

<b>CURRICULUM VITAE</b>
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**BRIAN J. COLE, MD, MBA**

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APPOINTMENTS:	January 2012-Present July 2006-Present  July 2005-Present July 2002-July 2006  July 1997-2005  July 1997-July 2002	Chairman, Department of Surgery, Rush Oak Park Hospital Professor, Department of Orthopedic Surgery Professor, Department of Anatomy & Cell Biology Rush Medical College Section Head, Cartilage Restoration Center Associate Professor, Department of Orthopedic Surgery Associate Professor, Department of Anatomy and Cell Biology Rush Medical College Director, Cartilage Restoration Center Division of Sports Medicine Section of Shoulder Surgery 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:	ABOS Maintenance of Certification 2012 ABOS Sports Sub-Specialty Certification 1/2012 ABOS Re-Certification 1/2011 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 Doctors In America	2014
Cover Story, Crain's Chicago Magazine, Profile of a Team Physician	2013
Top US Shoulder Surgeon, Orthopedics This Week	2013
Top Poster Award: Randomized Trial of RCR with and without SAD, AOSSM	2013
Top 10 Surgeon in World affecting Impact Factor in Orthopedic Research	2013
Best Paper, 16 <sup>th</sup> Annual OREF/ORS 2013 Central Indiana Research Symposium	2013
Top 19 US Sports Medicine Specialists, Orthopedics This Week	2013
Top Surgery Center Industry Leader, Becker's Orthopedics	2013
Top Sports Medicine Physician in US with Research Award, Becker's Orthopedics	2012
Best Paper, Rush Research Forum, June 16, 2012.	2012
Top US Shoulder Surgeon, Orthopedics This Week	2012
Chicago Super Doctor's List	2012
Best Poster in Sports Medicine, ACL Cost Effectiveness, AAOS 2012 Annual Meeting	2012
Honorary Program Chair, Rush Associates Board	2012
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 <sup>th</sup> 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 <sup>th</sup> Annual Thesis Day, Rush University	2004
Anchor Cross Society, Rush University Medical Center	2004
Best Doctor in America	2004
Best Research Project, 15 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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**

AOSSM Surgical Skills Chairman	2013
AAOS/ORS Annual Meeting Research Programming Committee	2013
AANA Travelling Fellowship BOD Liaison	2012
ASES Continuing Education Committee	2012
Chairman, Financial Committee, International Cartilage Repair Society	2012
ASES Value Driven Shoulder Care Committee	2012
ASES Website/Social Media Committee	2012
ASES Open Program Committee	2013
AOSSM Liaison for OA Action Alliance Injury Prevention Workgroup	2011
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**

Mission Surgeon, Cure International, Kijabe Kenya	2013
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, Open Access Journal for Orthopedic Sports Medicine	2013
Senior Editor, Operative Techniques in Sports Medicine	2012
Editorial Board, Operative Techniques in Sports Medicine	2009
Editor, Case Reports in Medicine	2009
Principal 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-Doody Publishing	1996

## **TEAM PHYSICIAN/CONSULTANT RESPONSIBILITIES**

Chicago Lions Sevens Rugby Team	2012-Present
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**

Cure International, Medical Mission, Kenya, Africa	2013
Co-Host, Sports Medicine Weekly, ESPN WMVP Radio	2011-Present

## **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

AANA Research Award <i>Function of the long head of the biceps muscle in kinematics of the glenohumeral joint during the overhand throw: evaluation of tenodesis for SLAP tears (\$5,000)</i>	2013
AANA Career Development Award <i>Validation of Outcomes Measures for Meniscal Allograft Transplantation (\$15,000)</i>	2012
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 platelet 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 Radiofrequency Energy</i>	1999

(RFA-AR-99-004) (\$324,000)

Orthopaedic Research Education Foundation Grant # 93-026, *The Application of rhBMP-2 to HA-coated porous titanium Implants* (\$15,000) 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



## **MASTER'S DEGREE MENTORSHIPS**

Andrew Lee, BS: Glenoid resurfacing with the AMIC technique, MS/MD Program, Rush University Medical Center, 2012.

Vasili Karas, BS: Glenoid resurfacing with the AMIC technique, MS/MD Program, Rush University 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. Sayegh ET, Mascarenhas R, Chalmers PN, **Cole BJ**, Verma NN, Romeo AA: Allograft reconstruction for glenoid bone loss in glenohumeral instability: A systematic review. Submitted, Arthroscopy, 2014.
2. Abrams GD, Gupta AK, Hussey KE, Tetteh ES, Karas V, Bach BR, **Cole BJ**, Romeo AA, Verma NN: Arthroscopic repair of full thickness rotator cuff tears with and without acromioplasty: Randomized prospective trial with two year follow-up. Am J Sports Med, April, 2014. <http://ajs.sagepub.com/content/early/2014/04/14/0363546514529091>.
3. Farr J, Tabet SK, Margerrison E, **Cole BJ**: Clinical, radiographic, and histologic outcomes after cartilage repair with particulated juvenile articular cartilage. A 2-year prospective study. Am J Sports Medicine, April, 2014. <http://ajs.sagepub.com/content/early/2014/04/08/0363546514528671>.
4. Abrams GD, Hussey KE, Hrris JD, **Cole BJ**: Clinical results of combined meniscus and femoral osteochondral allograft transplantation: Minimum 2 year follow-up. J Arthroscopy, May, 2014.
5. Elattrache N, Latterman C, Hannon M, **Cole BJ**: New England Journal of Medicine Article Evaluating the Usefulness of Meniscectomy is Flawed. Arthroscopy, May, 2014.
6. Wolfstadt JI, **Cole BJ**, Ogilvie-Harris DJ, Viswanathan S, Chahal J: Current Concepts: The Role of Mesenchymal Stem Cells in the Management of Knee Osteoarthritis. Sports Health: A Multidisciplinary Approach, April, 2014.
7. McCormick FM, Harris HD, Abrams GD, Hussey K, Wilson H, Frank RM, Gupta AK, Bach BR, **Cole BJ**. Survival and Reoperation Rates After Meniscal Allograft Transplantation: Analysis of Failures for 172 Consecutive Transplants at a Minimum 2-Year Follow Up. Am J Sports Med, February, 2014.
8. Campbell J, Filardo G, Bruce B, Hussey K, Bajaj S, Hakimiyani A, Friel N, Grumet R, Shafikhani S, Wood S, Chubinskaya S, **Cole BJ**. Salvage of contaminated osteochondral allografts: The effects of chlorhexidine on human articular chondrocyte viability. Am J Sports Med, February, 2014.
9. Strauss EJ, Salata MJ, Sershon RA, Garbis N, Provencher MT, Wang VM, McGill KC, Bush-Joseph CA, Nicholson GP, **Cole BJ**, Romeo AA, Verma NN: Role of the superior labrum after biceps tenodesis in glenohumeral stability. J Shoulder Elbow Surg, April, 2014.
10. Strauss EJ, Verma NN, Salata MJ, McGill KC, Klifto C, Nicholson GP, **Cole BJ**, Romeo AA: The high failure rate of biologic resurfacing of the glenoid in young patients with glenohumeral arthritis. J Shoulder Elbow Surg, 23:409-419, 2014.
11. Frank JM, Chahal J, Frank RM, **Cole BJ**, Verma NN, Romeo AA: The Role of Acromioplasty for Rotator Cuff Problems. Orthop Clin N Am, April, 2014.
12. Latterman C, Gomoll AH, **Cole BJ**: Letter to the Editor: Arthroscopic Partial Meniscectomy for Degenerative Meniscal Tear. New England Journal of Medicine, March, 2014.
13. Gomoll A, Minas T, Farr J, **Cole BJ**: Autologous chondrocyte implantation of the patella-a multi-center experience. Am J Sports Med, March, 2014.
14. Frank RM, Mall N, Gupta D, Shewman E, Wang VW, Romeo AA, **Cole BJ**, Bach BR, Provencher MT, Verma NN: Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide. Am J Sports Med, February, 2014.
15. Chalmers PN, Mall NA, Oric M, Sherman SL, Paletta GP, **Cole BJ** Bach BR: Does anterior cruciate ligament reconstruction alter natural history? A systematic review of long term outcomes. J Bone Joint Surg Am, February, 2014.

16. Mall NA, Chalmers PN, Hiho MM, **Cole BJ**, Bach BR, Paletta GA: Incidence and trends of ACL reconstruction in the United States. In Preparation, 2014.
17. Chalmers PN, Cip J, Trombley R, **Cole BJ**, Wimmer MA, Romeo AA, Verma NN: Glenohumeral function of the long head of the biceps muscle: An EMG analysis. In Preparation, 2014.
18. Yanke AB, Konopka M, Butty D, Espinoza A, **Cole BJ**: Effect of vertical or beveled chondral defect creation on rim deformation. Submitted, Arthroscopy, 2014.
19. Mascarenhas R, Chalmers PN, Sayegh ET, Bhandari M, Verma NN, **Cole BJ**, Romeo AA: Is double row- rotator cuff repair clinically superior to single-row rotator cuff repair: A systematic review of overlapping meta-analyses. Submitted, Am J Sports Med, 2014.
20. Chalmers PN, Cip J, Trombley R, Klosterman E, Wimmer M, **Cole BJ**, Verma NN, Romeo AA: Restoration of neuromuscular control during the pitch after operative treatment of SLAP tears. In submission, 2014.
21. Chalmers PN, Cip J, Trombley R, Klosterman E, Wimmer M, **Cole BJ**, Verma NN, Romeo AA: Upper Extremity Motion Analysis in the Overhand Pitch: Evaluation for Tenodesis and Repair for SLAP Tears. In submission, 2014.
22. Cross JA, **Cole BJ**, Spatny KP, Romeo AA, Nicholson GP, Wagner B, Fortier LA: Leukocyte-reduced PRP normalizes matrix metabolism in torn rotator cuff tendons. Clin Ortho Rel Res, 2014.
23. McCormick F, Bach B, **Cole BJ**: Trends in the surgical treatment of articular cartilage defects in the United States: An analysis of a large private payer database over 8 years. Arthroscopy, 30(2):222-6, 2014.
24. Sundman EA, **Cole BJ**, Karas V, Della Valle C, Tetreault MW, Mohammed HO, Fortier LA: The anti-inflammatory and matrix restorative mechanisms of platelet-rich plasma in osteoarthritis. Am J Sports Med, 42(1):35-41, 2014.
25. Cross JA, Spatny KP, **Cole BJ**, Wagner B, Fortier LA: Leukocyte-reduced PRP normalizes matrix metabolism in surgically excised rotator cuff tendon. Accepted, CORR, 2014.
26. Erickson BJ, Harris JD, Heninger JR, Frank R, Bush-Joseph CA, Verma NN, **Cole BJ**, Bach BR: Performance and return-to-sport after anterior cruciate ligament reconstruction in NFL quarterbacks. Accepted, Orthopedics, 2014.
27. Moran CJ, Pascual-Garrido C, Chubinskaya S, Potter HG, Warren RF, **Cole BJ**, Rodeo SA: Restoration of Articular Cartilage. J Bone Joint Surg, February, 2014.
28. Harris JD, Abrams GD, Bach BR, Williams D, Heidloff D, Bush-Joseph CA, Verma NN, Forsythe B, **Cole BJ**: Guidelines to determine return to sport following anterior cruciate ligament reconstruction- A systematic review of Level 1 evidence randomized controlled trials. Orthopedics, February, 2014.
29. Abrams GD, Frank RM, Gupta AK, Harris JD, McCormick FM, **Cole BJ**: Trends in meniscus repair and meniscectomy in the United States, 2005-2011. Am J Sports Med, 14(10), 2333-2339, 2014.
30. Frank RM, Erickson B, Frank JM, Bush-Joseph CA, Bach BR Jr, Cole BJ, Romeo AA, Provencher MT, Verma NN. Utility of modern arthroscopic simulator training models. Arthroscopy. 2014 Jan;42(1)35-41.
31. Dhawan A, Mather RC, Karas V, Ellman MN, Young BB, Bach BR, **Cole BJ**: An epidemiologic analysis of clinical practice guidelines for non-arthroplasty treatment of osteoarthritis of the knee. Arthroscopy. 2014 Jan;30(1):65-71.
32. Farr J, **Cole BJ**, Hosea T, Richmond J, Mandelbaum B, Winalski CS: Cartilage Autograft Implantation System (CAIS) for the Treatment of Knee Articular Cartilage Lesions: Safety and Performance Outcomes at 4 Years. Submitted, Am J Sports Med, 2014.

