

8-Jun-11

CURRICULUM VITAE

BRIAN J. COLE, MD, MBA

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ACADEMIC APPOINTMENT:	July 2006-Present	Professor, Department of Orthopedic Surgery Professor, Department of Anatomy & Cell Biology
	July 2005-Present	Section Head, Cartilage Restoration Center
	July 2002-July 2006	Associate Professor, Department of Orthopedic Surgery
	July 2002-July 2006	Associate Professor, Department of Anatomy and Cell Biology
	July 1997-2005	Director, Cartilage Restoration Center Division of Sports Medicine Section of Shoulder Surgery
	July 1997-July 2002	Assistant Professor, Department of Orthopedic Surgery, Rush Medical College
SPORTS MEDICINE FELLOWSHIP:	1996-1997	The University of Pittsburgh Pittsburgh, Pennsylvania 15213
ORTHOPAEDIC RESIDENCY:	1992-1996	The Hospital for Special Surgery Cornell Medical Center New York, New York 10021
ORTHOPAEDIC RESEARCH FELLOWSHIP: METABOLIC BONE DISEASE	1991-1992	The Hospital for Special Surgery New York, New York 10021
GENERAL SURGICAL INTERNSHIP:	1990-1991	Loyola University Medical Center Maywood, Illinois 60153
DOCTOR OF MEDICINE:	1985-1990	The University of Chicago Pritzker School of Medicine Chicago, Illinois 60637
MASTERS IN BUSINESS ADMINISTRATION: HEALTH ADMINISTRATION	1988-1989	The University of Chicago Graduate School of Business Chicago, Illinois 60637
BACHELOR OF SCIENCE: BIOLOGY AND PSYCHOLOGY	1981-1985	The University of Illinois Champaign, Illinois 61801
LICENSURE/BOARD CERTIFICATION:		American Board of Orthopaedic Surgery (I & II): 7/99 & 7/96 Indiana State License, 01052334A, 2000 Illinois State License: 036-095694, 1990 Pennsylvania State License: 038061, 1996 New York State License: 186776, 1992 Advanced Cardiac Life Support, 1992 National Boards Parts 1-3: 1989, 1990, 1991

AWARDS AND HONORS

Best Rush Medical School Research Project of the Year, MLB SLAP Study	2011
NBA Team Physician of the Year	2009
America's Top Doctor, Castle Connolly	2009
America's Top Physician	2008
Program Chairman, AOSSM Specialty Day and Annual Meeting	2008
Top Sports Medicine Specialist, Chicago Magazine Best Doctors in Chicago	2008
Editorial Reviewer of the Year, Journal of Knee Surgery	2007
Chicago Magazine, featured on cover for "Top Doctors in Chicago" issue	2006
Best Doctor in America	2005
Best Research Project, 17 th Annual Thesis Day, Rush University	2005
Mark Allam Lecturer, American College of Veterinary Surgeons Annual Meeting	2004
Herodicus Society	2004
Hall of Fame: Prosser Career Academy	2004
Best Research Project, 16 th Annual Thesis Day, Rush University	2004
Anchor Cross Society, Rush University Medical Center	2004
Best Doctor in America	2004
Best Research Project, 15 th Annual Thesis Day, Rush University	2003
Sigma Xi Best Research Award, Rush University	2003
Top Doctor (Orthopedics): Chicago Metro Area	2002
Clinical Research Poster Award, 7 th Annual AMSA Poster Session, NIH/NHSC/AAMC/AMSA	2002
Selected, America's Top Surgeons, consumersresearchcncl.org	2002
OREF Career Development Award	2001
Best Research Project, 13 th Annual Thesis Day, Rush University	2001
Lewis Clark Wagner Award, Best Resident Research	1996
Alpha Omega Alpha Honorary Medical Society	1990
Highest Honors Clinical Clerkships, The University of Chicago	1990
Dean's List, Graduate School of Business, The University of Chicago	1989
Magna Cum Laude, University of Illinois (GPA 4.9/5.0)	1985
Bronze Tablet, University of Illinois (Top 3% of Graduating Class)	1985
Golden Key Honor Society, University of Illinois	1985

NATIONAL SOCIETIES

NBA Team Physician's Society	2004
Herodicus Society, American Orthopaedic Society for Sports Medicine	2004
International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine	2004
American Shoulder and Elbow Society, Active	2003
Orthopaedic Research Society	2001
American Orthopaedic Society for Sports Medicine	2001
Arthroscopy Association of North America	2001
Alfred Shand's Circle, Orthopedic Research and Education Foundation	2000
International Cartilage Repair Society	1998
American Academy of Orthopaedic Surgeons	1994
American Society for Bone and Mineral Research	1992
American Medical Association	1989

REGIONAL SOCIETIES

Illinois Association of Orthopaedic Surgeons	2000
Mid America Orthopaedic Association	2000
Chicago Sports Medicine Society	1997
Illinois Orthopaedic Society	1997
New York State Medical Society	1994
New York State Orthopaedic Society	1994
Illinois and Chicago Medical Society	1990

COMMITTEES

AANA Program Committee	2011
AAOS Program Committee and Chair (2014)	2011
AANA Education Committee	2011
Open Program Committee, American Shoulder and Elbow Society	2010
Arthroscopy Association of North America International Committee	2010
Closed American Shoulder and Elbow Program Committee	2009
AOSSM/AANA Sports Medicine Fellowship Committee	2008
Orthopaedic Learning Center, Board of Directors, AAOS	2006
Young Associates Board, Rush University Medical Center	2006
Board Member, International Cartilage Repair Society	2006
American Shoulder and Elbow, Evidence Based Medicine Liaison	2005
AOSSM Nominating Committee	2006
Program Committee, American Orthopedic Society for Sports Medicine	2005
Electronic Technology Committee, American Shoulder and Elbow Surgeons	1005
International Cartilage Repair Society, Outcomes and Clinical Trials Committee	2002
Learning Center Scholarship Committee, Arthroscopy Association of North America	2002
Member, HIPPA Compliance Committee, Midwest Orthopaedics	2002
PhD Examination Committee Member, University of Wisconsin-Madison	2001
Illinois Association of Orthopedic Surgeons Education Committee	2001
Arthritis Foundation, Board of Director	2001
Orthopedics Research and Education Foundation Development Committee	2001
Member, AAOS Committee on Electronic Media	2000
Member, AAOS Subcommittee on Sports Medicine Evaluation	2000
Member, Faculty Council for Rush Medical College	2000
Director, Finance Committee, Rush Surgicenter	2000
Member, Executive Committee, Midwest Orthopaedics	2000
Director, Marketing Committee, Midwest Orthopaedics	1998
Director, Coding Practices Committee, Midwest Orthopaedics	1997
Executive Member, University of Chicago Graduate Program in Health Administration	1997
Member, Medical Care Evaluation Committee, Rush-Presbyterian-St.-Luke's Medical Center	1997
Member, Medical Records Committee, The Hospital for Special Surgery	1993-1996
Member, Cost Containment Committee, The Hospital for Special Surgery	1991-1996

SUPPLEMENTAL CLINICAL RESPONSIBILITIES

President, Cartilage Research Foundation, Inc.	2002
Chief Operating Officer, Orthopedics International, LLC	2002
Chief Medical Officer, Eminent Orthopaedics	2000
Director, Rush Cartilage Restoration Center	1999
Director, Fresh Cartilage Program, Regional Organ Bank of Illinois/AlloSource	1999
Member, Medical Advisory Board, AlloSource	1999
Director, Chicago-Area High School Football Medical Coverage Program	1998
Clinical Advisory Board, Genzyme Tissue Repair	1988
Orthopaedic Director, Hemophilia Program, Rush-Presbyterian-St.-Luke's Medical Center	1997
Sports Medicine Consultant, Master's Hockey League	1998
Sports Medicine Consultant, Lake Shore Athletic Club	1997

EDITORIAL AND REVIEW RESPONSIBILITIES

Editorial Board, Operative Techniques in Sports Medicine	2009
Editor, Case Reports in Medicine	2009
Principial Reviewer, American Journal of Sports Medicine,	2008
Reviewer, Journal of Bone and Joint Surgery	2008
Reviewer, Journal of Shoulder and Elbow Surgery	2008
Associate Editor, American Journal of Orthopedics, Shoulder and Elbow	2006
Reviewer, Journal of the American Academy of Orthopaedic Surgeons	2006
Reviewer, Journal of Knee Surgery, SLACK Publications	2004

Editor, Meniscus Surgery, Operative Techniques in Sports Medicine	2003
Reviewer, American Journal of Sports Medicine	2002
Associate Editor, Sports Medicine Reports	2002
Editor, Advances in Articular Cartilage, Orthopedic Quarterly	2002
Editor, Articular Cartilage Lesions: A practical guide to assessment and management, Springer	2002
Editor, Arthroscopy, WB Saunders	2002
Editor, Sports Medicine, Orthopedic Quarterly	2001
Editor, Atlas of Surgical Techniques in Sports Medicine, Thieme Publishing	2001
Editor, Sports Medicine Reports	2001
Editor, Chondral Injury, Techniques in Orthopedics, WB Saunders	2001
Editor, Shoulder Arthroscopy: Approaches for the New Millennium, Clin Ortho Rel Res	2001
Editor, Cartilage Restoration, in <i>The Arthritic Knee</i> , AAOS CDROM	2000
Editor, Alternative Techniques for Cartilage Restoration, AAOS Website	1991
Book Reviewer-Dood Publishing	1996

TEAM PHYSICIAN/CONSULTANT RESPONSIBILITIES

GridIron Greats NFL Foundation Orthopedic Consultant and Provider	2009-Present
DePaul University	2007-Present
Michigan State University	2005-Present
Chicago Bulls, Head Team Physician	2005-Present
Chicago White Sox, Co-Team Physician	2004-Present
Chicago Rush Arena Football, Team Orthopedic Surgeon	2001-2007
Elmhurst College	2001-Present
Master's Hockey League	1998-Present
Lyden High School Football Team	1997-1999
Prosser High School Football Team	1997-Present
Northeastern Illinois University Basketball Team	1997-1998
The University of Pittsburgh Panthers Football Team	1997-1998
The Pittsburgh Ballet Company	1997-1998

OTHER

Co-Host, Sports Medicine Weekly, ESPN WMVP Radio	2011
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RESEARCH ACTIVITIES

RUSH-PRESBYTERIAN-ST.-LUKE'S MEDICAL CENTER, SECTION OF SPORTS MEDICINE

Rotator cuff repair, shoulder instability, cartilage transplantation, ortho-biologics. (1997-present)

THE UNIVERSITY OF PITTSBURGH, DEPARTMENT OF SPORTS MEDICINE, FREDDIE H. FU, MD, CHRISTOPHER D. HARNER, MD, JON J.P. WARNER, MD

Arthroscopic shoulder stabilization, the rotator interval of the shoulder and multiple ligament injuries of the knee. (1996-1997)

THE HOSPITAL FOR SPECIAL SURGERY, RUSSELL R. WARREN, MD

Osteoinductive proteins, bioresorbable copolymers, cost containment, hip fractures in the elderly, and the rotator interval of the shoulder. (1992-1996)

THE HOSPITAL FOR SPECIAL SURGERY, SECTION OF METABOLIC BONE DISEASE, JOSEPH M. LANE, MD, BASIC SCIENCE OF OSTEOINDUCTION

One-year research (75%) and clinical (25%) fellowship in metabolic bone disease with emphasis on osteoporosis, hard tissue analysis and the biology of rhBMP-2. Experience in rat and rabbit orthopaedic surgery. (1991-1992)

THE UNIVERSITY OF CHICAGO, SECTION OF CARDIOLOGY, WYLIE MCNABB, EdD, PREVENTIVE CARDIOLOGY

Behavior change techniques in preventive cardiology. (1989-1990)

THE UNIVERSITY OF CHICAGO, SECTION OF PULMONARY AND CRITICAL CARE MEDICINE, LAWRENCE D.H. WOOD, MD, PhD, LUNG REPERFUSION INJURY

A canine model for lung transplantation. (1987-1988)

THE UNIVERSITY OF ILLINOIS, BIOLOGICAL DIVISION, WILLIAM T. GREENOUGH, PhD, MORPHOLOGICAL EFFECTS OF ENVIRONMENT ON THE NEUROANATOMY OF THE RAT BRAIN.

Investigated the effects of exercise as compared to the effects of an enriched environment in the rat cerebral cortex. (1983-1986)

GRANTS

AOA Research Award, Principal Investigator <i>Removal of the Calcified Layer During Microfracture: How Good are We? (\$5,000)</i>	2011
Musculoskeletal Transplant Foundation Young Investigator Award, Principal Investigator, <i>AMIC Technique with Collagen Scaffold For Glenoid Resurfacing (\$100,000)</i>	2010
Harry Zweig Memorial Grant, Co-Investigator, <i>Determining anti-nocioceptive and matrix restorative mechanisms of platlet rich plasma (44,646)</i>	2010
Arthroscopy Association of North America, Principal Investigator, <i>The Effects of Bupivacaine on Rotator Cuff Healing (\$25,000)</i>	2009
NIAMS T32 Program Grant (\$200,000/year)	2007
Arthroscopy Association of North America, Principal Investigator, <i>The Effects of Bupivacaine on Articular Cartilage of the Glenohumeral Joint in Rabbits (\$25,000)</i>	2006
American Society for Sports Medicine, Young Investigator Award, <i>The Intermediate-Term Effects of Bupivacaine on Articular Cartilage of the Glenohumeral Joint in Rabbits (\$40,000)</i>	2006
Arthrex Corporation, Principal Investigator, <i>The effects of impaction force and frequency on Chondrocyte Viability (\$25,000)</i>	2006
Musculoskeletal Transplant Foundation, Principal Investigator, <i>The Effects of Freezing and Re-Freezing Allograft Meniscus Transplants (\$75,000)</i>	2004
Zimmer, Principal Investigator, <i>Implementation of Juvenile Allograft Cartilage Transplants in Sheep Cartilage Defect (\$135,000)</i>	2004
Pfizer, Principal Investigator, <i>Prospective Randomized, Double Blind Study Investigating Adjunctive Intra-articular Steroids in Patients Undergoing Arthroscopy for Meniscal Tears and Osteoarthritis (\$100,000)</i>	2004
Musculoskeletal Transplant Foundation, Principal Investigator, <i>Optimization of the Metabolic State of Cold Preserved Allograft Cartilage Prior to Transplantation (\$81,000)</i>	2004
NFL Charities Medical Grant, Co-Investigator, <i>Effects of Thermal Chondroplasty with Radiofrequency Energy (\$115,300)</i>	2001
Orthopaedic Research and Education Foundation/Bristol-Myers/Squibb Zimmer Orthopaedic Surgery Career Development Award (01-035 - \$50,000)	2001
Rush Arthritis and Orthopedic Institute, Principal Investigator, <i>Osteochondral Allograft Preservation (\$25,000)</i>	2000
AlloSource. Co-Principal Investigator, <i>Preservation of Osteochondral Allografts (\$360,000)</i>	2000
NIH Grant (R21). Co-investigator, <i>Cartilage Modification with Radiofrequenc Energy (RFA-AR-99-004) (\$324,000)</i>	1999
Orthopaedic Research Education Foundation Grant # 93-026, <i>The Application of rhBMP-2 to HA-coated porous titanium Implants (\$15,000)</i>	1993
The Hospital for Special Surgery Resident Research Grant #3360M (\$6,000)	1993

United States Public Health Service Scholarship (\$10,000)	1989
NIH medical student grant-preventive cardiology (\$1,500)	1989
NIH medical student grant-pulmonary medicine (\$1,500)	1987

RESEARCH IN PROGRESS

1. Ruta D, McNickle A, Yanke AB, Chubinskaya S, **Cole BJ**: Effects of Local Inflammatory Conditions on the Preservation of Allograft Cartilage and Chondrogenic Potential of ACI Cells.
2. Verma N, McNickle A, DeFranco M, Chubinskaya S, **Cole BJ**, Wang VM: Effects of Capsaicin 4975 on Tendon Healing and Normal Articular Cartilage: An In Vivo Rabbit Study..
3. Merrihew C, Pfister BE, Miyazaki T, Thonar EJ, **Cole BJ**, Masuda K: Age-related changes in the biomechanical properties of scaffold-free engineered cartilage tissue-challenge to the age limitation.
4. Masuda K, Tatsuya M, **Cole B**, An H, Hejna M, Thonar E: Tissue engineered human articular cartilage produced from knee biopsy specimen: Alginate-recovered-chondrocyte method and Osteogenic Protein-1.

MASTER'S DEGREE MENTORSHIPS

Vasili Karas, BS: Glenoid resurfacing with the AMIC technique, MS/MD Program, Rush Univeristy Medical Center, 2010.

Sarvottam Bajaj, BS: Cytokine Production Associated with Cartilage Transplantation, MS/MD Program, Rush University Medical Center, 2009.

Nicole Friel, BS: Effects of Marcaine on the Healing Rotator Cuff Tendon and Muscle, MS/MD Program, Rush University Medical Center, 2008.

Allison McNickle, BS: Performance of a Sterile Meniscal Allograft in a Sheep Model. MS/MD Program, Rush University Medical Center, 2007.

Adam Yanke, BS. Quantitative Assessment of OP-1 Metabolism in Normal, Aged, and OA Human Articular Cartilage and in the Presence of Catabolic Mediators. MS/MD Program, Rush University Medical Center, 2006

Richard Kang, BS. The Effects of Graft Impaction of Osteochondral Plugs. MS/MD Program, Rush University Medical Center, 2006.

Paul Lewis, MS. Increasing Meniscal Allograft Tissue Yield: Biomechanical Impact of Multiple Freeze-Thaw Cycles. MS/MD Program, Rush University Medical Center, 2005.

Tamara Pylawka, MS. Nitric Oxide Production in Cold Preserved Osteochondral Allograft Tissue. MS/MD Program, Rush University Medical Center, 2004.

Stephen Lee, MD. Tibiofemoral Contact Mechanics Following Serial Posterior Medial Meniscectomies in the Human Cadaveric Knee, 2004.

Andre L. Thomas, MD. Patellofemoral Contact Pressures Following Anteromedialization of the Tibial Tubercle, 2004.

Shane J. Nho, MD, MS. Comparison of Ultrasonic Suture Welding and Traditional Knot Tying in a Rabbit Rotator Cuff Repair Model, 2003.

PUBLICATIONS: PEER-REVIEWED

1. Farr J, **Cole BJ**, Dhawan A, Kercher J, Sherman S: Symposium: Clinical Cartilage Restoration: Evolution and Overview. Clin Ortho Rel Res, Jan 2011.
2. Smith JC, Provencher MT, Solomon DJ, **Cole BJ**, Navaie M: Factors predictive of misdiagnosing clinical outcomes of orthopedic patients with joint cartilage disease: An international analysis. In Progress.
3. MARS Group, Previous partial meniscectomy increases the incidence of chondral lesions at revision ACL reconstruction. Submitted, Am J Sports Med, 2011.
4. Van Thiel G, Gupta, Frank R, Ghodadra N, Shewman E, Provencher M, Bach B, **Cole B**, Verma N. Biomechanical Evaluation of Meniscal Transplantation with a High Tibial Osteotomy. Accepted, J Knee Surg, 2011.
5. Anderson AF, Irrgang JR, Dunn WR, Beufils P, Cohen M, **Cole BJ**, Coolican M, Ferretti M, Glenn RE, Johnson RJ, Neyret P, Ochi, M, Panarella L, Siebold R, Spindler KP, Selmi, TAS, Verdonk, P, Verdonk, R, Yasuda K: Inter-observer reliability of the ISAKOS classification of meniscal tears. Am J Sports Med, 39: 926-932, 2011.
6. Roden CM, Aberman H, Simon T, Hollinger JO, Hee CK, **Cole BJ**: Osteochondral defect repair in a caprine model using rhPDGF-BB and a type I bovine bi-phasic collagen scaffold. In progress, Am J Sports Med.
7. Mather RC, Tetteh L, Karas V, Lin E, Verma NN, **Cole BJ**: Factors most closely associated with functional outcomes in rotator cuff repair. In Progress, J Shoulder Elbow Surg, 2011.
8. Boswell SG, **Cole BJ**, Sundman EA, Karas V, Fortier LA: Current Concepts: Platelet Rich Plasma- A milieu of bioactive factors. Accepted, Arthroscopy, 2011.
9. **Cole B**, DeBerardino T, Brewster R, Farr J, Levine D, Nissen C, Roaf P, Zaslav K: Outcomes of autologous chondrocyte implantation in study of treatment of articular repair (STAR) patients with osteochondritis dissecans. Submitted, Am J Sports Med, 2011.
10. Sundman EJ, Karas V, **Cole BJ**, Fortier L: Direct correlation between white blood cells and catabolic cytokine concentrations in platelet rich plasma. Accepted, Am J Sports Med, 2011.
11. Sherman SL, Chalmers PN, Yanke AB, Bush-Joseph C, **Cole B**, Bach BR: Graft tensioning during knee ligament reconstruction: Principles and practice, J Am Academy of Ortho Surgeons, 2011.
12. **Cole BJ**, Farr J, Winalski CS, Hosea T, Richmond J, Mandelbaum B, DeDeyne PG: Outcomes after a single-stage procedure for cell-based cartilage repair: A prospective clinical safety trial with 2-year follow-up. Am J Sports Med, 2011.
13. Daley EL, Sarvottam BS, Bisson LJ, **Cole BJ**: Improving injection accuracy of the elbow, knee and shoulder. Am J Sports Med, 39:1170-1178, 2011.
14. Ode GE, McArthur SA, VanThiel GS, Kercher J, Dishkin-Paset J, Shewman EF, Wang VM, **Cole BJ**: Effects of serial sectioning and repair of radial tears in the lateral meniscus. Submitted, Am J Sports Med, 2011.
15. Strause EJ, Bajaj S, Daley E, Karas V, **Cole BJ**: Patient factors associated with failure of cartilage repair. Submitted, Am J Sports Med, 2011.
16. Sundman EA, **Cole BJ**, Fortier LA: Growth factor and catabolic concentration in platelet rich plasma. Submitted, Am J Sports Medicine, 2010.
17. Van Thiel GS, Sheehan S, Frank RM, Slabaugh M, **Cole BJ**, Nicholson GP, Romeo AA, Verma NN. Retrospective analysis of arthroscopic management of glenohumeral degenerative disease. Arthroscopy, 26 (11): 1451-1455. 2010.

18. Verma NN, Bhatia S, Baker III CL, **Cole BJ**: Outcomes of arthroscopic rotator cuff repair in patients aged 70 years or older. *Arthroscopy*, 26(10): 1273-1280, 2010.
19. Piasecki DP, Verma NN, Nho SJ, Bhatia S, Boniquit N, **Cole BJ**, Nicholson, GP, Romeo AA.. Outcomes after arthroscopic revision rotator Cuff Repair. *Am J Sports Med* 38: 40-46, 2010.
20. Bhatia S, Piasecki DP, Nho SJ, Romeo AA, **Cole BJ**, Nicholson GP, Boniquit N, Verma NN. Early Return to work in workers' compensation patients after arthroscopic Full-thickness rotator cuff repair. *Arthroscopy*. 26 (8): 1027-1034, 2010.
21. Slabaugh MA, Friel NA, Wang VM, **Cole BJ**. Restoring the Labral Height for treatment of Bankart Lesions: A comparison of Suture Anchor Constructs. *Arthroscopy*. 26 (5): 587-591, 2010.
22. Burkhard SS, **Cole BJ**. Bridging self-reinforcing double-row rotator cuff repair: we really are doing better. *Arthroscopy*. 26 (5): 677-680, 2010.
23. Wang VM, Wang F, McNickle AG, Friel NA, Yanke AB, Chubinskaya S, Romeo AA, Verma NN, **Cole BJ**: Medial versus lateral supraspinatus tendon properties: Implications for double-row rotator cuff repair. *Am J Sports Med*. 38: 2456-63, 2010.
24. Friel NA, **Cole BJ**. Meniscal allograft transplantation. *Current Orthopaedic Practice* 21(1): 22-26, 2010.
25. Fortier LA, Barker JU, Strauss EJ, McCarrel TM, **Cole BJ**: The role of growth factors in cartilage repair. *Clin Ortho Rel Res*, Submitted, Nov, 2010.
26. Friel NA, Karas V, Slabaugh MA, **Cole BJ**: Outcomes of type II superior labrum, anterior to posterior (SLAP) repair: Prospective evaluation oat a minimum two-year follow-up. *J Shoulder Elbow surg* 19:859-867, 2010.
27. Slabaugh MA, Frank RA, **Cole BJ**: Resurfacing of isolated articular cartilage defects in the glenohumeral joint with microfracture: A surgical technique and case report. *Am J Orthopedics*, (7), 326-332, 2010.
28. **Cole BJ**, Farr J: Content Validity and Psychometric Evaluation of the Knee Injury and Osteoarthritis Outcome Score. Submitted, *Am J Sports Med*, 2010.
29. Multicenter Authors, **Cole, BJ**: Descriptive Epidemiology of the Multicenter ACL revision study (MARS) Cohort. *Am J Sports Med*, 38:1979-86. 2010.
30. Engelhart L, Nelson L, Lewis S, Mordin M, Demuro-Mercon C, Uddin S, McLeaod L, Cole B, Farr J: Content validity and psychometric evaluation of the knee injury and osteoarthritis outcome score subscales for patients with articular cartilage lesions of the knee. Submitted, *Am J Sports Med*, 2010.
31. Strauss EJ, Salata MJ, McGill KC, Nicholson GP, **Cole BJ**, Verma NN, Romeo AA: The high failure rate of biologic resurfacing of the glenoid in young patients with glenohumeral arthritis. Submitted, *J Shoulder Elbow Surg*, July, 2010.
32. Mithoefer K, Gill TJ, **Cole BJ**, Williams RJ, Mandelbaum BR: Clinical outcome and return to competition after microfracture in the athlete's knee: An evidence-based systematic review. *Cartilage* (1)2:113-120, 2010.
33. Salata MJ, Kercher JS, Bajaj S, Verma NN, **Cole BJ**: Glenohumeral microfracture. *Cartilage* (1)2:121-126, 2010.
34. Strauss EJ, Barker JU, Kercher JS, **Cole BJ**, Mithoefer, K: Augmentation strategies following the microfracture technique for repair of focal chondral defects. *Cartilage*, (1)2: 145-152, 2010.

35. Grumet RC, Friel NA, **Cole BJ**: Bony Avulsion of the Medial Ulnar Collateral Ligament in a Gymnast: A Case Report. Accepted, JSES, 2010.
36. Frank RM, Van Thiel GS, Slabaugh MA, Romeo AA, **Cole BJ**, **Verma NN**: Clinical outcomes after microfracture of the glenohumeral joint. *Am J Sports Med.* 38 (4), 772-781, 2010.
37. Slabaugh MA, Freil NF, Karas V, Romeo AA, Verma N, **Cole BJ**: Inter- and intra-observer reliability of the Goutallier classification using MRI in patients with large rotator cuff tears. Submitted, *J Shoulder Elbow Surg*, April, 2010.
38. Encalada-Diaz I, **Cole BJ**, MacGillivray JD, Ruiz-Suarez M, Kercher JS, Friel NA, Zielsdorf M, Valero-Gonzalez F: Rotator cuff repair augmentation using a novel polycarbonate polyurethane patch: Preliminary results at 12 months follow-up. Submitted, *J Shoulder Elbow Surg*, April 2010.
39. **Cole BJ**, Seroyer ST, Filardo G, Bajaj S, Fortier LA: Platelet-rich plasma: Where are we now and where are we going? *J of Sports Health*, May, 2010.
40. Balash P, Kang RW, Schwenke T, **Cole BJ**, Wimmer MA: Osteochondral tissue cell viability is affected by total impulse during impaction grafting. *Cartilage*, 1 (4):270-275, 2010.
41. Van Thiel GS, Frank RM, Gupta A, Ghodadra Neil, Shewman EF, Wang VM, Bach BR, **Cole BJ**, Provencher MT: Biomechanical evaluation of a high tibial osteotomy with a meniscal transplant. Submitted, *Am J Sports Med*, 2010.
42. Wang VM, Wang FC, Mcickle AG, Friel NA, Yanke AB, Chubinskaya S, Romeo A, **Cole BJ**: Medial versus lateral supraspinatus tendon properties: Implications for double row rotator cuff repair. Submitted, *J Shoulder Elbow Surg*, 2010.
43. Borchers J, **Cole BJ**, Et al Multicenter Authors: Intraarticular findings in primary and revision ACL reconstruction surgery: A comparison of the MOON and MARS study groups. Submitted, *Am J Sports Med*, 2010
44. Burkhart SS, **Cole BJ**: Bridging double-row rotator cuff repair is superior to single-row repair. Submitted *Arthroscopy*, 2010.
45. **Cole BJ**, Farr J, Hosea T, Richmond J: Patient reported outcomes after a single-stage procedure for cell-based cartilage repair: Results from a pilot study 2 years post surgery, Submitted, *Am J Sports Med*, 2010.
46. Piasecki DP, Verma NV, Nho SJ, Boniquit N, **Cole BJ**, Nicholson GP: Outcomes after arthroscopic revision rotator cuff repair older than 70. *Arthroscopy*, 38:40-46, 2010.
47. Slabaugh MA, Friel NA, **Cole BJ**. Rapid chondrolysis of the knee after anterior cruciate ligament reconstruction: A case report. *J Bone Joint Surg.* 92 (1):186-189, 2010.
48. Kang RW, Friel NA, Williams JM, **Cole BJ**, Wimmer MA: Effect of Impaction Sequence on Osteochondral Graft Damage: The Role of Repeated and Varying Loads. *Am J Sports Med.* 38:105-113, 2010.
49. DeFranco MJ, Pribaz JR, **Cole BJ**: Arthroscopic Rotator Cuff Repair Failure Resulting from Decortication of the Rotator Cuff Footprint: A Case Report. *Am J Ortho*, 32-33, December, 2009.
50. Friel NA, Slabaugh M, Wang V, Chubinskaya S, **Cole B**: Rotator Cuff Healing Following Subacromial Bupivacaine Infusion: An *In Vivo* Rabbit Study. Submitted, *Arthroscopy*, 2009.

