

Kern Singh, M.D.

1611 W Harrison Pkwy
Chicago, IL 60612

kern.singh@rushortho.com

PROFESSIONAL APPOINTMENTS

Rush University Medical Center – Chicago, IL 2005 – Present

- Assistant Professor of Orthopaedic Surgery
- Board Certified Orthopedic Surgeon (2007-Present)

EDUCATION

Emory University – Atlanta, GA 2004-2005

- Fellowship - Orthopaedic 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
- *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

- 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 2008, Toronto, CA.
- Alternate, North American Traveling Fellowship (February 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, 2007, Atlantis, Bahamas.
- The Spine Journal Outstanding Paper Award 2004 [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, 2005. (*In Press*)
- *First Place Resident Award 2005 - 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.
- *Finalist* –Basic Science Category, SMITH AND NEPHEW NATIONAL RESIDENT RESEARCH COMPETITION, 2004, 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.
- *2nd Place* – Basic Science Category, MIDWEST ORTHOPEDIC RESEARCH EDUCATIONAL FOUNDATION, Chicago, IL 2004. *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.

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- *2nd Place* – Basic Science Category. RUSH SURGICAL SOCIETY, Chicago, IL, 2004. *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.
- *Best Paper* - SENIOR THESIS DAY, DEPARTMENT OF ORTHOPAEDIC SURGERY - RUMC, Chicago, IL, June 2003. A Biomechanical Comparison of Spinal Instrumentation Following Multi-level Corpectomy of the Cervical Spine.
- *1st Place* -13TH ANNUAL RUSH SURGICAL SOCIETY UNIVERSITY, Chicago, IL 2003. A Biomechanical Comparison of Spinal Instrumentation Following Multi-level Corpectomy of the Cervical Spine.
- Educational Grant – 3RD ANNUAL CERVICAL SPINE STUDY GROUP, Col Springs, CO 2003.
- Educational Grant – AVENTIS ORTHOPEDIC RESIDENT SCHOLARSHIP, AAOS National Meeting, Dallas, TX 2002.
- PILLSBURY RESIDENT ACADEMIC SCHOLARSHIP (2002-2004)

Jefferson Medical College

- ALPHA OMEGA ALPHA (Junior Year) (1998)
- APC (AMERICAN PATHOLOGY CHAIRS) NATIONAL HONOR SOCIETY (1997)
 - Selected for the 4th Annual National Pathology Symposium, Chicago, IL.
- HOBART AMORY HARE INTERNAL MEDICINE HONOR SOCIETY (1997)
 - CPC (Clinical Pathologic Case) Medicine Grand Rounds – May 1998
- JEFFERSON MEDICAL COLLEGE LAVINE STUDENT RESEARCH SCHOLARSHIP (1996)
- HONORS IN MEDICAL PATHOLOGY (Top 5%) (1997)
- HONORS IN MEDICAL PHARMACOLOGY (Top 5%) (1996)

Pennsylvania State University

- Golden Key National Honor Society (1993)
- ALPHA EPSILON DELTA - NATIONAL PREMEDICAL HONOR SOCIETY (1993)
- SEMI-FINALIST -PRESIDENTIAL SCHOLARS PROGRAM (1994)
- EBERLY COLLEGE OF SCIENCE SCHOLAR-Penn State (5 of 5 Semesters)
- DEAN'S LIST - Penn State (3 of 4 Semesters)
- PENN STATE ALUMNI SCHOLARSHIP – Colorado Chapter (1992)
- National Honor Society (1992)

PROFESSIONAL ORGANIZATIONS

- North American Spine Society (2006-Present)
 - Young Spine Surgeons Forum Executive Committee Member (2008-Present)
- Fellow – American Academy of Orthopedic Surgeons (2007-Present)
- Spine Arthroplasty Society – Program Committee, London 2009
- Candidate Member – Scoliosis Research Society (2008-Present)
- *President* - AMSA Surgical Observation committee (1999)
- Rush Surgical Society Council Member (2008-Present)
- American Medical Student Association (1995-1999)
- American Medical Association (1995-Present)
- Chicago Orthopedic Society (1999-Present)
- Atlanta Orthopedic Society (2004-Present)