33. Abrams GD, Harris JD, Gupta AK, McCormick FM, Bush-Joseph CA, Verma NN, **Cole BJ**, Bach BR: Functional performance testing after anterior cruciate ligament reconstruction: A systematic review. *Ortho J Sports Medicine*, 2014, <http://ojs.sagepub.com/content/2/1/2325967113518305>.
34. Erickson BJ, Gupta AK, Harris JD, Bush-Joseph C, Bach BR, Abrams GD, San Juan AM, **Cole BJ**, Romeo AA: Rate of return to pitching and performance after tommy john surgery in major league baseball pitchers. *Am J Sports Med*. 2013 Dec 18. [Epub ahead of print].
35. Farr J, Verma N, **Cole BJ**. Validation study of an electronic method of condensed outcomes tools reporting in orthopaedics. *J Knee Surg*. 2013 Dec;26(6):445-51.
36. Mall NA, Foley E, Chalmers PN, **Cole BJ**, Romeo AA: Degenerative joint disease of the acromioclavicular joint: a review. *Am J Sports Med*. 2013 Nov;41(11):2684-92.
37. Karas V, Hussey K, Romeo AR, Verma N, **Cole BJ**, Mather RC 3rd. Comparison of subjective and objective outcomes after rotator cuff repair. *Arthroscopy*. 2013 Nov;29(11):1755-61.
38. Frank RM, **Cole BJ**. Complex cartilage cases in the athletic patient: advances in malalignment, instability, articular defects, and meniscal insufficiency. *Phys Sportsmed*. 2013 Nov;41(4):41-52.
39. Harris JD, Erickson BJ, Bach BR, Abrams GD, Cvetanovich GL, Forsythe B, McCormick FM, Gupta AK, **Cole BJ**. Return to sport and performance after ACL reconstruction in NBA players. *Sports Health*. 2013 Nov;5(6):562-8. <http://sph.sagepub.com/content/early/2013/07/03/1941738113495788>.
40. Nicholson GP, Rahman Z, Verma N, **Cole BJ**, Romeo AA, Gupta A, Bruce B: Results of Latarjet coracoid transfer to revise failed arthroscopic instability repairs. Submitted, *J Shoulder Elbow, Surg*, 2014.
41. Mattava, MARS group et al: Multi-rater agreement of the etiology of ACL reconstruction failure. A radiographic and video analysis of the MARS cohort.
42. Harris JD, Walton DM, Erickson BJ, Verma NN, Abrams GD, Bush-Joseph CA, Bach BR, **Cole BJ**: Return to sport and performance after microfracture in the knees of national basketball association players. *Ortho J Sports Med*, <http://ojs.sagepub.com/content/1/6/2325967113512759>, 2013.
43. Sershon RA, Van Thiel GS, Lin EC, McGill KC, **Cole BJ**, Verma NN, Romeo AA: Clinical outcomes of reverse total shoulder arthroplasty in patients aged younger than 60 years. *J Shoulder Elbow Surg*, 1-6, 2013.
44. Frank RM, Romeo AA, Verma NN, Provencher M, **Cole BJ**: Comparisons of glenohumeral contact pressures and contact areas after posterior glenoid reconstruction with iliac crest or distal tibia osteochondral allograft. Submitted *Am J Sports Med*, 2013.
45. Ellman MB, Sherman SL, Forsythe B, LaPrade RF, **Cole BJ**, Bach BR: Return to play following anterior cruciate ligament reconstruction. *J of Am Academy of Ortho Surgeons*, 2013.
46. MARS Group, **Cole BJ**: Revision anterior cruciate ligament reconstruction graft choice impact on outcome in the MARS cohort. Submitted, *Am J Sports Med*, 2013.
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## **MAJOR TEXTBOOK ANDS JOURNAL SENIOR EDITOR**

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## **ABSTRACTS**

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

1. **Cole BJ**, McNickle AG, L'Heureux DR, Kirk SS, Yanke A: Autologous Chondrocyte Implantation: Functional and Symptomatic Outcomes Beyond Two Years. 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008, Abstract Book Page 20.
2. 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). 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008, Abstract Book Page 22.
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## **RESEARCH EXHIBITS/SCIENTIFIC PRESENTATIONS**

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2. Nicholson GP, Rahman Z, Verma NN, Romeo AA, **Cole BJ**, Gupta AK, Bruce B. Results of Latarjet Coracoid Transfer to Revise Failed Arthroscopic Instability Repairs. AOSSM Specialty Day, AAOS Specialty Day, New Orleans, LA, March 15, 2014.
3. Gupta AK, Erickson BJ, Harris JD, Bach BR, Abrams GD, San Juan A, **Cole BJ**, Bush-Joseph CA, Romeo AA. Performance and Return-to-Sport After Tommy John Surgery in Major League Baseball Pitchers. AOSSM Specialty Day, AAOS Specialty Day, New Orleans, LA, March 15, 2014.
4. Frank RM, Bhatia S, Chalmers PN, Gupta A, Romeo AA, Verma NN, **Cole BJ**, Provencher MT: Advances in the Comprehensive Management of Bone Defects in Recurrent Shoulder Instability. AAOS Annual Meeting, New Orleans, LA, March 12-14, 2014.
5. McCormick F, Gupta A, Bruce BG, Harris J, Abrams GD, Hussey K, Wilson H, **Cole BJ**: Single Row, Double Row, and Transosseous Equivalent Rotator Cuff Repair Techniques, A Comparative Analysis. AAOS Annual Meeting, New Orleans, LA, March 12, 2014.
6. Erickson B, Harris J, Cvetanovich GL, Abrams GD, Bach Jr BR, Verma NN, Bush-Joseph CA, **Cole BJ**: Anterior Cruciate Ligament Reconstruction in Elite Professional Athletes. AAOS Annual Meeting, New Orleans, LA, March 12-14, 2014.
7. Sherman S, Erickson B, Cvetanovich GL, Chalmers PN, Farr III J, Bach Jr BR, **Cole BJ**: Tibial Tubercle Osteotomy: Indications, Techniques, and Outcomes. AAOS Annual Meeting, New Orleans, LA, March 12-14, 2014.
8. Harris JD, Erickson BJ, Abrams GD, Cvetanovich GL, McCormick FM, Gupta AK, Bach BR, **Cole BJ**: Methodological Quality of Knee Articular Cartilage Studies. ICRS Annual Meeting, Izmir, Turkey, September 18, 2013.
9. Yanke A, Lee A, Karas V, Riccio M, Abrams G, Forsythe B, Nho S, Verma N, Bush-Joseph C, Bach B, **Cole BJ**: Surgeon Reliability in Calcified Cartilage Layer Removal: Open Versus Arthroscopic Technique. ICRS Annual Meeting, Izmir, Turkey, September 17, 2013.
10. Almqvist KF, **Cole BJ**, Bellemans J, Arbel R, Basad E, Anders S, Trattng S, Korner A: The Treatment of Cartilage Defects of the Knee with Microfracture Augmented with a Biodegradable Scaffold: Outcomes at 12 months. ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.
11. McCormick FM, Harris JD, Frank RM, Hussey K, Wilson H, Gupta AK, Abrams GD, Bach BR, **Cole BJ**: Meniscal Allograft Transplantation Reoperation Rates, Operative Findings, and Survival Curve. ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.
12. McCormick FM, Harris JD, Frank RM, Hussey K, Wilson H, Gupta AK, Abrams GD, Bach BR, **Cole BJ**: Trends in the Surgical Treatment of Articular Cartilage Lesions: An Analysis of a Large Private Payer Database over 8 Years. ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.
13. Harris JD, Wilson H, Espinoza-Orias A, Stanley R, Rames R, **Cole BJ**: Vertical versus Beveled Walls in Full-Thickness Articular Cartilage Defects—Should We Be Creating Vertical Walls? ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.
14. Gomoll AH, **Cole BJ**, Farr J, Gillogly SD, Arnold RM, Hussey K, Minas T: ACI in the Patella—A Multi-Center Experience. ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.

15. Harris JD, Erickson BJ, Abrams GD, **Cole BJ**: Development of a Valid and Reliable Knee Articular Cartilage Study Methodological Quality Questionnaire. (Poster Presentation). ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013.
16. Harris JD, Hussey K, Wilson H, Gomoll AH, **Cole BJ**: Combined Osteotomy, Meniscal Transplant, and Articular Cartilage Surgery in Young Patients with Unicompartmental Arthritis. (Poster Presentation). ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013.
17. Harris JD, Hussey K, Wilson H, Abrams GD, **Cole BJ**: Surgical Treatment of Isolated Lateral Compartment Chondral Defects. (Poster Presentation). ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013.
18. Abrams G, Hussey K, Harris JD, **Cole BJ**: Combined Meniscus and Osteochondral Allograft Transplantation: Minimum Two-Year Follow-Up with an Analysis of Failures. (Poster Presentation). ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013.
19. Chubinskaya S, Wepking K, Hakimiyan AA, Margulis A, Rappoport L, **Cole BJ**: In Vitro Evaluation of Minced Adult and Juvenile Articular Cartilage: A Time Course Analysis. (Poster Presentation). ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013.
20. Tetteh E, Hussey KE, Abrams GD, Gupta AK, Dhawan A, Karas V, **Cole BJ**, Romeo AA, Verma NN: A prospective randomized trial of functional outcomes following rotator cuff repair with and without acromioplasty: Minimum 2-year follow-up. AOSSM Annual Meeting, Chicago, IL, July 11-14, 2013.
21. Gupta AK, Forsythe B, Le AS, Harris JD, McCormick F, Abrams GD, Verma NN, Inoue N, **Cole BJ**: Topographical Analysis of the Glenoid and Proximal Medial Tibial Articular Surfaces: A Search for the Ideal Match for Glenoid Resurfacing. AOSSM Annual Meeting, Chicago, IL, July 11-14, 2013.
22. McCormick F, Gupta A, Bruce B, Harris J, Abrams G, Wilson H, Hussey K, **Cole BJ**: Single-row, double-row, and transosseous equivalent techniques are effective and equivalent for isolated supraspinatus tendon tears with minimal atrophy: A case-control comparison of prospective outcomes at minimum two-year follow-up. 25th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 21, 2013.
23. Harris JD, Gupta K, Mall NA, Abrams GD, Bruce B, McCormick F, **Cole BJ**, Romeo AA, Verma NN: Long-term outcomes after Bankart shoulder stabilization. 25th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 21, 2013 (Rush University Medical Center Research Award)
24. Bruce B, Hussey K, Gupta A, Thomas J, Wang V, Shewman E, Verma N, Romeo A, **Cole BJ**: Biomechanical properties and suture placement relative to the musculo-tendinous junction for arthroscopic rotator cuff repair utilizing transosseous equivalent technique. 25th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 21, 2013.
25. Abrams GD, Hussey KE, Harris JD, Gupta AK, McCormick FM, **Cole BJ**: Combined meniscus and osteochondral allograft transplantation: Clinical results with two year follow-up. 25th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 21, 2013.
26. Ellman MB, Im H, Li X, Chen D, Yan D, Kim J, Stein GS, **Cole BJ**, Ranjan KC, Cs-Szabo G, van Wijnen AJ: Biological effects of the plant-derived polyphenol resveratrol in human articular cartilage. 25th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 21, 2013.
27. Cip J, Chalmers PN, Trombley B, Klostermann E, Wimmer MA, **Cole BJ**, Verma NN, Romeo AA: Die postoperative Wiederherstellung der neuromuskulären Kontrolle während des Überkopfwurfes: Evaluation von Tenodesen und SLAP-Repair bei SLAP Läsionen Akzeptiert als Präsentation für den Kongress der Österreichischen Gesellschaft für Orthopädie und orthopädische Chirurgie (ÖGO); 12 – 14. September 2013, Krems, Österreich.
28. Cip J, Chalmers PN, Trombley B, Klostermann E, Wimmer MA, **Cole BJ**, Verma NN, Romeo AA:



Athleten-bezogene Outcome Scores für Überkopfwurfsportler: Evaluation von Tenodese und SLAP-Repair bei SLAP-Läsionen. Akzeptiert als Poster für den Kongress der Österreichischen Gesellschaft für Orthopädie und orthopädische Chirurgie (ÖGO); 12 – 14. September 2013, Krems, Österreich.

29. Cip J, Chalmers PN, Trombley B, Klostermann E, Wimmer MA, **Cole BJ**, Verma NN, Romeo AA: Bewegung im Schultergelenk während dem Überkopfwurf: Evaluation von Tenodese und SLAP-Repair bei SLAP-Läsionen. Akzeptiert für den Kongress der Österreichischen Gesellschaft für Orthopädie und orthopädische Chirurgie (ÖGO); 12 – 14. September 2013, Krems, Österreich
30. Frank R, **Cole BJ**, Gupta D, Mall N, Lee A, Shewman E, Wang V, Romeo A, Verma N: Inferior suture anchor placement during arthroscopic bankart repair: Influence of portal placement and curved drill guide. 16<sup>th</sup> Annual OREF/ORS Resident Research Symposium, Indianapolis, Indiana, April 5, 2013 (Best Paper Award).
31. Frank R, **Cole BJ**, Gupta D, Mall N, Lee A, Shewman E, Wang V, Romeo A, Verma N: Inferior suture anchor placement during arthroscopic bankart repair: Influence of portal placement and curved drill guide. AAOS Annual Meeting, AANA Specialty Day, Chicago, IL, March 23, 2013.
32. Yanke A, Verma N, Romeo AA, **Cole BJ**: Video Session: Biceps tenodesis: Open subpectoral and arthroscopic technique. AAOS Annual Meeting, Chicago, IL, March 22, 2013.
33. **Cole BJ**, Sherman S, Karas V, Chalmers PN: Return to high level sports following meniscal allograft transplantation, AAOS Annual Meeting, Chicago, IL, March 21, 2013.
34. Chalmers PN, Mall NA, Oric M, Sherman SL, Paletta GP, **Cole BJ** Bach BR: Does anterior cruciate ligament reconstruction alter natural history? A systematic review of long term outcomes. AAOS Annual Meeting, Chicago, IL, March 21, 2013.
35. Wang V, Yin Z, Lee A, Van Thiel G, Karas V, Hussey K, Shewman E, Magin R, **Cole BJ**: Analysis of cartilage regeneration in a rabbit glenohumeral joint model following microfracture and autologous matrix induced chondrogenesis using high-field (11.7T) MRI. Podium presentation, spotlight session, “MRI of Cartilage” ORS, San Antonio, TX, January 26, 2013.
36. Lee AS, Karas V, Riccio ML, Yanke AB, Forsythe B, Nho SJ, Verma NN, Bush-Joseph CA, Bach BR, **Cole BJ**: Surgeon reliability in calcified cartilage layer removal: Open vs. Arthroscopic technique. American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012.
37. Romeo AA, **Cole BJ**, Harwood D, Gregory JM, Sherman SL, Lin EC, Verma NN, Mather RC, Dishkin J: Biomechanical analysis of pectoralis major and comparison of techniques for tendo-osseous repair. American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012.
38. Bhatia S, Bell R, Frank RM, Rodeo SA, Bach BR, **Cole BJ**, Chubinskaya S, Wang V, Verma NN: Bony incorporation of soft tissue ACL grafts in an animal model: Autograft vs. Allograft with low dose gamma irradiation. American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012.
39. Bhatia S, Korth K, Van Thiel GS, Gupta D, Lin EC, **Cole BJ**, Verma NN, Bach BR: Anatomic Transtibial ACL reconstruction: Effect of tunnel placement, size and reamer characteristics. American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012.
40. Bhatia S, Van Thiel GS, Gupta D, Lin E, Ghodadra N, Bach BR, Shewman E, Wang VM, **Cole BJ**, Romeo AA: Comparison of glenohumeral contact pressures and contact area after glenoid reconstruction with Latarjet or Distal Tibia Allograft. 38<sup>th</sup> Annual Meeting of the Herodicus Society, White Sulphur Springs, WV, July 9, 2012.
41. Van Thiel G, Karas V, Lee A, Chubinskaya S, Wang VW, Magin RL, Ziving Y, Romeo A, **Cole B**: Biologic resurfacing of the glenoid with microfracture and a collagen membrane in the rabbit. 38<sup>th</sup> Annual Meeting of the Herodicus Society, White Sulphur Springs, WV, July 9, 2012