51. Slabaugh M, Friel N, **Cole BJ**: Inter- and Intra-Observer Reliability of the Goutillier Classification System for Rotator Cuff Tears. Submitted, JSES, 2009.
52. DeFranco MJ, Pribaz J, **Cole BJ**. Failure of Arthroscopic Rotator Cuff Repair Due to Decortication of the Rotator Cuff Foot Print: A Case Report. Am J Orthop. 2009.
53. Gomoll AH, Probst C, Farr J, **Cole BJ**, Minas T: Use of a Type I/III Bilayer Collagen Membrane Decreases Reoperation Rates for Symptomatic Hypertrophy after Autologous Chondrocyte Implantation, Am J Sports Med, 37(1)20S-23S, 2009.
54. Balash P, Kang RW, Schwenke, **Cole BJ**, Wimmer MA: Osteochondral Tissue Cell Viability is Affected by Total Impulse During Impaction Grafting, Cartilage, 2010.
55. DeFranco MJ, Pribaz JR and **Cole BJ**: Arthroscopic Rotator Cuff Repair Failure Resulting from Decortication of the Rotator Cuff Footprint: A Case Report. Am J Orthopedics, December, 2009.
56. Pascual-Garrido, C; Slabaugh MA, L'Heureux DR, Friel NA, **Cole BJ**: Recommendations and treatment outcomes for patellofemoral articular cartilage defects with autologous chondrocyte implantation: Prospective evaluation at average 4-year follow-up. Am J Sports Med, 37(1)33S-41S, 2009.
57. Pascual-Garrido C, Friel NA, Kirk SS, McNickle AG, Bach BR, Bush-Joseph CA, Verma NN, **Cole BJ**: Midterm results of surgical treatment for adult osteochondritis dissecans of the knee. Am J Sports Med, 37(1)125S-130S, 2009.
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ABSTRACTS

NB: Research presentation abstracts sightings are available through 2008 below. Beyond 2008, abstracts are published in program or proceedings book for specific meetings.

1. **Cole BJ**, McNickle AG, L'Heureux DR, Kirk SS, Yanke A: Autologous Chondrocyte Implantation: Functional and Symptomatic Outcomes Beyond Two Years. 27th Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008, Abstract Book Page 20.
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RESEARCH EXHIBITS/PRESENTATIONS

1. Sundman EA, **Cole BJ**, Karas V, Fortier LA: Growth factor and catabolic mediator concentrations in platelet rich plasma. ISAKOS, May 16, 2011, Rio De Janero, Brazil.
2. Strauss E, Salata M, McGill K, Karas V, Nicholson G, **Cole B**, Verma N, Romeo A: The high failure rate of biologic resurfacing of the glenoid in young patients with glenohumeral arthritis. ISAKOS, May 16, 2011, Rio De Janero, Brazil.
3. Strauss E, Salata M, McGill K, Nicholson G, **Cole BJ**, Verma N, Romeo A: Outcomes of shoulder arthroplasty after failure of biological resurfacing of the glenohumeral Joint. ISAKOS, May 16, 2011, Rio De Janero, Brazil.
4. Corpus KT, Bajaj S, Daley EL, Karas V, Kercher JS, Verma N, **Cole BJ**: Prospective evaluation of autologous chondrocyte implantation procedure: Minimum 7-year follow-up. ISAKOS, May 16, 2011, Rio De Janero, Brazil.
5. Strauss EJ, Salata MJ, Sershon RA, McGill KC, Lin E, Nickolas G, Provencher MT, Wang VM, **Cole BJ**, Romeo AA, Verma NN: The Role of the Superior Labrum Following Biceps Tenodesis in Glenohumeral Kinematics and Stability. Rush Research Forum, May 5, 2011, Chicago, IL.
6. McGill K, Bajaj S, Daley E, Nicholson G, **Cole B**, Romeo, A, Verma N: A Prospective Randomized Trial of Acromioplasty in Patients Undergoing Arthroscopic Rotator Cuff Repair: Preliminary Results. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14-16, 2011.
7. **Cole BJ**, Kercher J, Bajaj S, Daley E, Parsley B, Romeo A, Verma N, Burkhart S: Post-Operative Outcomes Following Shoulder Surgery: Is Pain Relief or Strength Return More Important to Patients. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14-16, 2011.
8. Sundman EA, **Cole BJ**, Karas V, Fortier LA: Growth Factor and Metabolic Mediator Concentration in PRP. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14-16, 2011.
9. Sundman EA, **Cole BJ**, Karas V, Fortier LA: Effects of ACD-A Anticoagulant in PRP on Biceps Tendon Gene Expression. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14-16, 2011.
10. **Cole NBJ**, Corpus KT, Bajaj S, Daley EL, Karas V, Kercher JS, Verma NK: Prospective Evaluation of Autologous Chondrocyte Implantation Procedure: Minimum 7-Year Follow-Up. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 15, 2011.
11. **Cole NBJ**, Slatszman BM, , Bajaj S, Daley EL, Tetteh ES, Slata M, Verma NK: Prospective Evaluation of Allograft Meniscus Transplantation: Minimum 7-Year Follow-Up. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 15, 2011.
12. Verma NV, Salata M, Garbis N, Wang VM, **Cole BJ**, Romeo AA: The Role of the Superior Labrum Following Biceps Tenodesis in Glenohumeral Kinematics and Stability. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14, 2011.
13. **Cole BJ**, Navaie M, Provencher MT, Smith JC, Solomon DJ: Joint Pain, Severe Cartilage Destruction and Chondroluysis. Guidelines for Improving Diagnostic and Clinical Management. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14, 2011.
14. Verma NN, Strauss E, Salata M, McGill K, Nicholson G, **Cole BJ**, Romeo AA: The High Failure Rate of Biologic Resurfacing of the Glenoid in Young Patients with Glenohumeral Arthritis. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14, 2011.
15. **Cole BJ**, Kercher J, Bajaj S, Daley E, Parsley B, Romeo A, Verma N, Burkhart S: Post-operative Goals after Shoulder Surgery: Is Pain Relief or Strength More Important to Patients? 78th Annual Meeting of the AAOS, Feb

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16. Strauss E, Salata M, McGill K, Nicholson G, **Cole BJ**, Verma N, Romeo A: The High Failure Rate of Biologic Resurfacing of the Glenoid in Young Patients with Glenohumeral Arthritis. Prospective Evaluation of Autologous Chondrocyte Implantation: Minimum 7 -Year Follow-up. 78th Annual Meeting of the AAOS, AOSSM Specialty Day, Feb 19, 2011, San Diego, CA.
17. **Cole BJ**, Daley E, Bajaj S, Kercher J, Salata M, Verma N: Prospective Evaluation of Autologous Chondrocyte Implantation: Minimum 7 -Year Follow-up. 78th Annual Meeting of the AAOS, Feb 18, 2011, San Diego, CA.
18. Strauss, E, Salata M, McGill K, Garbis N, **Cole B**, Romeo A: The Role of the Superior Labrum Following Biceps Tenodesis in Glenohumeral Kinematics and Stability. Prospective Evaluation of Autologous Chondrocyte Implantation: Minimum 7 -Year Follow-up. 78th Annual Meeting of the AAOS, Feb 18, 2011, San Diego, CA.
19. Strauss E, Salata M, McGill K, Nicholson G, **Cole B**, Verma N, Romeo A: Mid-Term Results of Biologic Resurfacing of the Glenoid in Young Patients with Glenohumeral Arthritis, 78th Annual Meeting of the AAOS, Feb 17, 2011, San Diego, CA.
20. **Cole B**, Daley E, Bajaj S, Kercher J, Strauss E, Lewis P, Verma B: Prospective Evaluation of Meniscal Allograft Transplantation: Minimum 7 -Year Follow-up. 78th Annual Meeting of the AAOS, Feb 17, 2011, San Diego, CA.
21. McGill K, Bajaj S, Daley E, Nicholson G, **Cole B**, Romeo, A, Verma N: Prospective Randomized Trial of Acromioplasty in Patients Undergoing Rotator Cuff Repair, 78th Annual Meeting of the AAOS, Feb 16, 2011, San Diego, CA.
22. **Cole B**, Daley E, Baja S, Kercher J, Salata M, Verma N: Prospective Evaluation of Autologous Chondrocyte Implantation: Minimum 7 -Year Follow-up. 78th Annual Meeting of the AAOS, Feb 16, 2011, San Diego, CA.
23. **Cole B**, Campbell J, Filardo G, Bajaj S, Friel N, Hakimiyan A, Grumet R, Chubinskaya S: Salvage of Contaminated Osteochondral Allografts: Chlorohexidine Effects on Human Articular Cartilage. 78th Annual Meeting of the AAOS, Feb 16, 2011, San Diego, CA.
24. Roden C, Aberman JH, Simon T, Kunishima D, Hawes M, Lynn A, **Cole BJ**, Aguiar D, Kestler H: Evaluation of rhPDG-BB in Combination with Biphasic Collagen Implant for Osteochondral Defect Repair in a Caprine Model. Annual Meeting of the ORS, Long Beach, CA, January 13-16, 2011.
25. Dishkin Paset J, Ode G, McArthur S, Van Thiel G, Kercher J, Shewman E, Wang V, **Cole BJ**: Effects of Serial Sectioning and Repair of Radial Tears in the Lateral Meniscus. Poster, Annual Meeting of the ORS, Long Beach, CA, January 13-16, 2011.
26. DishkinPaset J, Ode G, McArthur S, Van Thiel G, Kercher J, Shewman E, Wang V, **Cole BJ**: Effects of Serial Sectioning and Repair of Radial Tears in the Lateral Meniscus. Paper, Annual Meeting of the ORS, Long Beach, CA, January 13, 2011.
27. Kirk S, Gitelis S, Ruta D, Filardo G, Hakimiyan A, Rappoport L, **Cole BJ**, Chubinskaya S: New Insight into Allograft Cartilage: Lessons to be Considered. Annual Meeting of the ORS, Long Beach, CA, January 13-16, 2011.
28. Saltzman BM, Bajaj S, Daley EL, Salata MJ, Verma NN, **Cole BJ**: Prospective Long-Term Evaluatio of Allograft Meniscus Transplantation: A Minimum 7 Year Follow-up. Annual Meeting of the ORS, Long Beach, CA, January 13-16, 2011.
29. Strauss EJ, Salata MJ, McGill K, Nicholson GP, **Cole BJ**, Verma NN, Romeo AA: The High Failure Rate of Biologic Resurfacing in Young Patients with Glenohumeral Arthritis. Annual Meeting of the ORS, Long Beach, CA, January 13-16, 2011.

30. Slabaugh MA, Friel N, Wang FC, Rappaport L, Want V, Chubinskaya S, **Cole BJ**: Effects of Continuous Intra-articular Bupivacaine Infusion on Rotator Cuff Healing: An In Vivo Rabbit Study. Presentation at Annual Meeting of the Society of Military Orthopaedic Surgeons, December 15, 2010; Vail, CO.
31. Slabaugh MA, Frank RM, McGill KC, Barker J, Bush-Joseph CA, **Cole BJ**, Bach Jr. BR, Verma NN: An Institution Specific Analysis of Anterior Cruciate Ligament Reconstruction Failure. Presentation at the Annual Meeting of the Society of Military Orthopaedic Surgeons, December 15, 2010, Vail, CO.
32. Slabaugh MA, Friel N, Karas V, **Cole BJ**: Inter and Intra-observer Variability in Goutallier Staging in Patients with Massive Rotator Cuff Tears. Presentation at Annual Meeting of the Society of Military Orthopaedic Surgeons, December 15, 2010, Vail, CO.
33. Engelhart L, Nelson L, Mordin M, Uddin S, McLeod L, **Cole BJ**, Farr: Psychometric evaluation of the knee injury and osteoarthritis outcome score (KOOS). Interntaional Cartilage Reprsir Society Annual Meeting, Sitkes Spain, September 27, 2010.
34. Daley E, Bajaj S, Kercher J, Salata M, **Cole BJ**: Prospective evaluation of autologous chondrocyte implantation: Minimum 7 year follow-up. Interntaional Cartilage Reprsir Society Annual Meeting, Sitkes Spain, September 27, 2010.
35. Daley E, Bajaj S, Kercher J, Strauss E, Lewis PB, **Cole BJ**: Prospective evaluation of allograft meniscus transplantation: Minimum 7-year follow-up. Interntaional Cartilage Reprsir Society Annual Meeting, Sitkes Spain, September 27, 2010.
36. Nelson L, McLeaod LD, Mordin MM, Farr J, **Cole BJ**, Uddin S, Engelhart L: Psychometri evalation of the Knee Injury and Osteoarthritis Outcome Scoree (KOOS) subscales fro the patients with articular cartilage lesions of the knee using pilot study data of the Cartilage Autograft Implantation System (CAIS). Interntaional Cartilage Reprsir Society Annual Meeting, Sitkes Spain, September 27-30, 2010.
37. Kirk S, Meininger A, Filardo G, Hakimiyan AA, Rappoport L, **Cole BJ**, Kurz A, Chubinskaya S: Osteochondral allograft: Is it an active tissue or just a scaffold? Interntaional Cartilage Reprsir Society Annual Meeting, Sitkes Spain, September 28, 2010.
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39. Campbell J, Filardo G, Bajaj S, Friel NA, Hakimiyan AA, Grumet R, Chubinskaya S, **Cole BJ**: Salvage of contaminated osteochondral allografts: The effects of chlorhexidine on human articular chondrocyte viability. Interntaional Cartilage Reprsir Society Annual Meeting, Sitkes Spain, September 27-30, 2010.
40. Lewis S, DeMuro C, Mordin MM, Farr J, **Cole BJ**, Mithoefer K, Engelhart L: Measuring pain and function in patients with articular cartilage repair. Interntaional Cartilage Reprsir Society Annual Meeting, Sitkes Spain, September 27-30, 2010.
41. Ode G, McArthur S, VanThiel G, Dishkin-Paset J, Shewman E, Wang V, **Cole BJ**: Effects of serial sectioning and repair on radial tears of the lateral meniscus. American Society for Sports Medicine, Providence, RI, July 17.2010.
42. Kirk S, Ruta D, Meininger A, Filardo G, Hikimayan A, Rappoport L, Kurz A, **Cole B**, Chubinskaya S: Osteochondral allograft: Is it an active tissue or just a scaffold? Rush Research Forum, Rush University Medical Center, Chicago, IL, March, 2010.
43. Daley EL, Bajaj S, Bisson LJ, **Cole BJ**: Improving injection accuracy of the elbow, knee and shoulder: Does injection site and imaging make a difference? A systematic review. Rush Research Forum, Rush University

Medical Center, Chicago, IL, March, 2010.

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45. Nho S, Frank R, Reiff S, R Grumet R, **Cole B**, Verma NN, Romeo AA: Retrospective analysis of Arthroscopic SLAP Repair: Prognostic factors associated with failure. Specialty Day, American Society of Sports Medicine, March 13, 2010, New Orleans, LA.
46. Friel NA, Slabaugh M, Wang V, Chubinskaya S, **Cole B**: Rotator Cuff Healing Following Subacromial Bupivacaine Infusion: An *In Vivo* Rabbit Study. American Society of Sports Medicine, March 11, 2010, New Orleans, LA.
47. Van Thiel, GS, Gupta A, Ghodadra N, Shewman E, Provencher MT, Bach BR, Verma NN, Frank RM, **Cole BJ**: Biomechanical evaluation of meniscal transplantation with a high tibial osteotomy. Meniscal Transplant Study Group, American Academy of Orthopedic Surgeons, New Orleans, LA, March 12, 2010.
48. Campbell J, Filardo G, Bajaj S, Friel N, Hakimiyan A, Grumet R, Chubinskaya S, **Cole BJ**: Salvage of contaminated osteochondral allografts: The effects of chlorhexidine on human articular chondrocyte viability. Rush Research Forum, Rush University Medical Center, Chicago, IL, March, 2010.
49. Friel NA, Wang FC, Slabaugh M, Wang V, Chubinskaya S, **Cole B**: Rotator Cuff Healing Following Subacromial Bupivacaine Infusion: An *In Vivo* Rabbit Study. Orthopedic Research Society, New Orleans, LA, March 7-10, 2010.
50. Friel NA, McNickle AG, DeFranco MJ, Wang FC, Shewman E, Verma, NN, **Cole BJ**, Bach BR, Chubinskaya, S, Kramer SS, Wang VM: Effects of Capsaicin 4975 on Tendon Healing and Normal Articular Cartilage: An *In Vivo* Rabbit Study. Orthopedic Research Society, New Orleans, LA, March 7-10, 2010.
51. Slabaugh MA, Karas V, Friel N, **Cole BJ**. Outcome of SLAP Repairs: 2-7 Year Follow-up. Podium presentation at Society of Military Orthopaedic Surgeons, December 2009, Honolulu, HI.
52. Slabaugh MA, Pascual Garrido C, L'Heureux D, **Cole BJ**. Recommendations and Treatment Outcomes for Patellofemoral Articular Cartilage Defects with Autologous Chondrocyte Implantation (ACI): Prospective Evaluation at Average 4-Year Follow-up. Podium presentation at Society of Military Orthopaedic Surgeons, December 2009, Honolulu, HI.
53. Nho SJ, Reiff S, Slabaugh M, **Cole BJ**: Complications associated with subpectoral biceps tenodesis. AOSSM Annual Meeting, Keystone, CO, July 9-12, 2009.
54. Wang FC, McNickle AG, Friel NA, Yanke AB, Wang VM, **Cole BJ**: Medial versus lateral supraspinatus tendon properties: Implications for double-row rotator cuff repair. AOSSM Annual Meeting, Keystone, CO, July 11, 2009.
55. Piasecki DP, Nho SJ, Bhatia S, Boniquit N, Nicholson GP, **Cole BJ**, Romeo AA: Outcomes following arthroscopic revision rotator cuff repair. AOSSM Annual Meeting, Keystone, CO, July 11, 2009.
56. Garrido CP, Slabaugh M, L'Heureux DR, **Cole BJ**: Recommendations and treatment outcomes for patellofemoral articular cartilage defects with autologous chondrocyte implantation (ACI): Prospective evaluation at 4-year follow-up. AOSSM Annual Meeting, Keystone, CO, July 10, 2009.
57. Koyonos L, Yanke AB, McNickle AG, Kirk SS, Kang RW, Lewis PB, **Cole BJ**: A Randomized, prospective double-blind study to investigate the effectiveness of adding dexamethasone to a local anesthetic injection in postmeniscectomy patients with osteoarthritis of the knee. Eastern Orthopaedic Association 40th Annual Meeting, Paradise Island, Bahamas, June 17, 2009,

58. Koyonos L, Yanke AB, McNickle AG, Kirk SS, Kang RW, Lewis PB, **Cole BJ**: A Randomized, prospective double-blind study to investigate the effectiveness of adding depomedrol to a local anesthetic injection in postmeniscectomy patients with osteoarthritis of the knee. OREF Greater Philadelphia Area Resident Research Competition and Symposium, Thomas Jefferson University, Philadelphia, PA, May 9, 2009.
59. Ferry AT, Bhatia S, Romeo AA, Nicholson GP, **Cole BJ**: Arthroscopic management of stiffness following rotator cuff repair: Techniques and Results. 28th Annual Arthroscopy Association of North America, San Diego, CA, April 30, 2009.
60. Verma NN, Piasecki D, Bhatia S, Romeo AA, Baker C, **Cole BJ**, Boniquit N: Outcomes following Arthroscopic revision rotator cuff repair. 28th Annual Arthroscopy Association of North America, San Diego, CA, April 30, 2009.
61. Provencher MT, McNickle A, L'Heureux DR, Romeo AA, **Cole BJ**: Post-surgical glenohumeral arthritis in young adults. 28th Annual Arthroscopy Association of North America, San Diego, CA, April 30, 2009.
62. Van Thiel GS, Sheehan S, Frank R, Slabaugh M, **Cole BJ**, Romeo AA, Nicholson GP, Verma N: Arthroscopic management of glenohumeral degenerative disease, 28th Annual Arthroscopy Association of North America, San Diego, CA, E-Poster, April 30-May 2, 2009.
63. Van Thiel JS, Verma N, Yanke A, Basu S, Farr J, **Cole BJ**: Meniscal allograft size can be predicted by height, weight and gender. 28th Annual Arthroscopy Association of North America, San Diego, CA, E-Poster, April 30-May 2, 2009.
64. Livnat M, Hamood R, Peled E, Levy M, Tal Y, **Cole BJ**, Seliktar D: Articular cartilage and bone repair using in situ polymerizable biodegradable hydrogel implant. 8th World Congress of the International Cartilage Repair Society, Miami, FL, May 26, 2009.
65. Van Thiel, GS, Gupta A, Ghodadra N, Shewman E, Provencher MT, Bach BR, Verma NN, Frank RM, **Cole BJ**: Biomechanical evaluation of meniscal transplantation with a high tibial osteotomy. 8th World Congress of the International Cartilage Repair Society, Miami, FL, May 26, 2009.
66. McNickle AG, DeFranco MJ, Friel NA, Verma NN, **Cole BJ**, Bach BR, Wang VM, CHubinskaya S, Kramer SM: The effect of highly purified capsaicin on normal articular cartilage: An in vivo rabbit study. Miami, FL, May 23, 2009.
67. Farr J, Hosea T, Richmond J, Almqvist KF, Nehrer S, Spalding T, Imhoff AB, Brittberg M, Mandelbaum B, **Cole BJ**: Clinical results from two multi-center, randomized studies of a single stage, cell based procedure for cartilage repair and regeneration: CAIS. Miami, FL, May 23, 2009.
68. Pascual Garrido C, Slabaugh M, L'Hereux D, **Cole BJ**: Recommendations and treatment outcomes for patellofemoral articular cartilage defects with autologous chondrocyte implantation (ACI): Prospective evaluation at average 4 year follow-up. Miami, FL, May 23, 2009.
69. Heehan S, Van Thiel GS, Frank RM, Slabaugh M, Romeo AA, Nicholson GP, Verma NN, **Cole BJ**: Arthroscopic management of glenohumeral degenerative disease. Miami, FL, May 23, 2009.
70. Frank RM, Van Thiel GS, Slabaugh M, Nho SJ, Romeo AA, Nicholson GP, **Cole BJ**, Verma NN: Clinical outcomes after microfracture of the glenohumeral joint. Miami, FL, May 23, 2009.
71. L'Heureux DR, McNickle AG, Provencher MT, Romeo AA, **Cole BJ**: The presentation and management of post-surgical glenohumeral chondrolysis in young adults. Miami, FL, May 23, 2009.
72. L'Heureux DL, McNickle AG, Provencher MT, Romeo AA, **Cole BJ**: The Presentation and Management of Post-Surgical Arthritis in Young Patients. AOSSM Specialty Day, Las Vegas, Nevada, February 28, 2009.

73. L'Heureux DL, McNickle AG, Provencher MT, Romeo AA, **Cole BJ**: The Presentation and Management of Post-Surgical Arthritis in Young Patients. ASES Specialty Day, Las Vegas, Nevada, February 28, 2009.
74. Dasilva J, Ghodadra NS, **Cole BJ**, Bush-Joseph CA, Bach BR, Kirk S: Clinical Outcome Following hamstring Over-The Top ACL Reconstruction in Skeletally Immature Patients. AAOS Annual Meeting, Las Vegas, Nevada, February 25, 2009,
75. **Cole BJ**, Koyonos L, Yanke AB, McNickle A, Kirk S, Kang RW: Results of DepoMedrol Injection in Post-Menisectomy Patients with Osteoarthritis of the Knee. AAOS Annual Meeting, Las Vegas, Nevada, February 25, 2009,
76. Van Theil G, Verma NN, McNickle AG, Yanke AB, Farr J, **Cole BJ**: Meniscal Allograft Size: Can it be Predicted by Height and Weight? AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008.
77. Piasecki DP, Bhatia S, **Cole BJ**, Nicholson GP, Boniquit N, Romeo AA, Verma NN: Outcome of Workers' Compensation Patients Following Arthroscopic Full-Thickness Rotator Cuff Repair. AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008.
78. Farr J, Almqvist F, Neher S, Brittberg M, Mandelbaum BR, Hosea TM, Imhoff A, Spalding T, Richmond JC, **Cole BJ**: Single Surgery Autograft Cartilage with Scaffold Implant: Preliminary Report. AOSSM Annual Meeting, Orlando, FL, July 13, 2008.
79. Rue JP, Colton AE, Zare SM, Shewman E, Farr J, Bach BR, **Cole BJ**: Trochlear Contact Pressures after Straight Anteriorization of the Tibial Tubercle. AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008.
80. DeFranco M, Verma NN, **Cole BJ**, McNickle A, Bach B, Chubinskaya S, Shewman E, Wang V : The Effects of anesthetic drug on normal articular cartilage and tendon healing : An in vivo rabbit study. 20th Annual Thesis Day, Rush University Medical Center, June 20, 2008.
81. Ruta D, Meininger AK, Hakimiyan AA, McNickle A, **Cole BJ**, Chubinskaya S. "Effect of proinflammatory mediators on metabolism of osteochondral allograft cartilage". Cartilage Innovation Summit, Cleveland, May 7-10, 2008.
82. Rue JP, Yanke A, Busam ML, McNickle AG, **Cole BJ**: Prospective Evaluation of Concurrent Meniscus Transplantation and Articular Cartilage Repair: Minimum 2 Year Follow-Up. Herodicus Society Annual Meeting, Naples, FL, April 26, 2008.
83. Colton AE, Rue JP, Shewman E, Zare S, Bach BR, Farr J, **Cole BJ**: Trochlear contact pressures after straight anteriorization of the tibial tubercle. 27th Annual Arthroscopy Association of North America, Washington, DC, April 24-26, 2008.
84. **Cole BJ**, McNickle AG, L'Heureux DR, Kirk SS, Yanke A: Autologous Chondrocyte Implantation: Functional and Symptomatic Outcomes Beyond Two Years. 27th Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008.
85. DeBerardino TM, Brewster RC, **Cole BJ**, Farr J, Fowler PJ, Nissen CW, Zaslav KR: Improvement in Symptoms and Function After Autologous Chondrocyte Implantation in Patients Who Failed Prior Treatment: Results of the Study of Treatment of Articular Repair (STAR). 27th Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008.
86. Rue JP, **Cole BJ**, Bussam M, Yanke A: Prospective Evaluation of Concurrent Meniscus Transplantation and Articular Cartilage Repair. 27th Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008.
87. McNickle AG, Wang VM, Yanke AB, Kang RW, **Cole BJ**, Williams JM: Performance of a Sterile Meniscal Allograft in an Ovine Model. National Student Research Forum, Galveston, TX, April 24-25, 2008.