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PUBLISHED ARTICLES

1. Complications of Closed Skeletal Reduction. Singh K, Vaccaro AR, Shakil MS, Cotler JM. SEMINARS IN SPINE SURGERY, Vol. 10 (3): 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, Vol. 11 (5):410-15, 1998.
3. Computer-Assisted Image Guided Surgery: Application in Cervical Spine Surgery. Singh K, Vaccaro AR. CURRENT OPINION IN ORTHOPEDICS, Vol 12:245-250, 2001.
4. Long Structural Allografts in the Treatment of Anterior Spinal Column Defects. Singh K, DeWald CJ, Hammerberg KW, DeWald RL. CLIN ORTHO REL RES: 121-129, 2002.
5. Cervico-Thoracic Junction Approach. Singh K, Albert TJ. Sasso R (Ed) In TECHNIQUES IN ORTHOPAEDICS, Vol 17: p365-373, 2002.
6. 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.
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. 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.
9. The Surgical Management of Thoracolumbar Injuries. Singh K, Vaccaro AR, Eichenbaum MD, Fitzhenry LN. J OF SPINAL CORD MEDICINE 27(2) 95-101, 2004.
10. 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.
11. Animal Models for Human Disk Degeneration. Singh K, Masuda K, An HS. SPINE J (Special Focus: Biologics in Spine Surgery, Eds: An HS, Phillips FM), Dec 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), Elsevier, 2004.

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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. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. Surgical Management of Metastatic Spinal Disease. Singh K, Heller JG. Contemporary Spine Surgery, Vol 6(1):2005.
21. Post-Operative Spinal Infections. Singh K, Heller JG. Contemporary Spine Surgery, Vol 6(9):2005.
22. Post-Operative Spinal Infections. Singh K, Heller JG. Eds. Dorman, T. Contemporary Critical Care 3(8): 1-10, 2006.
23. Current Concepts in the Management of Metastatic Spinal Disease. Singh K, Vaccaro AR, Heller JG. JBJS [Br] 88(4):434-442, 2006.
24. Open 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.
25. The Biomechanics and Biology of the Spinal Degenerative Cascade. Singh K, Phillips FM. Sem Spine Surgery 17(3): 2005.
26. Soft-Tissue Reconstruction in the Setting of Complex Spinal Defects. Singh K, Samartzis D, Heller JG, An HS, Vaccaro AR. JBJS [Br] 88(1): 8-15, 2005.
27. *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.

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28. 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.
29. Intradiscal Therapy: A Review of Current Treatment Modalities. Singh K, Carl AL. Spine 30(17S): S20-6, 2005.
30. 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.
31. 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.
32. Treatment of Lumbar Instability: Transforaminal Lumbar Instability. Singh K, Vaccaro AR. Sem in Spine Surgery 17(4):259-266, 2005.
33. Motion Preservation Technologies: Alternatives to Spinal Fusion. Singh K, An HS. AJO 35(9): 411-417, 2006.
34. 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.
35. Lumbar Spinal Stenosis: Surgical Management and Operative Techniques. Singh K, Samartzis D, Biyani A, An HS. JAAOS, 16(3):171-6, 2008.
36. Kyphoplasty and Functional Outcomes in patients with Osteoporotic Fractures. Singh K, Andersson GB. Nat Clin Pract Rheum 2(10): 532-3, 2006.
37. 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.
38. 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.
39. Evaluation of Back Pain Monograph. Park D, Singh K, An HS. BMJ Monograph, Epocrates Online, BMJ Publishing Group 2008.
40. Percutaneous Treatment of Vertebral Compression Fractures: A Meta-Analysis of Complications. Lee M, Cahill P, Singh K, et al. Spine J 2009 (Accepted).
41. Myelopathy with 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.

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42. Quantification of 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.
43. Recombinant Human Bone Morphogenetic Protein-2 in the treatment of bone fractures. Ghodadra N, Singh K. Biologics: Targets and Therapy, 2(3): 2009.
44. Peri-Operative Complications in Lumbar Spine Surgery. Park D, Khurana N, Ellman M, Singh K. J. Contemporary Spine Surgery, 10(3): 2009.
45. Factors Affecting Re-Operations After ACDF Within and Outside of an FDA IDE Cervical TDR Trial. Phillips FM, Singh K, Shah J, An HS, Goldberg EJ, Andersson GB. Spine 2009 (In Review).
46. Cervical Spondylotic Myelopathy. Siemienow K, Patel A, Singh K. Contemporary Spine Surgery, Vol 9(12): 2008.
47. Primary Spine Tumors: Part I. Munns J, Park D, Deutsch H, Singh K. Contemporary Spine Surgery, Vol: 2009.
48. Primary Spine Tumors: Part II. Munns J, Park D, Deutsch H, Singh K. Contemporary Spine Surgery, Vol: 2009
49. Percutaneous Treatment of Vertebral Compression Fractures: A Meta-Analysis. Lee MJ, Dumonski M, Cahill P, Stanley T, Park D, Singh K. Spine 34(11): 2009.
50. 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, 2009.
51. White AP, Whang P, Patel A, Singh K, Vaccaro AR. Actifuse – A silicated substituted calcium phosphate bone graft for spinal fusion. Spine, 2009.
52. The Role of Osteogenic Protein -1 in Spinal Fusion. Munns J, Park DK, Singh K. Orthopedic Research and Reviews, Dove Medical Press, Oct 2009.
53. Primary Osseous Spine Tumors: Benign Neoplasms. Munns J, Park D, Singh K. Contemporary Spine Surgery, Vol: 2009.
54. Primary Osseous Spine Tumors: Malignant Neoplasms. Munns J, Park D, Singh K. Contemporary Spine Surgery, Vol: 2009.
55. Spinal Metastatic Disease – Treatment Algorithms. Park D, Munns J, Hussainen O, Singh K. Contemporary Spine Surgery, Vol: 2009.