42. Dhawan A, Mather RC, Karas V, Ellman MR, Young B, Bach BR, **Cole BJ**: An epidemiological analysis of clinical practice guidelines for non-arthroplasty treatment of osteoarthritis of the knee. 125<sup>th</sup> AOA Annual Meeting, Washington DC, June 27-30, 2012.
43. Farr J, **Cole BJ**, Tabet SK, Gold G, Vasanawala S, Reischling P: MRI results of particulated juvenile cartilage allograft for repair of chondral lesions in the knee. International Cartilage Repair Society Annual Meeting, Montreal, CA, May 15, 2012.
44. Gitelis S, Olewinski R, Kirk S, Hakimiyan AA, Rappoport L, Pacione C **Cole BJ**, Wimmer MA, Chubinskaya S: The role of surgical insertion and pro-inflammatory cytokines in graft survival and metabolism. International Cartilage Repair Society Annual Meeting, Montreal, CA, May 14, 2012.
45. **Cole BJ**, Farr J, Bonner K, Gold G, Adkisson HD, Reischling P: A Phase I/II study of tissue engineered cartilage implant derived from allogenic juvenile chondrocytes: 3 year results. International Cartilage Repair Society Annual Meeting, Montreal, CA, May 14, 2012.
46. Sundman E, **Cole BJ**, Karas V, DellaValle C, Fortier LA: The anti-inflammatory and matrix restorative mechanisms of platelet rich plasma in osteoarthritis. International Cartilage Repair Society Annual Meeting, Montreal, CA, May 14, 2012.
47. Karas V, Tetteh ES, Lin E, Mather RC, Romeo AA, Verma NN, **Cole BJ**: Factors most closely associated with functional outcomes in rotator cuff repair. AOSSM Specialty Day, AAOS Annual Meeting, S.F., CA, February 11, 2012.
48. Strauss EJ, Salata MJ, Sershon RA, Lin EC, McGill KC, Garbis N, Provencher MT, Wang VM, **Cole BJ**, Romeo AA, Verma NN. The Role of the Superior Labrum Following Biceps Tenodesis in Glenohumeral Kinematics and Stability. ASES Specialty Day, AAOS Annual Meeting, S.F., CA, February 11, 2012.
49. Salata MJ, Sherman SL, Lin EC, Sershon RA, Gupta A, Shewman E, McGill KC, Wang V, Romeo AA, **Cole BJ**, Verma NN: Biomechanical evaluation of trans-osseous rotator cuff repair: Do anchors really matter. AOSSM Specialty Day, AAOS Annual Meeting, S.F., CA, February 11, 2012.
50. Mather RC, Hettrich C, Dun W, **Cole BJ**, Bach BR, Spindler KP: Cost effectiveness analysis of early reconstruction vs. rehabilitation and delayed reconstruction for ACL tears. Best Sports Medicine Poster, AAOS Annual Meeting, S.F., CA, February 7-11, 2012.
51. Sherman S, Karas V, Baker C, Bach BR, **Cole BJ**, Bush-Joseph CA: Allograft reconstruction for failed or neglected extensor mechanism injuries. AAOS Annual Meeting, S.F., CA, February 7-11, 2012.
52. Bhatia S, Bell R, Frank RM, Rodeo SA, Bach BR, **Cole BJ**, Chubinskaya SG, Wang V, Verma N: Soft tissue healing in an in vivo anterior cruciate ligament (ACL) allograft model. AAOS Annual Meeting, S.F., CA, February 7-11, 2012.
53. Lin E, Van Thiel G, Sershon RA, McGill KC, **Cole BJ**, Verma NN, Romeo AA, Nicholson GP: Clinical outcomes of reverse total shoulder arthroplasty in patients under the age of 60. AAOS Annual Meeting, S.F., CA, February 9, 2012.
54. Karas V, Tetteh ES, Lin E, Mather RC, Romeo AA, Verma NN, **Cole BJ**: Factors most closely associated with functional outcomes in rotator cuff repair. AAOS Annual Meeting, S.F., CA, February 9, 2012.
55. Lin E, Dhawan A, Sherman S, McGill KC, Provencher MT, Nicholson MT, **Cole BJ**, Romeo AA, Verma NN: Arthroscopic primary rotator cuff repairs in patients under the age of 45. AAOS Annual Meeting, S.F., CA, February 9, 2012.
56. Lin E, Sherman S, Mathe RC, Dishkin J, Harwood DP, Gregory JM, **Cole BJ**, Romeo AA, Verma NN: Biomechanical analysis of the pectoralis major and comparison of techniques for tendo-osseous repair. AAOS

Annual Meeting, S.F., CA, February 9, 2012.

57. Chalmers P, Yanke A, Sherman S, Karas V, **Cole BJ**: Combined cartilage restoration and distal realignment for patellar and trochlear lesions. AAOS Multimedia Session, AAOS Annual Meeting, S.F., CA, February 8, 2012.
58. Im HJ, Kim J, Chen D, Yan D, **Cole B**, Wijnen AJ: Characterization of role of the plant-derived polyphenol resveratrol in human articular cartilage and chondrosarcoma. Annual Meeting of the ORS, S.F., CA, February 9, 2012.
59. 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. American Shoulder and Elbow Surgeons, Closed Meeting, White Sulphur Springs, West VA, October 13, 2011.
60. Nho SK, Salata MJ, McGill KC, Lin EC, **Cole BJ**, Romeo AA: Clinical outcomes of open subpectoral biceps tenodesis in patients younger than 35 years old. American Shoulder and Elbow Surgeons, Closed Meeting, White Sulphur Springs, West VA, October 15, 2011.
61. Lin EC, Sershon RA, Van Thiel GS, Gupta D, McGill KC, Nicholson GP, **Cole BJ**, Verma NN, Romeo AA: Clinical outcomes of reverse total shoulder arthroplasty in patients under the age 60. American Shoulder and Elbow Surgeons, Closed Meeting, White Sulphur Springs, West VA, October 15, 2011.
62. Salata MJ, Sherman SL, Lin EC, Sershon RA, Gupta A, Shewman E, McGill KC, Wang V, Romeo AA, **Cole BJ**, Verma NN: Biomechanical evaluation of trans-osseous rotator cuff repair: Do anchors really matter. American Shoulder and Elbow Surgeons, Closed Meeting, White Sulphur Springs, West VA, October 13-15, 2011.
63. Sherman SL, Mather RC, Lin EC, Dishkin J, Gregory J, Harwood DP, **Cole BJ**, Romeo AA, Verma NN: Biomechanical comparison of transosseous, suture anchor, and pec button repair for pectoralis major rupture. American Shoulder and Elbow Surgeons, Closed Meeting, White Sulphur Springs, West VA, October 13-15, 2011.
64. Strauss EJ, Salata MJ, Sershon RA, Lin EC, McGill KC, Garbis N, Provencher MT, Wang VM, **Cole BJ**, Romeo AA, Verma NN. The Role of the Superior Labrum Following Biceps Tenodesis in Glenohumeral Kinematics and Stability. American Shoulder and Elbow Surgeons, Closed Meeting, White Sulphur Springs, West VA, October 13-15, 2011.
65. Lin EC, Harwood DP, Gochanour E, Nicholson GP, **Cole BJ**, Verma NN, Romeo AA: Clinical outcomes of hemiarthroplasty in patients under the age of 50. American Shoulder and Elbow Surgeons, Closed Meeting, White Sulphur Springs, West VA, October 13-15, 2011.
66. Garbis NG, Romeo AA, Ghodadra NS, McGill KC, Gupta A, Provencher MT, Wang V, Bach BR, **Cole BJ**, Verma NN: Normalization of Glenohumeral Kinematics of Curved vs. Flat Soft Tissue Interposition Graft: Implications of Glenoid Reaming. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
67. Salata MJ, Sherman SL, Lin EC, Sershon RA, Gupta A, Shewman E, McGill KC, Wang V, Romeo AA, **Cole BJ**, Verma NN: Biomechanical evaluation of trans-osseous rotator cuff repair: Do anchors really matter. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011. (Poster and Podium)
68. Lin EC, Sershon RA, Van Thiel GS, Gupta D, McGill KC, Nicholson GP, **Cole BJ**, Verma NN, Romeo AA: Clinical outcomes of reverse total shoulder arthroplasty in patients under the age 60. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
69. Lin EC, Harwood DP, Juhan T, Hammond J, Gochasour E, **Cole BJ**, Nicholson GP, Verma NN, Romeo AA: Clinical outcomes of hemiarthroplasty and biologic resurfacing in patients under the age of 50. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011. (Poster and Podium)

70. Lenart BA, Van Thiel GS, Dhawan A, Freedman R, McGill K, Provencher MT, **Cole BJ**, Romeo AA, Verma NN. MRI Evaluation of Normal Glenoid Height and Width: an Anatomic Study. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
71. Tetteh ES, Dhawan A, Bajaj S, Karas V, **Cole BJ**, Romeo AA, Verma NN. A Prospective Randomized Trial of Acromioplasty in Patients Undergoing Arthroscopic Rotator Cuff Repair: Preliminary Results. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
72. Mather RC, Harwood DP, Ghodadra N, **Cole B**, Verma N, Romeo A: Cost-effectiveness analysis of total shoulder arthroplasty and hemiarthroplasty with biologic resurfacing in patients with glenohumeral arthritis. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
73. Strauss EJ, Salata MJ, Sershon RA, Lin EC, McGill KC, Garbis N, Provencher MT, Wang VM, **Cole BJ**, Romeo AA, Verma NN. The Role of the Superior Labrum Following Biceps Tenodesis in Glenohumeral Kinematics and Stability. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
74. Sherman S, Mather R, Lin E, Dishkin J, Gregory J, Harwood D, **Cole B**, Romeo AA, Verma N: Biomechanical analysis of the pectoralis major and comparison of techniques for tendo-osseous repair. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
75. 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. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
76. Harwood DP, Lin EC, Dhawan A, Gochanour E, Nicholson GP, **Cole BJ**, Romeo AA, Verma NN. Clinical Outcomes of Total Shoulder Arthroplasty in Patients Under the Age of 50. European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
77. Strauss E, Salata M, McGill K, Nicholson G, Cole B, Verma N, Romeo A. *“The High Failure Rate of Biologic Resurfacing of the Glenoid in Young Patients with Glenohumeral Arthritis.”* Podium presentation at the European Society for Surgery of the Shoulder and the Elbow (SECEC/ESSSE) Annual Meeting, Lyon, France. September 14-17, 2011.
78. **Cole BJ**, Abermanb H, Simon TM, Kunishima D, Hawes M, Lynn A, Kestler H, Roden C: Evaluation of rhPDGF-BB in Combination with a Bi-phasic Collagen Implant for Osteochondral Defect Repair in a Caprine Model. AOSSM Annual Meeting, San Diego, CA, July 7-10, 2011.
79. Lin EC, Dhawan A, Sherman SL, McGill K, Provencher M, Nicholson GP, **Cole BJ**, Romeo AA, Verma N: Arthroscopic Primary Rotator Cuff Repairs in Patients Under the Age of 45. AOSSM Annual Meeting, San Diego, CA, July 8, 2011.
80. Tetteh E, Dhawan A, Bajaj S, **Cole BJ**, Romeo AA, Verma N: A Prospective Randomized Trial of Acromioplasty in Patients Undergoing Arthroscopic Rotator Cuff Repair, AOSSM Annual Meeting, San Diego, CA, July 8, 2011.
81. Strauss EJ, Salata MJ, McGill K, Nicholson GP, **Cole BJ**, Verma NN, Romeo AA: Midterm Outcomes of Hemiarthroplasty with Biologic Glenoid Resurfacing and Results of Conversion to Total Shoulder Arthroplasty, AOSSM Annual Meeting, San Diego, CA, July 8, 2011.
82. Karas V, Sherman S, Dhawan A, **Cole BJ**: Return to High Level Sport Following Meniscal Allograft Transplantation. 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 24, 2011.
83. Sherman S, Karas V, Baker III CL, **Cole BJ**, Busch Joseph CA: Allograft Reconstruction For Failed or Neglected Extensor Mechanism Injuries. 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University

Medical Center, June 24, 2011.

84. Salata M, Sershon B, Lin E, Gupta A, Shewman E, Sherman S, McGill K, Wang V, **Cole BJ**, Romeo AA, Verma NN: Biomechanical Evaluation of Trans-Osseous Rotator Cuff Repair: Do Anchors Really Matter? 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 24, 2011.
85. Lin E, Dhawan A, Sherman S, McGill KC, Provencher M, Nicholson G, **Cole BJ**, Verma NN, Romeo AA: Arthroscopic Primary Rotator Cuff Repairs In Patients Under the Age of 45. 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 24, 2011.
86. Ghodadra N, Karas V, Grumet R, Kirk S, McNickle AG, Garrido CP, **Cole BJ**, Bach B Jr: Articular and Meniscal Pathology Associated With Primary ACL Reconstruction. 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 24, 2011.
87. Mather R, Harwood D, Ghodadra N, **Cole BJ**, Nicholson G, Verma NN, Romeo AA: Cost Effectiveness Analysis of Glenoid Implant Options in the Arthroplasty Treatment of Young Patients with Glenohumeral Arthritis. 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 24, 2011.
88. Dhawan A, Mather R, Karas V, Ellman M, Young B, Bach BB, **Cole BJ**: An Epidemiological Analysis of Clinical Practice Guidelines For Non-Arthroplasty Treatment of Osteoarthritis of the Knee. 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 24, 2011.
89. Sherman S, Mather R, Lin E, Dishkin J, Gregory J, Harwood D, **Cole BJ**, Romeo AA, Verma NN, : Biomechanical Analysis of the Pectoralis Major and Comparison of Techniques for Tendo-Osseous Repair. 24th Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, June 24, 2011.
90. Karas V, Chalmers P, Sherman S: Return to high level sports following meniscus transplantation. 37<sup>th</sup> Annual Meeting of the Herodicus Society. June 21, 2011, Sun Valley, Idaho.
91. Sundman EA, **Cole BJ**, Karas V, Fortier LA: Growth factor and catabolic mediator concentrations in platelet rich plasma. ISAKOS, May 16, 2011, Rio De Janeiro, Brazil.
92. 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 Janeiro, Brazil.
93. 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 Janeiro, Brazil.
94. 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 Janeiro, Brazil.
95. 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.
96. 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.
97. **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.
98. 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.