88. McNickle AG, L'Heureux DR, Kirk SS, Yanke AB, **Cole BJ**: Autologous Chondrocyte Implantation: Functional and Symptomatic Outcomes Beyond Two Years. Rush Research Forum, Rush Univeristy Medical Center, Chicago, IL, April 23-24, 2008.
89. Yeshwant SC, Koyonos L, Yanke AB, McNickle AG, Foucher KC, **Cole BJ**: A Gait Study Assessing Medial Compartment Load with an Off-the-Shelf Unloading Knee Brace. Rush Research Forum, Rush Univeristy Medical Center, Chicago, IL, April 23-24, 2008.
90. L'Heureux, DR, McNickle AG, Provencher MT, **Cole BJ** : Post-Surgical Glenohumeral Arthritis in Young Adults. Rush Research Forum, Rush Univeristy Medical Center, Chicago, IL, April 23-24, 2008.
91. Ruta D, Hakimiyan A, McNickle AG, **Cole BJ**, Chubinskaya S: Effects of Local Inflammatory Conditions on the Preservation of Allograft Cartilage. Rush Research Forum, Rush Univeristy Medical Center, Chicago, IL, April 23-24, 2008.
92. Rue JPH, Yanke AB, Busam ML, **Cole BJ**: Prospective evluation of concurrent meniscus transplantation and articular cartilage repair. American Orthopedic Society for Sports Medicine, San Francisco, CA, April 23-24, 2008.
93. McNickle AG, L'Heureux DR, Baker CB, Romeo AA, Nicholson GP, **Cole BJ**, Verma NN: Outcomes of Combined Rotator Cuff Repair and Superior Labrum, Anterior to Posterior (SLAP) Repair. ISAKOS, Osaka, Japan, April 5-9, 2008.
94. Ferry AT, Bhatia S, Romeo AA, Nicholson GP, **Cole BJ**, Verma NN: Arthroscopic Management of Stiffness Following Rotator Cuff Repair: Techniques and Results. ISAKOS, Osaka, Japan, April 5-9, 2008.
95. Piasecki DP, Bhatia S, **Cole BJ**, Nicholson GP, Boniquit N, Romeo AA, Verma NN: Outcome of Worker's Compensation Patients Following Arthroscopic Full Thickness Rotator Cuff Repair. ISAKOS, Osaka, Japan, April 5-9, 2008.
96. Van Theil G, Verma NN, Yanke A, McNickle AG, Farr J, **Cole B**: Meniscal allograft size: Can it be predicted by height and weight? . ISAKOS, Osaka, Japan, April 5-9, 2008.
97. Colton AE, Rue JP, Shewman E, Zare S, Bach BR, Farr J, **Cole BJ**: Trochlear contact pressures after straight anteriorization of the tibial tubercle. American Academy of Orthopedic Surgeons, San Francisco, CA, March 7, 2008.
98. McNickle AG, L'Heureux DR, Kirk SS, Yanke AB, **Cole BJ**: Autologous chondrocyte implantation: Functional and symptomatic outcomes beyond two years. Orthopedic Research Society, San Francisco, CA, March 2-5, 2008.
99. Yanke A, **Cole BJ**, Kang RW, Chubinskaya S, Williams JM, Gomoll A: Long-term effects of continuous intraarticular Bupivacaine infusion in the rabbit shoulder. 89th Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 15, 2007.
100. Wimmer M, Nagel T, Goerke U, Muehleman C, Williams J, **Cole BJ**: Cartilage strains during insertion of osteochondral grafts and their relationship to chondrocyte viability. International Cartilage Repair Society, Warsaw, Poland, September 29, 2007.
101. Williams J, Brown L, **Cole BJ**: Meniscus allograft transplantation using chemically sterilized menisci: Biomchemica, histological and biomechanical evaluation in an ovine model. Combined Meeting of the Research Societies, Hawaii, October 21, 2007.
102. **Cole BJ**, Brewster R, DeBeradino T, Farr J, Fowler PJ, Nissen CW, Zaslav K: Improvements in symptoms and function after autologous chondrocyte implantation (ACI) in patients who failed prior treatment. Results of the Study of Treatment of Articular Repair (STAR). AOSSM Annual Meeting, Calgary, CA, July 15, 2007.

103. Yanke A, **Cole BJ**, Kang RW, Chubinskaya S, Williams JM, Gomoll A: Long-term effects of continuous intra-articular Bupivacaine infusion in the rabbit shoulder. AOSSM Annual Meeting, Calgary, CA, July 15, 2007.
104. Balash P, Kang RW, Yanke A, Schwenke T, Williams JM, **Cole BJ**, Wimmer M: Osteochondral tissue cell viability is affected by impaction during transplantation: A controlled laboratory study of the biologic effects of repeated and varying impulses on osteochondral grafts. Poster, AOSSM Annual Meeting, Calgary, CA, July 12-15, 2007.
105. Busam M, Rue JP, Yanke A, **Cole BJ**: Meniscal allograft transplantation and concomitant articular cartilage restoration. Fellow Thesis Day, Rush University Medical Center, June 22, 2007.
106. Colton AE, Rue JP, Shewman E, Zare S, Bach BR, Farr J, **Cole BJ**: Trochlear contact pressures after straight anteriorization of the tibial tubercle. Fellow Thesis Day, Rush University Medical Center, June 22, 2007.
107. Wimmer M, Nagel T, Goerke U, Muehleman C, Williams JM, **Cole BJ**: Cartilage strains during insertion of osteochondral grafts and their relationship to chondrocyte viability. International Cartilage Repair Society Meeting, Warsaw, Poland, October 1, 2007.
108. Cole J, Wang V, Singaraju V, Kang R, Turner D, **Cole BJ**: Efficacy of MRI in Quantifying Physiologic Changes of the Human Supraspinatus Musculo-Tendinous Unit After Chronic Rotator Cuff Tears. 33rd Annual Meeting of the Herodicus Society. Florence, Italy, May 25, 2007.
109. Chen AL, Kang RW, Lewis PB, McCarty LP, Alford W, Hayden JK, **Cole BJ**: Arthroscopic Rotator Cuff Repair: Prospective Functional Outcome of Repair Integrity at Minimum 2-Year Follow-Up. 6th Biannual ISAKOS Meeting, Florence, Italy, May 27th, 2007.
110. Gomoll AH, Kang RW, Williams JM, Bach BR, **Cole BJ**: Chondrolysis after continuous intra-articular Bupivacaine infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. 6th Biannual ISAKOS Meeting, Florence, Italy, May 27th, 2007.
111. Walczak BE, McCulloch PM, Kang RW, Zelazny A, **Cole BJ**: Prevalence of abnormal MRI findings in the knee of asymptomatic NBA players. 6th Biannual ISAKOS Meeting, Florence, Italy, May 27th, 2007.
112. Kang RW, Wimmer MA, Kressner T, Pacione CA, Oegema TR, Williams JM, **Cole BJ**: Biologic Effects of Multiple Impaction Cycles on Osteochondral Grafts. Poster, 6th Biannual ISAKOS Meeting, Florence, Italy, May 27th-30th, 2007.
113. McCulloch PC, Kang RW, Sobhy MH, Hayden J, Koyonos LD, **Cole BJ**: Prospective evaluation of prolonged fresh osteochondral allograft transplantation of the femoral condyle: Minimum 2 year follow-up. Poster, 6th Biannual ISAKOS Meeting, Florence, Italy, May 27th-30th, 2007.
114. Singaraju V, Kang R, Lewis P, Williams J, **Cole BJ**: Quantitative Analysis of Neuronal Plasticity Correlated with Clinical Pathology of the Biceps Brachii Tendon. Poster, 6th Biannual ISAKOS Meeting, Florence, Italy, May 27th-30th, 2007.
115. Cole J, Wang V, Yanke A, Singaraju V, Kang R, Turner D, **Cole BJ**: Efficacy of MRI in quantifying physiologic changes of the human supraspinatus musculotendinous unit. 26th Annual AANA Meeting, San Francisco, CA, April 26-29, 2007.
116. Nicholson GP, Goldstein J, Romeo AA, McCarty LP, Hayden JK, **Cole BJ**, Twigg SL: Lateral meniscus allograft biologic arthroplasty for TSA for young shoulders with DJD. Poster, 74th Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-18, 2007.
117. Gomoll A, **Cole BJ**, Kang R, Williams JM, Bach BR: Chondrotoxicity of intra-articular pain pumps: An experimental study in the rabbit shoulder. 74th Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 16, 2007.

118. Lattermann C, Anbari A, Meininger A, **Cole BJ**, Romeo AA: 3 year follow-up of arthroscopic treatment for lateral epicondylitis. Poster, 74th Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-18, 2007.
119. McCulloch PC, Kang RW, Sobhy MH, Hayden J, Koyonos LD, **Cole BJ**: Prospective evaluation of prolonged fresh osteochondral allograft transplantation of the femoral condyle: Minimum 2 year follow-up. Poster, 74th Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-18, 2007.
120. Friel NA, Kang RW, Yanke AB, Schwenke T, Williams JM, **Cole BJ**, Wimmer MA: Nitric oxide and glycosaminoglycan responses to impaction loads during osteochondral transplantation. Poster, Orthopedic Research Society Annual Meeting, San Diego, CA, February 11-14, 2007.
121. Cole JS, Wang VM, Yanke AB, Singaraju V, Kang RW, Turner DA, **Cole BJ**: Efficacy of MRI in quantifying physiologic changes of the human musculo-tendinous unit after chronic rotator cuff tears. (Poster Presentation: Orthopedic Research Society Annual Meeting, San Diego, CA, February 11-14, 2007)
122. Gomoll AH, Kang RW, Williams JM, Bach BR, **Cole BJ**: Chondrolysis after continuous intra-articular Bupivacaine infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. 88th Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 10, 2006.
123. Gobezie R, Lavery K, **Cole BJ**, Millett PJ, Warner JJP: Interobserver and intraobserver variability in the diagnosis and treatment of SLAP lesions amongst experienced shoulder arthroscopists: A study of 73 surgeons across two continents. Closed Meeting of the American Shoulder and Elbow Surgeons, Chicago, IL, September 13-15, 2006.
124. Nicholson GP, Goldstein J, Romeo AA, McCarty LP, Hayden JK, **Cole BJ**, Twigg SL: Lateral meniscus allograft biologic glenoid arthroplasty for TSA for young shoulders with DJD, American Shoulder and Elbow Surgeons Biologics in Shoulder Surgery, p 98, Chicago, IL September 16, 2006.
125. Kang RW, Gomoll AH, Williams JM, Bach BR, **Cole BJ**: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. Herodicus Society, Hershey, PA, June 27, 2006.
126. **Cole BJ**, Alford W, Hayden JK, Pylawka T, Lewis P: All Arthroscopic Rotator Cuff Repair: Prospective Evaluation at Minimum 2-year Follow-up. 5th Annual Biennial AAOS/ASES Shoulder and Elbow: Current Techniques and Controversies, Orlando, FL, April 7, 2006.
127. Kang RW, Gomoll AH, Williams JM, Bach BR, **Cole BJ**: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Abstract Book, Poster Number 86, April 5-6, 2006.
128. Kang RW, Gomoll AH, Williams JM, Bach BR, **Cole BJ**: Chondrolysis after Continuous Intra-Articular Bupivacaine Infusion: An experimental model investigating chondrotoxicity in the rabbit shoulder. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Podium Presentation, April 5, 2006.
129. Kang RW, Wimmer MA, Kressner T, Pacione CA, Oegema TR, Williams JM, **Cole BJ**: Biologic Effects of Multiple Impaction Cycles on Osteochondral Grafts. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Abstract Book, Poster Number 87, April 5-6, 2006.
130. Lewis PB, Alford JW, Kang RW, **Cole BJ**: Rapid Chondral Degeneration of the Lateral Compartment after Meniscectomy: Case Report and Biomechanical Review. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Abstract Book, Poster Number 88, April 5-6, 2006.
131. Koyonos LD, Kang RW, McCulloch PC, Sobhy MH, Hayden JK, **Cole BJ**: Prospective Evaluation of Fresh Osteochondral Allograft Transplantation of the Femoral Condyle: Minimum 2-year Follow-Up. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Abstract Book, Poster Number 90, April 5-6, 2006.

132. Chen AL, Kang RW, Lewis PB, McCarty LP, Alford W, Hayden JK, **Cole BJ**: Arthroscopic Rotator Cuff Repair: Prospective Functional Outcome of Repair Integrity at Minimum 2-Year Follow-Up. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Abstract Book, Poster Number 96, April 5-6, 2006.
133. Kramer AT, Kang RW, Lewis PB, **Cole BJ**: Prospective Randomized Single-Blinded Controlled Clinical Trial of Percutaneous Neuromodulation Pain Therapy Device versus Sham Percutaneous Neuromodulation Pain Therapy for the Osteoarthritic Knee. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Abstract Book, Poster Number 97, April 5-6, 2006.
134. Singaraju VM, Lewis PB, Kang RW, Williams JM, **Cole BJ**: Quantitative Analysis of Neuronal Plasticity Correlated with Clinical Pathology of the Biceps Brachii Tendon. *Rush University Forum for Research and Clinical Investigation*, Chicago, IL, Abstract Book, Poster Number 101, April 5-6, 2006.
135. **Cole BJ**, Kang R Alford W, Winslow A, McCarty P, Hayden J, Pylawka T: Arthroscopic rotator cuff repair: Prospective evaluation at minimum two-year follow-up with MRI evaluation. 73rd Annual Meeting of the AAOS, AOSSM Specialty Day, March 25, 2006.
136. Chubinskaya S, Hakimiyan A, Rappoport L, Rueger DC, Sobhy M, **Cole B**: Response of Human Chondrocytes Prepared for Augologous Chondrocyte Implantation to Growth Factors. International Cartilage Repair Society 6th Annual Symposium, San Diego, CA, January 8-11, 2006.
137. Meininger AKM, Glenn REG, **Cole BJ**, Romeo AAR: Articular Cartilage Thickness of the Humeral Head: An Anatomic Study. International Cartilage Repair Society 6th Annual Symposium, San Diego, CA, January 9, 2006.
138. **Cole BJ**, Sobhy MHS, Kang RWK, Hayden JKH, Koyonos, LDK, McCullough, P: Prospective Evaluation of Fresh Osteochondral Allograft Transplantation of the Femoral Condyle: Minimum 2 Year Follow-Up. International Cartilage Repair Society 6th Annual Symposium, San Diego, CA, January 9, 2006.
139. **Cole BJ**, Kang R Alford W, Winslow A, McCarty P, Hayden J, Pylawka T: Arthroscopic rotator cuff repair: Prospective evaluation at minimum two-year follow-up with MRI evaluation. 22nd Annual Closed Meeting of the American Shoulder Elbow Surgeons, Palm Beach, FL, November 10, 2005.
140. **Cole BJ**, Dhanaraj S, Yiling Lu E, Wang Z, Shetty D, Bradley D, Binette F: Minced articular cartilage versus cartilage bone paste: Investigation of a novel single-stage approach for the treatment of cartilage defects. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 16, 2005.
141. **Cole BJ**, Dhanaraj S, Yiling Lu E, Wang Z, Shetty D, Bradley D, Binette F: Minced autogenous cartilage and a novel scaffold for articular cartilage repair: A pre-clinical experience in SCID mice and goats. 31st Annual Meeting of the Herodicus Society, Vail Colorado, July 9, 2005.
142. Wimmer MA, Muller S, Pylawka T, Gorke UJ, **Cole BJ**, Williams JM: Mechanical and cellular response of osteochondral tissue during impaction grafting. 2005 Summer Bioengineering Conference, Vail Colorado, June 26, 2005.
143. Flik K, Bach BR, **Cole BJ**, Bush-Joseph C, Hayden J: Internal fixation of unstable OCD lesions of the knee in the teenage patient. 17th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 10, 2005.
144. Risinger R, Hayden J, **Cole BJ**, Bush-Joseph C: Salvage of catastrophic extensor mechanism loss: A case series and operative technique. 17th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 10, 2005.
145. Lin JL, Carreira DS, Hallab NJ, Ponnappan RK, Hayden J, Pylawka T, Williams JM, Volz B, **Cole BJ**: The use of bipolar radiofrequency devices to enhance repair of chronic complete supraspinatus tears in rats. A biomechanical and histological analysis. 17th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 10, 2005.

146. Yanke A, **Cole B**, Pylawka T, Lewis P, MacGillivray J, Williams J: Improving rotator cuff repair: Histological evaluation of a reticulated polycarbonate polyurethane patch in a rat model. Rush University Forum for Research and Clinical Investigation, Rush University Medical Center, Chicago, IL, April 6, 2005.
147. Lewis P, Williams J, Hallab NJ, **Cole BJ**: Improving meniscal transplant yield: Histological evaluation of cryopreserved meniscal allografts after four freeze-thaw cycles. Rush University Forum for Research and Clinical Investigation, Rush University Medical Center, Chicago, IL, April 6, 2005.
148. Pylawka TK, Viridi AS, Wimmer MA, **Cole BJ**, Williams JM: Role of nitric oxide in metabolic function of cold preserved allograft cartilage. Rush University Forum for Research and Clinical Investigation, Rush University Medical Center, Chicago, IL, April 6, 2005.
149. Meininger AK, Glenn RE, Fox JA, **Cole BJ**, Romeo AA, Hayden JK: Articular cartilage thickness of the humeral head: An anatomic study. Rush University Forum for Research and Clinical Investigation, Rush University Medical Center, Chicago, IL, April 6, 2005.
150. Lewis P, Beck PR, Thomas AL, Farr J, **Cole BJ**: Patellofemoral contact pressures following anteromedialization of the tibial tubercle: A biomechanical study. Rush University Forum for Research and Clinical Investigation, Rush University Medical Center, Chicago, IL, April 6, 2005.
151. Makda J, Alford W, Hayden J, Pylawka T, **Cole B**: Arthroscopic rotator cuff repair: Prospective evaluation at minimum two-year follow up. Rush University Forum for Research and Clinical Investigation, Rush University Medical Center, Chicago, IL, April 6, 2005.
152. Makda J, Kalsi RS, **Cole BJ**, Pylawka T, Nho SJ, Hayden JK: Prospective evaluation of autologous chondrocyte implantation: A midterm follow-up. Rush University Forum for Research and Clinical Investigation, Rush University Medical Center, Chicago, IL, April 6, 2005.
153. **Cole BJ**, Alford W, Hayden J, Pylawka T, Lewis P: Arthroscopic Rotator Cuff Repair: Prospective Evaluation at Minimum 2-Year Follow Up. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Miami FL, April 4, 2005.
154. **Cole BJ**, Carreira D, Hallab N, Ponnappan R, Hayden J, Pylawka T, Williams J: Bipolar Radiofrequency Energy Enhanced Repair of Chronic Supraspinatus Tears in Rats. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Miami FL, April 4, 2005.
155. Pylawka TK, Williams JM, Viridi AS, **Cole BJ**, Wimmer MA: Impaction effects on cell viability in osteochondral tissues during transplantation. AOSSM Specialty Day, Washington, DC, February 26, 2005.
156. **Cole BJ**, Thomas A, Farr J, Beck PR: Patellofemoral contact forces following anteromedialization of the tibial tubercle, 72nd Annual Meeting of the AAOS, Washington, DC, February 23-26, 2005.
157. **Cole BJ**, Lu Y, Dhannaraj S, Binette F: Autologous cartilage fragments on a resorbable scaffold: Single stage treatment for cartilage defects. Proceedings of the 72nd Annual Meeting of the AAOS, Washington, DC, February 25, 2005.
158. **Cole BJ**, Lin J, Carreira D, Hallab N, Ponappan R, Hayden J, Pylawka T, Williams J, Romeo A, Volz B: bRF energy-enhanced repair of chronic supraspinatus tears in rats. 72nd Annual Meeting of the AAOS, Washington, DC, February 25, 2005.
159. Pylawka T, **Cole BJ**, Williams JM, Viridi A, Wimmer M: Role of nitric oxide in metabolic function of cold preserved allograft cartilage. 72nd Annual Meeting of the AAOS, Washington, DC, February 23-26, 2005.
160. Nho SJ, **Cole BJ**, Mazzocca AD, Williams JM, Romeo AA, Bush-Joseph CA, Bach BR, Hallab NJ: Comparison of ultrasonic suture welding versus traditional knot tying in a rabbit rotator cuff repair model. 51st Annual Meeting of the ORS, Washington, DC, February 20-23, 2005.

161. **Cole BJ**, Nho SJ, Mazzocca AD, Williams JM, Romeo AA, Bush-Joseph CA, Bach BR, Hallab NJ: Ultrasonic suture welding verses traditional knot tying in a rabbit rotator cuff repair model. 4th Biennial AAOS/ASES Shoulder and Elbow: Current Techniques and Controversies, Monterey, CA October 15, 2004.
162. **Cole BJ**, Lin JL, Carreira D, Hallab NJ, Ponappan R, Hayden J, Pylawka T, Williams JM, Volz B: Bipolar radiofrequency energy enhanced repair of chronic supraspinatus tears in rats. 21st Annual Closed Meeting of the American Shoulder Elbow Surgeons, New York, NY, Sept 29th, 2004.
163. Beck PW, Thomas AL, Farr J, **Cole BJ**: Patellofemoral contact pressures following anteromedialization of the tibial tubercle, AOSSM Annual Meeting, Quebec City, June 24-27, 2004.
164. Lee SJ, Aadalen KJ, Lorenz EP, Malavia P, Hayden JK, Farr J, **Cole BJ**: Tibiofemoral contact mechanics following serial medial meniscectomies in the human cadaveric knee, AOSSM Annual Meeting, Quebec City, June 24-27, 2004.
165. Alford JW, Pylawka T, Hayden JK, Makda J, Kalsi R, **Cole BJ**: Prospective outcomes of all-arthroscopic rotator cuff repair: 1 year minimum follow-up, 16th Annual Resident Thesis Day, Rush University Medical Center, May 28, 2004.
166. Beck PR, Thomas A, Farr J, **Cole BJ**: Patellofemoral contact following anteromedialization of the tibial tubercle, 16th Annual Resident Thesis Day, Rush University Medical Center, May 28, 2004.
167. Pylawka T, Viridi AS, **Cole BJ**, Williams J, Wimmer M: Production and Reversal of Nitric Oxide Induced Suppression of Metabolic Function in Cold Preserved Allograft Cartilage. 5th Annual International Cartilage Repair Society Meeting, Belgium, May 27, 2004.
168. Lee SJ, Aadalen KJ, Lorenz EP, Malaviya P, Hayden JK, Farr J, **Cole BJ**: Tibiofemoral contact mechanics following serial medial meniscectomies in the human cadaveric knee. 5th Annual International Cartilage Repair Society Meeting, Belgium, May 27, 2004.
169. Pylawka T, Viridi A, **Cole BJ**, Wimmer, MA: Impaction effects on cell viability in osteochondral tissues during transplantation. 5th Annual International Cartilage Repair Society Meeting, Belgium, May 27, 2004.
170. Merrihew C, Pfister BE, Miyazaki T, Thonar EJ, **Cole BJ**, Masuda K: Age-related changes in the biomechanical properties of scaffold-free engineered cartilage tissue-challenge to the age limitation. 50th Trans Ortho Res Soc, 29:2004. 50th Annual Meeting of the Orthopedic Research Society, San Francisco, CA, March 7-10, 2004.
171. Edwards RB, Bogdanske JJ, **Cole BJ**, Muir P, Meyer M, Markel M: Prototype radiofrequency energy probe stabilizes cartilage matrix in a 6 month in vivo equine model of partial thickness cartilage injury. 50th Annual Meeting of the Orthopedic Research Society, San Francisco, CA, March 7-10, 2004.
172. Kolb E, **Cole BJ**, Berkson E, Garretson R, Farr J, Fregly B: The effects of medial meniscal transplantation techniques on intra-articular contact pressures. Poster, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10-14, 2004.
173. Romeo AA, **Cole BJ**: Open versus arthroscopic bankart repair for anterior shoulder instability. Poster, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10-14, 2004.
174. Kolb EH, **Cole BJ**, Berkson E, Farr J: The effects of medial meniscal transplantation techniques on intra-articular contact pressures. 15th Annual Thesis Day, Department of Orthopedic Surgery, Rush University, Chicago, IL, June 27, 2003.
175. Katolik LI, **Cole BJ**, Romeo AA, Verma N, Hayden J, Bach BB: Normalization of the Constant Score. The effects of medial meniscal transplantation techniques on intra-articular contact pressures. 15th Annual Thesis Day, Department of Orthopedic Surgery, Rush University, Chicago, IL, June 27, 2003.

176. Sasso LM, **Cole BJ**, Nho SJ, Beddow SA, DiMasi M, Hayden JK: Prospective evaluation of autologous chondrocyte implantation. Presented at the Sigma Xi Poster Session, Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 8-10, 2003.
177. Lee SJ, Nho SJ, Kalsi RS, Sasso L, **Cole BJ**: The effect of monopolar radiofrequency energy on the biomechanical properties of chondromalacic human cartilage. Presented at the Sigma Xi Poster Session, Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 8-10, 2003.
178. Kalsi RS, **Cole BJ**, Beddow S, DiMasi MD, Hayden JK, Nho SJ: Prospective evaluation of functional results of allograft meniscus transplantation. Presented at the Sigma Xi Poster Session, Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 8-10, 2003.
179. Williams JM, **Cole BJ**, Viridi AS, Pylawka TK, Edwards R, Markel M: Prolonged cold preservation of femoral condyles for osteochondral allograft transplantation. Presented at the Sigma Xi Poster Session, Rush University forum for Research and Clinical Investigation, Chicago, IL, April 8-10, 2003.
180. Nho SJ, Mazzocca AD, **Cole BJ**, Williams JM, Romeo AA, Bush-Joseph CA, Bach BR Jr, Hallab NJ: Comparison of ultrasonic suture welding and traditional knot tying in a rabbit model: a biomechanical analysis. Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 8-10, 2003.
181. Nho SJ, Mazzocca AD, **Cole BJ**, Williams JM, Romeo AA, Bush-Joseph CA, Bach BR Jr, Hallab NJ: Comparison of ultrasonic suture welding and traditional knot tying in a rabbit model: a biomechanical analysis. Presented at the Sigma Xi Poster Session, Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 8-10, 2003.
182. **Cole BJ**, Dennis MG, Lee SL, Nho BA, Sasso BS, Beddow BS, DiMasi MM, Hayden JK: Prospective evaluation of allograft meniscus transplantation: A minimum two-year follow up. 49th Orthopedic Research Society, New Orleans, LA, February 2-5, 2003.
183. **Cole BJ**, Dennis MG, Lee SL, Nho BA, Sasso BS, Beddow BS, DiMasi MM, Hayden JK: Prospective evaluation of allograft meniscus transplantation: A minimum two-year follow-up. American Orthopedic Society for Sports Medicine Specialty Day, New Orleans, LA, February 8, 2003.
184. **Cole BJ**, Fox J, Nho S, Lee S, Sasso L, DiMasi M, Hayden J: Prospective evaluation of allograft meniscus transplantation: A minimum two-year follow-up. American Orthopedic Society for Sports Medicine Specialty Day, New Orleans, LA, February 8, 2003.
185. **Cole BJ**, Fox J, Nho S, Lee S, Sasso L, DiMasi M, Hayden J: Prospective evaluation of allograft meniscus transplantation: A minimum two-year follow-up. 70th Annual American Academy of Orthopaedic Surgeons, New Orleans, LA, February 6, 2003.
186. **Cole BJ**, Katolik L, Nho S, Hayden J, Bach BR, Romeo AA: Normalization data for the Constant score. 70th Annual American Academy of Orthopaedic Surgeons, New Orleans, LA, February 6, 2003.
187. **Cole BJ**, Nho SJ, Beddow SA, Sasso BS, DiMasi M, Hayden JK: Prospective evaluation of autologous chondrocyte implantation. Hospital for Special Surgery, 84th Annual Alumni Meeting, November 8, 2002.
188. **Cole BJ**, Nho SJ, Beddow SA, Kalsi R, DiMasi M, Hayden K: Prospective evaluation of allograft meniscus transplantation. Hospital for Special Surgery, 84th Annual Alumni Meeting, November 8, 2002.
189. **Cole BJ**, Nho SJ, Romeo AA, Katolik LI, Hayden JK, Bach BR: Normalization data of the Constant-Murley shoulder scoring system. Hospital for Special Surgery, 84th Annual Alumni Meeting, November 8, 2002.
190. Romeo A, **Cole BJ**, Bush-Joseph CB, Bach B, Nho S: Normalization Data for the Constant Score, European Shoulder and Elbow Meeting (SECE), Budapest, September 19-21, 2002.