PUBLISHED CHAPTERS

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Chicago, IL 60612

kern.singh@rushortho.com

1. The Role of Anterior Column Reconstruction in Revision Surgery for Cervical Degenerative Spinal Disorders - Vaccaro AR, [Singh K](#). Devlin, V (Ed) IN SPINE: STATE OF THE ART REVIEWS - Vol. 12 (3): 1998, Hanley & Belfus.
2. Cervical Spine Instrumentation in Trauma - Vaccaro AR, [Singh K](#). An HS, Cotler J (Eds) In SPINAL INSTRUMENTATION, Williams and Wilkins, 1998.
3. Spinal Meningeal or Perineural Cysts - Vaccaro AR, [Singh K](#), Donohue JC. Vaccaro AR, Albert TJ (Eds) In MASTERCASES IN SPINE SURGERY, Thieme, 2001.
4. The Value of Surgical Intervention in Spinal Trauma. [Singh K](#), Erdos J, Sah A, Vaccaro AR. Benzel E (Ed) SPINAL SURGERY: TECHNIQUES, COMPLICATION AVOIDANCE AND MANAGEMENT, 2nd Ed, Harcourt Press, 2002.
5. Minimally Invasive Spine Surgery – FluroNav. [Singh K](#), Vaccaro AR. Browner B (Ed) In TECHNIQUES IN ORTHOPEDICS, LWW, 2002.
6. Computer Assisted Image Guided Surgery in Cervical Spine Surgery. [Singh K](#), Vaccaro, A.R. OPERATIVE TECHNIQUES IN ORTHOPAEDICS. Sasso, R. (Ed) 2002.
7. Posterior Wiring Techniques of the Spine. Vaccaro AR, [Singh K](#). Merola, Hayer (Eds) Thieme Pub. London, England, 2003.
8. Anterior Cervico-Thoracic Junction Approach. Albert TJ, [Singh K](#), Berta SC, Albert TJ. Bradford D, Zdeblick T (Eds) In MASTER TECHNIQUES IN SPINE SURGERY Vol. II, LWW, 2003.
9. Minimally Invasive Approaches to the Lumbar Spine. [Singh K](#), Thalgott J, Giuffre R, Regan, J. Vaccaro AR, Betz R, Zeidman S (Eds) In PRINCIPLES AND PRACTICE OF SPINE SURGERY, p 275-282, Mosby, 2003.
10. Thoracic and Lumbar Trauma. [Singh K](#), Vaccaro AR. Bono CM, Garfin SR (Eds) ESSENTIALS IN ORTHOPAEDICS: SPINE, Williams & Wilkins, 2003.
11. Surgical Approaches to the Cervical Spine. [Singh K](#), Vaccaro AR. Devlin V (Ed) In SPINE SECRETS, Harcourt Press, 2003.
12. Cervical Spinal Implants. [Singh K](#), Vaccaro AR. Devlin V (Ed) In SPINE SECRETS, Harcourt Press, 2003.
13. Craniocervical injuries: Jefferson fracture, Hangman’s fracture, Odontoid fracture. [Singh K](#), Vaccaro AR. In Johnson TR, Steinbach LS (Eds): ESSENTIALS OF MUSCULOSKELETAL IMAGING, AAOS, 2003.
14. Thoracic and Lumbar Spine Trauma. SINGH K, Vaccaro AR. Vaccaro (Ed): IN CORE KNOWLEDGE IN ORTHOPAEDICS: SPINE, Elsevier 2005.
15. The Management of Thoracolumbar Trauma, the Anterior Approach. [Singh K](#), Eichenbaum MD, Fitzhenry LN, Vaccaro AR. Ed: Reitman, Charles. AAOS MONOGRAPH SERIES, 2004.