99. 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.
100. **Cole BJ**, 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.
101. **Cole BJ**, 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.
102. 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.
103. **Cole BJ**, Navaie M, Provencher MT, Smith JC, Solomon DJ: Joint Pain, Severe Cartilage Destruction and Chondrolysis. Guidelines for Improving Diagnostic and Clinical Management. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14, 2011.
104. 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.
105. **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? 78<sup>th</sup> Annual Meeting of the AAOS, Feb 19, 2011, San Diego, CA.
106. 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. 78<sup>th</sup> Annual Meeting of the AAOS, AOSSM Specialty Day, Feb 19, 2011, San Diego, CA.
107. **Cole BJ**, Daley E, Bajaj S, Kercher J, Salata M, Verma N: Prospective Evaluation of Autologous Chondrocyte Implantation: Minimum 7 -Year Follow-up. 78<sup>th</sup> Annual Meeting of the AAOS, Feb 18, 2011, San Diego, CA.
108. 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. 78<sup>th</sup> Annual Meeting of the AAOS, Feb 18, 2011, San Diego, CA.
109. 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, 78<sup>th</sup> Annual Meeting of the AAOS, Feb 17, 2011, San Diego, CA.
110. **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. 78<sup>th</sup> Annual Meeting of the AAOS, Feb 17, 2011, San Diego, CA.
111. 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, 78<sup>th</sup> Annual Meeting of the AAOS, Feb 16, 2011, San Diego, CA.
112. **Cole B**, Daley E, Baja S, Kercher J, Salata M, Verma N: Prospective Evaluation of Autologous Chondrocyte Implantation: Minimum 7 -Year Follow-up. 78<sup>th</sup> Annual Meeting of the AAOS, Feb 16, 2011, San Diego, CA.
113. **Cole B**, Campbell J, Filardo G, Bajaj S, Friel N, Hakimiyan A, Grumet R, Chubinskaya S: Salvage of Contaminated Osteochondral Allografts: Chlorhexidine Effects on Human Articular Cartilage. 78<sup>th</sup> Annual

Meeting of the AAOS, Feb 16, 2011, San Diego, CA.

114. 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.
115. 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.
116. 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.
117. 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.
118. Saltzman BM, Bajaj S, Daley EL, Salata MJ, Verma NN, **Cole BJ**: Prospective Long-Term Evaluation of Allograft Meniscus Transplantation: A Minimum 7 Year Follow-up. Annual Meeting of the ORS, Long Beach, CA, January 13-16, 2011.
119. 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.
120. 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.
121. 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.
122. 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.
123. Engelhart L, Nelson L, Mordin M, Uddin S, McLeod L, **Cole BJ**, Farr: Psychometric evaluation of the knee injury and osteoarthritis outcome score (KOOS). International Cartilage Repair Society Annual Meeting, Sitkes Spain, September 27, 2010.
124. Daley E, Bajaj S, Kercher, J, Salata M, **Cole BJ**: Prospective evaluation of autologous chondrocyte implantation: Minimum 7 year follow-up. International Cartilage Repair Society Annual Meeting, Sitkes Spain, September 27, 2010.
125. Daley E, Bajaj S, Kercher J, Strauss E, Lewis PB, **Cole BJ**: Prospective evaluation of allograft meniscus transplantation: Minimum 7-year follow-up. International Cartilage Repair Society Annual Meeting, Sitkes Spain, September 27, 2010.
126. Nelson L, McLeod LD, Mordin MM, Farr J, **Cole BJ**, Uddin S, Engelhart L: Psychometric evaluation of the Knee Injury and Osteoarthritis Outcome Score (KOOS) subscales for the patients with articular cartilage lesions of the knee using pilot study data of the Cartilage Autograft Implantation System (CAIS). International Cartilage Repair Society Annual Meeting, Sitkes Spain, September 27-30, 2010.
127. 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? International Cartilage Repair Society Annual Meeting, Sitkes

Spain, September 28, 2010.

128. Odel GE, McArthur S, VanThiel GS, Kercher J, Dishkin-Paset J, Shewman E, Wang VM, **Cole BJ**: Effects of serial sectioning and repair of radial tears in the lateral meniscus. International Cartilage Repair Society Annual Meeting, Sitkes Spain, September 27-30 2010.
129. 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. International Cartilage Repair Society Annual Meeting, Sitkes Spain, September 27-30, 2010.
130. Lewis S, DeMuro C, Mordin MM, Farr J, **Cole BJ**, Mithoefer K, Engelhart L: Measuring pain and function in patients with articular cartilage repair. International Cartilage Repair Society Annual Meeting, Sitkes Spain, September 27-30, 2010.
131. 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.
132. 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.
133. 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.
134. 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. Rush Research Forum, Rush University Medical Center, Chicago, IL, March, 2010.
135. Nho S, Frank R, Reiff S, 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.
136. 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.
137. 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.
138. 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.
139. 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.
140. 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.



141. 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.
142. 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.
143. Nho SJ, Reiff S, Slabaugh M, **Cole BJ**: Complications associated with subpectoral biceps tenodesis. AOSSM Annual Meeting, Keystone, CO, July 9-12, 2009.
144. 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.
145. 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.
146. 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.
147. 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. Eastern Orthopaedic Association 40<sup>th</sup> Annual Meeting, Paradise Island, Bahamas, June 17, 2009,
148. 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.
149. Ferry AT, Bhatia S, Romeo AA, Nicholson GP, **Cole BJ**: Arthroscopic management of stiffness following rotator cuff repair: Techniques and Results. 28<sup>th</sup> Annual Arthroscopy Association of North America, San Diego, CA, April 30, 2009.
150. Verma NN, Piasecki D, Bhatia S, Romeo AA, Baker C, **Cole BJ**, Boniquit N: Outcomes following Arthroscopic revision rotator cuff repair. 28<sup>th</sup> Annual Arthroscopy Association of North America, San Diego, CA, April 30, 2009.
151. Provencher MT, McNickle A, L'Heureux DR, Romeo AA, **Cole BJ**: Post-surgical glenohumeral arthritis in young adults. 28<sup>th</sup> Annual Arthroscopy Association of North America, San Diego, CA, April 30, 2009.
152. Van Thiel GS, Sheehan S, Frank R, Slabaugh M, **Cole BJ**, Romeo AA, Nicholson GP, Verma N: Arthroscopic management of glenohumeral degenerative disease, 28<sup>th</sup> Annual Arthroscopy Association of North America, San Diego, CA, E-Poster, April 30-May 2, 2009.
153. Van Thiel JS, Verma N, Yanke A, Basu S, Farr J, **Cole BJ**: Meniscal allograft size can be predicted by height, weight and gender. 28<sup>th</sup> Annual Arthroscopy Association of North America, San Diego, CA, E-Poster, April 30-May 2, 2009.
154. 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. 8<sup>th</sup> World Congress of the International Cartilage Repair Society, Miami, FL, May 26, 2009.
155. 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. 8<sup>th</sup> World Congress of the

International Cartilage Repair Society, Miami, FL, May 26, 2009.

156. 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.
157. 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.
158. 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.
159. 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.
160. 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.
161. 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.
162. 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.
163. 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.
164. 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,
165. **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,
166. Van Thiel 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.
167. 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.
168. 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.
169. 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.
170. 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.
171. 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.

172. 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.
173. Colton AE, Rue JP, Shewman E, Zare S, Bach BR, Farr J, **Cole BJ**: Trochlear contact pressures after straight anteriorization of the tibial tubercle. 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 24-26, 2008.
174. **Cole BJ**, McNickle AG, L'Heureux DR, Kirk SS, Yanke A: Autologous Chondrocyte Implantation: Functional and Symptomatic Outcomes Beyond Two Years. 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008.
175. 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). 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008.
176. Rue JP, **Cole BJ**, Bussam M, Yanke A: Prospective Evaluation of Concurrent Meniscus Transplantation and Articular Cartilage Repair. 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 25, 2008.
177. 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.
178. 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 University Medical Center, Chicago, IL, April 23-24, 2008.
179. 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 University Medical Center, Chicago, IL, April 23-24, 2008.
180. L'Heureux, DR, McNickle AG, Provencher MT, **Cole BJ**: Post-Surgical Glenohumeral Arthritis in Young Adults. Rush Research Forum, Rush University Medical Center, Chicago, IL, April 23-24, 2008.
181. 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 University Medical Center, Chicago, IL, April 23-24, 2008.
182. Rue JPH, Yanke AB, Busam ML, **Cole BJ**: Prospective evaluation of concurrent meniscus transplantation and articular cartilage repair. American Orthopedic Society for Sports Medicine, San Francisco, CA, April 23-24, 2008.
183. 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.
184. 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.
185. 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.

186. Van Thiel 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.
187. 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.
188. 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.
189. Yanke A, **Cole BJ**, Kang RW, Chubinskaya S, Williams JM, Gomoll A: Long-term effects of continuous intraarticular Bupivacaine infusion in the rabbit shoulder. 89<sup>th</sup> Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 15, 2007.
190. 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.
191. Williams J, Brown L, **Cole BJ**: Meniscus allograft transplantation using chemically sterilized menisci: Biomechanical, histological and biomechanical evaluation in an ovine model. Combined Meeting of the Research Societies, Hawaii, October 21, 2007.
192. **Cole BJ**, Brewster R, DeBerardino 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.
193. Yanke A, **Cole BJ**, Kang RW, Chubinskaya S, Williams JM, Gomoll A: Long-term effects of continuous intraarticular Bupivacaine infusion in the rabbit shoulder. AOSSM Annual Meeting, Calgary, CA, July 15, 2007.
194. 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.
195. 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.
196. 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.
197. 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.
198. 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. 33<sup>rd</sup> Annual Meeting of the Herodicus Society. Florence, Italy, May 25, 2007.
199. 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. 6<sup>th</sup> Biannual ISAKOS Meeting, Florence, Italy, May 27<sup>th</sup>, 2007.
200. 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. 6<sup>th</sup> Biannual ISAKOS Meeting, Florence, Italy, May 27<sup>th</sup>, 2007.

201. Walczak BE, McCulloch PM, Kang RW, Zelazny A, **Cole BJ**: Prevalence of abnormal MRI findings in the knee of asymptomatic NBA players. 6<sup>th</sup> Biannual ISAKOS Meeting, Florence, Italy, May 27<sup>th</sup>, 2007.
202. Kang RW, Wimmer MA, Kressner T, Pacione CA, Oegema TR, , Williams JM, **Cole BJ**: Biologic Effects of Multiple Impaction Cycles on Osteochondral Grafts. Poster, 6<sup>th</sup> Biannual ISAKOS Meeting, Florence, Italy, May 27<sup>th</sup>-30<sup>th</sup>, 2007.
203. 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, 6<sup>th</sup> Biannual ISAKOS Meeting, Florence, Italy, May 27<sup>th</sup>-30<sup>th</sup>, 2007.
204. 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, 6<sup>th</sup> Biannual ISAKOS Meeting, Florence, Italy, May 27<sup>th</sup>-30<sup>th</sup>, 2007.
205. 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 musculo-tendinous unit. 26<sup>th</sup> Annual AANA Meeting, San Francisco, CA, April 26-29, 2007.
206. 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, 74<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-18, 2007.
207. Gomoll A, **Cole BJ**, Kang R, Williams JM, Bach BR: Chondrotoxicity of intra-articular pain pumps: An experimental study in the rabbit shoulder. 74<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 16, 2007.
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209. 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, 74<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-18, 2007.
210. 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.
211. 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)
212. 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. 88<sup>th</sup> Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 10, 2006.
213. 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.
214. 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.
215. 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.

216. **Cole BJ**, Alford W, Hayden JK, Pylawka T, Lewis P: All Arthroscopic Rotator Cuff Repair: Prospective Evaluation at Minimum 2-year Follow-up. 5<sup>th</sup> Annual Biennial AAOS/ASES Shoulder and Elbow: Current Techniques and Controversies, Orlando, FL, April 7, 2006.
217. 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.
218. 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.
219. 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.
220. 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.
221. 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.
222. 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.
223. 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.
224. 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.
225. **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. 73<sup>rd</sup> Annual Meeting of the AAOS, AOSSM Specialty Day, March 25, 2006.
226. Chubinskaya S, Hakimiyan A, Rappoport L, Rueger DC, Sobhy M, **Cole B**: Response of Human Chondrocytes Prepared for Autologous Chondrocyte Implantation to Growth Factors. International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 8-11, 2006.
227. Meininger AKM, Glenn REG, **Cole BJ**, Romeo AAR: Articular Cartilage Thickness of the Humeral Head: An Anatomic Study. International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 9, 2006.
228. **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 6<sup>th</sup> Annual Symposium, San Diego, CA, January 9, 2006.
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the American Shoulder Elbow Surgeons, Palm Beach, FL, November 10, 2005.

230. **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.
231. **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. 31<sup>st</sup> Annual Meeting of the Herodicus Society, Vail Colorado, July 9, 2005.
232. 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.
233. 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.
234. 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.
235. 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.
236. 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.
237. 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.
238. 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.
239. 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.
240. 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.
241. 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.
242. 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.
243. **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.
244. **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.
  245. 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.
  246. **Cole BJ**, Thomas A, Farr J, Beck PR: Patellofemoral contact forces following anteromedialization of the tibial tubercle, 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 23-26, 2005.
  247. **Cole BJ**, Lu Y, Dhannaraj S, Binette F: Autologous cartilage fragments on a resorbable scaffold: Single stage treatment for cartilage defects. Proceedings of the 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 25, 2005.
  248. **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. 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 25, 2005.
  249. Pylawka T, **Cole BJ**, Williams JM, Viridi A, Wimmer M: Role of nitric oxide in metabolic function of cold preserved allograft cartilage. 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 23-26, 2005.
  250. 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. 51<sup>st</sup> Annual Meeting of the ORS, Washington, DC, February 20-23, 2005.
  251. **Cole BJ**, Nho SJ, Mazzocca AD, Williams JM, Romeo AA, Bush-Joseph CA, Bach BR, Hallab NJ: Ultrasonic suture welding versus traditional knot tying in a rabbit rotator cuff repair model. 4<sup>th</sup> Biennial AAOS/ASES Shoulder and Elbow: Current Techniques and Controversies, Monterey, CA October 15, 2004.
  252. **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. 21<sup>st</sup> Annual Closed Meeting of the American Shoulder Elbow Surgeons, New York, NY, Sept 29<sup>th</sup>, 2004.
  253. 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.
  254. 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.
  255. 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, 16<sup>th</sup> Annual Resident Thesis Day, Rush University Medical Center, May 28, 2004.
  256. Beck PR, Thomas A, Farr J, **Cole BJ**: Patellofemoral contact following anteromedialization of the tibial tubercle, 16<sup>th</sup> Annual Resident Thesis Day, Rush University Medical Center, May 28, 2004.
  257. 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. 5<sup>th</sup> Annual International Cartilage Repair Society Meeting, Belgium, May 27, 2004.
  258. 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. 5<sup>th</sup> Annual International Cartilage Repair Society Meeting, Belgium, May 27, 2004.