191. **Cole BJ**, Nho SJ, Bansal S, Freedman KB, Romeo AA, Bush-Joseph CA, Bach BR, Turner DA: The Effect of Radiofrequency Energy on Non-Weight Bearing Areas of Subchondral Bone. American Orthopaedic Society for Sports Medicine, Orlando, FL, June 30-July 3, 2002.
192. **Cole BJ**, Virdi AS, Edwards R, Markel M, Sumner R, Williams: Cold Preservation of Osteochondral Material for Transplantation. 4th Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002.
193. **Cole BJ**, Nho SJ, Bansal S, Freedman KB, Romeo AA, Bush-Joseph CA, Bach BR, Turner DA: The Effect of Radiofrequency Energy on Non-Weight Bearing Areas of Subchondral Bone. 4th Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002.
194. **Cole BJ**, Garretson RB, Katolik LI, Bach BR, Verma N: Contact Pressure at Osteochondral Donor Sites in the Patellofemoral Joint. 4th Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002.
195. Freedman KB, Smith A, **Cole BJ**, Romeo AA, Bach BR: Open Versus Arthroscopic Bankart Repair for Traumatic Unilateral Recurrent Instability of the Shoulder. 14th Annual Thesis Day, June 7, 2002.
196. Bansal SL, Romeo AA, Bach BR, **Cole BJ**, Bush-Joseph CA, Turner DA, Freedman KB, Nho SJ: The effect of radiofrequency energy on non-weight bearing areas of subchondral bone. Presented at the Sigma Xi Poster Session, Rush University For Research and Clinical Investigation, Chicago, IL, April 2-4, 2002.
197. Williams JM, Virdi AS, **Cole BJ**, Sumner DR, Edwards RB: Cold preservation of osteochondral material for transplantation. Presented at the Sigma Xi Poster Session, Rush University For Research and Clinical Investigation, Chicago, IL, April 2-4, 2002.
198. Nho SJ, **Cole BJ**, Heiner JP, Markel MD, Edwards RB, Lu Y: Thermal chondroplasty with bipolar and monopolar radiofrequency energy: Effect of treatment time on chondrocyte death and surface contouring. Presented at the Sigma Xi Poster Session, Rush University For Research and Clinical Investigation, Chicago, IL, April 2-4, 2002.
199. Nho SJ, **Cole BJ**, Heiner JP, Markel MD, Edwards RB, Lu Y: Lavage solution temperature influences effects of monopolar radiofrequency energy used for thermal chondroplasty. Presented at the Sigma Xi Poster Session, Rush University For Research and Clinical Investigation, Chicago, IL, April 2-4, 2002.
200. Nho SJ, **Cole BJ**, Lu Y, Edwards RB, Heiner JP, Markel MD: Lavage solution temperature influences effects of monopolar radiofrequency energy used for thermal chondroplasty. Presented at the 52nd Annual Meeting of the American Medical Students Association, Houston, TX, March 2002.
201. Nho SJ, **Cole BJ**, Bansal S, Romeo AA, Bush-Joseph CA, Bach BR, Turner DA: The effect of radiofrequency energy on non-weight bearing areas of subchondral bone. Presented at the 52nd Annual Meeting of the American Medical Students Association, Houston, TX, March 2002.
202. Garretson RB, **Cole BJ**, Katolik LI, Verma N, Bach BR: Contact pressure at osteochondral donor sites in the patellofemoral joint. American Society for Sports Medicine Specialty Day, Dallas, TX, February 16, 2002.
203. Lu Y, Edwards RB, Nho S, Heiner JP, **Cole BJ**, Markel MD: Thermal chondroplasty with bipolar and monopolar radiofrequency energy: Effect of treatment time on chondrocyte death and surface contouring. 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, Dallas, TX, February 13-17, 2002.
204. Masuda K, Tatsuya M, **Cole B**, An H, Hejna M, Thonar E: Tissue engineered human articular cartilage produced from knee biopsy specimen: Alginate-recovered-chondrocyte method and Osteogenic Protein-1. 69th Annual Meeting of the American Academy of Orthopaedic Surgeons, Dallas, TX, February 13-17, 2002.
205. Lu Y, Edwards RB, Nho S, Heiner JP, **Cole BJ**, Markel MD: Lavage solution temperature influences effects of monopolar radiofrequency energy used for thermal chondroplasty. 48th Annual Orthopaedic Research Society, Dallas, TX, February 10-13, 2002.

206. Lu Y, Edwards RB, Nho S, Heiner JP, **Cole BJ**, Markel MD: Thermal chondroplasty with bipolar and monopolar radiofrequency energy: Effect of treatment time on chondrocyte death and surface contouring. 48th Annual Orthopaedic Research Society, Dallas, TX, February 10-13, 2002.
207. Garretson RB, Katolik LI, Bach BR, Verma N, **Cole BJ**: Dynamic contact pressure in the patellofemoral joint. OREF Midwest Resident Research Symposium, University of Chicago, Chicago, IL, April 6, 2001.
208. **Cole BJ**: Early functional results of meniscal transplantation, Illinois Association of Orthopaedic Surgeons, Carle Clinic, Urbana, IL, April 6, 2001.
209. **Cole BJ**, Taksali S, Bach B, DiMassi M, Hingtgen B, Hurwitz D, Andriacchi T: Evaluation of a lateral offset short-leg walking cast using gait analysis as a preoperative indicator for high tibial osteotomy for varus gonarthrosis. Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 3-5, 2001.
210. Nho SJ, **Cole BJ**, Edwards RB, Lu Y, Kalscheu VL, Markel, MD: Thermal chondroplasty: An *in vitro* comparison of bipolar and monopolar radiofrequency energy treatment of chondromalacic human cartilage. Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 3-5, 2001.
211. Edwards RB, Lu Y, Nho S, Kalscheur VL, **Cole BJ**, Markel, MD: Thermal chondroplasty: An *in vitro* comparison of bipolar and monopolar radiofrequency energy treatment of chondromalacic human cartilage. 47th Annual Meeting of the Orthopaedic Research Society, February 25-28, 2001.
212. Lu Y, Edwards RB, Kalscheur VL, Nho S, **Cole BJ**, Markel MD: Thermal chondroplasty of human chondromalacic cartilage performed with bipolar radiofrequency energy: A light and confocal laser microscopic analysis. 47th Annual Meeting of the Orthopaedic Research Society, February 25-28, 2001.
213. **Cole BJ**, Taksali S, Bach B, DiMassi M, Hingtgen B, Hurwitz D, Andriacchi T: Evaluation of a lateral offset short-leg walking cast using gait analysis as a preoperative indicator for high tibial osteotomy for varus gonarthrosis. 47th Annual Meeting of the Orthopaedic Research Society, February 25-28, 2001.
214. **Cole BJ**, Noerdlinger M, Stewart M, Post M: Long-term outcomes of pectoralis major transfer for scapular winging, 82nd Annual Hospital for Special Surgery Alumni Meeting, New York, NY, November 2, 2000.
215. Park AE, **Cole BJ**: Early functional analysis following meniscus transplantation. 17th Annual Residents and Fellows Arthroscopy Course, Useppa Island, FL, May 11-14.
216. Curran AR, Park AE, Bach BR, Bush-Joseph CA, **Cole BJ**, Yao ES: Outpatient anterior cruciate ligament reconstruction: An analysis of charges and perioperative complications. American Academy of Orthopedic Surgeons, 67th Annual Meeting, Orlando, Florida, March 15-18, 2000.
217. Edwards, III, R, Heath S, Lu Y, Choi D, Bogdanske J, Hayashi K, **Cole BJ**, Markel M: Hypothermic lavage limits radiofrequency induced death of chondrocytes in articular cartilage. Orthopaedic Research Society, 46th Annual Meeting, Orlando, Florida, March 12-15, 2000.
218. Lu, Y, Edwards III, R, Hayashi K, Heath S, Fanton G, **Cole B**, Markel M: The effect of radiofrequency on bovine femoral articular cartilage: An *in vitro* comparison of monopolar (Oratec) and bipolar (Mitek) radiofrequency energy. Orthopaedic Research Society, 46th Annual Meeting, Orlando, Florida, March 12-15, 2000.
219. Wen, F-Q, Kazarian T, Jabbar A, Patel, D. Taylor, A, **Cole BJ**, Valentino, LA: Stimulation of synovial cell growth and expression of c-myc proto-oncogene by iron and reversal by ceramide: Implications for hemophilic synovitis. National Hemophillia Foundation, 51st Annual Meeting, Dallas, Texas, November, 4-6, 1999.
220. **Cole BJ**, Takasali S, Bach Jr. BR, DiMasi M, Petrusich NS, Andriacchi TP: Evaluation of a corrective short-leg walking cast used as a preoperative indicator for high tibial osteotomy for varus gonarthrosis. Hospital for Special Surgery Alumni Association, Eighty-first Annual Meeting, New York, New York, November 4-5, 1999.

221. Paras RD, Bach BR, **Cole BJ**, Wang TW: Posterior cruciate ligament and posterolateral corner injury as an occupational injury. American College of Sports Medicine, 46th Annual Meeting, Washington State, Washington, June 2-5, 1999.
222. **Cole BJ**, Tomin E, Brown, M, Lane JM: Synergism of bone marrow and rhBMP-2 in segmental bone repair, American Academy of Orthopaedic Surgeons, 66th Annual Meeting, Anaheim, California, February 2, 1999.
223. **Cole BJ**, Warner JJP, L'Insalata JC, Irrgang JJ, Fu FH: Prospectively determined arthroscopic versus open shoulder stabilization: 2 to 6 year follow up. Arthroscopy Association of North America, Orlando, Florida, May 1, 1998.
224. **Cole BJ**, Warner JJP, L'Insalata JC, Irrgang JJ, Fu FH: Prospectively determined arthroscopic versus open shoulder stabilization: 2 to 6 year follow up. American Academy of Orthopaedic Surgeons, Comprehensive Shoulder and Elbow Course and ASES First Open Shoulder and Elbow Meeting, Kiawah Island, South Carolina, April 23-26, 1998.
225. **Cole BJ**, L'Insalata JC, Allen AA, Irrgang JJ, Fu FH, Harner CD: Multiple ligament reconstruction after traumatic knee dislocation: A 2 to 5 year follow up with clinical evaluation. ACL Study Group, Beaver Creek, Colorado, March 28-April 3, 1998.
226. Ernlund LS, **Cole BJ**, Hoher J, Fu FH: Experiences with the quadrupled semitendinosus graft for ACL reconstruction. Brazilian Knee Society, San Juan, Brazil, October 24-25, 1997.
227. **Cole BJ**, Warner JJP, L'Insalata JC, Irrgang JJ, Fu FH: Prospectively determined arthroscopic versus open shoulder stabilization: 2 to 6 year follow up. 10th Congress of the European Society for Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15-17, 1997.
228. **Cole BJ**, Warner JJP, L'Insalata JC, Irrgang JJ, Fu FH: Prospectively determined arthroscopic versus open shoulder stabilization: 2 to 6 year follow up. Closed Meeting of the American Shoulder and Elbow Surgeons, Newport, Rhode Island, September 8, 1997.
229. Fu FH, Hoher J, **Cole BJ**: Experiences with the quadrupled semitendinosus graft for ACL reconstruction. Herodicus Society Annual Meeting, Gleaned Beach, Oregon, June 17-20, 1997.
230. Fu FH, **Cole BJ**: ACL reconstruction with semitendinosus tendon: Results and reasons for graft change. XIII Congress of the Italian Arthroscopy Society, Monza, Italy, May 29-31, 1997.
231. **Cole BJ**, Warner JJP, L'Insalata JC, Irrgang JJ, Fu FH: Prospectively determined arthroscopic versus open shoulder stabilization: A 2 to 6 year follow up with independent evaluation. University of Pittsburgh Research Symposium, Pittsburgh, Pennsylvania, May 7, 1997.
232. **Cole BJ**, Rodeo SA, O'Brien S, Altchek D, DiCarlo EF, Lee D, Curl L, Potter H: The developmental anatomy of the rotator interval capsule and the rotator interval defect. An anatomic and histologic analysis of fetal and adult cadaver specimens with clinical implications. American Academy of Orthopaedic Surgeons -AOSSM Specialty Day, San Francisco, California, February 16, 1997.
233. **Cole BJ**, Flicks S, Levine DB: Optimizing reimbursement through physician awareness. A step beyond cost-containment. American Academy of Orthopaedic Surgeons, 1997 Annual Meeting, San Francisco, California, February 14, 1997.
234. **Cole BJ**, Fu FH: Physiologic and biologic factors in anterior cruciate ligament reconstructed knees, Symposium: ACL reconstruction: Can we expect perfection? American Academy of Orthopaedic Surgeons, 1997 Annual Meeting, San Francisco, California, February 14, 1997.
235. **Cole BJ**, Tomin A, Bostrom MPG, Pritchard T, Sumner R, Lane JM, Weiland AJ: The application of rhBMP-2 to subcutaneously placed titanium porous-coated implants. Lewis Clark Wagner Award Lecture, The Hospital

for Special Surgery, New York, New York, November 7, 1996.

236. Cornell CN, **Cole BJ**, Wells J, Bear BJ, Lyden JP: The results of hip fracture treatment in patients ninety years of age and older. 77th Annual Meeting, The Alumni Association of The Hospital for Special Surgery, New York, November, 1995.
237. **Cole BJ**, Tomin A, Bostrom MPG, Pritchard T, Sumner R, Lane JM, Weiland AJ: The application of rhBMP-2 to subcutaneously placed titanium porous-coated implants. The Advanced Hand Symposium, AO-ASIS Continuing Education, Telluride, Colorado, August, 1994.
238. Levine DB, **Cole BJ**, Rodeo SA: Cost-awareness and cost-containment in total joint arthroplasty. Considerations in the cost of total joint arthroplasty symposium, American Academy of Orthopaedic Surgeons, 61st Annual Meeting, New Orleans, Louisiana, February 24-March 1, 1994.
239. **Cole BJ**, Tomin A, Bostrom MPG, Pritchard T, Sumner R, Lane JM, Weiland AJ: The application of rhBMP-2 to subcutaneously placed titanium porous-coated implants. 40th Annual Meeting, Orthopaedic Research Society, Exhibit Hall, New Orleans, Louisiana, February 21-24, 1994.
240. **Cole BJ**, Bostrom MPG, Sumner DR, Pritchard T, Tomin A, Lane JM, Weiland AJ: The application of rhBMP-2 to subcutaneously placed titanium porous-coated implants: A radiographic and histomorphometric *in vivo* assay in rats. 75th Annual Meeting, The Alumni Association of The Hospital for Special Surgery, New York, New York, November, 1993.
241. **Cole BJ**, Rodeo SA, Levine DB: A critical path analysis of cost variations in total hip arthroplasty at The Hospital for Special Surgery. 75th Annual Meeting, The Alumni Association of The Hospital for Special Surgery, New York, New York, November, 1993.
242. **Cole BJ**, Yasko A, Lane JM, Tomin E, Peterson M, Ron E, Turek T, Wang EA: Comparison of rhBMP-2 combined with biodegradable polylactic-glycolic acid copolymer versus cancellous bone to heal segmental bone defects. 15th Annual Meeting of American Society for Bone and Mineral Research, Exhibit Hall, Tampa, Florida, September 18-22, 1993.
243. **Cole BJ**, Rodeo S, Levine DB, Carr J: Cost awareness and containment: A necessity in the delivery of orthopaedic care for the 1990's: Part II: Process, implementation and results. 60th Annual Meeting, American Academy of Orthopaedic Surgeons, Exhibit Hall, San Francisco, California, February 18-22, 1993.
244. Yasko AW, **Cole BJ**, Lane JM, Tomin A, Peterson M, Ron E, Turek T, Wang EA: Comparison of rhBMP-versus cancellous bone to heal segmental bone defects. 39th Annual Meeting, Orthopaedic Research Society, San Francisco, California, February 15-18, 1993.
245. **Cole BJ**, Yasko A, Browne MG, Tomin M, Waller S, Ron E, Turek T, Schwab R, Lane JM: The ability of bone morphogenetic protein to heal segmental bone defects - a comparison of physiologic carriers to autologous bone graft. 74th Annual Meeting, The Alumni Association of The Hospital for Special Surgery, New York, New York, October, 1992.
246. **Cole BJ**, Yasko A, Browne MG, Tomin M, Waller S, Ron E, Turek T, Schwab R, Lane JM: The ability of bone morphogenetic protein to heal segmental bone defects - a comparison of physiologic carriers to autologous bone graft. 14th Annual Meeting of American Society for Bone and Mineral Research, Minneapolis, Minnesota, Exhibit Hall, September 30 - October 4, 1992.
247. **Cole BJ**, McNabb WL, Dasgupta DS, Cook S: Identifying physician behavior related to risk factor modification. Preventive Cardiology Academic Award 10th Annual Meeting, National Institute of Health, Bethesda, Maryland, April 12-14, 1989.

INSTRUCTIONAL COURSES, COURSE DIRECTORSHIPS, EDUCATIONAL WORKSHOPS

1. Decision Making for Cartilage Restoration, Articular Cartilage 2011, State of the Art, NYU, NY, NY, May 21, 2011.
2. What's New in Cartilage Restoration, Articular Cartilage 2011, State of the Art, NYU, NY, NY, May 21, 2011.
3. Presidential Guest Speaker: Cartilage Restoration: Clinical Update and Treatment Algorithm, Texas Orthopaedic Association, Austin, Tx, May 20, 2011.
4. Cartilage Injuries of the Shoulder. Postgraduate Seminar, American Osteopathic Association of Orthopedics, Scottsdale, Az, May 13, 2011.
5. ICL: Advances in Arthroscopic Articular Cartilage Treatment, 2011. 2011 Arthroscopy Association of North America Annual Meeting, San Francisco, CA, April 16, 2011.
6. Over-Called, Under-Treated? Unde-Called, Over Treated? When and How to Fix SLAP Lesions, 30th Annual Cherry Blossom Seminar, Washington, DC, April 1, 2011.
7. Role of Biologics in Enhancing Healing and Decreasing Cuff Failure, 30th Annual Cherry Blossom Seminar, Washington, DC, April 1, 2011.
8. Meniscal Transplantation and Other Implant Options for the Meniscus, Robert Metcalf and AANA Meeting, Snowbird, UT, March 27, 2011.
9. When are SLAP Repairs Really Appropriate?, Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
10. When Must we Manage the Most Significant Articular Cartilage Lesions?, Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
11. My Technique for Osteochondral Allograft, Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
12. Arthroscopic Management of Early Degenerative Joint Disease of the Shoulder, Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
13. Evaluating the Patient with a Rotator Cuff Tear, Robert Metcalf and AANA Meeting, Snowbird, UT, March 24, 2011.
14. OrthoBiologics Update, Steadman Hawkins's Clinic Sports Medicine Symposium, Vail, CO, April 26, 2011.
15. Allograft Resurfacing for Humeral Head Defects, 78th Annual Meeting of the AAOS, San Diego, CA, Feb 19, 2011.
16. Course Chairman, ICL: Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? 78th Annual Meeting of the AAOS, San Diego, CA, Feb 18, 2011.
17. ICL: Transition from open to arthroscopic RCR. 78th Annual Meeting of the AAOS, San Diego, CA, Feb 18, 2011.
18. Course Chairman, ICL: The Active Patient with GH Arthritis: How Do we prevent it and how do we treat it? 78th Annual meeting of the AAOS, San Diego, CA, Feb 17, 2011.

19. ICL: Overview of the management of patients with GH arthritis, 78th Annual Meeting of the AAOS, San Diego, CA, Feb 17, 2011.
20. ICL: Arthroscopic Management of Shoulder Instabilities, Management of Concomitant SLAP and Labral Tears, 78th Annual Meeting of the AAOS, San Diego, CA, Feb 16, 2011.
21. Complex Reconstruction of the Knee with Co-Morbidities, 11th Annual Cartilage Symposium, Carlsbad, CA, January 14, 2011.
22. Single vs Double Row Rotator Cuff Repair, Arthrex Instructor's Symposium, Tracy, CA, January 9, 2011.
23. Meniscus Transplantation, Arthrex Instructor's Symposium, Tracy, CA, January 8, 2011.
24. Case-Based Cartilage Transplantation, Advanced Concepts Course, Genzyme, Inc, Rosemont, IL, November 20, 2010.
25. Cartilage Repair: Now and Then, Hospital for Special Surgery Alumni Day, New York, NY, November 12, 2010.
26. Cartilage Restoration: Here and Now, Boston Shoulder and Sports Symposium, Boston, MA, October 29, 2010.
27. Glenohumeral joint chondral defect management, Boston Shoulder and Sports Symposium, Boston, MA, October 30, 2010.
28. Cartilage Restoration: Here and Now, 54th Annual Edward T. Smith Orthopedic Lectureship: Future Trends in the Treatment and Surgical Techniques for the Athlete with a Focus on Shoulder, Hip and Knee Injuries. Houston, Texas, Oct 20-21, 2010.
29. Orthobiologics: What you need to know, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 14, 2010.
30. Glenohumeral joint chondral defect management, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 15, 2010.
31. Arthroscopic RCR: SR, DR and TOE, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 16, 2010.
32. Cartilage Restoration and PRP: Clinical Update, Arthrex National Sales Meeting, Chicago, IL, Sept 24, 2010.
33. Single Row vs Double Row Rotator Cuff Repair, Arthrex National Sales Meeting, Chicago, IL, Sept 24, 2010.
34. Cartilage Restoration and DeNovo NT: Update, Zimmer Sports Medicine Review, Carlucci's Restaurant, Rosemont, IL, Sept 23, 2009.
35. Shoulder Instability: Evaluation and Management. Sports Medicine Review Course for Physical Therapists, Marriott Hotel, Chicago, IL, Sept 18, 2010.
36. Future Directions in Rotator Cuff Treatment, The Shoulder Center of Kentucky 13th Annual Shoulder Syposim, The Rotator Cuff and Master Athlete, Lexington, KY, July 31, 2010.
37. Non-Arthroplasty Alternatives to Treat Glenohumeral Arthritis, The Shoulder Center of Kentucky 13th Annual Shoulder Syposim, The Rotator Cuff and Master Athlete, Lexington, KY, July 31, 2010.
38. Treatment Options in Full Thickness Rotator Cuff Tears, The Shoulder Center of Kentucky 13th Annual Shoulder Syposim, The Rotator Cuff and Master Athlete, Lexington, KY, July 30, 2010.

39. Clinical Examination of Rotator Cuff Disease, The Shoulder Center of Kentucky 13th Annual Shoulder Syposim, The Rotator Cuff and Master Athlete, Lexington, KY, July 30, 2010.
40. Pathophysiology of Rotator Cuff Disease, The Shoulder Center of Kentucky 13th Annual Shoulder Syposim, The Rotator Cuff and Master Athlete, Lexington, KY, July 30, 2010.
41. Double Row Versus Single Rotator Cuff Repair, Instructional Course Lecture, American Society for Sports Medicine, Providence, RI, July 17, 2010.
42. Emerging Technology Overview, Instructional Course Lecture, American Society for Sports Medicine, Providence, RI, July 17, 2010.
43. Emerging Technology Review, American Society for Sports Medicine, Providence, RI, July 17, 2010.
44. Moderator, Articular Cartilage Concurrent Session, American Society for Sports Medicine, Providence, RI, July 17, 2010.
45. How to Build a Successful Sports Medicine Practice, American Society for Sports Medicine, Providence, RI, July 17, 2010.
46. PRP and Articular Cartilage, Update, American Society for Sports Medicine, Providence, RI, July 16, 2010.
47. ICL, Meniscus Transplantation and Case Studies, American Society for Sports Medicine, Providence, RI, July 16, 2010.
48. Outcomes of Failed Cartilage Restoration, Herodicus Society Meeting, Newport, RI, July 12, 2010.
49. Shoulder Arthroscopy: Is it Normal? DePaul Sports Medicine Symposium, DePaul University, Chicago, IL, June 18, 2010.
50. Cartilage Restoration of the Knee and Shoulder, ? DePaul Sports Medicine Symposium, DePaul University, Chicago, IL, June 18, 2010.
51. Instructional Course Lecture, Patellofemoral Cartilage Resurfacing, Arthroscopy Association of North America, 29th Annual Meeting, Hollywood, FL, May 21, 2010.
52. Instructional Course Lecture, Complex Cartilage Reconstruction, Arthroscopy Association of North America, 29th Annual Meeting, Hollywood, FL, May 21, 2010.
53. Arthroscopic RCR: SR v DR, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 13, 2010.
54. Complications of Shoulder Instability, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 13, 2010.
55. Arthroscopic Management of Lateral Epicondylitis, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 14, 2010.
56. Non Arthroplasty Alternatives for the Glenohumeral Joint, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 14, 2010.
57. Osteochondral Allograft Transplantation. 9th Annual Update in Knee Surgery, Orthopedic Learning Center, Rosemeont, IL, May 4, 2010.
58. Shoulder Arthroscopy: What is normal? Rush Resident Core Lecture, May 3, 2010.
59. PRP and Cartilage: Where are we today? VuMedi Webcast, April 12, 2010.

60. Arthroscopic RCR: DR vs SR, Arthrex Shoulder Course, April 9, 2010, Naples, FL.
61. Corrective Osteotomies: How to make it work? Specialty Day, Arthroscopy Association of North America, March 13, 2010, New Orleans, LA.
62. Meniscus and Cartilage Clinical Case-Based Panel: What do to and why. Specialty Day, Arthroscopy Association of North America, March 13, 2010, New Orleans, LA.
63. Double Row Rotator Cuff Repair is Better: Point-Counterpoint, Smpecialty Day, American Society for Sports Medicine, March 13, 2010, New Orleans, LA.
64. Shoulder Instability: What went wrong and what was done about it?), Instructional Course Lecture, March 12, 2010, American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, LA.
65. Live Demonstration: HTO and AMZ, American Academy of Orthopedic Surgeons, March 11, 2010, New Orleans, LA.
66. Arthroscopic Rotator Cuff Repair: An Evolution of Techniques, Instructional Course Lecture (Course Chairman), March 10, 2010, American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, LA,
67. Shoulder Instability: What went wrong and what was done about it?), Instructional Course Lecture, March 10, 2010, American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, LA,
68. The Active Patient with GH Arthritis: How do we prevent it and how do we treat it?), Instructional Course Lecture (Course Chairman), March 10, 2010, American Academy of Orthopedic Surgeons Annual Meeting, New Orleans, LA,
69. The Unhappy Ulnar Nerve, AAOS/AOSSM Annual Sports Medicine Course, February 12, 2010, Bonita Springs, FL.
70. Shoulder Arthroscopy: Is it Normal? AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
71. SLAP Lesions: Techniques and Outcome, AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
72. Physical Examination of the Elbow, AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
73. Complex Reconstruction of the Knee, Fellows Course, Carlsbad, CA, December 16, 2010.
74. Single vs Double Row Rotator Cuff Repair: Resident Sports Medicine Conference, Rush University Medical Center, Chicago, IL, Nov 22, 2009.
75. MPFL Reconstruction: Technique-Focus Video, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
76. PF Case Presentations, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
77. Shoulder Arthroscopy Laboratory, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
78. Focus Demo, Arthroscopic Labral Repair, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
79. Knee Arthroscopy Laboratory, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.

80. Single Row versus Double Row Rotator Cuff Repair, Fact or Fiction, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
81. Knotless Suture Anchor Fixation: Fact or Fiction, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
82. Anteromedialization of the Tibial Tuberosity, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
83. New Techniques for Meniscal Allograft Transplantation, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
84. Biologic Reconstruction of the Glenohumeral Joint, Michigan Orthopedic Society, Detroit Michigan, October 12, 2009.
85. Decision Making in Cartilage Repair, Michigan Orthopedic Society, Detroit Michigan, October 12, 2009.
86. Course Chairman Advanced Articular Cartilage Procedures, Arthroscopy Association of North America, Rosemont, OLC, October 9-11, 2009.
87. Live Surgical Demonstration, Allograft Meniscus Transplantation, Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 10, 2009.
88. The Future of Cartilage Repair Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 10, 2009.
89. Allograft Meniscus Transplantation: Indications, Techniques, Results. Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 9, 2009.
90. Biologic Reconstruction of the Glenohumeral Joint, Advanced Biologic Reconstruction of the Shoulder Course, Chicago, IL, October 10, 2009.
91. Meet the Professor: Articular Cartilage Cases of the Knee, AAOS-SIA Annual Meeting, Rome, Italy, October 3, 2009.
92. Guidelines on the Treatment of Articular Cartilage, AAOS-SIA Annual Meeting, Rome, Italy, October 2, 2009.
93. Massive Rotator Cuff Tear Biology and Treatment, AAOS-SIA Annual Meeting, Rome, Italy, October 2, 2009.
94. Meet the Professor: Knee Biotechnology, AAOS-SIA Annual Meeting, Rome, Italy, October 1, 2009.
95. Meet the Professor: Complex Shoulder Cases, AAOS-SIA Annual Meeting, Rome, Italy, October 1, 2009.
96. Chondrolysis of the Shoulder, AAOS-SIA Annual Meeting, Rome, Italy, September 30, 2009.
97. Meniscus Allograft Transplantation, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
98. Cartilage Restoration: Decision Making and Overview, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
99. The Future of Cartilage Repair, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
100. Osteochondral Allograft Transplantation, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 19, 2009.
101. Complex Reconstruction: Cartilage Repair, Meniscus Transplantation, and Osteotomy. Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 19, 2009.