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16. The Value of Surgical Intervention in Spinal Trauma. Singh K, Erdos J, Sah A, Vaccaro AR, Mclain RF. TEXTBOOK OF NEUROSURGERY, Lippincott-Raven, 2004.
17. Frameless Stereotactic Techniques in Minimally Invasive Spine Surgery. Singh K, Vaccaro AR. In Kambin P (2nd Ed): ARTHROSCOPIC AND ENDOSCOPIC SPINAL SURGERY: TEXT AND ATLAS, Humana Press, 2005.
18. Surgical Approaches to the Spine. SINGH K, Vaccaro AR. Vaccaro (Ed): IN CORE KNOWLEDGE IN ORTHOPAEDICS: SPINE, Elsevier 2005.
19. Approaches to the Spine. Singh K, Vaccaro AR, An HS, Bono CM, Garfin SR (Eds) – In SPINE: ORTHOPEDIC SURGERY ESSENTIALS, LWW, 2004.
20. Vertebral Artery Injuries in the Setting of Cervical Spine Trauma. Vaccaro AR, Singh K. Rothman RH, Simeone FA (Eds) In THE SPINE, 5th Ed, WB Saunders, 2005.
21. Thoracolumbar Spinal Injuries. Singh K, Vaccaro AR. Rothman RH, Simeone FA (Eds) In THE SPINE, 5th Ed, WB Saunders, 2005.
22. Post-Operative Spinal Infections. Singh K, Heller JG. Rothman RH, Simeone FA (Eds) In THE SPINE, 5th Ed, WB Saunders, 2005.
23. Altius Occipital-Cervico Thoracic Posterior Fixation. Singh K, Brown D, Fiscaro M, Day T, Vaccaro AR. In Kim DH, Vaccaro AR, Fessler R (Eds) SPINAL INSTRUMENTATION: SURGICAL TECHNIQUES, Thieme, 2005.
24. Reflex Anterior Cervical Plate. Singh K, Ponnappan RK, Brown D, Fiscaro M, Saxena A, Vaccaro AR. In Kim DH, Vaccaro AR, Fessler R (Eds). SPINAL INSTRUMENTATION: SURGICAL TECHNIQUES, Thieme, 2005.
25. Bioresorbable Cervical Plates for Anterior Cervical Fusion. Singh K, Brown D, Fiscaro M, Vaccaro AR. In Kim DH, Vaccaro AR, Fessler R. SPINAL INSTRUMENTATION: SURGICAL TECHNIQUES, Thieme, 2005.
26. Prevention and Treatment of Post-Traumatic Deformity of the Thoracolumbar Spine. Nassr A, Singh K, Wimberly D, Vaccaro AR. In Albert TJ, Heary R (Eds) SPINAL DEFORMITIES: THE ESSENTIALS, Thieme, 2006.
27. The Management of Complications Associated with the Treatment of Post-Traumatic Deformities. Singh K, Vaccaro AR, Di Martino A, Pahl M. In An HS, Jenis L (Eds): SPINE SURGERY COMPLICATIONS, Mosby, 2005.
28. Thoracic and Lumbar Spinal Trauma. Singh K, Saxena A, Vaccaro. In Vaccaro (Ed): CORE KNOWLEDGE IN ORTHOPAEDICS, Elsevier 2005.
29. Surgical Approaches to the Spine. Singh K, An H. In Vaccaro (Ed): CORE KNOWLEDGE IN ORTHOPAEDICS, Elsevier 2005.

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kern.singh@rushortho.com

30. Dynamic Intervertebral Assisted Motion Device. Singh K, Phillips FM. In Kim DH, Cammissa FP, Fessler RG. Dynamic Reconstruction of the Spine, 2005.
31. Lumbar Anular Repair and Intradiscal Treatment for Degenerative Disk Disease. Singh K, Andersson GB. In Vaccaro AR, Papadopoulos S, Traynelis V, Haid R (Eds). Spinal Arthroplasty: The Preservation of Motion, Elsevier 2006.
32. Flexion-Distracton Injuries of the Thoracolumbar Spine. Samartzis D, Singh K, Kim D, Ludwig S, Vaccaro AR (Eds). Pediatric and Adult Spine Trauma, Elsevier, 2006.
33. ACDF and Foraminotomy. Singh K. In Vaccaro AR, Albert TJ (Eds). Spinal Surgery: Tricks of the Trade – 2nd edition, Thieme, 2006.
34. DIAM/Wallis. Singh K, Phillips FM. In Vaccaro AR, Albert TJ (Eds). Spinal Surgery: Tricks of the Trade – 2nd edition, Thieme, 2006.
35. Percutaneous Nuclear Replacement. Singh K, Vaccaro AR. In Vaccaro AR and Bono CM (Eds). Minimally Invasive Spinal Surgery, Techset Composition Limited, 2007.
36. Spine Biomechanics: Understanding Motion Sparing Technology. Singh K, Vaccaro, AR. In Vaccaro AR, Papadopoulos S, Traynelis V, Haid R (Eds). Spinal Arthroplasty: The Preservation of Motion, Elsevier 2006.
37. Low Back Pain: Neuroepidemiology. Singh K, Andersson GBJ. In (Eds) Feigin VL, Bennett DA. Handbook of Clinical Neuroepidemiology, Nova Science Publishers, Nova Publishers 2007.
38. Radiographic Imaging in Spinal Arthroplasty. Singh K. In Vaccaro AR, Papadopoulos S, Traynelis V, Haid R, Sasso R (Eds). Spinal Arthroplasty with DVD: The Preservation of Motion, Elsevier 2007.
39. Multilevel Cervical Spondylosis: Posterior Approach. Shibayama J, Singh K, An HS. In Albert, Lee J, Lim M (Eds). Cervical Spine Surgery Challenges, Theime, 2007.
40. Cervical Spine: Lateral Mass Screw Fixation. Singh K, An HS. In Vaccaro AR (Ed). Atlas of Operative Techniques: Spine Surgery, Saunders, 2007.
41. Anterior Resection of Ossification of the Posterior Longitudinal Ligament. Singh K, Patel A, Vaccaro AR. In Vaccaro AR (Ed). Atlas of Operative Techniques: Spine Surgery, Saunders, 2007.
42. Singh K, Yakel, DM, Wojewnik, B, Vaccaro AR, Ohnmeiss, DD, Blumenthal SL. Lumbar Spine Arthroplasty: Charite Total Disk Replacement in Vaccaro, AR, Baron, EM Atlas of Spinal Surgery. Elsevier Medical Publishing, Philadelphia. 2007
43. Intervertebral Disc Degeneration. Anderson, DG, Singh K, Cahill P, Lee M. Orthopedic Knowledge Update 9 (Ed. Fischgrund), AAOS 2008.