259. Pylawka T, Viridi A, **Cole BJ**, Wimmer, MA: Impaction effects on cell viability in osteochondral tissues during transplantation. 5<sup>th</sup> Annual International Cartilage Repair Society Meeting, Belgium, May 27, 2004.
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261. 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. 50<sup>th</sup> Annual Meeting of the Orthopedic Research Society, San Francisco, CA, March 7-10, 2004.
262. 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, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10-14, 2004.
263. Romeo AA, **Cole BJ**: Open versus arthroscopic bankart repair for anterior shoulder instability. Poster, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10-14, 2004.
264. Kolb EH, **Cole BJ**, Berkson E, Farr J: The effects of medial meniscal transplantation techniques on intra-articular contact pressures. 15<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University, Chicago, IL, June 27, 2003.
265. 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. 15<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University, Chicago, IL, June 27, 2003.
266. 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.
267. 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.
268. 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.
269. 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.
270. 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.
271. 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.
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273. **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.

274. **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.
275. **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. 70<sup>th</sup> Annual American Academy of Orthopaedic Surgeons, New Orleans, LA, February 6, 2003.
276. **Cole BJ**, Katolik L, Nho S, Hayden J, Bach BR, Romeo AA: Normalization data for the Constant score. 70<sup>th</sup> Annual American Academy of Orthopaedic Surgeons, New Orleans, LA, February 6, 2003.
277. **Cole BJ**, Nho SJ, Beddow SA, Sasso BS, DiMasi M, Hayden JK: Prospective evaluation of autologous chondrocyte implantation. Hospital for Special Surgery, 84<sup>th</sup> Annual Alumni Meeting, November 8, 2002.
278. **Cole BJ**, Nho SJ, Beddow SA, Kalsi R, DiMasi M, Hayden K: Prospective evaluation of allograft meniscus transplantation. Hospital for Special Surgery, 84<sup>th</sup> Annual Alumni Meeting, November 8, 2002.
279. **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, 84<sup>th</sup> Annual Alumni Meeting, November 8, 2002.
280. 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.
281. **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.
282. **Cole BJ**, Virdi AS, Edwards R, Markel M, Sumner R, Williams: Cold Preservation of Osteochondral Material for Transplantation. 4<sup>th</sup> Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002.
283. **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. 4<sup>th</sup> Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002.
284. **Cole BJ**, Garretson RB, Katolik LI, Bach BR, Verma N: Contact Pressure at Osteochondral Donor Sites in the Patellofemoral Joint. 4<sup>th</sup> Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002.
285. Freedman KB, Smith A, **Cole BJ**, Romeo AA, Bach BR: Open Versus Arthroscopic Bankart Repair for Traumatic Unilateral Recurrent Instability of the Shoulder. 14<sup>th</sup> Annual Thesis Day, June 7, 2002.
286. 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.
287. 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.
288. 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.

289. 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.
290. 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 52<sup>nd</sup> Annual Meeting of the American Medical Students Association, Houston, TX, March 2002.
291. 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 52<sup>nd</sup> Annual Meeting of the American Medical Students Association, Houston, TX, March 2002.
292. 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.
293. 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. 69<sup>th</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons, Dallas, TX, February 13-17, 2002.
294. 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. 69<sup>th</sup> Annual Meeting of the American Academy of Orthopaedic Surgeons, Dallas, TX, February 13-17, 2002.
295. 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. 48<sup>th</sup> Annual Orthopaedic Research Society, Dallas, TX, February 10-13, 2002.
296. 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. 48<sup>th</sup> Annual Orthopaedic Research Society, Dallas, TX, February 10-13, 2002.
297. 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.
298. **Cole BJ**: Early functional results of meniscal transplantation, Illinois Association of Orthopaedic Surgeons, Carle Clinic, Urbana, IL, April 6, 2001.
299. **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.
300. 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.
301. 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. 47<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, February 25-28, 2001.
302. 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. 47<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, February 25-28, 2001.
303. **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. 47<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, February 25-28, 2001.

304. **Cole BJ**, Noerdlinger M, Stewart M, Post M: Long-term outcomes of pectoralis major transfer for scapular winging, 82<sup>nd</sup> Annual Hospital for Special Surgery Alumni Meeting, New York, NY, November 2, 2000.
305. Park AE, **Cole BJ**: Early functional analysis following meniscus transplantation. 17<sup>th</sup> Annual Residents and Fellows Arthroscopy Course, Useppa Island, FL, May 11-14.
306. 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, 67<sup>th</sup> Annual Meeting, Orlando, Florida, March 15-18, 2000.
307. 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, 46<sup>th</sup> Annual Meeting, Orlando, Florida, March 12-15, 2000.
308. 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, 46<sup>th</sup> Annual Meeting, Orlando, Florida, March 12-15, 2000.
309. 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 Hemophilia Foundation, 51<sup>st</sup> Annual Meeting, Dallas, Texas, November, 4-6, 1999.
310. **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.
311. Paras RD, Bach BR, **Cole BJ**, Wang TW: Posterior cruciate ligament and posterolateral corner injury as an occupational injury. American College of Sports Medicine, 46<sup>th</sup> Annual Meeting, Washington State, Washington, June 2-5, 1999.
312. **Cole BJ**, Tomin E, Brown, M, Lane JM: Synergism of bone marrow and rhBMP-2 in segmental bone repair, American Academy of Orthopaedic Surgeons, 66<sup>th</sup> Annual Meeting, Anaheim, California, February 2, 1999.
313. **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.
314. **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.
315. **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.
316. 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.
317. **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.
318. **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.

319. 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.
320. 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.
321. **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.
322. **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.
323. **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.
324. **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.
325. **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.
326. 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.
327. **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.
328. 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.
329. **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.
330. **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.
331. **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.
332. **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.

333. **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.
334. 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.
335. **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.
336. **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.
337. **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. Non Arthroplasty Management of the Glenohumeral Joint, Sports Medicine Conference, Chicago, IL, March 31, 2014.
2. The Value of Having an MBA in Medicine, Loyola School of Business, Chicago, IL, March 21, 2014.
3. PRO—Current Outcomes in Cuff Repair: Single Row vs. Double Row: Evidence Based Outcomes, AANA Specialty Day, New Orleans, LA, March 15, 2014
4. Single Row is Sufficient for Healing, ASES Open Meeting, New Orleans, LA, March 15, 2014.
5. Shoulder Surgery, Getting It Right: ARS Symposium, AAOS Annual Meeting, New Orleans, LA, March 14, 2014.
6. Moderator: Game Changers Paper Session, AAOS Annual Meeting, New Orleans, LA, March 14, 2014.
7. Moderator: Transitional Biologics (EE), AAOS Annual Meeting, ORS Annual Meeting, New Orleans, LA, March 14, 2014.
8. The Use of Growth Factors, PRP and Stem Cells for Cartilage Repair, Transitional Biologics (EE), AAOS Annual Meeting, ORS Annual Meeting, New Orleans, LA, March 14, 2014.
9. Full Thickness Large Rotator Cuff Tear in a 65-Year-Old: Pro Repair and Double Row Technique, AAOS Annual Meeting, New Orleans, LA, March 14, 2014.
10. Moderator: Articular Cartilage Disease and Meniscal Deficiency, AAOS Annual Meeting, New Orleans, LA, March 14, 2014.
11. Moderator: The Four Most Common Types of Cartilage Damage You Will See in Practice: How We Treat Them and Why, AAOS Annual Meeting, New Orleans, LA, March 13, 2014.
12. Moderator: Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, March 12, 2014.
13. Overview of Articular Cartilage Repair Options, Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, March 12, 2014.
14. Guided Poster Tour: Sports Medicine/Arthroscopy, AAOS Annual Meeting, New Orleans, LA, March 11, 2014.
15. ACL Prevention in the High School Athlete, Latin School, Chicago, IL, March 5, 2014.
16. Update and Overview of the Patient with Articular Cartilage Disease, Ossur Conference, February 18, 2014.
17. Osteochondral Allograft Transplantation for Large Defects, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 25, 2014.
18. Meniscal Allograft Transplantation in 2014, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 25, 2014.
19. Realistic Expectations from Cartilage Surgery, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 25, 2014.

20. Patellofemoral Biologic Resurfacing, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 24, 2014.
21. Patient Management and Decision-Making in Cartilage Repair: 14<sup>th</sup> Annual Comprehensive Approaches to Articular Cartilage Repair, Carlsbad, CA, January 18, 2014.
22. BioCartilage, Arthrex Faculty Forum, Naples, FL, January 12, 2014.
23. Overview of Active Patients With Articular Cartilage Disease, NorthShore Radiology Meeting, Riverwoods, IL, December 21, 2013.
24. Treatment of Articular Cartilage Defects with Biocartilage. Emerging Techniques in Orthopedics, Las Vegas, December 5, 2013.
25. DeNovo NT for the Treatment of Articular Cartilage Defects, Emerging Techniques in Orthopedics, Las Vegas, December 5, 2013.
26. Management of the Collision Athlete Arthroscopically: Clinical Debate. . Emerging Techniques in Orthopedics, Las Vegas, December 6, 2013.
27. Knee Lab Course Instructor. Emerging Techniques in Orthopedics, Las Vegas, December 7, 2013.
28. Glenoid Bone Deficiency and Instability, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
29. First Time Dislocator: Surgery or Rehabilitation, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
30. Augmenting Cuff Repairs with Biologics in 2013, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
31. Rotator Cuff Case Presentations, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
32. Biceps Management: Tenodesis or Tenotomy, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
33. What would you do? Case-based Presentations, Shoulder Instability, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
34. Multi-modality pain management in shoulder surgery, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
35. Evidence Based Medicine and Decision-Making in Cartilage Repair, Arthroscopy Association of North America Annual Meeting, Las Vegas, NV, November 7, 2013.
36. BioCartilage in the treatment of Articular Cartilage Defects. Arthroscopy Association of North America Annual Meeting, Las Vegas, NV, November 6, 2013.
37. Case-Based Decision-Making in Rotator Cuff Repair. Arthroscopy Association of North America Annual Meeting, Las Vegas, NV, November 5, 2013.
38. Experiences on a Medical Mission in Africa: Establishing a Sports Medicine Program in a 3<sup>rd</sup> World Country, Accelerated Rehabilitation, Chicago, IL, Nov 2, 2013.
39. Chairman, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 18-21. 2013.



40. Overview and Approach to Articular Cartilage Lesions, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 18, 2013.
41. Case Presentations, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 18, 2013.
42. Live Demonstration, Meniscal Allograft Transplantation, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 19, 2013.
43. Approach to Patellofemoral Chondral Pathology, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 19, 2013.
44. The Case for Philanthropy to Support Orthopedic Research, Rush Arthritis and Orthopedics Institute Leadership Committee Meeting, Chicago, IL, October 17, 2013.
45. BioCartilage—The New Treatment Option for Cartilage Lesions. ICRS Annual Meeting, Izmir, Turkey, September 17, 2013.
46. Moderator: Promising Treatment Options for Different Types of Cartilage Lesions. ICRS Annual Meeting, Izmir, Turkey, September 17, 2013.
47. Cartilage Repair in the Shoulder. ICRS Annual Meeting, Izmir, Turkey, September 17, 2013.
48. Moderator: The Subchondral Bone and Cartilage Repair. ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.
49. Clinical Research/Joint Specific Cartilage Repair: Clinical and Functional Outcomes of RevaFlex, a Tissue-Engineered Cartilage Implant Derived from Allogeneic Juvenile Chondrocytes. ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.
50. Reducing Invasiveness of Adjuvant Procedures. ICRS Annual Meeting, Izmir, Turkey, September 15, 2013.
51. The Joint ‘Organ’: Comprehensive Concepts for Cartilage Restoration. ICRS Annual Meeting, Izmir, Turkey, September 15, 2013.
52. Osteochondral Allograft Transplantation and BioCartilage, AAOS Webinar, Chicago, IL, July 16, 2013.
53. Management of the Collision Athlete with Shoulder Instability: I Do it Arthroscopically. AOSSM Annual Meeting, July 12, 2013.
54. Revolutionizing Knee Preservation: BioCartilage, AOSSM Annual Meeting, July 12, 2013.
55. SLAP: When to do surgery & when to rehabilitation. AOSSM/SPTS Pre-Conference Program, Chicago, IL, July 10, 2013.
56. Moderator: Articular Cartilage Session, Sunday, July 7, 2013, Herodicus Society 39<sup>th</sup> Annual Meeting, Koehler, WI, July 7, 2013.
57. Occupational Injuries of the Knee, Accelerated Rehabilitation, Oakbrook, IL, June 28, 2013.
58. The Swimmer’s Shoulder, 4<sup>th</sup> Annual DePaul Symposium, Chicago, IL. June 28, 2013.
59. Basics of Knee Arthroscopy, Cure International Hospital, Kijabe, Kenya, June 10, 2013.
60. Basics of Shoulder Arthroscopy, Cure International Hospital, Kijabe, Kenya, June 10, 2013.
61. Basics of Arthroscopy, Cure International Hospital, Kijabe, Kenya, June 11, 2013.