102. Board Review of Shoulder Pathology: Soft Tissue and Cartilage, AOSSM Board Review Course, Chicago, IL, Aug 14, 2009.
103. Complicaitons of Shoulder Instability, Rocky Mountain Shoulder and Elbow Society, Beaver Creek, CO, August 7, 2009.
104. Single Row vs Double Row Arthroscopic Rotator Cuff Repair: What is the science? Rocky Mountain Shoulder and Elbow Society, Beaver Creek, CO, August 7, 2009.
105. Chondrolysis of the Shoulder: Clinical Update, Rocky Mountain Shoulder and Elbow Society, Beaver Creek, CO, August 7, 2009.
106. Arthroscopic Rotator Cuff Repair: SR vs DR Techiques and Indications, ICL Controversies and Techniques in Managing Rotator Cuff and Biceps Tendinopathy. AOSSM Annual Meeting, Keystone, CO, July 9, 2009.
107. Surgeion-Industry Relationships in Sports Medicine, AOSSM Annual Meeting, Keystone, CO, July 9, 2009.
108. Glenohumeral Arthritis in the Active Patient, AOSSM Annual Meeting, Keystone, CO, July 10, 2009.
109. Patellofemoral Realignment: Indications and Techniques, Arthrex Advanced Surgeons Training Course, Boston MA, June 12, 2009.
110. Osteochondral Allograft Transplantation, Arthrex Advanced Surgeons Training Course, Boston MA, June 12, 2009.
111. Arthroscopic Rotator Cuff Repair Arthrex Advanced Surgeons Training Course, Boston MA, June 11, 2009.
112. Diagnosis and Management of Shoulder Conditions in the Athlete, NBA Athletic Trainors Association, Chicago, IL, May 28, 2009.
113. Meet the Cartilage Expert, May 25, 2009, 8th World Congress of the International Cartilage Rpeair Society, May 25, 2009.
114. Single Stage Cartilage Repair, 8th World Congress of the International Cartilage Rpeair Society, May 25, 2009.
115. Injury Repair Options in the Athlete-Special Concerns, 8th World Congress of the International Cartilage Rpeair Society, May 23, 2009.
116. Cartilage Restoration of the Glenohumeral Joint, Advanced Shoulder Reconstruction, Orthopedic Learning Center, Chicago, Il, May 5, 2009.
117. Arthroscopic Rotator Cuff Repair. Resident Teaching Conference, Rush University Medical Center, Chicago, IL, April 13, 2009.
118. Cartilage Restoration of the Glenohumeral Joint, Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, Il, April 3, 2009.
119. Complex Reconstruction of the Knee: Realignment, Meniscal Transplantation, Cartilage Repair. Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, Il, April 3, 2009.
120. Arthroscopic RCR: Where are we today? Arthrex Fellows Symposium, Naples, FL, March 30, 2009.
121. Arthroscopic RCR: Pearls and Pitfalls, 10th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat, CO, March 12, 2009.

122. Cartilage Restoration: Pick, Squirt or Plug, 10th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat, CO, March 13, 2009.
123. Autologous Chondrocyte Implantation, 10th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, March 13, 2009.
124. Management of the Stiff Knee, 10th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat, CO, March 14, 2009.
125. Meniscal Injuries “29881” versus “29882”. Where are we? AOSSM Specialty Day, Las Vegas, Nevada, February 28, 2009.
126. Meniscus Transplantation: Video Technique. AANA Specialty Day, Las Vegas, Nevada, February 28, 2009.
127. Course Director, Arthroscopic Rotator Cuff Repair: An Evolution of Techniques. Are Our Patients Really Benefiting? AAOS Annual Meeting, Las Vegas, Nevada, February 26, 2009.
128. Arthroscopic RCR: Making the Transition. AAOS Annual Meeting, Las Vegas, Nevada, February 26, 2009.
129. Arthroscopic Shoulder Stabilization: What Went Wrong and What Was Done About it? Las Vegas, Nevada, February 26, 2009.
130. Course Director, The Active Patient with GH Arthritis: How Do We Prevent it and How Do We Treat it? Las Vegas, Nevada, February 27, 2009.
131. Management of GH Arthritis in Young Patients: Etiology and Management. Las Vegas, Nevada, February 27, 2009.
132. Use of healing factors to help with rotator cuff repair: Facts and myths. Arthroscopic Surgery 2009, 1st Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, January 31, 2009.
133. Articular cartilage lesion management overview, Arthroscopic Surgery 2009, 1st Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, February 1, 2009.
134. Meniscal allograft transplantation: Indications, techniques and results, Arthroscopic Surgery 2009, 1st Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, February 1, 2009.
135. Cartilage Repair in the Athlete: Techniques and Decision Making, Team Concept Conference, Lake Buena Vista, FL, December 5, 2008.
136. Advanced Decision Making in Cartilage Repair, Chicago Cartilage Forum, Chicago, IL, November 18, 2008.
137. Advanced Decision Making and Osteotomy, Rush Resident Core Curriculum, Chicago, IL, November 17, 2008.
138. Advanced Considerations and Decision Making in Cartilage Repair, Boston, MA, November 15, 2008.
139. Faculty: ICRS Surgical Skills Course on Cartilage Transplantation, Miami, FL, October 30-Nov 1, 2008.
140. Osteochondral Autograft Transplantation: Indications, Techniques, Results. ICRS Surgical Skills Course on Cartilage Transplantation, Miami, FL, October 30-Nov 1, 2008.
141. Course Chairman: 1st Annual ICRS Cartilage Industry Summit, Miami, FL, October 29-30, 2008.
142. Cartilage Restoration: Where are we now and how do we decide? 1st Annual ICRS Cartilage Industry Summit, Miami, FL, October 29, 2008.

143. Cartilage Transplantation: Where are we now and where are we going? Notre Dame Orthopedic Society, South Bend, IN, October 3, 2008.
144. Complex Knee and Shoulder Reconstruction. Advanced Concepts in Sports Medicine, Las Vegas, NV, September 28, 2008.
145. Cartilage Restoration: Clinical Updated. San Francisco Orthopedics, San Francisco, CA, September 26, 2008.
146. Cartilage Restoration: Where are we now and where are we going? Philadelphia Orthopedic Society, Philadelphia, PA, September 8, 2008.
147. Case Presentations: Shoulder Instability, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
148. Case Presentations: Knee Articular Cartilage, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
149. Complex Knee Reconstruction, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
150. Cartilage Restoration of the Knee, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
151. Cartilage Restoration of the Shoulder, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
152. AAOS/ASES Arthroscopic Management of Rotator Cuff Disease and Instability, Chicago, IL, July 18-19, 2008.
153. Program Chair, AOSSM Annual Meeting, Orlando, Florida, July 10-13, 2008.
154. Cartilage Restoration in the Competitive Athlete, SPTS-AOSSM Pre-Conference Program, Orlando, FL, July 9, 2008.
155. Non-Arthroplasty Treatment of Cartilage Disease of the Knee, Nonsurgical and Minimally Invasive Treatments for Chronic Knee Pain, Rush University Medical Center, June 24, 2008.
156. Cartilage Restoration: What is Here Now and What will the Future Bring? Annual RSC Conference, Westin Hotel, Chicago, IL, June 20, 2008.
157. SLAP Tears: What are we Really Treating? 35th Annual Symposium of the Mapfre Foundation, Madrid, Spain, June 13, 2008.
158. Single vs Double Row Rotator Cuff Repair: Indications Based upon Tear Size and Configuration. 35th Annual Symposium of the Mapfre Foundation, Madrid, Spain, June 13, 2008.
159. Cartilage Restoration: What is Here Now and What will the Future Bring? 35th Annual Symposium of the Mapfre Foundation, Madrid, Spain, June 13, 2008.
160. Cartilage Autograft Implantation System. Pre-Clinical and Clinical Update. Cartilage Innovation Summit, 2008. Cleveland, Ohio, May 7, 2008.
161. Cartilage Case Presentations: The Experts Weigh-In. 27th Annual Arthroscopy Association of North America, Washington, DC, April 24, 2008.
162. Instructional Course Lecture: Complex Issues in Knee Arthroscopy: Effective Approaches to Revision ACL, Articular Cartilage Repair and Osteotomy. 27th Annual Arthroscopy Association of North America, Washington, DC, April 24, 2008.
163. Management of SLAP Tears: What is Real and What Should we Do? Resident CORE Curriculum, Rush University Medical Center, Chicago, IL, April 21, 2008.

164. Lab Director, Arthroscopic Shoulder Stabilization and Rotator Cuff Repair, Rush University Medical Center, Chicago, IL, April 19, 2008.
165. Arthroscopic Rotator Cuff Repair, Resident Education Curriculum, Rush University Medical Center, Chicago, IL, April 19, 2008.
166. Arthroscopic SLAP Repair, Rush University Medical Center, Chicago, IL, April 19, 2008.
167. Update on Cartilage Transplantation of the Shoulder and Knee, Regional Orthopedic Meeting, Peoria, IL, April 15, 2008.
168. Cartilage Restoration: Treatment Algorithm. Cartilage Research Foundation 3rd Annual Meeting, Phoenix, AZ, April 5, 2008.
169. Management of Glenohumeral Arthritis in Young Patients. Cartilage Research Foundation 3rd Annual Meeting, Phoenix, AZ, April 5, 2008.
170. Program Chair, Cartilage Research Foundation 3rd Annual Meeting, Phoenix, AZ, April 5, 2008.
171. Program Chair, American Orthopedic Society for Sports Medicine Specialty Day, San Francisco, CA, March 8, 2008.
172. Articular Cartilage Treatment Algorithm, Instructional Course Lecture, AAOS, San Francisco, CA, March 7, 2008.
173. Decision Making in Articular Cartilage Injury: Pick, Plug, or Squirt, 9th Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
174. Technique: Autologous Chondrocyte Implantation, 9th Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
175. Technique: Osteochondral Autograft Transplantation, 9th Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
176. The Stiff Knee, 9th Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
177. Management of Failed Instability Surgery, 9th Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 9, 2008.
178. SLAP Tears – Diagnosis, When Are They Important, Options in Treatment, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 2, 2008.
179. Complications of Shoulder Stabilization: Stiffness, Hardware and Chondrolysis, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 2, 2008.
180. Articular Cartilage: Clinical and Basic Science Treatment, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 3, 2008.
181. Meniscus Transplant and Collagen Scaffolds, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 3, 2008.
182. Arthroscopic Rotator Cuff Repair, El Salvador Orthopedic Society, San Salvador, January 26, 2008.
183. Biologic Joint Reconstruction, El Salvador Orthopedic Society, San Salvador, January 26, 2008.

184. Arthroscopic Repair of the U-Shaped Tear. AAOS/ASES Open and Arthroscopic Techniques in the Shoulder, January 18-19, 2008.
185. Biologic Joint Replacement of the Shoulder and Knee: SOMOS Military Orthopedic Meeting, Vail, CO, December 11, 2007.
186. Complex Reconstruction and Osteotomy: Preoperative Decision Making and Surgical Planning. 8th Annual Cartilage Repair Course for Fellows, Carlsbad, CA, December 6-8, 2007.
187. Cartilage Restoration of the Knee and Shoulder, Michigan Orthopedic Society, Detroit, MI, November 12, 2007.
188. Problems of the Shoulder and Knee: An Eye Toward the Occupational Setting, Chicago, IL, November 12, 2007
189. Cartilage Repair: Now and Then. Sports Knee Surgery 2007, University of Warwick, UK, October 29, 2007.
190. Complex Reconstruction: 3rd Annual Cartilage and Sports Medicine Review, Las Vegas, Nevada, October 27, 2007.
191. Management of Failed Instability, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
192. Cartilage Repair: The Future, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
193. Meniscus Transplantation: Indications, Techniques & Results, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
194. Cartilage Restoration of the Knee and Shoulder, South Bend Orthopedic Group, South Bend, Indiana, August 23, 2007.
195. Cartilage Restoration of the Knee and Shoulder, Howard University Department of Orthopaedics, Washington, DC, September 5, 2007.
196. Results of the STAR Clinical Trial for ACI, Genzyme Tissue Repair, Boston, MA, September 5, 2007.
197. Review of Shoulder Conditions: AAOS Board Review Course, Chicago, IL, Aug 3, 2007.
198. Cartilage Restoraion: Clinical Update. Zimmer Hip and Knee Symposium, Chicago, IL, Aug 7, 2007.
199. Cartilage Restoration Options in the Athlete, 21st Annual Kerlan Jobe Alumni Meeting, Calgary, CA, July 13, 2007.
200. Scaffolds, Synthetics and Emerging Technology in Cartilage Repair. Symposium on Biologics, AOSSM Annual Meeting, Calgary, CA, July 13, 2007.
201. Expanding the Indications for Allografts in Joint Surgery. 2007 AOSSM Allograft Workshop. Calgary, CA, July 17, 2007.
202. Arthroscopic Rotator Cuff Repair: Single Row, Double Row, and Transosseous Equivalent-Indications Based Upon Tear Configuration. 24th Annual San Diego Shoulder Meeting: Arthroscopy, Arthroplasty and Fractures, San Diego, CA, June 21, 2007.
203. Chondrolysis of the Shoulder: Evaluation and Management. 24th Annual San Diego Shoulder Meeting: Arthroscopy, Arthroplasty and Fractures, San Diego, CA, June 23, 2007.

204. Cartilage Restoration: Clinical Update. Northwestern California Orthopedic Society, Los Angeles, CA, June 11, 2007.
205. Arthroscopic Rotator Cuff Repair, Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, Rochester, MN, June 9, 2007.
206. Non-Arthroplasty Alternatives to the Management of Glenohumeral Arthritis, Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, Rochester, MN, June 9, 2007.
207. Management of Articular Cartilage Problems in the Professional Athlete, NBA Athletic Trainers Association, Orlando, FL, June 3, 2007.
208. Update on Cartilage Autograft Implantation System, On the Forefront: Current Concepts and Future Trends in Articular Cartilage Surgery. ICL 6th Biannual ISAKOS Meeting, Florence, Italy, May 30, 2007.
209. Arthroscopic Rotator Cuff Repair: Single Row, Double Row, and Transosseous Equivalent – Decision Making based upon tear configuration. AOA 47th Annual Postgraduate Seminar, Atlanta, GA, May 4, 2007.
210. Non Arthroplasty Alternatives for the Glenohumeral Joint, AOA 47th Annual Postgraduate Seminar, Atlanta GA, May 4, 2007.
211. Non Arthroplasty Alternatives for the Glenohumeral Joint, Boston Cartilage Course, Boston, MA, May 27, 2007.
212. Overview of Treatment Options for Cartilage Resurfacing, Boston Cartilage Course, Boston, MA, May 27, 2007.
213. Allograft Meniscus Replacement: State of the Art. Great Lakes Athletic Trainers Association: Winter Meeting and Clinical Symposium, St. Charles, IL, March 9, 2007.
214. Current Advances in the Management of Cartilage Problems in the Athlete, Northwestern Medical School Sports Medicine Interest Group, Chicago, Illinois, February 27, 2007.
215. Moderator, Articular Cartilage Symposium, , American Society for Sports Medicine, Specialty Day, San Diego, CA, February 17, 2007.
216. Articular Cartilage Overview, Symposium on Articular Cartilage, American Society for Sports Medicine, Specialty Day, San Diego, CA, February 17, 2007.
217. Meniscus Allograft Transplantation: Optimizing Techniques and Longer Term Results, Meniscus Surgery Symposium, Arthroscopy Association of North America, Specialty Day, San Diego, CA, February 17, 2007.
218. Arthroscopic Rotator Repair: How I do it, Rotator Cuff Disease: From Arthroscopy to Arthroplasty Instructional Course Lecture, 74th Annual Meeting, American Academy of Orthopedic Surgeons Annual Meeting, San Diego, CA, February 16, 2007.
219. Meniscus Transplantation: Indications and Results, Allograft Meniscus Transplantation Instructional Course Lecture, 74th Annual Meeting, American Academy of Orthopedic Surgeons Annual Meeting, San Diego, CA, February 16, 2007.
220. Overview of Treatment Options, Surgical Management of Articular Defects in the Knee, Instructional Course Lecture, 74th Annual Meeting, American Academy of Orthopedic Surgeons Annual Meeting, San Diego, CA, February 14, 2007.
221. Alternatives to Knee Arthroplasty, Zimmer 21st Annual Vail Orthopaedic Symposium, Vail, CO, January 24th, 2007.

222. Non Arthroplasty Management of the Patellofemoral Joint, Zimmer 21st Annual Vail Orthopaedic Symposium, Vail, CO, January 24th, 2007.
223. Complex Reconstruction and Osteotomy: Techniques and Preoperative Planning. 7th Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 2, 2006.
224. Allograft Meniscus Transplantation, Orthopedics Today 2006, NY, NY, November 12, 2006.
225. Osteochondral Allograft Transplantation, Orthopedics Today 2006, NY, NY, November 12, 2006.
226. Patellofemoral Joint Approaches to the Treatment of Articular Cartilage, Orthopedics Today 2006, NY, NY, November 11, 2006.
227. Anteromedialization of the Tibial Tubercle, Orthopedics Today 2006, NY, NY, November 11, 2006.
228. Non-Arthroplasty Alternatives to Glenohumeral Arthritis, 88th Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 10, 2006.
229. Complex Reconstruction and Osteotomy, Management of Cartilage Injury in the Athlete, 2nd Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
230. Cartilage Autograft Implantation System, , Management of Cartilage Injury in the Athlete, 2nd Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
231. Biologic Restoration of the Glenohumeral Joint, American Shoulder and Elbow Surgeons, Biologics in Shoulder Surgery, Chicago, IL, September 16, 2006.
232. Current Principles of Rotator Cuff Repair, American Society of Shoulder and Elbow Therapists, Chicago, IL, September 16, 2006.
233. Cartilage Restoration of the Knee and Shoulder, Clinical Update and Treatment Algorithm, Orthopaedic and Sports Medicine Rehabilitation Symposium, Chicago, IL, September 8, 2006.
234. Course Chairman, AAOS/ASES The Shoulder: An Arthroscopic Odyssey, OLC Rosemont, IL, July 28-29, 2006.
235. Live surgical demonstration, Arthroscopic Rotator Cuff Repair: Double Row Technique, July 28, 2006.
236. AOSSM Annual Meeting, Arthroscopic Rotator Cuff Repair: Single Row, Double Row, Trans-Osseous Equivalent: Indications Based Upon Tear Configuration, Hershey, PA, July 1, 2006.
237. AOSSM Annual Meeting ICL Course Director, Management of Arthritis in the Lower Extremity of the Athlete, Hershey, PA, July 1, 2006.
238. AOSSM Annual Meeting, ICL Management of Knee Arthritis in the Athlete, Hershey, PA, July 1, 2006.
239. AOSSM Annual Meeting, ICL Management of Shoulder Arthritis in the Athlete, Hershey, PA, June 30th, 2006.
240. Arthroscopic Rotator Cuff Repair: Where are we now? University of North Carolina, 35th Raney Visiting Professorship, Chapel Hill, NC, June 1, 2006.
241. Cartilage Restoration of the Knee and Shoulder. The 35th Annual Raney Lecture, University of North Carolina, Chapel Hill, NC, June 2, 2006.
242. Cartilage Autograft Implantation System, On the Forefront: Evolution on the Management of Articular Cartilage Injury, 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 21,

2006.

243. Osteochondral and Meniscal Allografts, Allografts for Knee Surgery, 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 20, 2006.
244. Master Case Presentations in Knee Surgery, 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 20, 2006.
245. Arthroscopic Management of Failed Instability, Controversies in Arthroscopic Shoulder Stabilization, 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 19, 2006.
246. Cartilage Restoration of the Shoulder and Knee, Presidential Speaker, Indiana Orthopedic Society, South Bend, Indiana, April 28, 2006.
247. Arthroscopic Rotator Cuff Repair: Indications, Techniques and Results, Indiana Orthopedic Society, South Bend, Indiana, April 28, 2006.
248. Complex Reconstruction and Osteotomy of the Knee, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
249. Arthroscopic Rotator Cuff Repair: Current Thinking, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
250. Non-Arthroplasty Management of Glenohumeral Arthritis, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
251. Cartilage Restoration of the Knee and Shoulder, Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, March 28, 2006.
252. Meniscal Allograft Reconstruction: Indications, Techniques and Results. AAOS 73rd Annual Meeting, Chicago, IL, March 26, 2006.
253. Meniscal Allograft Reconstruction: How to maximize outcomes in 2006. AAOS 73rd Annual Meeting, AANA Specialty Day Symposium, Chicago, IL, March 25, 2006.
254. Arthroscopic Rotator Cuff Repair: When, Why, and How. AAOS 73rd Annual Meeting, Chicago, IL, March 24, 2006,
255. Emerging Technology in Cartilage Repair, Small-Cap Orthopedics Conference, Metropolitan Club, Chicago, IL, March 21, 2006.
256. Algorithm for the Treatment of Articular Cartilage Defects, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 22, 2006.
257. Cartilage Restoration of the Knee: Complex Reconstruction and Osteotomy, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 22, 2006
258. Non-Arthroplasty Management of Glenohumeral Arthritis, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 21, 2006.
259. My Favorite Tips, Pearls and Techniques for Arthroscopic Rotator Cuff Repair, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 20, 2006.
260. Shoulder Instability: Choosing the Correct Option, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 19, 2006.

261. Cartilage Restoration of the Shoulder and Knee: Clinical Update and Treatment Algorithm, 2006 Big Sky Sports Medicine Athletic Training Conference, Michigan State University, Big Sky, Montana, January 30, 2006.
262. Cartilage Restoration: Clinical Update and Treatment Algorithm, 20th Annual Vail Orthopaedic Symposium, January 26, 2006.
263. Live demonstration, arthroscopic SLAP repair, The Shoulder: Arthroscopic and Open Techniques, AAOS/ASES, OLC, Chicago, IL, January 22-22, 2006.
264. Cartilage Restoration of the Shoulder, Clinical Update and Treatment Algorithm, International Cartilage Repair Society 6th Annual Symposium, San Diego, CA, January 9, 2006.
265. Incidence, Natural History, and Classification of Partial Articular Cartilage Defects, International Cartilage Repair Society 6th Annual Symposium, San Diego, CA, January 9, 2006.
266. Symposium Director, Partial Thickness Articular Cartilage Defects, International Cartilage Repair Society 6th Annual Symposium, San Diego, CA, January 9, 2006.
267. Natural History of Articular Cartilage Disease, Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006.
268. Scaffolds Only in Cartilage Repair, Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006.
269. Complex Reconstruction and Osteotomy: Preoperative Planning and Surgical Techniques. Comprehensive Approaches to Articular Cartilage Repair and Management, Carlsbad, CA, January 6-8, 2006.
270. Cartilage Restoration of the Knee: Clinical Update and Treatment Algorithm, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 5, 2005.
271. Meniscus Allograft Transplantation, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 5, 2005.
272. Complex Reconstruction: Osteotomy and Cartilage Restoration, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 5, 2005.
273. Arthroscopic Management of Rotator Cuff Tears, Indications, Techniques and Results, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 7, 2005.
274. Osteochondral Allograft Transplantation, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 7, 2005.
275. Multidirectional Instability of the Shoulder, Arthroscopic Management, Arthroscopy Association of Argentina, Buenos Aires, Argentina, December 8, 2005.
276. Allograft Meniscus Transplantation, Arthroscopy Association of Argentina, Buenos Aires, Argentina, December 8, 2005.
277. Management of Articular Cartilage Lesions of the Patellofemoral Joint, 2nd Annual Orthopaedics Today CME Course, New York, NY, November 21, 2005.
278. Cartilage Restoration of the Knee and Shoulder, Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, October 17, 2005.

279. Autologous Chondrocyte Implantation: Indications, Techniques, Results. Management of Cartilage Lesions in the Athlete, Las Vegas, Nevada, October 15, 2005.
280. Cartilage Restoration of the Shoulder and Knee, Illinois Self Insurers Association, Lincolnshire, IL, October 7, 2005.
281. Key Note Lecture: Autologous Chondrocyte Implantation: Present and Future, 2nd Annual Tissue Sparing Treatments of Degenerative Joint Disease, Houston, Texas, October 6, 2005.
282. Allograft Meniscus Transplantation, 2nd Annual Tissue Sparing Treatments of Degenerative Joint Disease, Houston, Texas, October 6, 2005.
283. Chairman, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26-28, 2005.
284. Cartilage Restoration: Treatment Algorithm, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26, 2005.
285. Autologous Chondrocyte Implantation: Advanced Techniques, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 27, 2005.
286. Non-Arthroplasty Management of Glenohumeral Arthritis, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 28, 2005.
287. Cartilage Restoration: Clinical Update and Treatment Algorithm. Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, Tuesday August 25, 2005.
288. Cartilage Restoration: The Past, Present and Future, Orthopedics Intelligence Program: Evolving issues in orthopedics-Challenges and Opportunities, Chicago, IL, July 21, 2005.
289. Allograft Meniscus Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
290. Surgical Demonstration: Bridge in Slot Allograft Meniscus Transplantation, Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
291. The Future of Cartilage Repair, Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
292. Joint Preservation and Osteotomies About the Knee, Instructional Course Lecture, American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 15, 2005.
293. Articular Cartilage Treatment Options of the Knee: Treatment Options. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 16, 2005.
294. Non Arthroplasty Alternatives to Glenohumeral Arthritis. Arthroscopic Shoulder Stabilization: Tips and Pearls. James Esch San Diego Shoulder Course, San Diego, CA, June 25, 2005.
295. Arthroscopic Shoulder Stabilization: Tips and Pearls. James Esch San Diego Shoulder Course, San Diego, CA, June 23, 2005.
296. Cartilage Restoration of the Knee, Ohio Sports Medicine Annual Meeting, Akron, OH, June 17, 2005.
297. Cartilage Restoration of the Shoulder, Ohio Sports Medicine Annual Meeting, Akron, OH, June 17, 2005.
298. Cartilage Restoration of the Shoulder and Knee, Keynote Lecture, 6th Annual Philadelphia Sports Medicine Congress, University of Pennsylvania, Philadelphia, PA, June 3, 2005.

299. Cartilage Restoration: Clinical Update and Treatment Algorithm, AOSSM-ACSM Annual Exchange Lecture, ACSM Annual Meeting, Nashville, TN, June 2, 2005.
300. Cartilage Restoration: Clinical Update and Treatment Algorithm. Total Hip and Knee Forum, Rush Learning Center, Monday May 23, 2005.
301. Autologous Chondrocyte Implantation and the Future of Cartilage Repair, Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005.
302. Allograft Meniscus Transplantation, Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005.
303. Arthroscopic Shoulder Stabilization: Current Status, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, Canada, May 12, 2005.
304. Allograft Safety: Current Status, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, Canada, May 12, 2005.
305. Live Surgical Demonstration: Meniscal Allograft Transplantation, International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Miami FL, April 5, 2005.
306. Knee Resurfacing and Realignment: 2005 Update, Pre-ISAKOS Symposium, Naples, Florida, April 1, 2005.
307. Arthroscopic Bankart Repair, 6th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 10, 2005.
308. Lateral Epicondylitis: Treatment Options: 6th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 11, 2005.
309. Cartilage Restoration of the Glenohumeral Joint, American Shoulder and Elbow Surgeons Specialty Day, Washington, DC, February 26, 2005.
310. Knee Resurfacing and Realignment: 2005 Update, 72nd Annual Meeting of the AAOS, Washington, DC, February 25, 2005.
311. Arthroscopic Rotator Cuff Repair: How I do it, Instructional Course Lecture, Comprehensive Management of Rotator Cuff Pathology, 72nd Meeting of the AAOS, Washington, DC, February 24, 2005.
312. Increasing the Yield of Meniscal Allograft Tissue, Meniscus Transplant Study Group, 72nd Meeting of the AAOS, Washington, DC, February 24, 2005.
313. Meniscus Transplantation: Evaluation, Indications, Techniques, Results, Instructional Course Lecture, Meniscus Allograft Transplantation, 72nd Meeting of the AAOS, Washington, DC, February 23, 2005.
314. Up Close and Personal: Chondral Defects, 72nd Annual Meeting of the AAOS, Washington, DC, February 23rd, 2005.
315. Osteotomy: Opening and Closing Wedge, 19th Annual Vail Orthopaedic Symposium: Total Hip and Knee Arthroplasty, Vail Colorado, January 27, 2005.
316. Overview of the Status of Articular Cartilage, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
317. Management of Large Articular Cartilage Lesions, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.