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kern.singh@rushortho.com

44. Animal Models for Human Disk Degeneration. Singh K, Masuda K, An HS. In Motion Preservation Surgery of the Spine: Advanced Techniques and Controversies. (Eds Yue J, Bertagnoli R, McAfee P, An HS), Elsevier 2008.
45. Musculoskeletal Radiology. Singh K, Singh K, Helms C, An HS. Orthopedic Knowledge Update 9 (Ed. Fischgrund), AAOS 2008.
46. Spinal Cord Injury: Rehabilitation and Prognosis. Stanley T, Wojenik B, Vaccaro AR, Singh K. Neurotrauma and Critical Care (Ed Jallo J, Vaccaro AR), Thieme, 2008.
47. Iliac Crest Bone Graft. Lee M, Stanley T, Dumonski M, Cahill P, Singh K. Operative Techniques in Orthopedic Surgery, LWW 2009.
48. Thoracolumbar Approach. Stanley T, Lee M, Singh K. Operative Techniques in Orthopedic Surgery, LWW 2009.
49. Thoracolumbar Instrumentation. Dumonski M, Lee M, Stanley T, Singh K. Operative Techniques in Orthopedic Surgery, LWW 2009.
50. Bioresorbable Implants: Cervical Spine. Dumonski M, Singh K, Vaccaro AR. Degradable Polymers for Skeletal Implants. (Ed. Wuisman P, Smit T), NovaScience, 2009.
51. Biomaterials. Singh K. Orthopedic Board Review Book, AAOS, 2009.
52. Degenerative Cascade Revisited. Singh K, Park D, Phillips FM. Lumbar Intervertebral Disc (Eds Phillips, Laurysen). Thieme 2009.
53. Rheumatoid Arthritis: Cervical Spine. Park D, Singh K, An HS. 2009
54. The Future: Disc Regeneration and other Technologies. Park D, Ellman M, Singh K, An HS. Textbook of Operative Spinal Surgery, 3ed (Eds Bridwell K), LWW 2009.
55. Thoracolumbar Posterolateral Fusion Techniques: Pedicle Screw Instrumentation. Singh K, SpineFellows.com Interactive Education Program, Magnifi, 2008.
56. Cervical Spinal Implants. Singh K, Munns, J, Vaccaro AR. Devlin V (Ed) In SPINE SECRETS, Harcourt Press, 2010.
57. Cervical Exposures. Singh K, Park D, Munns, J, Park D, Vaccaro AR. Devlin V (Ed) In SPINE SECRETS, Harcourt Press, 2010.
58. Extracavitary Thoracic and Lumbar Corpectomy. Patel V, Brown C (Ed) In Spine Trauma Surgical Technique, Springer 2010.
59. Neurodeficits in Spinal Cord Injury. Orthopedic Knowledge Online 2009. Munns J, Park D, Singh K, Stambough JL, 2009.