62. Arthroscopic Knot Tying, Cure International Hospital, Kijabe, Kenya, June 11, 2013.
63. Physical Examination of the Knee, Cure International Hospital, Kijabe, Kenya, June 12, 2013.
64. Physical Examination of the Shoulder, Cure International Hospital, Kijabe, Kenya, June 12, 2013.
65. Arthroscopic Techniques in the Knee, Cure International Hospital, Kijabe, Kenya, June 13, 2013.
66. ACL Graft Harvest and Preparation, Cure International Hospital, Kijabe, Kenya, June 13 2013.
67. Arthroscopic Techniques in the Shoulder, Cure International Hospital, Kijabe, Kenya, June 14, 2013.
68. Live surgical demonstration, Allograft Meniscus Transplantation, Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 19, 2013.
69. Case Presentations, Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 19, 2013.
70. Labral repair with knotless anchors. Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 20, 2013.
71. Biologics in RCR, Arthrex Symposium, Baltimore, MD, April 12, 2013.
72. Update in Cartilage Restoration, Arthrex Symposium, Baltimore, MD, April 12, 2013.
73. Near Term Solutions to Cartilage Repair, Arthrex Symposium, Baltimore, MD, April 12, 2013.
74. Chairman, Arthrex Biologics Symposium, Baltimore, MD, April 12, 2013.
75. Management of Glenoid Bone Loss in Instability, Annual Cherry Blossom Society Meeting, Arlington, VA, April 6, 2013.
76. Biologics in RCR, Annual Cherry Blossom Society Meeting, Arlington, VA, April 6, 2013.
77. AANA Specialty Day: What is new and exciting in cartilage repair: Near-term solutions, AANA Specialty Day Program, Chicago, IL, March 23, 2013.
78. AANA/AOSSM Specialty Day Combined Meeting: Pardon the Interruption: The treatment of cartilage defects, Chicago, IL, March 23, 2013.
79. Co-Program Chairman: Open Shoulder and Elbow Surgeons Specialty Day, AAOS Specialty Day, Open ASES, Chicago, IL, March 23, 2013.
80. Moderator: The Best of the AAOS, AAOS Annual Meeting, Chicago, IL, March 22, 2013.
81. ICL 411: Arthroscopic Management of Shoulder Instabilities: SLAP tears and Instability, AAOS Annual Meeting, Chicago, IL, March 22, 2013.
82. Course Director, ICL 302: Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, Chicago, IL, March 21, 2013.
83. ICL 302: Overview of Treatment Options, Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, Chicago, IL, March 21, 2013.
84. New Treatments in Cartilage Repair, Arthrex Educational Forum, Hugo's Frog Bar and Fish House, Chicago, IL, March 20, 2013.

85. Cartilage Restoration: Overview of treatment Options, Nursing and Allied Health Program, AAOS Annual Meeting, Chicago, IL, March 19, 2013.
86. SLAP tears: What are they and how do we fix them? Resident Core Lecture. Rush University Medical Center, Chicago, IL, March 11, 2013
87. Non Arthroplasty Management of Glenohumeral Arthritis. Resident Core Lecture. Rush University Medical Center, Chicago, IL, March 4, 2013
88. Trends in ACL reconstruction in the NBA. NBA Annual Team Physicians' Meeting, Houston, TX, February 15, 2013.
89. Complex Reconstruction with Cartilage Repair, Annual Fellows Course, Carlsbad, CA, January 19, 2013.
90. Articular Cartilage Management in the Knee, Sooner Sports Medicine Symposium, University of Oklahoma, Norman, OK, January 11, 2013.
91. Non-Arthroplasty Options for Glenohumeral Arthritis: Does anything other than total shoulder arthroplasty work? Sooner Sports Medicine Symposium, University of Oklahoma, Norman, OK, January 11, 2013.
92. Maintaining Balance in Academics and Personal Life, Sooner Sports Medicine Symposium, University of Oklahoma, Norman, OK, January 11, 2013.
93. Arthroscopic Stabilization in the Contact Athlete: Pro. 2<sup>nd</sup> Annual Emerging Techniques in Orthopedics-An International Perspective, Las Vegas, NV, December 7. 2012.
94. Arthroscopic Revision Stabilization: Pro. 2<sup>nd</sup> Annual Emerging Techniques in Orthopedics-An International Perspective, Las Vegas, NV, December 7. 2012.
95. Rotator Cuff Repair: Case Based Panel Discussion, 2<sup>nd</sup> Annual Emerging Techniques in Orthopedics-An International Perspective, Las Vegas, NV, December 7. 2012.
96. Overview of Cartilage Repair, American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.
97. Patellofemoral Instability and Chondrosis, American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.
98. Management of Chondral Injury and ACL Tears, American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.
99. Achieving Balance in Profession and Workplace, Massachusetts General Hospital, Harvard Partners Program, Boston, MA, November 11, 2012.
100. Cartilage Restoration: Decision-Making and Treatment Algorithm, Massachusetts General Hospital, Harvard Partners Program, Boston, MA, November 11, 2012.
101. Live Surgical Demonstration: Arthroscopic Shoulder Stabilization-Pearls and Pitfalls, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 9, 2012.
102. Patellofemoral Case Presentation, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 9, 2012.
103. Euro Envy: Next Generation Cartilage Repair Techniques, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 9, 2012.
104. Knee Lab Coordinator, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 10, 2012.

105. Management of the PF Joint: Cartilage and Instability. Cartilage Focus Group, Round-Table with Chicago Orthopedic Surgeon, Chicago, IL, October 30, 2012.
106. Rotator Cuff Repair: Tips for Success. 17<sup>th</sup> Annual Boston Shoulder and Sports Symposium, Waltham, MA, Oct 26, 2012.
107. Meniscal Allograft Transplantation. 17<sup>th</sup> Annual Boston Shoulder and Sports Symposium, Waltham, MA, Oct 27, 2012.
108. ACL and Chondral Injury: Current Management Principles. Segal North American Osteoarthritis Workshop, Chicago, IL, October 28, 2012.
109. Meniscus Allograft Transplantation, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
110. Cartilage Restoration: Evaluation and Decision-Making, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
111. Managing Failure after Cartilage Transplantation, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
112. Next Generation Cartilage Repair Technology, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
113. Managing Glenoid Bone Loss, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
114. Master Instructor, Advances in Knee Surgery: Cartilage Focus. AANA OLC Course, Rosemont, IL, October 5-7, 2012.
115. Overview of Cartilage Restoration, AANA OLC Course, Rosemont, IL, October 5, 2012.
116. Management of PF Chondral Pathology, AANA OLC Course, Rosemont, IL, October 6, 2012.
117. Case Presentation, AANA OLC Course, Rosemont, IL, October 6, 2012.
118. Live Surgical Demonstration, Meniscus Allograft Transplantation. AANA OLC Course, Rosemont, IL, October 6, 2012.
119. Live surgical demonstration, MPFL Repair, 2012 National Capital Knee Symposium, Ottawa, ON, September 21, 2012.
120. Live surgical demonstration, DeNovo NT, 2012 National Capital Knee Symposium, Ottawa, ON, September 21, 2012.
121. Meniscal Transplantation: Where it fits in, 2012 National Capital Knee Symposium, Ottawa, ON, September 20, 2012.
122. Chondral Lesions: OATS, ACI, Biologics, 2012 National Capital Knee Symposium, Ottawa, ON, September 20, 2012.
123. Management of Failed Rotator Cuff Repair, International Congress for Joint Reconstruction, Las Vegas, NV, September 13, 2012.
124. Management of Shoulder Instability with Glenoid Bone Loss, International Congress for Joint Reconstruction, Las Vegas, NV, September 14, 2012.

125. Point-Counterpoint: Soft Tissue Repair vs. Glenoid Reconstruction for Recurrent Instability, International Congress for Joint Reconstruction, Las Vegas, NV, September 14, 2012.
126. Allograft Reconstruction of the Humerus and Glenoid, Audio-Digest Orthopaedics: Advances in Shoulder Arthroscopy, Vol 35: Issue 18, September 21, 2012.
127. Orthobiologics and the Shoulder: What should we do? Audio-Digest Orthopaedics: Advances in Shoulder Arthroscopy, Vol 35: Issue 18, September 21, 2012.
128. Cartilage Restoration Overview, Audio-Digest Orthopaedics, Managing Sports Injuries, Vol 35: Issue 16, August 21, 2012.
129. Orthobiologics of the Shoulder, Audio-Digest Orthopaedics, Managing Sports Injuries, Vol 35: Issue 16, August 21, 2012.
130. Instructional Course Lecture: Failed Shoulder Surgery: Instability, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 14, 2012.
131. The Use of BioCartilage for the Treatment of Cartilage Defects, AOSSM Grant Workshop, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12, 2012.
132. Instructional Course Lecture: Case-Based Treatment of Knee Cartilage Defects, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 17, 2012.
133. Treatment of Isolated Cartilage Lesions in the Young Athlete: Allograft Reconstruction, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 14, 2012.
134. Hands On Shoulder Lab: Advanced Arthroscopic Techniques, Esch Shoulder Course, San Diego, CA, June 21, 2012.
135. Case Based Approach to Decision Making in Rotator Cuff Repair, Esch Shoulder Course, San Diego, CA, June 22, 2012.
136. Non-Arthroplasty Options for Glenohumeral Arthritis: Does Anything Really Work? Esch Shoulder Course, San Diego, CA, June 20, 2012.
137. Panel Discussion: The Best Ideas and Biggest Threats to Orthopedics and Spine, Becker Surgical Conference, Chicago, IL, June 16, 2012.
138. Mall N, **Cole BJ**, Romeo AA, Verma NN: Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide, Rush Annual Thesis Day, Chicago, IL, June 16, 2012.
139. Lee AS, Karas V, Riccio ML, Yanke AB, Forsythe B, Nho SJ, Verma NN, Bush-Joseph CA, Bach BR, **Cole BJ**: Surgeon reliability in calcified cartilage layer removal, Rush Annual Thesis Day, Chicago, IL, June 16, 2012.
140. Hammond J, VanThiel G, Juhan T, Harwood DP, Lin EC, Dhawan A, Gochanour E, Nicholson, GB, **Cole BJ**, Romeo AA, Verma NN: Clinical outcomes of total shoulder arthroplasty in patients under the age of 50. Rush Annual Thesis Day, Chicago, IL, June 16, 2012.
141. Van Thiel G, Karas V, Lee A, Chubinskaya S, Wang VW, Magin RL, Ziving Y, Romeo A, **Cole B**: Biologic resurfacing of the glenoid with microfracture and a collagen membrane in the rabbit. Rush Annual Thesis Day, Chicago, IL, June 16, 2012.
142. OrthoBiologics, Dinner with the Doctor Program, Accelerated Rehabilitation, Oakbrook, IL, June 15, 2012.

143. Management of SLAP Lesions, Rush Resident Teaching Conference, Chicago, IL, June 12, 2012.
144. Allografts in Orthopedics, Allosource and Gift-of-Hope Annual Meeting, Itasca, IL, June 8, 2012.
145. Biomechanics of Shoulder Injuries, NYU Sports Medicine Conference, State of the Art, New York, NY, May 22, 2012.
146. Biomechanics of Elbow Injuries, NYU Sports Medicine Conference, State of the Art, New York, NY, May 22, 2012.
147. Non-Surgical Management of the Arthritic Knee: Course Leader, Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012.
148. Chondral Injuries: When Conservative Treatment Fails. Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012.
149. My Preferred Techniques for Addressing Chondral Injuries. Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012.
150. Future of Cartilage Repair, American Medical Society of Sports Medicine, Atlanta, GA, April 22, 2012.
151. PRP, Stem Cells and Orthokine for the Treatment of Osteoarthritis, American Medical Society of Sports Medicine, Atlanta, GA, April 22, 2012.
152. Meniscus Allograft Transplantation, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 20, 2012.
153. Non-Arthroplasty of the Glenohumeral Joint, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 20, 2012.
154. Management of PF Articular Cartilage Defects, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 20, 2012.
155. Update in PRP: Resolving the Controversy, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 19, 2012.
156. Management of Failed Cartilage Transplantation, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 19, 2012.
157. PRP in Orthopedics, West Virginia Orthopedic Society Annual Meeting, WV, April 14, 2012.
158. Common Shoulder Conditions: When to refer. Grand Rounds, Oak Park Hospital, Oak Park, IL, April 13, 2012.
159. Cell-Based Therapy for Cartilage Disease. Annual Cherry Blossom Society Meeting, Arlington, VA, March 31, 2012.
160. Patellofemoral Instability and Chondrosis. Annual Cherry Blossom Society Meeting, Arlington, VA, March 31, 2012.
161. SLAP Tears: What are they, when should we fix them? Annual Cherry Blossom Society Meeting, Arlington, VA, March 30, 2012.
162. Should I Use PRP for my Patients, AAOS Symposium, AAOS Annual Meeting, San Francisco, CA, February 8, 2012.

163. Time Management and Achieving Balance as an Orthopedic Surgeon, ICL, AAOS Annual Meeting, San Francisco, CA, February 8, 2012.
164. Overview and Indications for Cartilage Restoration, ICL, AAOS Annual Meeting, San Francisco, CA, February 9, 2012.
165. Arthroscopic Management of SLAP Tears: Indications and Controversies, ICL, AAOS Annual Meeting, San Francisco, CA, February 9, 2012.
166. Symposium Moderator, Managing the Active Patient with Knee Arthritis, AAOS Annual Meeting, San Francisco, CA, February 10, 2012.
167. Cartilage Restoration Overview, Symposium: Managing the Active Patient with Knee Arthritis, AAOS Annual Meeting, San Francisco, CA, February 10, 2012.
168. Symposium Moderator, Controversies in SLAP Repair, American Shoulder and Elbow Surgeons Specialty Day, AAOS Annual Meeting, San Francisco, CA, February 10, 2012.
169. Management of Articular Cartilage Lesions of the Patellofemoral Joint, Arthroscopy Association of North America Specialty Day, AAOS Annual Meeting, San Francisco, CA, February 10, 2012.
170. Managing Failure after Cartilage Restoration, 2011 Annual Fellows Cartilage Course, Carlsbad, CA, January 28, 2012.
171. Management of Shoulder Osteoarthritis: Biologics to Arthroplasty. Contemporary Advances in Hip, Knee, and Shoulder Arthroplasty, Oak Brook, IL, January 21, 2012.
172. Controversies in PRP, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 14, 2012.
173. Live Surgical Demo: Arthroscopic Rotator Cuff Repair, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 14, 2012.
174. Arthroscopic Management of Early Glenohumeral Arthritis, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 14, 2012.
175. DeNovo NT, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 15, 2012.
176. Meniscus Transplantation: Indication and Techniques, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 16, 2012.
177. How do we deal with failure after cartilage repair? Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 17, 2012.
178. Managing the athlete with cartilage based symptoms? Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 17, 2012.
179. OATS and Synthetics, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 17, 2012.
180. Management of Glenoid Bone Loss with Distal Tibial Allograft, Arthrex Faculty Forum, Naples, FL, January 6, 2012.
181. PRP and Scaffold Based Cartilage Repair, Arthrex Faculty Forum, Naples, FL, January 7, 2012.
182. Arthroscopic Revision Instability: I do it Arthroscopically (Pro). Emerging Techniques in Orthopedics, Las Vegas, NV, December 8, 2011.