318. My Complication and How I got out of Trouble, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
319. The Place for Meniscus Transplantation, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 22, 2005.
320. Alternative Techniques to Manage Shoulder Instability, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 20, 2005.
321. Allograft Meniscus Transplantation: Clinical and Basic Science Update. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, GA, January 15-16, 2005.
322. Complex Reconstruction: Articular Cartilage and Meniscal Replacement. 5th Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 10, 2004.
323. Cartilage Restoration-State of the Art; Where are We Now and What's in Store for the Future, American College of Veterinary Surgeons, Mark Allam Featured Speaker, Denver, CO, October 9, 2004.
324. Cartilage Restoration of the Shoulder and Knee, Midwest Orthopedics at Rush Minimally Invasive Surgery Course, United Center, Chicago, IL, October 9, 2004.
325. Cartilage Restoration: Clinical Update and Treatment Algorithm, Charlotte Orthopedic Meeting, Charlotte, NC, September 18, 2004.
326. Occupational Injuries: Fact or Fiction? Chubb Insurance Company, Chicago, IL, September 17, 2004.
327. Autologous Chondrocyte Implantation: The U.S. Experience, Philadelphia Orthopedic Society, Philadelphia, PA, September 15, 2004.
328. Cartilage Restoration: Clinical Update and Treatment Algorithm, Milwaukee Orthopedic Society, Milwaukee Athletic Club, Milwaukee, WI, August 31, 2004.
329. Allografts in Sports Medicine, Annual Meeting of the American Association for Tissue Banks, Chicago, IL, August 30, 2004.
330. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, August 24, 2004.
331. Course Chairman, The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 16-18, 2004.
332. Acromioclavicular Joint Reconstruction, The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 18, 2004.
333. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, July 13, 2004.
334. Allografts in Orthopedics: Fresh Osteochondral Allografts in Sports Medicine, AOSSM Annual Meeting, Quebec City, June 25, 2004.
335. Cartilage Restoration: Clinical Update and Treatment Algorithm, Instructional Course Lecture, AOSSM Annual Meeting, Quebec City, June 25, 2004.
336. Consumer Reports: Implants and Devices in Shoulder Instability, Instructional Course Lecture, AOSSM Annual Meeting, Quebec City, June 24, 2004.

337. Moderator: Basic Science Articular Cartilage, AOSSM Annual Meeting, Quebec City, June 24, 2004.
338. Cartilage Restoration: Clinical Update and Treatment Algorithm, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 24, 2004.
339. Non-arthroplasty Management Options for the Glenohumeral Joint, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 24, 2004.
340. Arthroscopic Rotator Cuff Repair: Techniques, Results and Outcomes, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 23, 2004.
341. Arthroscopic Instability and Rotator Interval Repair: 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
342. Live Arthroscopic Rotator Cuff Televised Demonstration, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
343. Fresh Osteochondral Allograft Transplantation, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
344. Autologous Chondrocyte Implantation: Indications, Techniques, Results, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 21, 2004.
345. Chairman, Chicago Cartilage Course, Chicago, IL, May 7-8, 2004.
346. Cartilage Restoration: Clinical Update and Treatment Algorithm, Chicago Cartilage Course, Chicago, IL, May 7, 2004.
347. Osteochondral Autografting: Indications, Techniques, Results, Chicago Cartilage Course, Chicago, IL, May 8, 2004.
348. Non-Arthroplasty Options for Management of the Glenohumeral Joint, Chicago Cartilage Course, Chicago, IL, May 8, 2004.
349. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, May 4, 2004.
350. Osteochondral Grafting: Indications, Techniques, Results. Surgical Treatment Options for Knee Injuries and Disorders, AAOS, Rosemont, IL, May 1, 2004.
351. Cartilage Restoration: Clinical Update and Treatment Algorithm, 40th Annual St. Luke's Symposium, Houston, Texas, April 23, 2004.
352. Current Concepts and Future Trends: Shoulder Instability, Arthroscopy Association of North America, Orlando, FL, April 22, 2004.
353. Autologous Chondrocyte Implantation, Osteoarthritis of the Knee: Options for the Active Patient, University of Arizona, Phoenix, AZ, April 16, 2004.
354. Autologous Chondrocyte Implantation, University of Minnesota, Minneapolis, MN, April 8, 2004.
355. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, Grand Rounds, University of Minnesota, Minneapolis, MN, April 9, 2004.
356. Fresh Osteochondral Allograft Transplantation, University of Minnesota, Minneapolis, MN, April 9, 2004.

357. Shoulder Arthritis: Non-Arthroplasty Alternatives, University of Minnesota, Minneapolis, MN, April 9, 2004.
358. Arthroscopic Bankart Repair. 5th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, 2004, Jacksonville, FL, April 3, 2004.
359. Thernal Capsulorrhaphy: “What To do When Things Go Bad.” 5th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, 2004, Jacksonville, FL, April 3, 2004.
360. Cartilage Restoration: Clinical Update and Treatment Algorithm. Zimmer Hip and Knee Symposium, Chicago, IL, March 23, 2004.
361. Chairman, Instructional Course Lecture, Meniscus Allograft Transplantation, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004..
362. Meniscus Allograft Transplantation: Patient Evaluation, Indications and Case Studies, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004.
363. Moderator, Shoulder and Elbow Scientific Papers, Rotator Cuff, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 12, 2004.
364. Cartilage Resurfacing, Osteotomy, and Ligament Reconstruction, American Orthopaedic Society for Sports Medicine, Specialty Day, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 13, 2004
365. Ask the Expert, Cartilage Case Consultations, Genzyme Tissue Repair, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004.
366. Arthroscopic Shoulder Stabilization: Techniques, Lab Instructor, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004.
367. Bridge in Slot Allograft Meniscus Transplantation Surgical Technique, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10, 2004.
368. The Effects of Medical Meniscal Transplantation Techniques on Intraarticular Contact Pressures, Meniscus Transplant Study Group, San Francisco Marriott, San Francisco, CA, March 10, 2004.
369. Tibiofemoral Contact Mechanics Following Serial Medial Meniscectomies in the Human Cadaveric Knee, Meniscus Transplant Study Group, San Francisco Marriott, San Francisco, CA, March 10, 2004.
370. Prospective Evaluation of Functional Results of Allograft Meniscus Transplantation, Meniscus Transplant Study Group, San Francisco Marriott, San Francisco, CA, March 10, 2004.
371. Chairman, Instructional Course Lecture, Arthroscopic Management of Glenohumeral Instability: Indications and Techniques, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10, 2004.
372. Arthroscopic Management of Shoulder Instability: Indications, Techniques, Results, 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10, 2004.
373. Non-Arthroplasty Alternatives to the Management of Chondral Disease of the Glenohumeral Joint, Athlete’s Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 18, 2004.
374. Cartilage Restoration: Clinical Update and Treatment Algorithm. Athlete’s Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 18, 2004.

375. Autograft OATS for Femoral Condyle Defects: Technique, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 18, 2004.
376. MRI of the Shoulder, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
377. Open vs Arthroscopic Shoulder Stabilization: Resolving the Controversy, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
378. Radiofrequency Capsulorrhaphy: Complications and Management, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
379. What's new with the shoulder and knee? Kemper-Broadspire, Bensonville, IL, February 7, 2004.
380. Mini Battle: Aggressive Treatment of Articular Lesions or Simple Debridement, Metcalf Meeting, Sun Valley, Idaho, February 3, 2004.
381. Treatment of Difficult Articular Cartilage Lesions, Metcalf Meeting, Sun Valley, Idaho, February 3, 2004.
382. Current Status of Knotless Anchors for Arthroscopic Shoulder Stabilization, Metcalf Meeting, Sun Valley, Idaho, February 2, 2004.
383. Non-Arthroplasty Alternatives to the Management of Chondral Disease of the Glenohumeral Joint, Metcalf Meeting, Sun Valley Idaho, February 2, 2004.
384. Cartilage Restoration: Clinical Update and Treatment Algorithm. Zimmer Hip and Knee Symposium, Vail, CO, January 28, 2004.
385. Audio Lecture: Management of Chondral Injury and Meniscus Transplantation. Data Trace Publishing Company, 2003.
386. Meniscus Injury: Evaluation and Management. Review and Update for Practicing Orthopedic Surgeons. AAOS CME Course, December 5, 2003.
387. Articular Cartilage Problems: Evaluation and Management. Review and Update for Practicing Orthopedic Surgeons. AAOS CME Course, December 5, 2003.
388. Cartilage Restoration: Clinical and Basic Science Update. State-of-the-Art Total Hip and Knee Replacement. Rush University Medical Center, Chicago, IL, November 18, 2003.
389. Meniscus Allograft Reconstruction: Surgical Demonstration. 22nd Annual Arthroscopy Association of North America. New Orleans, LA, November 14, 2003.
390. Arthroscopic Shoulder Stabilization: Surgical Demonstration. 22nd Annual Arthroscopy Association of North America. New Orleans, LA, November 14, 2003.
391. Meniscus Allograft Reconstruction: Indications, Techniques, Results. UCSF Comprehensive Knee Cartilage Symposium, San Francisco, CA, November 8, 2003.
392. Osteochondral Allograft Reconstruction: Indications, Techniques, Results. UCSF Comprehensive Knee Cartilage Symposium, San Francisco, CA, November 8, 2003.
393. 5-Years Experience at the Rush Cartilage Restoration Center. 85th Annual Alumni Meeting, The Hospital for Special Surgery, New York, New York, November 6-7, 2003 (11 Hours, Category 1).

394. Shoulder Instability: Patient Evaluation and Surgical Indications. Shoulder and Elbow: The Essentials. AAOS Orthopedic Learning Center, Chicago, IL, October 31, 2003.
395. Cartilage Restoration: Clinical Update and Treatment Algorithm. Illinois Association for Orthopedic Surgeons Annual Meeting, Rush University, October 25, 2003.
396. Arthroscopic Rotator Cuff Repair: Indications and Techniques. Mitek Workshop, Rush University, Chicago, IL, October 25, 2003.
397. Autologous Chondrocyte Implantation. 2nd Annual Joint Preserving Treatment of the Knee. John Hopkins Annapolis, Maryland, October 24, 2003.
398. Surgical Treatment of Articular Cartilage Defects. Annual Clinical Assembly of Osteopathic Specialists, Chicago, IL, September 20, 2003.
399. Arthroscopic Rotator Cuff Repair: Recent Advances in 2003. 58th Annual Meeting of the American Society of the Hand, Instructional Course Lecture, Chicago, IL, September 19, 2003.
400. Advanced Considerations in Articular Cartilage Management. Oakbrook, IL, September 16, 2003.
401. Arthroscopic Rotator Cuff Repair: Indications and Techniques. The Shoulder II: Open and Arthroscopic Techniques, AAOS Orthopedic Learning Center, Chicago, IL, September 12, 2003.
402. Puddu Opening Wedge Plate for Knee Realignment. Baltimore Limb Deformity Course, September 11, 2003.
403. New Approaches to Joint Preservation. Limb Deformity Course, September 11, 2003.
404. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, September 9, 2003.
405. Cartilage Restoration: Patient Evaluation and Treatment Algorithm. Instructional Course Lecture, 29th Annual AOSSM Meeting, San Diego, CA, July 20, 2003.
406. Moderator, Scientific Session on Articular Cartilage, 29th Annual AOSSM Meeting, San Diego, CA, July 21, 2003.
407. Assessment and Management of Patients with Chondral Injuries. Advanced Concepts in ACI. Charlotte, NC, June 28, 2003.
408. Cartilage Restoration and Meniscal Allograft Reconstruction, Advanced Concepts in ACI. Charlotte, NC, June 28, 2003.
409. Occupational Injuries: Fact or Fiction. Illinois Worker's Compensation Update, Oakbrook, IL, June 26, 2003.
410. Osteochondral Autograft Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20, 2003.
411. Allograft Meniscus Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20, 2003.
412. Arthroscopic Rotator Cuff Repair: Pearls and Pitfalls. Mitek Shoulder & Knee Mini-Course, Las Vegas, NV, May 31, 2003.
413. Arthroscopic Shoulder Stabilization: Indications, Techniques & Results. Mitek Shoulder & Knee Mini-Course, Las Vegas, NV, May 31, 2003.

414. Patient Evaluation and Management Techniques for Articular Cartilage Disease. Advanced Techniques in ACL. Manhattan Beach, CA, May 10, 2003.
415. Osteochondral Grafting: Indications, Techniques, Results. Surgical Treatment Options for Complex Knee Injuries and Disorders Course # 3615, May 4, 2003, AAOS Learning Center, Rosemont, IL.
416. Articular Cartilage Treatment Options. Instructional Course, 22nd Annual Meeting Arthroscopy Association of North America, Phoenix, AZ, April 24, 2003..
417. Cartilage Restoration: Advanced Techniques and Treatment Algorithm. Medical & Surgical Approaches to Articular Cartilage Disorders of the Knee, April 12, 2003.
418. Posterior and Multi-Directional Shoulder Instability: Open Treatment. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5, 2003.
419. Coding Shoulder Procedures. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5, 2003.
420. Mini-Open and Arthroscopic Rotator Cuff Repair: Why, When and How To. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 6, 2003.
421. Osteochondral Allografts: Indications, Techniques, Results. 22nd Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
422. Autologous Chondrocyte Implantation: Indications, Techniques, Results. 22nd Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
423. Allograft Meniscus Transplantation: Surgical Technique and Demonstration. 22nd Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
424. Arthroscopic shoulder stabilization. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 13, 2003.
425. Anterior cruciate reconstruction: Rationale, Techniques, Results. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 15, 2003.
426. Allograft meniscus transplantation. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 15, 2003.
427. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, February 25, 2003.
428. Arthroscopic shoulder stabilization: Point-Counterpoint - Cole vs Rockwood. Arthroscopy Association of North America Specialty Day, New Orleans, LA, February 8, 2003.
429. Chairman, Instructional Course Lecture, Allograft Meniscus Transplantation, 70th Annual AAOS Meeting, New Orleans, LA, February 6, 2003.
430. Chairman, Instructional Course Lecture, Arthroscopic Shoulder Stabilization, 70th Annual AAOS Meeting, New Orleans, LA, February 6, 2003.
431. Instructional Course Lecture: Establishing a Paperless Office, 70th Annual AAOS Meeting, New Orleans, LA, February 9, 2003.
432. Acromioclavicular joint arthropathy and arthroscopic rotator cuff repair: Indications, techniques, results. 4th Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 20, 2003.

433. Arthroscopic shoulder stabilization: Indications, techniques, results. 4th Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 23, 2003.
434. Basic science of thermal capsulorrhaphy. 4th Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 24, 2003.
435. Surgical demonstration. Exojet. 7th Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002
436. Exojet: Overview and Application. 7th Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
437. Marrow Stimulation and Osteochondral Grafting. 7th Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
438. Arthroscopic Shoulder Stabilization: Techniques, Pearls & Pitfalls. 7th Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
439. Arthroscopic Rotator Cuff Repair. Pearls and Pitfalls. 7th Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 7, 2002.
440. Proximal Humerus Fractures. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
441. Magnetic Resonance Imaging of the Shoulder. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
442. Current Status of Arthroscopic Shoulder Stabilization. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
443. Live surgical demonstration: Arthroscopic shoulder stabilization. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
444. Live surgical demonstration: Arthroscopic rotator cuff repair. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
445. Alternatives to Total Knee Arthroplasty. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
446. Arthroscopic Treatment of Miscellaneous Knee Conditions. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
447. Allograft Meniscus Transplantation. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 15, 2002.
448. Management of Arthritic Knee: Adolescence to 55. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 16, 2002.
449. Arthroscopic Shoulder Stabilization. 27th Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
450. Allograft Meniscus Transplantation. 27th Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
451. Cartilage Restoration: Clinical Update. 27th Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.

452. Arthroscopic Rotator Cuff Repair: Techniques for Success. Mitek Knee and Shoulder Symposium, Irvine, CA, October 18, 2002.
453. Cartilage Restoration: Treatment Algorithm, UCSD Cartilage Symposium, San Diego, CA, October 19, 2002.
454. Meniscus Transplantation: Indications, Techniques, Results, UCSD Cartilage Symposium, San Diego, CA, October 19, 2002.
455. Cartilage Restoration: Treatment Algorithm, Orthopedic Symposium, Dallas, Texas, October 15, 2002.
456. Clinical Outcomes: The Development of the e-CRF. 1st Meeting of the Cartilage Research Foundation, Baltimore, MD, October 13, 2002.
457. Biologic Markers for Osteoarthritis. 1st Meeting of the Cartilage Research Foundation, Baltimore, MD, October 13, 2002.
458. Arthroscopic Rotator Cuff Repair: Techniques for Success, Egyptian Orthopedic Society, Cairo, Egypt, August 31, 2002.
459. Cartilage Restoration: Clinical and Basic Science Update, Egyptian Orthopedic Society, Cairo, Egypt, August 31, 2002.
460. Cartilage Restoration: The Treatment Algorithm, Clinical Orthopedic Society, Indianapolis, IN, September 20, 2002.
461. Arthroscopic Rotator Cuff Repair Advanced Arthroscopic and Open Shoulder Surgery, AAOS Course, OLC, Chicago, IL, July 19, 2002.
462. Thermal Treatment of Shoulder Instability, Shoulder Review and Update, AAOS Course, OLC, Chicago, IL, July 20, 2002.
463. Arthroscopic Shoulder Stabilization, Shoulder Review and Update, AAOS Course, OLC, Chicago, IL, July 20, 2002.
464. Hemiarthroplasty for Proximal Humerus Fractures, Live surgical demonstration, AAOS Course, OLC, Chicago, IL, July 21, 2002.
465. Current Concepts: Management of Complications with Thermal Treatment in the Shoulder, 28th Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 30, 2002.
466. Cartilage Restoration: Patient Evaluation and Treatment Algorithm. 28th Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 31, 2002.
467. Cartilage Restoration. Total Hip and Knee Forum, Rush University, Chicago, IL, June 25, 2002.
468. Beach-Chair Position and Diagnostic Shoulder Arthroscopy. 19th Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002.
469. Arthroscopic Instability Technique and Results. 19th Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002.
470. Arthroscopic Rotator Cuff Repair. Midwest Orthopedics Educational Luncheon, Rush University, Chicago, IL, June 11, 2002.
471. Thermal Treatment of Shoulder instability: Indications, Techniques, Results. ACSM-AOSSM Exchange Lecture, American College of Sports Medicine 49th Annual Meeting, St. Louis, MO, May 29, 2002.

472. Contemporary Management of Shoulder and Elbow Arthritis, Arthritis Foundation, Living with Arthritis Seminar, Lisle, IL, May 18, 2002.
473. Arthroscopic Shoulder Stabilization, Live Demonstration. The Shoulder: Current Practice in Open and Arthroscopic Techniques, AAOS Course, OLC, Chicago, IL, May 6, 2002.
474. Clinical Update on Upper Extremity Problems, Chicago Metropolitan Hand Study Organization, Chicago, IL, April 23, 2002
475. Clinical Update on Upper Extremity Problems. Annual Meeting of the American Association of Occupational Health Nurses and the American College of Occupational and Environmental Medicine, Chicago, IL, April 15, 2002.
476. Allograft Meniscus Transplantation: Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002.
477. Osteochondral Allografts, Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002
478. Osteochondral Autografts, Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002
479. Arthroscopic Rotator Cuff Repair: Techniques for Success. Mitek Advanced Knee and Shoulder Symposium, Charlottesville, VA, March 15, 2002.
480. Arthroscopic Rotator Cuff Repair: Live Demonstration, Mitek Advanced Knee and Shoulder Symposium, Charlottesville, VA, March 16, 2002.
481. Arthroscopic vs. open stabilization: How to choose. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 2, 2002.
482. MRI of the shoulder. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 3, 2002.
483. Rehabilitation of the shoulder. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 3, 2002.
484. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, February 26, 2001.
485. Moderator, Knee Session, 48th Annual Orthopaedic Research Society, Dallas, TX, February 10, 2002.
486. Moderator, Shoulder/Elbow Instability, 69th Annual American Academy of Orthopaedic Surgeon's, Dallas, TX, February 13, 2002.
487. Cartilage Restoration: Clinical and Basic Science Update. 16th Annual Vail Orthopaedic Symposium: State-of-the-Art Total Hip and Knee Replacement: Controversies and Solutions. January 31, 2002.
488. Thermal Surgery: Capsulorrhaphy and Chondroplasty, Kansas City, MO, January 17, 2002.
489. Live demonstration, Arthroscopic Rotator Cuff Repair, Global Knee and Shoulder Arthroscopy Symposium, Orthopedic Learning Center, Chicago, IL, January 20, 2002.
490. Patient Evaluation for Instability, Global Knee and Shoulder Arthroscopy Symposium, Orthopedic Learning Center, Chicago, IL, January 20, 2002.
491. Thermal Chondroplasty, Basic Science and Clinical Application. Second Annual Fellowship Program, Carlsbad, CA, December 8, 2001.

492. Allograft Meniscus Transplantation. Illinois Athletic Trainers' Association State Meeting, Chicago, IL, November 11, 2001.
493. Arthroscopic Management of the Unstable Shoulder. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001.
494. Thermal Applications for Shoulder Instability. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001.
495. Live demonstration, Arthroscopic Rotator Cuff Repair, Mitek Shoulder and Knee Symposium, Orlando, FL, October 19, 2001.
496. Arthroscopic Rotator Cuff Repair: Decision Making, Pearls and Pitfalls. Mitek Shoulder and Knee Symposium, Orlando, FL, October 18, 2001.
497. Arthroscopic Management of Shoulder Instability, Mitek shoulder and Knee Symposium, Orlando, FL, October 18, 2001.
498. Advances in Minimally Invasive Shoulder Surgery, Accelerated Rehabilitation Educational Forum, Oakbrook, IL, 2001, October 16, 2001.
499. Arthroscopic Rotator Cuff Repair: Pearls and Pitfalls. Comprehensive Surgery for the Athlete's Shoulder. Orthopedic Learning Center, September 28, 2001.
500. Thermal Treatment of Shoulder Instability. Comprehensive Surgery for the Athlete's Shoulder. Orthopedic Learning Center, September 28, 2001.
501. Cartilage Restoration, Clinical Update, Industrial Rehabilitation Allies, Chicago, IL, September 14, 2001.
502. Course Chairman, Mitek Shoulder and Knee Sports Medicine Symposium, Carlsbad, CA, August 10-11, 2001.
503. Live demonstration, Arthroscopic Posterior Cruciate Ligament Reconstruction: Double Bundle Technique. Complex Knee Problems: Surgery for the Active Knee. Orthopedic Learning Center, Chicago, IL, July 28, 2001.
504. Cartilage Restoration and Autologous Chondrocyte Transplantation. Complex Knee Problems: Surgery for the Active Knee. Orthopedic Learning Center, Chicago, IL, July 29, 2001.
505. Live demonstration, Arthroscopic Shoulder Stabilization, The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey, Orthopedic Learning Center, Chicago, IL, July 13, 2001.
506. Management of Proximal Humerus Fractures, The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey, Orthopedic Learning Center, Chicago, IL, July 15, 2001.
507. Treatment of Chondral Injury and Thermal Chondroplasty: Clinical Update, Michigan Sports Medicine Society, Flint, Michigan, June 14, 2001.
508. Cartilage Restoration: Clinical Update, Medical College of Wisconsin, Milwaukee, WI, June 4, 2001.
509. Advances in the Arthroscopic Management of Shoulder and Knee Conditions, Arthritis Foundation Annual Seminar, Chicago, IL, May 19, 01.
510. Chairman, Instructional Course Lecture, Management of Chondral Injury, Mid-America Orthopaedic Association, 19th Annual Meeting, Amelia Island, FL, April 20, 2001.
511. An Algorithm for the Management of Chondral Injury, Mid-America Orthopaedic Association, 19th Annual Meeting, Amelia Island, FL, April 20, 2001.

512. Cartilage Restoration: Clinical Update, Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 4, 2001.
513. Autologous Chondrocyte Implantation: Indications, Techniques and Results, CorVel, Milwaukee, WI, March 29, 2001.
514. Chairman, Instructional Course Lecture, Allograft Meniscus Transplantation, AAOS 68th Annual Meeting, San Francisco, CA, March 4, 2001.
515. Evaluation, Indications, and CPT Coding for Allograft Meniscus Transplantation, AAOS 68th Annual Meeting, San Francisco, CA, March 4, 2001.
516. Chairman, Instructional Course Lecture, Arthroscopic Management of Glenohumeral Instability, AAOS 68th Annual Meeting, San Francisco, CA, March 2, 2001.
517. Evaluation, Indications, Instrumentation and CPT Coding for Arthroscopic Management of Glenohumeral Instability, AAOS 68th Annual Meeting, San Francisco, CA, March 2, 2001.
518. Clinical Update on Thermal Chondroplasty, Cartilage Study Group, Napa Valley, CA, February 27, 2001.
519. Exploring Options in Arthritis. Oak Park Hospital, Oak Park, IL, February 9, 2001.
520. Indications for Cartilage Restoration. American Association of Legal Nurse Consultants, Chicago, IL, February 8, 2001.
521. Cartilage Restoration, Illinois Orthopedic Nursing Association, Chicago, IL, January 31, 2001.
522. Arthroscopic Rotator Cuff Repair: Decision Making, Pearls and Pitfalls. Mitek Global Advanced Arthroscopy Knee and Shoulder Symposium; Orthopedic Learning Center, Chicago, IL, January 21, 2001.
523. Preexisting conditions of the shoulder and knee in the worker's compensation setting. Medial and legal issues in worker's compensation, Itasca, IL, November 28, 2000.
524. Thermal energy and articular cartilage: A clinical overview. Cartilage Study Group, The Hospital for Special Surgery, New York, NY, November 9, 2000.
525. Contemporary management of arthritis of the shoulder and knee. Arthritis treatment in the year 2000, Rush Arthritis and Orthopedic Institute, Chicago, IL, November 11, 2000.
526. Alternatives to knee arthroplasty, Total Hip and Knee Forum, Chicago Learning Center, Chicago, IL, November 13, 2000.
527. Arthroscopic management of the unstable shoulder, Illinois Association of Orthopaedic Surgeons, Loyola University Medical Center, Maywood, IL, November 4, 2000.
528. Live demonstration, hemiarthroplasty replacement for four-part proximal humerus fractures, The Shoulder: Advances in Open and Arthroscopic Techniques, American Academy of Orthopedic Surgeons, Rosemont, IL, October 29, 2000.
529. Hemiarthroplasty Reconstruction for Four-Part Proximal Humeral Fractures, Evaluation and Management of Common Shoulder Disorders, American Academy of Orthopedic Surgeons, Rosemont, IL, October 28, 2000.
530. Live demonstration, Arthroscopic Bankart repair, AAOS/EEXOT Shoulder and Knee Arthroscopy Course, American Academy of Orthopedic Surgeons, Rosemont, IL, October 20, 2000.
531. Basic Science of Shoulder Instability, Resident Teaching Conference, October 24, 2000.