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kern.singh@rushortho.com

POSTER PRESENTATIONS – NATIONAL / INTERNATIONAL

- 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. CERVICAL SPINE RESEARCH SOCIETY 2002, Miami Beach, FL.
- 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. CERVICAL SPINE RESEARCH SOCIETY 2002, Miami Beach, FL.
- Disc Degeneration and Morphologic Changes in the Intervertebral Foramen of the Cervical Spine: A Cadaveric Magnetic Resonance Imaging (MRI) and Computed Tomography (CT) Study. Singh K, You J, Fujiwara A, An HS. CERVICAL SPINE RESEARCH SOCIETY 2003, Scottsdale, AZ.
- Prospective, Randomized, Double Blind Study Of Local Anesthetic Infusion At The ICBG Site. Singh K, Manning D, Samartzis D, Hupp M, Wetzel T, Phillips FM, AMERICAN ACADEMY OF ORTHOPEDIC SURGEONS, 2005, Washington, DC.
- In Vitro Formation Of Tissue-Engineered Cartilage By Expanded Osteoarthritic Human Chondrocytes. Singh K, Ponnappan RK, Cs-Szabo G, An HS, Nakagawa K, Akeda K, Miyamoto K, Thonar E, Masuda K, MD. AMERICAN ACADEMY OF ORTHOPEDIC SURGEONS 2005, Washington, DC.
- A prospective cohort analyses of adjacent vertebral body bone mineral density in lumbar surgery patients with or without instrumented posterolateral fusion: A 9-12 year follow-up. Singh K, An HS, Samartzis D, Nassr A, Provus J, Hickey M, Andersson G. INTERNATIONAL SOCIETY OF LUMBAR SPINE SURGERY, 2005, New York, NY.
- Congenital lumbar spinal stenosis: A prospective, controlled, matched cohort radiographic analyses. Singh K, Samartzis D, Andersson G, Yoon T, Nassr A, Phillips F, Goldberg E, An H. INTERNATIONAL SOCIETY OF LUMBAR SPINE SURGERY, 2005, New York, NY.
- A prospective cohort analyses of adjacent vertebral body bone mineral density in lumbar surgery patients with or without instrumented posterolateral fusion: A 9-12 year follow-up. Singh K, An HS, Samartzis D, Nassr A, Provus J, Hickey M, Andersson G. WORLD SPINE III: AN INTERDISCIPLINARY CONGRESS ON SPINE CARE, 2005, Rio de Janeiro, Brazil.
- Congenital lumbar spinal stenosis: A prospective, controlled, matched cohort radiographic analyses. Singh K, Samartzis D, Andersson G, Yoon T, Nassr A, Phillips F, Goldberg E, An H. WORLD SPINE III: AN INTERDISCIPLINARY CONGRESS ON SPINE CARE, 2005, Rio de Janeiro, Brazil.
- 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. NORTH AMERICAN SPINE SOCIETY, 2005, Philadelphia.

Kern Singh, M.D.

1611 W Harrison Pkwy
Chicago, IL 60612

kern.singh@rushortho.com

- Prospective, Randomized, Double Blind Study Of Local Anesthetic Infusion At The ICBG Site. Singh K, Manning D, Samartzis D, Hupp M, Wetzel T, Phillips FM, NORTH AMERICAN SPINE SOCIETY, 2005, Philadelphia, PA.
- 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. CERVICAL SPINE RESEARCH SOCIETY, 2005, San Diego, CA.
- Recombinant BMP-2 can overcome the inhibitory effect of adriamycin in posterolateral fusions in a rabbit model. Singh K, Smucker JD, Ugbo JL, Tortolani PJ, Rumi M, Heller JG, Boden SD, Yoon ST. CERVICAL SPINE RESEARCH SOCIETY, 2005, San Diego, CA.
- Recombinant BMP-2 can overcome the inhibitory effect of adriamycin in posterolateral fusions in a rabbit model. Singh K, Smucker JD, Ugbo JL, Tortolani PJ, Rumi M, Heller JG, Boden SD, Yoon ST. AMERICAN ORTHOPAEDIC ASSOCIATION, 2006, Anaheim, CA.
- 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. ISSLS, 2006, Norway.
- Open cement augmentation and lumbar decompression for the operative management of thoracolumbar stenosis secondary to osteoporotic burst fractures. Singh K, Heller JG, Samartzis D, Price S, An HS, Rhee J, Yoon ST, Phillips FM. NORTH AMERICAN SPINE SOCIETY, 2006, Norway.
- 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, 2007, Atlantis, Bahamas.
- Quantification of Age-related changes of extracellular matrix proteins in the nucleus pulposus and annulus fibrosus of the human intervertebral disc. Singh K, Masuda KM, Thonar E, An HS, Cs-Szabo G. ORS 2007, San Francisco 2007.
- 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: A Minimum of Four-year Follow-up. Singh K, Phillips FM. CERVICAL SPINE RESEARCH SOCIETY, Dec 2007, San Francisco, CA.
- E-Poster: Lumbar Extracavitary Corpectomy: Surgical Technique and Case Series. Singh K, Park D, Munns J, An HS. IMAST, Jul 2009, Vienna, Austria.