183. Arthroscopic Instability: Case Presentation. Emerging Techniques in Orthopedics, Las Vegas, NV, December 8, 2011.
184. The Use of PRP for Osteoarthritis: VuMedi Webcast, November 28, 2011.
185. Live Surgical Demonstration: Arthroscopic Labral Repair, AANA Fall Meeting, Palm Desert, CA, November 18, 2011.
186. Master Instructor, Shoulder Lab, AANA Fall Meeting, Palm Desert, CA, November 17, 2011.
187. Master Instructor, Knee Lab, AANA Fall Meeting, Palm Desert, CA, November 18, 2011.
188. Course Chairman, Advances in Knee Surgery: Cartilage Focus. AANA Masters Experience Course, Rosemont, IL, October 28-30, 2011.
189. Overview of Articular Cartilage: Proper Decision-Making, Advances in Knee Surgery: Cartilage Focus. AANA Masters Experience Course, Rosemont, IL, October 28, 2011.
190. Case Based Learning, Advances in Knee Surgery: Cartilage Focus. AANA Masters Experience Course, Rosemont, IL, October 29, 2011.
191. When is Microfracture Not Good Enough? AAOS Top Orthopaedic Controversies, New York, NY, October 15, 2011.
192. Overview of The Management of Shoulder Arthritis in the Active Patient, Arthrex Biologic Shoulder and Knee Symposium, Irvine, Orange County, CA, October 7, 2011.
193. Overview of Cartilage Restoration, Arthrex Biologic Shoulder and Knee Symposium, Irvine, Orange County, CA, October 7, 2011.
194. Laboratory Leader, Arthrex Biologic Shoulder and Knee Symposium, Irvine, Orange County, CA, October 8, 2011.
195. Orthobiologics: 2011- What should we do? Orthopedic Surgery Controversies, NAPA 2011. Napa, CA, October 5, 2011.
196. The Evolution of Chondrolysis: Current Thoughts, Napa, CA, October 5, 2011.
197. Glenohumeral Resurfacing vs. TSA in Young Individuals, Napa, CA, October 7 2011.
198. Allograft Reconstruction of the Humerus and Glenoid, Napa, CA, October 7, 2011.
199. Determining Causality for Shoulder and Knee Injuries, Accelerated Rehabilitation Seminar, Rush University Medical Center, September 30, 2011.
200. Knotless and Percutaneous Techniques for Labral Repair, Arthrex Shoulder Symposium, Naples, FL September 26, 2011.
201. Double vs. Single Row Rotator Cuff Repair: Where are we now? Arthrex Shoulder Symposium, Naples, FL September 26, 2011.
202. Decision Making in Cartilage Repair and Managing Co-Morbidities, Joint Preservation Symposium, Charlotte, NC, September 23, 2011.
203. Occupational Injuries: Is it really work-related? RISK Guest Speaker, Addison, IL, September 22, 2011.



204. Cartilage Restoration of the Shoulder and Knee, Lake Forest/Northwestern Physical Therapy Continuing Education Seminar, September 19, 2011.
205. Case Presentations in Shoulder Surgery, University of Missouri, Department of Orthopedics, Columbus, MO, September 5, 2011.
206. Cartilage Repair: Current Thinking and Decision Making, University of Missouri, Department of Orthopedics, Columbus, MO, September 5, 2011.
207. Next-Generation Cartilage Repair: Overview of Emerging Technology, Zimmer Scientific Advisory Board Meeting, Rosemont, IL, September 2, 2011.
208. Cartilage Repair: Current Thinking and Decision Making, University of Virginia, Department of Orthopedics Grand Rounds, Charlottesville, VA, August 31, 2011.
209. Meniscus Allograft Transplantation, Athletico, Chicago, IL, Tuesday, July 21, 2011.
210. The Effects of PRP on Rotator Cuff Biology: State of the Art. VuMedi Webinar, Tuesday July 19, 2011.
211. Cartilage Repair: Osteotomy and Complex Reconstruction, Instructional Course Lecture, AOSSM Annual Meeting, San Diego, CA, July 9, 2011.
212. Establishing a Learning Center for Continuing Education: The Surgeon's Perspective. Annual Meeting of the Continuing Education for Surgeons, Las Vegas, NV, June 14, 2011.
213. Decision Making for Cartilage Restoration, Articular Cartilage 2011, State of the Art, NYU, NY, NY, May 21, 2011.
214. What's New in Cartilage Restoration, Articular Cartilage 2011, State of the Art, NYU, NY, NY, May 21, 2011.
215. Presidential Guest Speaker: Cartilage Restoration: Clinical Update and Treatment Algorithm, Texas Orthopaedic Association, Austin, TX, May 20, 2011.
216. Cartilage Injuries of the Shoulder. Postgraduate Seminar, American Osteopathic Association of Orthopedics, Scottsdale, AZ, May 13, 2011.
217. ICL: Advances in Arthroscopic Articular Cartilage Treatment, 2011. 2011 Arthroscopy Association of North America Annual Meeting, San Francisco, CA, April 16, 2011.
218. Over-Called, Under-Treated? Under-Called, Over Treated? When and How to Fix SLAP Lesions, 30<sup>th</sup> Annual Cherry Blossom Seminar, Washington, DC, April 1, 2011.
219. Role of Biologics in Enhancing Healing and Decreasing Cuff Failure, 30<sup>th</sup> Annual Cherry Blossom Seminar, Washington, DC, April 1, 2011.
220. Meniscal Transplantation and Other Implant Options for the Meniscus, Robert Metcalf and AANA Meeting, Snowbird, UT, March 27, 2011.
221. When are SLAP Repairs Really Appropriate? Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
222. When must we Manage the Most Significant Articular Cartilage Lesions? Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
223. My Technique for Osteochondral Allograft, Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.

224. Arthroscopic Management of Early Degenerative Joint Disease of the Shoulder, Robert Metcalf and AANA Meeting, Snowbird, UT. March 26, 2011.
225. Evaluating the Patient with a Rotator Cuff Tear, Robert Metcalf and AANA Meeting, Snowbird, UT, March 24, 2011.
226. OrthoBiologics Update, Steadman Hawkin's Clinic Sports Medicine Symposium, Vail, CO, April 26, 2011.
227. Allograft Resurfacing for Humeral Head Defects, 78<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 19, 2011.
228. Course Chairman, ICL: Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? 78<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 18, 2011.
229. ICL: Transition from open to arthroscopic RCR. 78<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 18, 2011.
230. Course Chairman, ICL: The Active Patient with GH Arthritis: How Do we prevent it and how do we treat it? 78<sup>th</sup> Annual meeting of the AAOS, San Diego, CA, Feb 17, 2011.
231. ICL: Overview of the management of patients with GH arthritis, 78<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 17, 2011.
232. ICL: Arthroscopic Management of Shoulder Instabilities, Management of Concomitant SLAP and Labral Tears, 78<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 16, 2011.
233. Complex Reconstruction of the Knee with Co-Morbidities, 11<sup>th</sup> Annual Cartilage Symposium, Carlsbad, CA, January 14, 2011.
234. Single vs. Double Row Rotator Cuff Repair, Arthrex Instructor's Symposium, Tracy, CA, January 9, 2011.
235. Meniscus Transplantation, Arthrex Instructor's Symposium, Tracy, CA, January 8, 2011.
236. Case-Based Cartilage Transplantation, Advanced Concepts Course, Genzyme, Inc., Rosemont, IL, November 20, 2010.
237. Cartilage Repair: Now and Then, Hospital for Special Surgery Alumni Day, New York, NY, November 12, 2010.
238. Cartilage Restoration: Here and Now, Boston Shoulder and Sports Symposium, Boston, MA, October 29, 2010.
239. Glenohumeral joint chondral defect management, Boston Shoulder and Sports Symposium, Boston, MA, October 30, 2010.
240. Cartilage Restoration: Here and Now, 54<sup>th</sup> 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.
241. Orthobiologics: What you need to know, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 14, 2010.
242. Glenohumeral joint chondral defect management, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 15, 2010.
243. Arthroscopic RCR: SR, DR and TOE, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 16, 2010.

244. Cartilage Restoration and PRP: Clinical Update, Arthrex National Sales Meeting, Chicago, IL, Sept 24, 2010.
245. Single Row vs. Double Row Rotator Cuff Repair, Arthrex National Sales Meeting, Chicago, IL, Sept 24, 2010.
246. Cartilage Restoration and DeNovo NT: Update, Zimmer Sports Medicine Review, Carlucci's Restaurant, Rosemont, IL, Sept 23, 2009.
247. Shoulder Instability: Evaluation and Management. Sports Medicine Review Course for Physical Therapists, Marriott Hotel, Chicago, IL, Sept 18, 2010.
248. Future Directions in Rotator Cuff Treatment, The Shoulder Center of Kentucky 13<sup>th</sup> Annual Shoulder Symposium, The Rotator Cuff and Master Athlete, Lexington, KY, July 31, 2010.
249. Non-Arthroplasty Alternatives to Treat Glenohumeral Arthritis, The Shoulder Center of Kentucky 13<sup>th</sup> Annual Shoulder Symposium, The Rotator Cuff and Master Athlete, Lexington, KY, July 31, 2010.
250. Treatment Options in Full Thickness Rotator Cuff Tears, The Shoulder Center of Kentucky 13<sup>th</sup> Annual Shoulder Symposium, The Rotator Cuff and Master Athlete, Lexington, KY, July 30, 2010.
251. Clinical Examination of Rotator Cuff Disease, The Shoulder Center of Kentucky 13<sup>th</sup> Annual Shoulder Symposium, The Rotator Cuff and Master Athlete, Lexington, KY, July 30, 2010.
252. Pathophysiology of Rotator Cuff Disease, The Shoulder Center of Kentucky 13<sup>th</sup> Annual Shoulder Symposium, The Rotator Cuff and Master Athlete, Lexington, KY, July 30, 2010.
253. Double Row Versus Single Rotator Cuff Repair, Instructional Course Lecture, American Society for Sports Medicine, Providence, RI, July 17, 2010.
254. Emerging Technology Overview, Instructional Course Lecture, American Society for Sports Medicine, Providence, RI, July 17, 2010.
255. Emerging Technology Review, American Society for Sports Medicine, Providence, RI, July 17, 2010.
256. Moderator, Articular Cartilage Concurrent Session, American Society for Sports Medicine, Providence, RI, July 17, 2010.
257. How to Build a Successful Sports Medicine Practice, American Society for Sports Medicine, Providence, RI, July 17, 2010.
258. PRP and Articular Cartilage, Update, American Society for Sports Medicine, Providence, RI, July 16, 2010.
259. ICL, Meniscus Transplantation and Case Studies, American Society for Sports Medicine, Providence, RI, July 16, 2010.
260. Outcomes of Failed Cartilage Restoration, Herodicus Society Meeting, Newport, RI, July 12, 2010.
261. Shoulder Arthroscopy: Is it Normal? DePaul Sports Medicine Symposium, DePaul University, Chicago, IL, June 18, 2010.
262. Cartilage Restoration of the Knee and Shoulder? DePaul Sports Medicine Symposium, DePaul University, Chicago, IL, June 18, 2010.
263. Instructional Course Lecture, Patellofemoral Cartilage Resurfacing, Arthroscopy Association of North America, 29<sup>th</sup> Annual Meeting, Hollywood, FL, May 21, 2010.

264. Instructional Course Lecture, Complex Cartilage Reconstruction, Arthroscopy Association of North America, 29<sup>th</sup> Annual Meeting, Hollywood, FL, May 21, 2010.
265. Arthroscopic RCR: SR v DR, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 13, 2010.
266. Complications of Shoulder Instability, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 13, 2010.
267. Arthroscopic Management of Lateral Epicondylitis, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 14, 2010.
268. Non Arthroplasty Alternatives for the Glenohumeral Joint, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 14, 2010.
269. Osteochondral Allograft Transplantation. 9<sup>th</sup> Annual Update in Knee Surgery, Orthopedic Learning Center, Rosemont, IL, May 4, 2010.
270. Shoulder Arthroscopy: What is normal? Rush Resident Core Lecture, May 3, 2010.
271. PRP and Cartilage: Where are we today? VuMedi Webcast, April 12, 2010.
272. Arthroscopic RCR: DR vs. SR, Arthrex Shoulder Course, April 9, 2010, Naples, FL.
273. Corrective Osteotomies: How to make it work? Specialty Day, Arthroscopy Association of North America, March 13, 2010, New Orleans, LA.
274. 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.
275. Double Row Rotator Cuff Repair is Better: Point-Counterpoint, Specialty Day, American Society for Sports Medicine, March 13, 2010, New Orleans, LA.
276. 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.
277. Live Demonstration: HTO and AMZ, American Academy of Orthopedic Surgeons, March 11, 2010, New Orleans, LA.
278. 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,
279. 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,
280. 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,
281. The Unhappy Ulnar Nerve, AAOS/AOSSM Annual Sports Medicine Course, February 12, 2010, Bonita Springs, FL.
282. Shoulder Arthroscopy: Is it Normal? AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
283. SLAP Lesions: Techniques and Outcome, AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.

284. Physical Examination of the Elbow, AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
285. Complex Reconstruction of the Knee, Fellows Course, Carlsbad, CA, December 16, 2010.
286. Single vs. Double Row Rotator Cuff Repair: Resident Sports Medicine Conference, Rush University Medical Center, Chicago, IL, Nov 22, 2009.
287. MPFL Reconstruction: Technique-Focus Video, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
288. PF Case Presentations, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
289. Shoulder Arthroscopy Laboratory, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
290. Focus Demo, Arthroscopic Labral Repair, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
291. Knee Arthroscopy Laboratory, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
292. Single Row versus Double Row Rotator Cuff Repair, Fact or Fiction, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
293. Knotless Suture Anchor Fixation: Fact or Fiction, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
294. Anteromedialization of the Tibial Tuberosity, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
295. New Techniques for Meniscal Allograft Transplantation, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
296. Biologic Reconstruction of the Glenohumeral Joint, Michigan Orthopedic Society, Detroit Michigan, October 12, 2009.
297. Decision Making in Cartilage Repair, Michigan Orthopedic Society, Detroit Michigan, October 12, 2009.
298. Course Chairman Advanced Articular Cartilage Procedures, Arthroscopy Association of North America, Rosemont, OLC, October 9-11, 2009.
299. Live Surgical Demonstration, Allograft Meniscus Transplantation, Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 10, 2009.
300. The Future of Cartilage Repair Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 10, 2009.
301. Allograft Meniscus Transplantation: Indications, Techniques, Results. Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 9, 2009.
302. Biologic Reconstruction of the Glenohumeral Joint, Advanced Biologic Reconstruction of the Shoulder Course, Chicago, IL, October 10, 2009.
303. Meet the Professor: Articular Cartilage Cases of the Knee, AAOS-SIA Annual Meeting, Rome, Italy, October 3, 2009.
304. Guidelines on the Treatment of Articular Cartilage, AAOS-SIA Annual Meeting, Rome, Italy, October 2, 2009.
305. Massive Rotator Cuff Tear Biology and Treatment, AAOS-SIA Annual Meeting, Rome, Italy, October 2, 2009.