532. Treatment Algorithm for Chondral Injuries, The State of the Art in Cartilage Repair, Washington University Medical School, October 21, 2000.
533. Thermal Chondroplasty, The State of the Art in Cartilage Repair, Washington University Medical School, October 21, 2000.
534. Clinical Application of Thermal Energy: Shoulder Instability and Chondromalacia-"Should we use it," Pennsylvania Orthopedic Society, University of Pennsylvania, September 30, 2000.
535. Arthroscopic Rotator Cuff Repair: Shoulder Symposium; Sports Medicine Symposium Advanced Arthroscopy: Knee and Shoulder. Duke University, Durham, North Carolina, September 24, 2000.
536. Technical pearls: Optimizing exposure for glenoid insertion. Contemporary Shoulder Orthopaedics; A Hands-On Course in Shoulder Reconstruction and Arthroplasty. American Academy of Orthopaedic Surgeons Orthopaedic Learning Center, Rosemont, Illinois, September 8, 2000.
537. Surgical Decision Making in Cartilage Restoration, National Athletic Trainers' Association 51st Annual Meeting, Nashville, Tennessee, AOSSM-NATA Exchange Lecture, June 28, 2000.
538. Surgical Management of Symptomatic Chondral Injury, AOSSM-ACSM Exchange Lecture, American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 2, 2000.
539. Evaluation and classification of articular cartilage disease. The Knee: A New Millenium from Robotics to Gene Therapy, Panther Sports Symposium, Pittsburgh, Pennsylvania, May 4-6, 2000.
540. Evaluation and classification of degenerative knee conditions. The Knee: A New Millenium from Robotics to Gene Therapy. Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, May 4-6, 2000.
541. Open acromioclavicular joint reconstruction. Live Demonstration at Advanced Techniques in Open and Arthroscopic Shoulder Surgery, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, April 30, 2000.
542. Approaches to the repair of articular cartilage defects, Mid America Orthopedic Association, 18th Annual Meeting, Scottsdale, Arizona, April 29, 2000.
543. Master Instructor, Advanced Techniques in Open and Arthroscopic Shoulder Surgery, American Academy of Orthopaedic Surgery, April 28-30, 2000.
544. Meniscal grafting-update presentation. Allografts in Orthopaedics, Illinois Orthopaedic Society Spring Meeting, Urbana, Illinois, April 7, 2000.
545. Surgical technique for four-part fractures. The Chicago Shoulder Arthroscopy Course, Orthopaedic Learning Center, Chicago, Illinois, April 2, 2000.
546. Meniscal Transplantation: Indications, Technique and Results. Total Hip and Knee Forum, Chicago Learning Center, Rush-Presbyterian St.-Luke's Medical Center, Chicago, Illinois, February 28-29, 2000.
547. Open vs Arthroscopic Surgical Intervention for Shoulder Stabilization. Northwestern Hospital, Chicago, Illinois. January 25, 2000.
548. Electrothermal Arthroscopy Symposium. Applications and Techniques. Menorah Park Medical Center, Overland Park, Kansas, December 16, 1999.
549. Arthroscopic Stabilization: Suture Anchors. Open and Arthroscopic Shoulder Surgery: Approaches for the New Millennium. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, Dec. 10-12, 1999.

550. Proximal Humeral Fracture- Hemiarthroplasty; Indications and Techniques. Surgical Management for Common Disorders of the Shoulder, American Academy of Orthopaedic Surgeons, Orthopedic Learning Center, Rosemont, Illinois, Dec. 12, 1999.
551. Proximal Humeral Fracture- Hemiarthroplasty; Indications and Techniques. Open and Arthroscopic Shoulder Surgery: Approaches for the New Millennium. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, Dec. 10-12, 1999.
552. Shoulder instability: Bioabsorbable implants. Advanced Shoulder Arthroscopy, Arthroscopy Association of North America, American Academy of Orthopaedic Surgeons, Orthopedic Learning Center, Rosemont, Illinois, October 15, 1999.
553. The current status of meniscus transplantation. "The Masters Experience" Comprehensive Knee Arthroscopy, Arthroscopy Association of North America, American Academy of Orthopaedic Surgeons, Orthopedic Learning Center, Rosemont, Illinois, October 9, 1999.
554. Proximal humerus fractures. Open and Arthroscopic Shoulder Surgery: Approaches for the New Millennium, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 11, 1999.
555. Thermal modification of collagen in sports medicine. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Washington, DC, May 30, 1999.
556. Open vs. arthroscopic shoulder stabilization. EBI Sports Medicine Forum, Parsipone, New Jersey, May 14, 1999.
557. Meniscal transplantation. EBI Sports Medicine Forum, Parsipone, New Jersey, May 14, 1999.
558. Cartilage and meniscal transplantation. Total Hip and Knee Forum, Chicago Learning Center, Rush-Presbyterian St. Luke's Medical Center, Chicago, Illinois, April 26, 1999.
559. Alternatives to joint replacement for the active patient with knee osteoarthritis. Arthritis Foundation Seminar, Rush-Presbyterian St.-Luke's Medical Center, Chicago, Illinois, April 24, 1999.
560. Contemporary management of shoulder and knee injuries: A primary care physician's perspective. Oak Park Hospital, Oak Park, Illinois, April 23, 1999.
561. Thermal modification of collagen in sports medicine. Milwaukee, Wisconsin, April 22, 1999.
562. Course Director, Autologous cartilage cell transplantation: indications and techniques. Hyatt Hotel, Chicago, Illinois, April 21, 1999.
563. Developments in Cartilage Restoration. The Rush Cartilage Restoration Center, Board of Trustees, Rush-Presbyterian St.-Luke's Medical Center, Chicago, Illinois, April 14, 1999.
564. Advances in cartilage surgery. Midwest Orthopaedics Sports Medicine Seminar, Oak Park, Illinois, March 6, 1999.
565. The multiple ligament-injured knee. Chicago Sports Medicine Society, Chicago, Illinois, February 18, 1999.
566. Enhancing the results of arthroscopic shoulder stabilization with the use of RF. American Academy of Orthopaedic Surgeons, Anaheim, California, February 7, 1999
567. Physical examination of the athlete's shoulder. Accelerated Rehabilitation, Chicago, Illinois, January 21, 1999.
568. The use of thermal energy in sports medicine. Cincinnati Orthopaedic Group, Cincinnati, Ohio, January 20, 1999.

569. Current techniques in open and arthroscopic shoulder surgery. Associate Master Instructor, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, November 13-15, 1998.
570. Course Director, Autologous cartilage cell transplantation: indications and techniques. Rush-Presbyterian-St. Luke's Medical Center, Chicago, Illinois, November 7, 1998.
571. Joint management and cartilage transplants. Arthritis Foundation Seminar, Oak Lawn Hilton, Chicago, Illinois, October 17, 1998.
572. The use of the FCE in the management of workers compensation shoulder and knee injuries. FOCUS Rehabilitation, Chicago, Illinois, October 28, 1998.
573. Techniques in shoulder surgery: open rotator cuff repair. Live Demonstration. Summer Institute, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 9-11, 1998.
574. Associate Master Instructor, Summer Institute, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 9-11, 1998.
575. On-the-field management of the fallen athlete. Rush-Presbyterian-St.-Luke's Medical Center Resident Teaching Conference, Chicago, Illinois, August 11, 1998.
576. Management of work-related injuries to the knee. Case Manager's Seminar, Flossmore Physical Therapy, Flossmoor, Illinois, July 21, 1998.
577. Focus on function. Lake Shore Health Care and Rehabilitation Center, Chicago, Illinois, July 15, 1998.
578. Ligament and meniscal injury. The Chicago Orthopedic Board Review, Chicago, Illinois, July 14, 1998.
579. The basic science of orthopaedic tissues. The Chicago Orthopedic Board Review, Chicago, Illinois, July 13, 1998.
580. Management of the degenerative knee in the active patient. Rush-Presbyterian-St.-Luke's Medical Center, Arthritis Foundation, Chicago, Illinois, July 11, 1998.
581. Course Director, Indications and techniques of meniscal allograft transplantation. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, June 27, 1998.
582. Management of the worker's compensation shoulder injury. Case Manager's Seminar, Clyborn Physical Therapy, Chicago, Illinois, June 23, 1998.
583. Proximal humerus fractures. Open and Arthroscopic Shoulder Surgery: Advanced Anterior and Posterior Techniques. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, May 15-17, 1998.
584. Associate Master Instructor, Open and arthroscopic shoulder surgery: Advanced anterior and posterior techniques. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, May 15-17, 1998.
585. Shoulder problems in the workplace. Chubb's Insurance Company, Chicago, Illinois, February 13, 1998.
586. Meniscus transplantation: Indications and techniques. HealthSouth, Oak Park, Illinois, February 12, 1998.
587. Cartilage resurfacing techniques. AIG Insurance Company, Springfield, Illinois, January 28, 1998.
588. Management of shoulder instability. Physical Therapy of the North Shore, Northbrook, Illinois, January 22, 1998.

589. Associate Master Instructor, "The Masters Experience" Comprehensive Knee Course. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, January 16-18, 1998.
590. Shoulder Surgery: Focused perspectives on open vs. arthroscopic management. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, December 6, 1997.
591. Open and arthroscopic shoulder Surgery: Current concepts and techniques. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, December 5-7, 1997.
592. Meniscus transplant: Indications, techniques and outcomes. Athletico, Chicago, Illinois, December 2, 1997.
593. Clinical considerations in management of articular cartilage defects. Biochemistry Departmental Lecture, Rush-Presbyterian-St.-Luke's Medical Center, Chicago, Illinois, November 26, 1997.
594. State of the art and perspectives in knee ligament injury repair. Annual meeting of the German Society of Trauma, Berlin, Germany, November 19-22, 1997.
595. Closed head injuries in the athlete: on the field management. Illinois Trainers Association, Oak Park, Illinois, November 15, 1997.
596. Management of articular cartilage injury. Free Health Seminar, Oak Park Hospital, Oak Park, Illinois, November 1-2, 1997.
597. Marketing your clinical practice-ethically, effectively, economically. Midwest Orthopaedics Annual Staff Meeting and Awards, Chicago, Illinois, October 28, 1997.
598. Living with arthritis and enjoying life to the fullest. St. Margaret Mercy HealthCare Center, Hammond, Indiana, October 25, 1997.
599. Management of articular cartilage injury in the athlete. Oak Park Hospital, Oak Park, Illinois, October 17, 1997.
600. Autologous cartilage cell transplantation-A comparison to traditional techniques. Chubb's Insurance Company, Chicago, Illinois, October 16, 1997.
601. Diagnosis and management of shoulder pain-A primary care physician's perspective. Rush-Prudential HMO, Chicago, Illinois, October 2, 1997.
602. Arthroscopic shoulder stabilization. Congress of the European Society for Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15-17, 1997.
603. Management of arthritis in the active patient-A primary care physician's perspective. Rush-Prudential HMO, Chicago, Illinois, September 11, 1997.
604. Management of the acutely dislocated knee. American Academy of Orthopaedic Surgeons, Summer Institute, Washington, D.C., September 3-7, 1997.
605. Treatment of the unstable shoulder. 1997 National Orthopaedic Resident Program, Chicago, Illinois, August 21-24, 1997.
606. Treatment of multi-ligament knee injury problems. 1997 National Orthopaedic Resident Program, Chicago, Illinois, August 21-24, 1997.
607. Arthroscopic shoulder stabilization. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.
608. Total shoulder arthroplasty. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.

609. Surgical treatment of the weight bearing shoulder in wheelchair users. Conference on shoulder pain in wheelchair users: Prevention, assessment and treatment. Pittsburgh Marriott City Center, Pittsburgh, Pennsylvania, May 10, 1997.
610. Management of PCL injuries in 1997. The Eighth Annual Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, April 17-19, 1997.
611. Shoulder and elbow injuries in the throwing athlete: Diagnosis, treatment and prevention. Ingomar Franklin Park Athletic Association Baseball Coach's Certification Program, Pittsburgh, Pennsylvania, March 2 and 16, 1997.
612. Enhanced reimbursement from accurate coding of the orthopaedic patient. Instructional course in cost containment. The Hospital for Special Surgery, New York, New York, November, 1995.
613. Sports Medicine Update: Shoulder and Elbow Problems in the Elite Athlete. The Hospital for Special Surgery, New York, New York, May 17, 1995.
614. The potential use of recombinant human bone morphogenetic protein. The history and current work at The Hospital for Special Surgery. Genetics Institute, Cambridge Massachusetts. March 1992.
615. The design of a hard-tissue analysis laboratory. The Hospital for Special Surgery Metabolic Bone Disease Conference, New York, New York, September 1991.

GRAND ROUNDS

1. Cartilage Restoration, Rush University Grand Rounds, Rush University Medical Center, sApril 28, 2010.
2. Failed Shoulder Instability: Pearls and Pitfalls, University of Buffalo, Buffalo, NY, April 29, 2010.
3. Carilage Restoration: Clinical Update, University of Buffalo, Buffalo, NY, April 29, 2010.
4. Cartilage Restoration: Clinical Update and Treatment Algorithm, Vanderbilt University, Nashville, TN, January 28. 2010.
5. MRI of the Shoulder: From the Magnet to the Clinic to the Operating Room, Vanderbilt University, Nashville, TN, January 28. 2010.
6. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, University of Illinois, Chicago, IL, April 11, 2009.
7. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Columbia University, New York, NY, February 27, 2009.
8. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Brown University Department of Orthopedic Surgery, Providence, RI, September 17, 2008.
9. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, William Beaumont Army Medical Center & Texas Tech University Health Sciences Center Orthopaedic Surgery Residency Program 11 Annual Resident Research Day, El Paso, Texas, May 30, 2008.
10. Meniscal Allograft Reconstruction, William Beaumont Army Medical Center & Texas Tech University Health Sciences Center Orthopaedic Surgery Residency Program 11 Annual Resident Research Day, El Paso, Texas, May 30, 2008.
11. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Boston School of Medicine, Boston, MA, March 17, 2008.
12. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Northwestern University, Chicago, IL, February 19, 2008.
13. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, University of Pennsylvania, January 17, 2008.
14. Biologic Joint Replacement of the Knee and Shoulder, Stedman Hawkin's Clinic, Vail CO, December 11, 2008.
15. Cartilage Restoration: Clinical Update. University of Toronto, Toronto, CA, November 30, 2007.
16. Cartilage Restoration of the Knee and Shoulder, Howard University, Washington, DC, September 5, 2007.
17. Cartilage Restoration of the Knee and Shoulder, Kerlan-Jobe Clinic, Los Angelis, CA, October 26, 2006.
18. Cartilage Restoration of the Knee and Shoulder, Georgetown University, Washington, DC, April 18, 2006.
19. Cartilage Restoration of the Knee and Shoulder, University of Chicago, Chicago, IL, April 12, 2006.
20. Arthroscopic Rotator Cuff Repair: Indications and Results, University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
21. Cartilage Restoration of the Knee and Shoulder, University of Pittsburgh, Pittsburgh, PA, November 23, 2005.

22. Cartilage Restoration: Clinical Update and Case Study Didactics, Medical College of Milwaukee, Milwaukee, WI, September 1, 2004.
23. Cartilage Restoration: Clinical Update and Treatment Algorithm. Alexian Brothers Hospital, Elk Grove Village, IL, September 1, 2004.
24. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, Albany University Medical Center, Albany, NY, June 18, 2004.
25. Autologous Chondrocyte Implantation, NY Orthopedic Society, Albany NY, June 17, 2004.
26. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, University of Minnesota, Minneapolis, MN, April 9, 2004.
27. Cartilage Restoration: Clinical Update and Treatment Algorithm. University of California, Irvine, Orange County, CA, July 16, 2003.
28. Cartilage Restoration: Basic Science and Treatment Algorithm. Brown Medical School, Providence, RI, June 11, 2003.
29. Cartilage Restoration: Clinical and Basic Science Update. University of Iowa, Iowa City, IA, February 25, 2003.
30. Cartilage Restoration: The Treatment Algorithm. University of Wisconsin, Madison, September 25, 2002.
31. Arthroscopic Rotator Cuff Repair: Indications, Techniques, Results. St. James Hospital, Olympia Fields, IL, August 21, 2002.
32. Cartilage Restoration: Clinical and Basic Science Update. Michigan State University Statewide Campus System Orthopaedic Educational Day, August 14, 2002.
33. Cartilage Restoration: *In Vitro to In Vivo*. Combined Grand Rounds of the Department of Anatomy and Biochemistry, Rush University, June 6, 2002.
34. Cartilage Restoration: Clinical and Basic Science Update, Combined Meeting of Grand Rapids Orthopedic Programs, Grand Rapids, MI, May 31, 2002.
35. Cartilage Restoration: Clinical and Basic Science Update, Harvard Medical Center, Boston, MA, March 20, 2002.
36. Allograft Meniscus Transplantation, Mt. Sinai Medical Center, New York, New York, June 13, 2001.
37. Autologous Chondrocyte Implantation, Kentucky Blue Grass Society, University of Kentucky, KY, March 5, 2001.
38. Cartilage Restoration: Indications, Techniques, and Results. The University of Chicago, Chicago, IL, February 7, 2001.
39. Clinical Application of Thermal Energy: Shoulder Instability and Chondromalacia-"Should we use it," New England Baptist Medical Center, Boston, MA, September 27, 2000.
40. The basic science and clinical applications of electrothermal arthroscopy in sports medicine. Orthopedic Grand Rounds, New Britain General Hospital, Kansas City, KS, September 28, 1999.
41. Meniscal allograft transplantation, Grand Rounds, Steadman-Hawkins Clinic, Vail, CO, September, 1998.
42. The clinical management of articular cartilage injury in the active patient. Grand Rounds, Northwestern University, Chicago, IL, December 12, 1997.

43. A review of the basic science of rhBMP-2 and the status of implant related utility. Grand Rounds, The University of California at San Francisco, CA, September 5, 1996.

VISITING PROFESSORSHIPS

1. William Beaumont Army Medical Center & Texas Tech University Health Sciences Center Orthopaedic Surgery Residency Program 11 Annual Resident Research Day, El Paso, Texas, May 30, 2008.
2. Society for Orthopedic Military Surgeons, 39th Annual Meeting, Vail, CO, December 11, 2007.
3. Oscar Miller Day: Symposium on “Current Concepts in Sports Medicine” OrthoCarolina Research Institute, Charlotte, NC, October 5, 2007.
4. Howard University, Washington, DC, September 4-5, 2007.
5. Kerlan Jobe Clinic, Los Angelis, CA, October 26-27, 2006.
6. 35th Annual Raney Visiting Professorship, University of North Carolina Department of Orthopaedics, Chapel Hill, NC, June 1-3, 2006.
7. Taos Orthopedic Fellowship Reunion, Taos, NM, March 28-April 2, 2006.
8. University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
9. 47th Annual Conference of Indian Orthopaedic Association, Patna, India, November 12-17, 2002.
10. 35th Annual Northeastern Mid-Atlantic Orthopaedic Residents’ Conference, East Brunswick, NJ, October 25, 2002.
11. Helal Hospital, Cairo, Egypt, August 29 - September 5, 2002.
12. Naser Institute, Cairo, Egypt, August 29-September 5, 2002
13. El Zahraa University Hospital, Cairo, Egypt, August 29-September 5, 2002

VIDEOS

1. **Cole BJ**, Slabaugh M, Friel N: Meniscal Allograft Transplantation, AANA, Advanced Arthroscopy of the Knee, Arthroscopy Knee Library, Elsevier, 2009.
2. **Cole BJ**: Arthroscopic SLAP and Bankart Repair, Orthopedic Knowledge Online, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2007.
3. **Cole BJ**: Arthroscopic Rotator Cuff Repair. Surgical Techniques in Orthopedics, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2005.
4. Harner C, **Cole B**: Surgical Management of Knee Dislocations. Video Journal of Orthopaedics, JBJS Video Supplement, September, 2004.
5. **Cole BJ**, Carter TR, Rodeo SA: Allograft meniscus transplantation DVD, *American Academy of Orthopedic Surgeons, Instructional Course Lectures*, Rosemont, Illinois, 2003.
6. **Cole BJ**: Allograft meniscus transplantation: Bridge in slot technique. Surgical Techniques in Orthopedics: Cartilage Restoration of the Knee, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2003.
7. **Cole BJ**: Autologous chondrocyte implantation. Surgical Techniques in Orthopedics: Cartilage Restoration of the Knee, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2003.
8. **Cole BJ**: Osteochondral allograft transplantation. Surgical Techniques in Orthopedics: Cartilage Restoration of the Knee, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2003.
9. **Cole BJ**: Open rotator cuff repair: Techniques for soft tissue mobilization, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 1998.
10. Warner JJP, **Cole BJ**: Physical examination of the patient with rotator cuff deficiency. American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 1998.
11. **Cole BJ**, Navarro R, Warner JJP: Acromioclavicular reconstruction: Indications and surgical technique. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.
12. Warner JJP, **Cole BJ**, Navarro R: Open treatment of acromioclavicular separation. American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 1998.

INTERVIEWS/REVIEWS

1. Imaging Aids Joint Injection, Aspiration Accuracy, Reuters Health Article, February 11, 2011.
2. Cartilage Transplant in Olympic Wrestler offers New Hope, NBC Channel 5 News, Chicago, IL, February 8, 2011.
3. Cartilage Transplantation Gives Rise to First Time Marathon, NBC Channel 5 News, Chicago, IL, October 2 and October 11, 2009.
4. Cultivating Second Chances, American Way Magazine, September 2009.
5. A Drug for Bone Loss May Repair Cartilage, Arthritis Today, Sept 16, 2009.
6. The Use of PRP in Orthopedic Surgery, Channel 7 News, September 3, 2009.
7. Engineering New Alternatives for Cartilage Defects, The Future of Medicine @ Rush Newsletter, Spring/Summer 2009.
8. The Cartilage King, Chicago Journal, April 24, 2009.
9. Minced Cartilage Encourages New Growth in Knee. Outpatient Surgery, April 14, 2009.
10. Cartilage transplants: New hope for damaged knees. Cartilage cells introduced into joints form new cartilage, attach to bones. Chicago Tribune, April 8, 2009.
11. Program and Services Spotlight: Cartilage Restoration at Rush, Rush Physician, March 2009.
12. 10 Knee Specialists to Know, Orthopedic and Spine Practice Review, January 2009.
13. ABC Health Watch, January 8, 2009.
14. New Techniques to Tackle Rotator Cuff Injuries, Wall Street Journal, January 23, 2008.
15. Use of Steroid Injections for Shoulder Pain, Men's Health, December, 2007.
16. Cartilage Implants, WGN, April 13, 2007.
17. Osteochondral Allografts Work, J Knee Surg, Ortho Supersite, April, 2006.
18. "Prolonged Fresh Osteochondral Allografts" Have Legs, Rheumatology News, 5:3, March 2006.
19. Taking care of Athletes, Chicago Magazine, December, 2005.
20. Obesity in the NFL, Chicago Tribune, March 2, 2005.
21. Anabolic Steroid Use in Athletes, NBC Channel 5, March 22, 2005.
22. What makes an Olympic athlete: Genes or Environment, NBC Channel 5, August 25, 2004
23. Lerner Times Newspaper, July 29, 2004, "Chicago White Sox Doctor Also Treats Prosser School Athletes"
24. Exploring alternatives in cartilage transplantation, Dr. Michael Breen, CBS, September 19, 2002.
25. Issues with Arthritis, CAN TV, Channel 21, May 2, 2002.

26. Future promising for cartilage repair, Life Times, BC/BS of Illinois, p 10, May, 2001.
27. Keeping in Step, Rush Annual Report, p 4-5, March, 2001.
28. Medicine takes leap for damaged knee sufferers, The Wheaton Sun, Friday, January 19, 2001.
29. Treatments for the arthritic knee, quoted in a Wall Street Journal article on Tender Joints, November, 2000.
30. Surgical Instruments from the past; quoted in a Chicago Sun-Times article on a surgical museum, May, 2000.
31. Cartilage regenerative techniques, Channel 9 News, August, 2000.
32. Techniques of cartilage restoration, Fox News Channel, August, 2000.
33. Implantation of Carticel tissue for regeneration of cartilage in the injured knee. Medstar Communication, September, 2000.
34. Cartilage regeneration treatment for soft tissue injuries in the knee, AMA Radio News, November, 2000
35. Surgery regenerates knee cartilage, Chicago Sun-Times, July 2000
36. The Cartilage Restoration Center at Rush, Fox TV, July 2000
37. Saving knees, WGN TV, July 2000.
38. Forging an efficacious link, Orthopedic Technology Review, Vol 2, No. 1, pages 16-17. Dec/ Jan, 2000.
39. Engineering Tissue Implants, Orthopedic Technology Review, Vol 1, No 1, pages 21-24, April/May, 1999.
40. New news for knees, Focus Elmhurst, The Elmhurst Press, Page 3, June 16, 1999.
41. Wear and tear: Proper evaluation first step in recovering from knee injury, Chicago Tribune, Tempo, March 4, 1999, page 3.
42. Autologous cartilage cell transplantation, TCI Cable, Channel 26, February 15, 1999.
43. The Cartilage Restoration Center, Ivanhoe Broadcast News, 138 cities, February-March, 1999.
44. Cartilage transplantation in the active patient, FOX TV Health Watch, February 11, 1999.
45. Autologous cartilage implantation, Public Affairs Outlook, Channel 43, February 2, 1999.
46. Autologous cartilage implantation, Coffee Club, WLPO 1220 AM radio, January 29, 1999.
47. Autologous cartilage implantation, The Libby Collins Show, WJOB 1230 AM, January 19, 1999.
48. Meniscus transplants as a solution for the post-meniscectomized knee, WNBC TV, September, 1998.
49. Arthroscopic and open shoulder stabilization with similar results. Orthopaedics Today, pp. 6-7, August, 1998.
50. Lane K: Centers find ways to improve economics in orthopaedics: Knowing the code. Health Measures, pp. 29-30, May, 1997.

CONTINUING MEDICAL EDUCATION

1. Articular Cartilage: State of the Art 2011, May 21, 2011, NYU School of Medicine, NY, NY (6.0 Hours, Category 1).
2. Texas Orthopedic Association Annual Meeting, May 20, 2011, Austin, Texas (6.0 Hours, Category 1).
3. American Osteopathic Association of Orthopedics, May 13, 2011, Scottsdale, Az (4 Hours, Category 1).
4. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14-16 (12 Hours, Category 1).
5. ICL Articular Cartilage Surgery in 2011, 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 16 (2 Hours, Category 1).
6. 30th Annual Cherry Blossom Seminar, Washington, DC, April 1-3, 2011 (16.5 Hours, Category 1).
7. Arthroscopic Surgery, 2011. Robert Metcalf and AANA Meeting, March 24-27, 2011 (28 Hours, Category 1).
8. AOSSM Specialty Day, 77th Annual Meeting of the AAOS, San Diego, CA, Feb 19, 2011 (3.5 Hours, Category 1).
9. ASES Specialty Day, 77th Annual Meeting of the AAOS, San Diego, CA, Feb 19, Feb 19, 2011 (3.5 Hours, Category 1).
10. 77th Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, Feb 16-18, 2011 (27 Hours, Category 1).
11. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, San Diego, CA, Feb 18, 2011 (2 Hours, Category 1).
12. The Active Patient with GH Arthritis: How Do we prevent it and how do we treat it? AAOS, San Diego, CA, Feb 17, 2011 (2 Hours, Category 1).
13. ICL: Arthroscopic Management of Shoulder Instabilities, Management of Concomitant SLAP and Labral Tears, AAOS, San Diego, CA, Feb 16, 2011 (2 Hours, Category 1).
14. Complex Reconstruction of the Knee with Co-Morbidities, 11th Annual Cartilage Symposium, Carlsbad, CA, January 14, 2011.
15. Case-Based Cartilage Transplantation, Advanced Concepts Course, Genzyme, Inc, Rosemont, IL, November 20, 2010 (4 Hours, AMA Category 1).
16. New England Baptist Hospital Continuing Medical Education, Boston, MA October 29-October 30, 2010 (12 Hours, AMA Category 1).
17. American Shoulder and Elbow Surgeons 2010 Annual Meeting, Scottsdale, Az, Oct 21-23, 2010 (10.5 Hours, Category 1).
18. 54th Annual Edward T. Smith Orthopedic Lectureship: Future Trends in the Treatment and Surgical Techniques for the Athlete with a Focus on Shoulder, Hip and Knee Injuries. Houston, Texas, Oct 20-21, 2010 (7 Hours, Category 1).
19. Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 14-16, 2010 (17.75 Hours, Category 1).