POSTER PRESENTATIONS – REGIONAL/LOCAL

- *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. MIDWEST ORTHOPEDIC RESEARCH EDUCATIONAL FOUNDATION 2004, Chicago, IL.

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Chicago, IL 60612

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- *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. RUSH SURGICAL SOCIETY, 2004, Chicago, IL.

SCIENTIFIC PRESENTATIONS – NATIONAL/INTERNATIONAL

- 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.
- *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.
- 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.
- The Management of Recurrent Spinal Metastasis. Heller JG, Singh K. 9TH INTERNATIONAL ARGOS SYMPOSIUM – PITFALLS IN SPINAL METASTASIS, 2005, Paris, France.
- Early versus Late Management of Spinal Metastases. Heller JG, Singh K. 9th INTERNATIONAL ARGOS SYMPOSIUM – PITFALLS IN SPINAL METASTASIS, 2005, Paris, France.
- 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.
- Vertebral Body Augmentation: Cements and Resorbables. Singh K, SPINE TECHNOLOGY EDUCATION GROUP – 2ND ANNUAL SYMPOSIUM, July 2005, Cabo San Lucas, Mexico.
- 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.
- 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.

Kern Singh, M.D.

1611 W Harrison Pkwy
Chicago, IL 60612

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- A Prospective Cohort Analyses of Adjacent Vertebral Body Bone Mineral Density in Lumbar Surgery Patients With or Without Instrumented Posterolateral Fusion: A 9-12 Year Follow-up. Singh K, An HS, Samartzis D, Nassr A, Provus J, Hickey M, Andersson G. NORTH AMERICAN SPINE SOCIETY, 2005, Philadelphia.
- Cement Augmentation and Lumbar Decompression for the Operative Management of Thoracolumbar Stenosis Secondary to Osteoporotic Burst Fractures. Singh K, Heller JG, Samartzis D, Price S, An HS, Rhee J, Yoon ST, Phillips FM. NORTH AMERICAN SPINE SOCIETY, 2005, Philadelphia.
- Postoperative Airway or Swallowing Disturbance Associated with the Use of rhBMP-2 in the Anterior Cervical Spine. Smucker J, Singh K, Yoon ST, Heller JG, Rhee J. NORTH AMERICAN SPINE SOCIETY, 2005, Philadelphia.
- 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. SCOLIOSIS RESEARCH SOCIETY, 2005, Miami, FL.
- A prospective cohort analyses of adjacent vertebral body bone mineral density in lumbar surgery patients with or without instrumented posterolateral fusion: A 9-12 year follow-up. Singh K, An HS, Samartzis D, Nassr A, Provus J, Hickey M, Andersson G. SCOLIOSIS RESEARCH SOCIETY, 2005, Miami, FL.
- Increased postoperative airway or swallowing complications associated with the use of rhBMP-2 in anterior cervical fusions. Smucker JD, Rhee JM, Singh K, Yoon ST, Heller JG. CERVICAL SPINE RESEARCH SOCIETY, San Diego, CA 2005.
- Use of rhBMP-2 as an adjunct in posterolateral lumbar spine fusion. Singh K, Smucker JD, Boden SD. American Academy of Orthopedic Surgeons, 73rd annual meeting, Chicago, IL 2006.
- The use of rhBMP-2 in posterolateral spinal fusion can overcome inhibition of fusion by doxorubicin in a rabbit model. Singh K, Smucker JD, Ugbo JL, Tsai L, Boden SD, Yoon ST. ISSLS, 2006, Norway.
- Spinal Deformity and Neoplastic Processes. Moderator. Singh K. Spine Across the Sea, 2006, Maui, Hawaii
- Modern Laminoplasty Techniques. Surgical Symposium. Singh K. Spine Across the Sea, 2006, Maui, Hawaii.
- Quantification of Extracellular Matrix Proteins in the Nucleus Pulposus and Anulus Fibrosus of the Human Intervertebral Disc: Variation with Aging. Orthopedic Research Society, 2007 San Diego, CA.
- 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. SCOLIOSIS RESEARCH SOCIETY, 2007, Edinburgh, Scotland.

Kern Singh, M.D.

