy with a Single Stage Circumferential Arthrodesis: Surgical Technique and Clinical Series. Park D, Singh K. *AJO* 41(7): 316-320, 2012.
67. Factors Affecting Re-Operations After ACDF Within and Outside of an FDA IDE Cervical TDR Trial. Singh K, Phillips FM, Shah J, An HS, Goldberg EJ, Andersson GB. *Spine J* 12(5): 372-8, 2012.
68. Minimally Invasive Thoracolumbar Corpectomy And Reconstruction: Technique and Early Results In 25 Patients. Khan S, Cha T, Hoskins J, Pelton M, Singh K. *Orthopedics* 35(1): 74-79, 2012.
69. A Comparison of Peri-operative Costs and Outcomes in Patients With and Without Workers' Compensation Claims Treated with MIS or Open TLIF. Pelton M, Phillips FM, Singh K. *Spine* Vol 37 (22): 1914-1919, 2012.
70. Predictive Factors of Hospital Stay in Patients Undergoing Minimally Invasive Transforaminal Lumbar Interbody Fusion and Instrumentation. Siemenow K, Pelton M, Hoskins J, Singh K. *Spine* 37 (24): 2046-54, 2012.
71. Subaxial Cervical and Cervicothoracic Fixation Techniques - Indications, Techniques and Outcomes. Pelton M, Schwartz J, Singh K. *Orthopedic Clinics of North America* 43(1): 19-28, 2012.
72. Minimally Invasive Lateral Retropleural Approach for Thoracic Discectomy and Corpectomy. Fineberg S, Oglesby M, Singh K. *J Contemp Spine Surgery* 14(11): 1-8, 2013.
73. Bearing Surfaces in Spinal Arthroplasty. Fineberg S, Oglesby M, Pelton M, Singh K. *Contemporary Spine Surgery* 14(2): 1-8, 2013.
74. Graft Choices in Anterior Cervical Fusions. Fineberg S, Oglesby M, Pelton M, Singh K. *Contemporary Spine Surgery Journal* 13(12): 1-8, 2013.
75. Cauda Equina Syndrome: Diagnosis and Management. Oglesby M, Fineberg S, Patel A, Singh K. *Contemporary Spine Surgery* 14(4): 1-8, 2013.
76. Incidence and Mortality of Thromboembolic Events in Cervical Spine Surgery. Oglesby M, Fineberg S, Patel A, Pelton M, Singh K. *Spine* 38(9): E521-7, 2013.

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213. Complication Rates of Minimally Invasive Lateral Lumbar Interbody Fusion: A Systematic Review. Hijji FY, Narain AS, Bohl DD, Ahn J, Long WW, DiBattista J, Kudaravalli KT, Yom KH, [Singh K.](#) International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
214. Risk Factors for a Long Hospital Stay Following Transforaminal Lumbar Interbody Fusion. Mayo BC, Massel DM, Bohl DD, Narain AS, Hijji FY, Kudaravalli KT, Yom KH, [Singh K.](#) International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
215. The Effect of Surgeon Volume on Complications, Length of Stay and Costs following Anterior Cervical Fusion. Basques B, Louie PK, Mayo BC, Massel DM, Guzman J, Bohl DD, Narain AS, Hijji FY, [Singh K.](#) International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
216. Risk Factors Associated with Failure to Reach Minimal Clinically Important Difference in Patient Reported Outcomes Following Minimally Invasive Transforaminal Lumbar Interbody Fusion for Spondylolisthesis. Hijji FY, Narain AS, Bohl DD, Yom KH, Kudaravalli KT, [Singh K.](#) International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
217. Multimodal versus Patient Controlled Analgesia Following Transforaminal Lumbar Interbody Fusion. Bohl DD, Massel DM, Mayo BC, Louie PK, Hijji FY, Narain AS, Phillips FM, Buvanendran A, [Singh K.](#) International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
218. Ultrasonographic versus EMG Properties of the Lumbar Plexus via a Lateral Retroperitoneal Surgical Approach: A Live Human Validation Study. Nguyen T, Orndoff D, Myhre S, [Singh K.](#) Youssef J. International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
219. Narcotic Consumption Following Anterior Cervical Discectomy and Fusion: A Comparison between Hospital and Ambulatory-based Surgery Centers. Mayo BC, Bohl DD, Narain AS, Hijji FY, Kudaravalli KT, Yom KH, [Singh K.](#) International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.
220. 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.
221. Body Mass Index is Not Associated with Inpatient Pain Scores or Postoperative Narcotic Consumption following a Minimally Invasive Transforaminal Lumbar Interbody Fusion. Massel

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DM, Mayo BC, Bohl DD, Hijji FY, Narain AS, Kudaravalli KT, Yom KH, Singh K. International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.

222. The Effect of Smoking Status on Inpatient Pain Scores Following Transforaminal Lumbar Interbody Fusion. Hijji FY, Narain AS, Mayo BC, Massel DM, Yom KH, Kudaravalli KT, Singh K. International Society for the Advancement of Spine Surgery. Boca Raton, FL. 2017 Apr 12-14.

## **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)

## **PRINCIPAL INVESTIGATOR IDE TRIALS**

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

## **INVITED VISITING PROFESSOR LECTURSHIPS**

- University of Florida – “Complications of MIS Spinal Surgery”. Jun 10-11<sup>th</sup>, 2010, Gainesville, FL.
- M.S. Ramaiah Learning Center, Bangalore, India – MIS TLIF: The Surgical Learning Curve, 2010.
- Columbia University, NY – “MIS Spine Surgery: The Good, the Bad, the Ugly”. May 24, 2012.
- 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 Japan National Meeting - “MIS Spine Surgery: The American Perspective”, Tokyo, Japan, 2016.

## **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 Program Committee (2014-19)
    - Critical Evaluator (2015-19)

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- Moderator, Thoracolumbar Deformity (2016)
  - Spine Program Committee Chairman AAOS National Meeting (2017-2020)
  - Liason Spine Content 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)
- Society Minimally Invasive Spine Surgery (SMISS)
  - Program Committee (2014-Present)
  - Co-Chair, Spine Week Singapore, 2016
- 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)
  - 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

- Midwest Orthopaedics at Rush Executive Committee (2008-Present)
- Board Member, OrthoCentrix Solutions (2014-2015)
- Marketing Committee MOR (2007-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.
- 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
- NASS – Annual Meeting, Program Committee – Abstract Reviewer, Chicago, 2015.
- LSRS – Moderator, Instructional Course Lecture – Degenerative Scoliosis – Chicago, 2015.

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- 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)
- *Editor* - Jefferson Medical College Class of 1999 Yearbook
- Jeff HOPE - Medical care to Philadelphia's homeless (1995-1999)

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- *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)