20. The Shoulder Center of Kentucky 13th Annual Shoulder Syposim, The Rotator Cuff and Master Athlete, Lexington, KY, July 30-31, 2010 (14.75 Hourss, Category 1).
21. American Society for Sports Medicine, Providence, Rhode Island, July 15-July 17, 2010 (15 Hours, Category 1)
22. AAOS/AOSSM Annual Sports Medicine Course, February 11-14, 2010, Bonita Springs, FL.
23. AOSSM Specialty Day, 76th Annual Meeting of the AAOS, New Orleans, LA, March 13, 2010 (3.5 Hours, Category 1).
24. AANA Specialty Day, 76th Annual Meeting of the AAOS, New Orleans, LA, March 13, 2010 (3.5 Hours, Category 1).
25. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, New Orleans, LA, March 11, 2010 (2 Hours, Category 1).
26. The Active Patient with GH Arthritis: How Do we prevent it and how do we treat it? AAOS, New Orleans, LA, March 10, 2010 (2 Hours, Category 1).
27. Arthroscopic Management of Complications Related to Shoulder Instability, AAOS, New Orleans, LA, March 12, 2011 (2 Hours, Category 1).
28. 76th Annual Meeting of the American Academy of Orthopedic Surgeons, New Orleans, LA, Mar 10-13, 2010 (27 Hours, Category 1).
29. Arthroscopy Association of North America, 28th Annual Fall Course, Palm Desert, CA (12 Hours, Category 1).
30. AANA Articular Cartilage Course, October 19-11, 2009, OLC Rosemont, IL (15 Hours, Category 1).
31. AAOS-SIA Annual Meeting, Rome, Italy, September 30-October 3, 2009, Rome, Italy.
32. AOSSM Annual Meeting, Keystone, CO, July 9-12, 2009 (15 Hours, Category I).
33. ICL 101 AOSSM Annual Meeting, Keystone, CO, July 9, 2009 (1.5 Hours, Category I).
34. Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, Il, April 3-4, 2009 (16.5 Hours, Category I)
35. 10th Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines. Steamboat, CO, March 11-15, 2009 (24.75 Hours, Category I).
36. AOSSM Specialty Day, 75th Annual Meeting of the AAOS, Las Vegas, Nevada, Feb 27, 2009 (3.5 Hours, Category 1).
37. AANA Specialty Day, 75th Annual Meeting of the AAOS, Las Vegas, Nevada, Feb 27, 2009 (3.5 Hours, Category 1).
38. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, Las Vegas, Nevada, Feb 26, 2009 (2 Hours, Category 1).
39. The Active Patient with GH Arthritis: How Do we prevent it and how do we treat it? AAOS, Las Vegas, Nevada, Feb 27, 2009 (2 Hours, Category 1).
40. Arthroscopic Management of Complications Related to Shoulder Instability, AAOS, Las Vegas, Nevada, Feb 26, 2009 (2 Hours, Category 1).

41. 75th Annual Meeting of the American Academy of Orthopedic Surgeons, Las Vegas, Nevada, Feb 25-27, 2010 (27 Hours, Category 1).
42. Arthroscopic Surgery 2009, 1st Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, January 31-February 3, 2009 (15 Hours, Category 1).
43. 24th Annual Closed Shoulder and Elbow Society Meeting, Santa Barbera, CA, September 4-6, 2008 (11.75 Hours, Category 1).
44. Sarotoga Sports Symposium, Saratoga, NY, August 1-2, 2008 (12 Hours, Category 1).
45. AAOS/ASES Arthroscopic Management of Rotator Cuff Disease and Instability, July 18-19, 2008 (20 Hours, Category 1).
46. AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008 (14 Hours, Category 1).
47. Cartilage Innovation Summit 2008, Cleveland, Ohio, May 9, 2008 (8.5 hours, Category 1)
48. 27th Annual Meeting of the Arthroscopy Association of North America, Washington DC, April 24, 2008 (8 Hours, Category 1).
49. AOSSM Specialty Day, AAOS Annual Meeting, San Francisco, CA, March 8, 2008 (7 Hours, Category 1).
50. 75th Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 5-7, 2008 (27 Hours, Category 1).
51. 9th Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008 (19 Hours, AMA Category I).
52. Arthroscopic Surgery, 2008: Annual Metcalf Meeting, Sun Valley, Idaho, February 2-5, 2008.
53. AAOS/ASES Open and Arthroscopic Techniques in the Shoulder, January 18-19, 2008 (18 Hours, Category, 2008).
54. 89th Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 15-16, 2007 (15.75 Hours, Category 1).
55. 21st Annual Kerlan Jobe Alumni Meeting, Calgary, CA, July 13, 2007 (4 Hours, Category I).
56. 2007 AOSSM Allograft Workshop, Calgary, CA, July 11, 2007 (7 Hours, Category II).
57. AOSSM Annual Meeting, Calgary, CA, July 12-15, 2007 (14 Hours, Category I).
58. 24th Annual San Diego Shoulder Meeting: Arthroscopy, Arthroplasty and Fractures, San Diego, CA, June 20-23, 2007 (36 Hours, Category 1).
59. Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, June 9, 2007 (8 hours, Category 1).
60. 33rd Annual Meeting of the Herodicus Society, May 25-26, Florence Italy (8 hours, Category 1).
61. 6th Biannual ISAKOS Meeting, May 27-May 30th, Florence Italy.
62. 74th Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-16, 2007 (27 Hours, Category 1).

63. Surgical Management of Articular Cartilage Defects of the Knee. Instructional Course lecture, American Academy of Orthopedic Surgeons, San Diego, CA, February 14, 2007 (2 Hours, Category 1).
64. Allograft Meniscus Transplantation: Indications, Techniques and Results. Instructional Course lecture, American Academy of Orthopedic Surgeons, San Diego, CA, February 16, 2007 (2 Hours, Category 1).
65. Management of the Rotator Cuff: Arthroscopic Repair to Arthroplasty, American Academy of Orthopedic Surgeons, Instructional Course lecture, San Diego, CA, February 16, 2007 (2 Hours, Category 1).
66. Arthroscopy Association of North America, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
67. American Academy of Sports Medicine, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
68. American Shoulder and Elbow Society, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
69. Zimmer 21st Annual Vail Orthopaedic Symposium, Vail, CO, January 24-26th, 2007 (14 Hours, Category 1).
70. Orthopedics Today 2006, NY, NY, November 11-12, 2006 (12.5 Hours, Category 1).
71. 88th Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 10, 2006 (16 Hours, Category 1).
72. Management of Cartilage Injury in the Athlete, 2nd Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
73. American Shoulder and Elbow Surgeons Closed Annual Meeting, Chicago, IL, September 13-15, 2006 (11.75 Hours, Category 1).
74. Biologics in Shoulder Surgery, September 16, 2006 (7 Hours, Category 1)
75. AAOS/ASES The Shoulder: An Arthroscopic Odyssey, OLC Rosemont, IL, July 28-29, 2006 (20 Hours, Category 1).
76. 32nd Annual Herodius Meeting, Hershey, PA, June 26-28, 2006 (8 Hours, Category 1).
77. American Orthopaedic Society for Sports Medicine, Hershey, PA, June 28-July 1, 2006 (13.5 Hours, Category 1).
78. Management of Arthritis in the Upper Extremity of the Athlete, AOSSM ICL, July 1, 2006 (1.5 Hours, Category 1).
79. Management of Arthritis in the Lower Extremity of the Athlete, AOSSM ICL, June 30, 2006 (1.5 Hours, Category 1).
80. 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 18-21, 2006 (13.75 Hours, Category 1).
81. On the Forefront: Evolution on the Management of Articular Cartilage Injury, 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 21, 2006 (2.5 Hours, Category 1).
82. Allografts for Knee Surgery, 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 20, 2006 (2.5 Hours, Category 1).

83. Controversies in Arthroscopic Shoulder Stabilization, 25th Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 19, 2006 (2.5 Hours, Category 1).
84. Meniscal Allograft Transplantation, ICL at 73rd Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 26, 2006 (2 Hours, Category 1).
85. 73rd Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 23-26, 2006 (24 Hours, Category 1).
86. AOSSM Specialty Day, 73rd Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 25, 2006 (7 Hours, Category 1).
87. AANA Specialty Day, 73rd Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 25, 2006 (7 Hours, Category 1).
88. ASES Specialty Day, 73rd Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 25, 2006 (7 Hours, Category 1).
89. The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 19-22, 2006 (23.5 Hours, Category 1).
90. The Shoulder: Arthroscopic and Open Techniques, AAOS/ASES, OLC, Chicago, IL, January 22-22, 2006 (22 Hours, Category 1).
91. International Cartilage Repair Society 6th Annual Symposium, San Diego, CA, January 8-11, 2006 (25 Hours, Category 1).
92. Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006 (8 Hours, Category 2).
93. Comprehensive Approaches to Articular Cartilage Repair and Management, Carlsbad, CA, January 6-8, 2006. (6 Hours, Category 1).
94. 42nd Congress of the Argentinean Orthopedic and Traumatology Society, Buenos Aires, Argentina, December 5-8, 2005 (38 Hours, Category 1).
95. American Academy of Orthopaedic Surgeons, Evidence Analysis Workshop, Chicago, IL, November 21, 2005 (6.75 Hours, Category 1).
96. 22nd Annual Closed Meeting of the American Shoulder Elbow Surgeons, Palm Beach, FL, November 10-12, 2005 (11.75 Hours, Category 1).
97. Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26-28, 2005 (21 Hours, Category 1).
98. Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005 (22 Hours, Category 1).
99. 31st Annual Meeting of the Herodicus Society, Vail, Colorado, July 9-12, 2005 (12 Hours, Category 1)..
100. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 14-17, 2005 (13.5 Hours, Category 1).
101. Joint Preservation and Osteotomies About the Knee, Instructional Course Lecture, American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 15, 2005 (1.5 Hours, Category 1).

102. Articular Cartilage Treatment Options of the Knee: Treatment Options. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 16, 2005 (1.5 Hours, Category 1).
103. San Diego Shoulder Course: Arthroplasty, Arthroscopy and Fractures, San Diego, CA, June 22-25, 2005 (21.5 Hours, Category 1).
104. Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005 (4 Hours, Category 1).
105. Arthroscopy Association of North America 24th Annual Meeting, Vancouver, BC, Canada, May 12-14, 2005 (14.5 Hours, Category 1).
106. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Miami, FL, April 3-7, 2005 (32 Hours, Category 1).
107. 6th Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 9-12, 2005 (24 hours, Category 1).
108. 72nd Annual Meeting of the AAOS, Washington, DC, February 23-27 (24 Hours, Category 1).
109. AOSSM Specialty Day, Washington, DC, February 26, 2005 (7 Hours, Category 1).
110. Arthroscopic Surgery 2005: Metcalf Meeting, Tucson, AZ, January 20-23, 2005 (25 Hours, Category 1).
111. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, GA, January 15-16, 2005 (10 Hours, Category 1).
112. 5th Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 10-12, 2004.
113. 21st Annual Closed Meeting of the American Shoulder Elbow Surgeons, New York, NY, Sept 29th – Oct 2, 2004 (11 Hours, Category 1).
114. The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 16-18, 2004 (22 Hours, Category 1).
115. American Orthopaedic Society for Sports Medicine, Annual Meeting, Quebec City, June 24-27, 2004 (13.5 Hours, Category 1).
116. Instructional Course Lecture, Consumer Reports: Implants and Devices in Sports Medicine, AOSSM Annual Meeting, Quebec City, June 25, 2004 (1.5 Hours, Category 1).
117. Instructional Course Lecture, Cartilage Injury in the Athlete, AOSSM Annual Meeting, Quebec City, June 26, 2004.
118. Surgical Treatment Options for Knee Injuries and Disorders, AAOS, Rosemont, IL April 30-May 2, 2004 (21 Hours, Category 1).
119. 71st Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10-14, 2004 (24.5 Hours, Category 1).
120. American Orthopaedic Society for Sports Medicine Specialty Day, San Francisco, CA, March 13, 2004 (7.7 Hours, Category 1).
121. Arthroscopy Association of North America Specialty Day, San Francisco, CA, March 13, 2004 (7.7 Hours, Category 1).

122. Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15-18, 2004 (19.5 Hours, Category 1).
123. Metcalf Arthroscopy Meeting, Sun Valley, Idaho, January 31- February 3, 2004 (26 Hours, Category 1).
124. 18th Annual Vail Orthopaedic Symposium State-of-the-Art Total Hip and Knee Replacement: Controversies and Solutions, Vail, CO, January 28-January 30, 2004 (26 Hours, Category 1)
125. 85th Annual Alumni Meeting, The Hospital for Special Surgery, New York, New York, November 6-7, 2003 (14 Hours, Category 1).
126. Total Hip and Knee Forum. Rush University Medical Center, November 17, 2003 (17.5 Hours, Category 1).
127. Shoulder and Elbow: The Essentials. AAOS Orthopedic Learning Center, Chicago, IL, October 31-Nov 2, 2003 (24 Hours, Category 1).
128. The Shoulder II: Open and Arthroscopic Techniques, AAOS OLC, Chicago, IL, September 12-14, 2003 (22 Hours, Category 1).
129. Baltimore Limb Deformity Course. September 7-11, 2003 (8 Hours, Category 1).
130. 29th Annual American Orthopedic Society for Sports Medicine, San Diego, CA, July 20-23, 2003 (13.5 Hours, Category 1).
131. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20-22, 2003 (21 Hours, Category 1).
132. Surgical Treatment Options for Complex Knee Injuries and Disorders Course, May 2-4, 2003, OLC, Rosemont, IL (22 Hours, Category 1).
133. 22nd Annual Meeting Arthroscopy Association of North America, Phoenix, AZ, April 24-27, 2003 (14.5 Hours, Category 1)
134. Medical & Surgical Approaches to Articular Cartilage Disorders of the Knee, April 12, 2003 (8.5 Hours, Category 1).
135. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5-6, 2003 (10 Hours, Category 1).
136. 22nd Annual Cherry Blossom Seminar, Arlington, VA, March 28-30, 2003 (16.5 Hours, Category 1).
137. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 12-15, 2003 (13 Hours, Category 1).
138. American Orthopaedic Society for Sports Medicine Specialty Day, New Orleans, LA, February 9, 2003 (7.7 Hours, Category 1).
139. Arthroscopy Association of North America Specialty Day, New Orleans, LA, February 8, 2003 (7.75 Hours, Category 1).
140. American Academy of Orthopaedic Surgeons, 70th Annual Meeting, New Orleans, LA, February 6-10, 2003 (24.5 Hours, Category 1).
141. 7th Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 5-8, 2002 (31.25 Hours, Category 1).

142. 84th Annual Alumni Meeting, The Hospital for Special Surgery, New York, New York, November 7-8, 2002 (11 Hours, Category 1).
143. Arthroscopy and Arthroplasty: New Technology for 2002, 27th Annual New Jersey Orthopaedic Society Fall Symposium, East Brunswick, NY, October 26, 2002 (5.5 Hours, Category 1).
144. Advanced Arthroscopic and Open Shoulder Surgery, OLC, Chicago, IL, July 19-21, 2002 (22 Hours, Category 1).
145. 28th Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 30-July 3, 2002 (13.5 Hours, Category 1).
146. 19th Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002 (35 Hours, Category I).
147. 4th Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002 (21 Hours, Category 1).
148. The Shoulder: Current Practice in Open and Arthroscopic Techniques, AAOS Course, OLC, Chicago, IL, May 3-5, 2002 (22 Hours, Category 1).
149. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002 (22 Hours, Category 1).
150. Frontiers in Sports Medicine: The Athlete in 2002, La Jolla, CA, February 28-March 3, 2002 (21 Hours, Category 1).
151. 16th Annual Vail Orthopaedic Symposium State-of-the-Art Total Hip and Knee Replacement: Controversies and Solutions, Vail, CO, January 27-February 1, 2002 (26 Hours, Category 1).
152. American Academy of Orthopaedic Surgeons, 69th Annual Meeting, Dallas, TX, February 13-17, 2002 (24.5 Hours, Category 1).
153. Orthopedic Research Society, 48th Annual Meeting, Dallas, TX, February 10-13, 2002 (28 Hours, Category 1).
154. Cartilage Transplantation Meeting, 2nd Annual Fellowship Program, Carlsbad, CA, December 7-9, 2001.
155. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001 (8 Hours, Category 1).
156. Comprehensive Surgery for the Athletes Shoulder. AOSSM Surgical Skills Course. Orthopedic Learning Center, Chicago, IL, September 28-30, 2001 (21 Hours, Category 1).
157. Complex Knee Problems: Surgery for the Active Knee. Orthopedic Learning Center, Chicago, IL, July 27-29, 2001 (22 Hours, Category 1).
158. Mitek Sports Medicine Symposium, King Salmon Alaska, July 21, 2001.
159. The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey, American Academy of Orthopedic Surgeons, Rosemont, IL, July 13-15, 2001 (22 Hours, Category 1).
160. Mid-America Orthopaedic Association, 19th Annual Meeting, Amelia Island, Florida, April 18-22 (19 Hours, Category 1).
161. Total Hip and Knee Forum, Education Design, Chicago, Illinois, March 26-27, 2001.

162. Allografts in Orthopaedics, Illinois Association of Orthopaedic Surgeons, Carle Clinic, Urbana, Illinois, April 6, 2001 (3.25 Hours, Category 1).
163. American Academy of Orthopaedic Surgeons, 68th Annual Meeting, San Francisco, CA, February 28-March 4, 2001 (24.5 Hours, Category 1).
164. Orthopedic Research Society, 47th Annual Meeting, San Francisco, CA, February 24-28, 2001 (28 Hours, Category 1).
165. American Orthopaedic Society for Sports Medicine Specialty Day, San Francisco, California, March 3, 2001 (7.75 Hours, Category 1).
166. American Shoulder and Elbow Surgeons Specialty Day, San Francisco, California, March 3, 2001 (8.5 Hours, Category 1).
167. Mitek Global Advanced Arthroscopy Knee and Shoulder Sports Medicine Symposium. American Academy of Orthopedic Surgeons, Rosemont, IL, January 20-21, 2001.
168. Orthopedic Clinical Trials: Design, Implementation, and Regulation Issues, AAOS Course, Washington D.C., December 9-10, 2000 (12 Hours, Category 1).
169. Exploring Innovations in Orthopaedic Surgery, Loyola University School of Medicine, AAOS-IAOS 2000 Fall Scientific Meeting, November 3-4, 2000 (6.5 Hours, Category 1).
170. 82nd Annual Hospital for Special Surgery Alumni Meeting, New York, NY, November 2-3, 2000 (11 Hours, Category 1).
171. The Shoulder: Advances in Open and Arthroscopic Techniques, American Academy of Orthopedic Surgeons, Rosemont, IL, October 27-29, 2000 (22 Hours, Category 1).
172. Evaluation and Management of Common Shoulder Disorders, American Academy of Orthopedic Surgeons, Rosemont, IL, October 28, 2000 (8 Hours, Category 1).
173. The State of the Art in Cartilage Repair, Washington University, October 21, 2000 (4.5 Hours, Category 1).
174. AAOS/EEXOT Shoulder and Knee Arthroscopy Course, American Academy of Orthopedic Surgeons, Rosemont, IL, October 20, 2000 (10 Hours, Category 1).
175. Sports Medicine Symposium. Advanced Arthroscopy: Knee and Shoulder. Duke University, Durham, North Carolina, September 22-24, 2000.
176. Total Hip and Knee Forum, Chicago, Illinois, September 25-26, 2000 (15 Hours, Category 1).
177. Contemporary Shoulder Orthopaedics; A Hands-On Course in Shoulder Reconstruction and Arthroplasty. American Academy of Orthopaedic Surgeons Orthopaedic Learning Center, Rosemont, Illinois, September 8-10, 2000 (22 Hours, Category 1).
178. 26th Annual Meeting of the American Orthopaedic Society for Sports Medicine, Sun Valley, Idaho, June 18-21, 2000 (13.5 Hours, Category 1).
179. Evaluation and Management of Elbow Instability in Throwers, Annual Meeting of the American Orthopaedic Society for Sports Medicine, Sun Valley, Idaho, June 18-21, 2000 (1.5 Hours, Category 1).
180. Sports medicine research: How to do a Clinical Study, 26th Annual Meeting of the American Orthopaedic Society for Sports Medicine, Sun Valley, Idaho, June 18-21, 2000 (1.5 Hours, Category 1).

181. The Knee: A Millenium from robotics to Gene Therapy, The Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, May 4-6, 2000 (27 Hours, Category 1).
182. Advanced Techniques in Open and Arthroscopic Shoulder Surgery, Orthopaedic Learning Center, American Academy Orthopaedic Surgeons, Rosemont, Illinois, April 28-30, 2000 (22 Hours, Category 1).
183. Mid-America Orthopaedic Association Eighteenth Annual Meeting, Scottsdale, Arizona, April 26-30, 2000 (19 Hours, Category 1).
184. Allografts in Orthopaedics, Illinois Orthopaedic Society Spring Meeting, Urbana, Illinois, April 7, 2000 (3.4 Hours, Category 1).
185. American Academy of Orthopaedic Surgeons, 67th Annual Meeting, Orlando, Florida, March 15-19, 2000 (24.5 Hours, Category 1).
186. Arthroscopy Association of North America, Orlando, Florida, March 18, 2000 (7 Hours, Category 1).
187. American Orthopaedic Society for Sports Medicine, Specialty Day, Orlando, Florida, March 18, 2000 (7 Hours, Category 1).
188. American Shoulder and Elbow Surgeons, Specialty Day Program, 16th Open Meeting, Orlando, Florida, March 18, 2000 (8.5 Hours, Category 1).
189. Total Hip and Knee Forum, Chicago Learning Center, Rush-Presbyterian St.-Luke's Medical Center, Chicago, Illinois, February 28-29, 2000 (15 Hours, Category 1).
190. Open and Arthroscopic Shoulder Surgery: Approaches for the New Millennium, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, December 10-12, 1999 (21 Hours, Category 1).
191. Surgical Management for Common Disorders of the Shoulder, American Academy of Orthopaedic Surgeons,, Rosemont, Illinois, December 11, 1999 (9 Hours, Category 1).
192. Hospital for Special Surgery Alumni Association, Eighty-First Annual Meeting, New York, New York, November 4-5, 1999 (11 Hours, Category I).
193. Arthroscopy Association of North America, Advanced Shoulder Arthroscopy, American Academy of Orthopaedic Surgeons, Orthopedic Learning Center, Rosemont, Illinois, October 15-17, 1999 (18.5 Hours, Category 1).
194. Arthroscopy Association of North America, "The Masters Experience" Comprehensive Knee Arthroscopy Course, American Academy of Orthopaedic Surgeons, Orthopedic Learning Center, Rosemont, Illinois, October 9, 1999 (19.5 Hours, Category 1).
195. The basic science and clinical applications of electrothermal arthroscopy in sports medicine. Orthopedic Grand Rounds, New Britain General Hospital, Kansas City, Kansas, September 28, 1999 (1 Hour, Category 1).
196. Open and Arthroscopic Shoulder Surgery: Approaches for the New Millenium, July 9-11, American Academy of Orthopaedic Surgeons, Learning Center, Rosemont, Illinois, (21 Hours, Category 1).
197. American Orthopaedic Society for Sports Medicine 25th Annual Meeting, Traverse City, Michigan, June 19-22, 1999 (13.5 Hours, Category 1).
198. Allografts in Sports Medicine, American Orthopaedic Society for Sports Medicine 25th Annual Meeting, Traverse City, Michigan, June 19-22, 1999 (1.5 Hours, Category 1).

199. International Society of Arthroscopy, Knee Surgery and Orthopedic Sports Medicine, Washington, DC, May 29-June 2, 1999 (37.5 Hours, Category 1).
200. Total Hip and Knee Forum, Rush-Presbyterian St.-Luke's Medical Center, April 26-27, 1999 (15 Hours, Category 1).
201. Articular Cartilage Repair: Fact, Fiction or Folly, Illinois Orthopaedic Society, Chicago, Illinois, April 23, 1999 (1 Hour, Category 1).
202. American Academy Orthopaedic Surgeons 66th Annual Meeting, Anaheim, California, February 4-8, 1999 (26.5 Hours, Category 1).
203. American Orthopaedic Society for Sports Medicine Specialty Day, Anaheim, California, February 7, 1999 (7.75 Hours, Category 1).
204. American Shoulder and Elbow Surgeons Specialty Day, Anaheim, California, February 7, 1999 (8.5 Hours, Category 1).
205. Arthroscopy Association of North America Specialty Day, Anaheim, California, February 7, 1999 (7.25 Hours, Category 1).
206. The International Cartilage Repair Society, Second Annual Meeting, Boston, Massachusetts, November 15-18, 1998.
207. Current techniques in open and arthroscopic shoulder surgery, American Academy of Orthopaedic Surgeons, Learning Center, Rosemont, Illinois, November 13-15, 1998 (21 Hours, Category 1).
208. The Summer Institute, Techniques in Shoulder Surgery, American Academy of Orthopaedic Surgeons, Learning Center, Rosemont, Illinois, September 9-13, 1998 (19 Hours, Category 1).
209. The Summer Institute, Top 10 Orthopaedic Procedures, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 13, 1998 (16 Hours, Category 1).
210. The Chicago Orthopaedic Board Review, Chicago, Illinois, July 13-July 15, 1998 (26.5 Hours, Category 1).
211. The Chicago Orthopaedic Board Review, Chicago, Illinois, July 13-14, 1998 (1.59 Hours, Medical Teaching).
212. New Frontiers in Chondral & Meniscal Surgery, Arthroscopy Association of North America, Orlando, Florida, April 30-May 3, 1998 (1.50 Hours, Category 1).
213. Arthroscopy Association of North America, Orlando, Florida, April 30-May 3, 1998 (24 Hours, Category 1).
214. American Academy of Orthopaedic Surgeons, Comprehensive Shoulder and Elbow Course and ASES First Open Shoulder and Elbow Meeting, Kiawah Island, South Carolina, April 23-26, 1998 (24 Hours, Category 1).
215. Open and Arthroscopic Shoulder Surgery: Advanced Anterior and Posterior Techniques, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, May 15-17, 1998 (21 Hours, Category 1).
216. American Academy Orthopaedic Surgeons 65th Annual Meeting, New Orleans, Louisiana, March 19-23, 1998 (26.5 Hours, Category 1).
217. American Orthopaedic Society for Sports Medicine Specialty Day, New Orleans, Louisiana, March 22, 1998 (6.75 Hours, Category 1).

218. American Shoulder and Elbow Surgeons Specialty Day, New Orleans, Louisiana, March 22, 1998 (8.5 Hours, Category 1).
219. "The Master's Experience", Comprehensive Knee Course, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, January 16-18, 1998 (22 Hours, Category 1).
220. Open and Arthroscopic Shoulder Surgery, Current Concepts and Techniques, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, December 5-7, 1997 (22 Hours, Category 1).
221. Tenth Annual Congress of the European Society for Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15-17, 1997.
222. Open and Arthroscopic Shoulder Surgery, Current Concepts and Techniques, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, July 11-13, 1997 (22 Hours, Category 1).
223. American Orthopaedic Society for Sports Medicine Annual Meeting, Sun Valley, Idaho, June 22-25, 1997 (13.5 Hours, Category 1).
224. American Academy Orthopaedic Surgeons 64th Annual Meeting, San Francisco, California, February 13-17, 1997 (29.5 Hours, Category 1).
225. The University of Texas Southwestern Medical Center Orthopaedic Review Course, Dallas, Texas, May 10-12, 1996 (25 Hours, Category 1).
226. Osteoporosis Current and Future Approaches to Diagnosis and Management, New York, New York, May 7, 1996.
227. Fourth Annual Symposium, Current Concepts in Knee Reconstructive Surgery, New York, New York, May 2-3, 1996 (17 Hours, Category 1).
228. American Orthopaedic Society for Sports Medicine Specialty Day, Atlanta, Georgia, February 25, 1996 (7 Hours, Category 1).
229. American Shoulder and Elbow Surgeons Specialty Day, Atlanta, Georgia, February 25, 1996 (8 Hours, Category 1).
230. American Academy Orthopaedic Surgeons 63rd Annual Meeting, Atlanta, Georgia, February 22-26, 1996 (28.5 Hours, Category 1).
231. Treatment of the Foot and Ankle, Review Course, New York, October 28-29, 1995 (12 Hours, Category 1).
232. American Society for Surgery of the Hand, 1995 Regional Review Course in Hand Surgery, New York, September 30-October 1, 1995 (12 Hours, Category 1).
233. New Orleans Residents Basic Course, American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, September 8, 1995 (36 Hours, Category 1).
234. AO/ASIF Residents Basic Course, Operative Treatment of Fractures and Nonunions, New Orleans, Louisiana, August 9-13, 1995 (36 Hours, Category 1).
235. First Annual Sports Medicine Symposium, Cornell University Medical College, New York, May 17-19, 1995 (16 Hours, Category 1).
236. The Shoulder: A Comprehensive View, American Academy of Orthopaedic Surgeons, Washington, D.C., April 28-30, 1995 (24 Hours, Category 1).

ADDITIONAL TRAINING CERTIFICATION

1. Allograft meniscus transplantation, Cryolife, Inc., Kennesaw, Georgia, July 10, 1997.
2. Autologous cartilage cell transplantation, Genzyme, Cambridge, Massachusetts, December, 1997.
3. Osteoarticular autograft reconstruction, Arthrex, Inc., Pittsburgh, Pennsylvania, February, 1997.
4. Advanced techniques for autologous cartilage cell transplantation, Genzyme, Cambridge, Massachusetts, March, 1999.