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Chicago, IL 60612

kern.singh@rushortho.com

- 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. NORTH AMERICAN SPINE SOCIETY, 2007, Austin, TX.
- A Comparison of Complications from Vertebroplasty and Kyphoplasty: a Meta-Analysis of 124 Studies. Lee MJ, Singh K. NORTH AMERICAN SPINE SOCIETY, 2007, Austin, TX.
- Repeat arthrodesis with rhBMP-2 at an adjacent spinal level: An assessment of efficacy and immunologic response. Singh K, Stanley T, Dumonski M, Phillips FM. CERVICAL SPINE RESEARCH SOCIETY, Dec 2007, San Francisco, CA.
- Factors Affecting Re-operations after ACDF within and outside of an FDA IDE Cervical TDR. Phillips FM, Singh K, An HS, Goldberg EJ. CERVICAL SPINE RESEARCH SOCIETY, Dec 2007, San Francisco, CA
- Current Concepts in Minimally Invasive Spine Surgery in the Setting of Metastatic Spinal Disease. Singh K. ASSICON (Association of Spine Surgeons of India), Jan 2009, Chennai, India.
- MIS Surgery in the Setting of DDD. Singh K. ASSICON (Association of Spine Surgeons of India), Jan 2009, Chennai, India.
- Lumbar Extracavitary Corpectomy: Surgical Technique and Case Series. Singh K, Park D, Munns J, An HS. Lumbar Spine Research Society, Apr 2009, Chicago, IL.

SCIENTIFIC PRESENTATIONS – REGIONAL/LOCAL

- 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.
- 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
- 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.
- 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.
- 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.
- Cervical Spine Trauma: Current Concepts. Singh K. Stryker Resident Trauma Symposium, 2006, Chicago, IL.

Kern Singh, M.D.

1611 W Harrison Pkwy
Chicago, IL 60612

kern.singh@rushortho.com

RESEARCH GRANTS

- Phillips FM, Singh K. Repeat use of rhBMP-2 at an adjacent lumbar level: An assessment of efficacy and immunologic response. \$50,000 Medtronic Sofamor Danek, September 2005.

PRINCIPAL INVESTIGATOR IDE TRIALS

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

EDITOR TEXTBOOK

- Synopsis of Spine Surgery. An HS, Singh K, Thieme, 2007.
- Curbside Consults in Spinal Surgery. Singh K, Slack, 2007.
- Pocket Atlas of Spine Surgery. Singh K, An HS, Thieme, 2009.
- Surgical Video Atlas. Phillips FM, Singh K. AAOS 2009

JOURNALS

- Associate Editor, Journal of Contemporary Spine Surgery (2008-Present)
- Editor, American Journal of Orthopedics (2006-Present)
- Reviewer, Journal of the American Academy of Orthopedic Surgeons (2008-Present)
- Reviewer, Clinical Orthopedics and Related Research (2006-Present)

MEDICAL ADVISORY BOARDS

- Medical Advisory Board – Kyphon KAVIAR Study [8/2006-Present]

COMMITTEES

- Midwest Orthopaedics at Rush Executive Committee (2008-Present)
- Rush Surgical Society (2006-Present)
 - Rush Residency Research Selection Committee

FACULTY COURSES

- Emerging Technologies, Steamboat, CO 2009
- Young Spine Surgeons Symposium, Toronto, CA – NASS 2008
- Spine Technology Education Group, Cabo San Lucas 2005
- Spine Technology Education Group, Cabo San Lucas 2006
- Spine Technology Education Group, Cabo San Lucas 2007
- Spine Technology Education Group, Cabo San Lucas 2008
- Spine Technology Education Group, Phoenix, AZ 2009
- Stryker Posterior Cervical Course, Ft. Lauderdale, FL, November 2006.
- Spine Study Group, West Palm Beach, FL, May 2006.
- Spine Study Group, West Palm Beach, FL, May 2007.
- Spine Study Group, West Palm Beach, FL, May 2008.
- AAOS, Current Techniques in Spine Surgery, Chicago, IL, November 2006.

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Chicago, IL 60612

kern.singh@rushortho.com

- AAOS, Current Techniques in Spine Surgery, Chicago, IL, November 2007.
- AAOS, Current Techniques in Spine Surgery, Chicago, IL, September 2008.
- 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.

INDUSTRY FACULTY COURSES

- Stryker Posterior Cervical Course, Ft. Lauderdale, FL, November 2006.
- Stryker Posterior Cervical Course, Ft. Lauderdale, FL, November 2009.
- Stryker, Young Lions Symposium, Las Vegas, NV 2006.
- Stryker, Chairman, Young Lions Symposium, Las Vegas, NV 2007.
- Stryker, Young Lions Symposium, Las Vegas, NV 2008.
- Stryker, Young Lions Symposium, Las Vegas, NV 20089.
- Stryker, Fellows Boot Camp, Las Vegas, NV 2006.
- Stryker, Fellows Boot Camp, Las Vegas, NV 2007.
- 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.
- Stryker, Aging Spine Course, Ft. Lauderdale, FL, 2008.
- Stryker, TRACS Committee Member, 2006-Present
- Depuy, Fellows Cadaver Course, Denver, CO 2008.
- Depuy, Fellows Cadaver Course, Chicago, IL 2009.

NON-ACADEMIC ACHIEVEMENTS

- Member, Marketing Committee MOR (2007-Present)
- Member, Executive Committee MOR (2008-Present)
- 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)
- Varsity Tennis – Penn State University (Division I) (1993-95)
- *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)