306. Meet the Professor: Knee Biotechnology, AAOS-SIA Annual Meeting, Rome, Italy, October 1, 2009.
307. Meet the Professor: Complex Shoulder Cases, AAOS-SIA Annual Meeting, Rome, Italy, October 1, 2009.
308. Chondrolysis of the Shoulder, AAOS-SIA Annual Meeting, Rome, Italy, September 30, 2009.
309. Meniscus Allograft Transplantation, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
310. Cartilage Restoration: Decision Making and Overview, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
311. The Future of Cartilage Repair, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
312. Osteochondral Allograft Transplantation, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 19, 2009.
313. Complex Reconstruction: Cartilage Repair, Meniscus Transplantation, and Osteotomy. Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 19, 2009.
314. Board Review of Shoulder Pathology: Soft Tissue and Cartilage, AOSSM Board Review Course, Chicago, IL, Aug 14, 2009.
315. Complications of Shoulder Instability, Rocky Mountain Shoulder and Elbow Society, Beaver Creek, CO, August 7, 2009.
316. 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.
317. Chondrolysis of the Shoulder: Clinical Update, Rocky Mountain Shoulder and Elbow Society, Beaver Creek, CO, August 7, 2009.
318. Arthroscopic Rotator Cuff Repair: SR vs. DR Techniques and Indications, ICL Controversies and Techniques in Managing Rotator Cuff and Biceps Tendinopathy. AOSSM Annual Meeting, Keystone, CO, July 9, 2009.
319. Surgeon-Industry Relationships in Sports Medicine, AOSSM Annual Meeting, Keystone, CO, July 9, 2009.
320. Glenohumeral Arthritis in the Active Patient, AOSSM Annual Meeting, Keystone, CO, July 10, 2009.
321. Patellofemoral Realignment: Indications and Techniques, Arthrex Advanced Surgeons Training Course, Boston MA, June 12, 2009.
322. Osteochondral Allograft Transplantation, Arthrex Advanced Surgeons Training Course, Boston MA, June 12, 2009.
323. Arthroscopic Rotator Cuff Repair Arthrex Advanced Surgeons Training Course, Boston MA, June 11, 2009.
324. Diagnosis and Management of Shoulder Conditions in the Athlete, NBA Athletic Trainers Association, Chicago, IL, May 28, 2009.
325. Meet the Cartilage Expert, May 25, 2009, 8<sup>th</sup> World Congress of the International Cartilage Repair Society, May 25, 2009.
326. Single Stage Cartilage Repair, 8<sup>th</sup> World Congress of the International Cartilage Repair Society, May 25, 2009.

327. Injury Repair Options in the Athlete-Special Concerns, 8<sup>th</sup> World Congress of the International Cartilage Repair Society, May 23, 2009.
328. Cartilage Restoration of the Glenohumeral Joint, Advanced Shoulder Reconstruction, Orthopedic Learning Center, Chicago, IL, May 5, 2009.
329. Arthroscopic Rotator Cuff Repair. Resident Teaching Conference, Rush University Medical Center, Chicago, IL, April 13, 2009.
330. Cartilage Restoration of the Glenohumeral Joint, Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, IL, April 3, 2009.
331. Complex Reconstruction of the Knee: Realignment, Meniscal Transplantation, Cartilage Repair. Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, IL, April 3, 2009.
332. Arthroscopic RCR: Where are we today? Arthrex Fellows Symposium, Naples, FL, March 30, 2009.
333. Arthroscopic RCR: Pearls and Pitfalls, 10<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat, CO, March 12, 2009.
334. Cartilage Restoration: Pick, Squirt or Plug, 10<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat, CO, March 13, 2009.
335. Autologous Chondrocyte Implantation, 10<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, March 13, 2009.
336. Management of the Stiff Knee, 10<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, Steamboat, CO, March 14, 2009.
337. Meniscal Injuries “29881” versus “29882”. Where are we? AOSSM Specialty Day, Las Vegas, Nevada, February 28, 2009.
338. Meniscus Transplantation: Video Technique. AANA Specialty Day, Las Vegas, Nevada, February 28, 2009.
339. Course Director, Arthroscopic Rotator Cuff Repair: An Evolution of Techniques. Are Our Patients Really Benefiting? AAOS Annual Meeting, Las Vegas, Nevada, February 26, 2009.
340. Arthroscopic RCR: Making the Transition. AAOS Annual Meeting, Las Vegas, Nevada, February 26, 2009.
341. Arthroscopic Shoulder Stabilization: What Went Wrong and What Was Done About it? Las Vegas, Nevada, February 26, 2009.
342. 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.
343. Management of GH Arthritis in Young Patients: Etiology and Management. Las Vegas, Nevada, February 27, 2009.
344. Use of healing factors to help with rotator cuff repair: Facts and myths. Arthroscopic Surgery 2009, 1<sup>st</sup> Combined Metcalf/AANA Winter Meeting, Sun Valley, ID, January 31, 2009.
345. Articular cartilage lesion management overview, Arthroscopic Surgery 2009, 1<sup>st</sup> Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, February 1, 2009.

346. Meniscal allograft transplantation: Indications, techniques and results, Arthroscopic Surgery 2009, 1<sup>st</sup> Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, February 1, 2009.
347. Cartilage Repair in the Athlete: Techniques and Decision Making, Team Concept Conference, Lake Buena Vista, FL, December 5, 2008.
348. Advanced Decision Making in Cartilage Repair, Chicago Cartilage Forum, Chicago, IL, November 18, 2008.
349. Advanced Decision Making and Osteotomy, Rush Resident Core Curriculum, Chicago, IL, November 17, 2008.
350. Advanced Considerations and Decision Making in Cartilage Repair, Boston, MA, November 15, 2008.
351. Faculty: ICRS Surgical Skills Course on Cartilage Transplantation, Miami, FL, October 30-Nov 1, 2008.
352. Osteochondral Autograft Transplantation: Indications, Techniques, Results. ICRS Surgical Skills Course on Cartilage Transplantation, Miami, FL, October 30-Nov 1, 2008.
353. Course Chairman: 1<sup>st</sup> Annual ICRS Cartilage Industry Summit, Miami, FL, October 29-30, 2008.
354. Cartilage Restoration: Where are we now and how do we decide? 1<sup>st</sup> Annual ICRS Cartilage Industry Summit, Miami, FL, October 29, 2008.
355. Cartilage Transplantation: Where are we now and where are we going? Notre Dame Orthopedic Society, South Bend, IN, October 3, 2008.
356. Complex Knee and Shoulder Reconstruction. Advanced Concepts in Sports Medicine, Las Vegas, NV, September 28, 2008.
357. Cartilage Restoration: Clinical Updated. San Francisco Orthopedics, San Francisco, CA, September 26, 2008.
358. Cartilage Restoration: Where are we now and where are we going? Philadelphia Orthopedic Society, Philadelphia, PA, September 8, 2008.
359. Case Presentations: Shoulder Instability, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
360. Case Presentations: Knee Articular Cartilage, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
361. Complex Knee Reconstruction, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
362. Cartilage Restoration of the Knee, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
363. Cartilage Restoration of the Shoulder, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
364. AAOS/ASES Arthroscopic Management of Rotator Cuff Disease and Instability, Chicago, IL, July 18-19, 2008.
365. Program Chair, AOSSM Annual Meeting, Orlando, Florida, July 10-13, 2008.
366. Cartilage Restoration in the Competitive Athlete, SPTS-AOSSM Pre-Conference Program, Orlando, FL, July 9, 2008.
367. 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.
368. Cartilage Restoration: What is Here Now and What will the Future Bring? Annual RSC Conference, Westin Hotel, Chicago, IL, June 20, 2008.



369. SLAP Tears: What are we Really Treating? 35<sup>th</sup> Annual Symposium of the Mapfre Foundation, Madrid, Spain, June 13, 2008.
370. Single vs. Double Row Rotator Cuff Repair: Indications Based upon Tear Size and Configuration. 35<sup>th</sup> Annual Symposium of the Mapfre Foundation, Madrid, Spain, June 13, 2008.
371. Cartilage Restoration: What is Here Now and What will the Future Bring? 35<sup>th</sup> Annual Symposium of the Mapfre Foundation, Madrid, Spain, June 13, 2008.
372. Cartilage Autograft Implantation System. Pre-Clinical and Clinical Update. Cartilage Innovation Summit, 2008. Cleveland, Ohio, May 7, 2008.
373. Cartilage Case Presentations: The Experts Weigh-In. 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 24, 2008.
374. Instructional Course Lecture: Complex Issues in Knee Arthroscopy: Effective Approaches to Revision ACL, Articular Cartilage Repair and Osteotomy. 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 24, 2008.
375. Management of SLAP Tears: What is Real and What Should we Do? Resident CORE Curriculum, Rush University Medical Center, Chicago, IL, April 21, 2008.
376. Lab Director, Arthroscopic Shoulder Stabilization and Rotator Cuff Repair, Rush University Medical Center, Chicago, IL, April 19, 2008.
377. Arthroscopic Rotator Cuff Repair, Resident Education Curriculum, Rush University Medical Center, Chicago, IL, April 19, 2008.
378. Arthroscopic SLAP Repair, Rush University Medical Center, Chicago, IL, April 19, 2008.
379. Update on Cartilage Transplantation of the Shoulder and Knee, Regional Orthopedic Meeting, Peoria, IL, April 15, 2008.
380. Cartilage Restoration: Treatment Algorithm. Cartilage Research Foundation 3<sup>rd</sup> Annual Meeting, Phoenix, AZ, April 5, 2008.
381. Management of Glenohumeral Arthritis in Young Patients. Cartilage Research Foundation 3<sup>rd</sup> Annual Meeting, Phoenix, AZ, April 5, 2008.
382. Program Chair, Cartilage Research Foundation 3<sup>rd</sup> Annual Meeting, Phoenix, AZ, April 5, 2008.
383. Program Chair, American Orthopedic Society for Sports Medicine Specialty Day, San Francisco, CA, March 8, 2008.
384. Articular Cartilage Treatment Algorithm, Instructional Course Lecture, AAOS, San Francisco, CA, March 7, 2008.
385. Decision Making in Articular Cartilage Injury: Pick, Plug, or Squirt, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
386. Technique: Autologous Chondrocyte Implantation, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
387. Technique: Osteochondral Autograft Transplantation, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.

388. The Stiff Knee, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
389. Management of Failed Instability Surgery, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 9, 2008.
390. SLAP Tears – Diagnosis, When Are They Important, Options in Treatment, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 2, 2008.
391. Complications of Shoulder Stabilization: Stiffness, Hardware and Chondrolysis, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 2, 2008.
392. Articular Cartilage: Clinical and Basic Science Treatment, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 3, 2008.
393. Meniscus Transplant and Collagen Scaffolds, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 3, 2008.
394. Arthroscopic Rotator Cuff Repair, El Salvador Orthopedic Society, San Salvador, January 26, 2008.
395. Biologic Joint Reconstruction, El Salvador Orthopedic Society, San Salvador, January 26, 2008.
396. Arthroscopic Repair of the U-Shaped Tear. AAOS/ASES Open and Arthroscopic Techniques in the Shoulder, January 18-19, 2008.
397. Biologic Joint Replacement of the Shoulder and Knee: SOMOS Military Orthopedic Meeting, Vail, CO, December 11, 2007.
398. Complex Reconstruction and Osteotomy: Preoperative Decision Making and Surgical Planning. 8<sup>th</sup> Annual Cartilage Repair Course for Fellows, Carlsbad, CA, December 6-8, 2007.
399. Cartilage Restoration of the Knee and Shoulder, Michigan Orthopedic Society, Detroit, MI, November 12, 2007.
400. Problems of the Shoulder and Knee: An Eye Toward the Occupational Setting, Chicago, IL, November 12, 2007
401. Cartilage Repair: Now and Then. Sports Knee Surgery 2007, University of Warwick, UK, October 29, 2007.
402. Complex Reconstruction: 3<sup>rd</sup> Annual Cartilage and Sports Medicine Review, Las Vegas, Nevada, October 27, 2007.
403. Management of Failed Instability, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
404. Cartilage Repair: The Future, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
405. Meniscus Transplantation: Indications, Techniques & Results, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
406. Cartilage Restoration of the Knee and Shoulder, South Bend Orthopedic Group, South Bend, Indiana, August 23, 2007.
407. Cartilage Restoration of the Knee and Shoulder, Howard University Department of Orthopaedics, Washington, DC, September 5, 2007.
408. Results of the STAR Clinical Trial for ACI, Genzyme Tissue Repair, Boston, MA, September 5, 2007.

409. Review of Shoulder Conditions: AAOS Board Review Course, Chicago, IL, Aug 3, 2007.
410. Cartilage Restoration: Clinical Update. Zimmer Hip and Knee Symposium, Chicago, IL, Aug 7, 2007.
411. Cartilage Restoration Options in the Athlete, 21<sup>st</sup> Annual Kerlan Jobe Alumni Meeting, Calgary, CA, July 13, 2007.
412. Scaffolds, Synthetics and Emerging Technology in Cartilage Repair. Symposium on Biologics, AOSSM Annual Meeting, Calgary, CA, July 13, 2007.
413. Expanding the Indications for Allografts in Joint Surgery. 2007 AOSSM Allograft Workshop. Calgary, CA, July 17, 2007.
414. Arthroscopic Rotator Cuff Repair: Single Row, Double Row, and Transosseous Equivalent-Indications Based Upon Tear Configuration. 24<sup>th</sup> Annual San Diego Shoulder Meeting: Arthroscopy, Arthroplasty and Fractures, San Diego, CA, June 21, 2007.
415. Chondrolysis of the Shoulder: Evaluation and Management. 24<sup>th</sup> Annual San Diego Shoulder Meeting: Arthroscopy, Arthroplasty and Fractures, San Diego, CA, June 23, 2007.
416. Cartilage Restoration: Clinical Update. Northwestern California Orthopedic Society, Los Angeles, CA, June 11, 2007.
417. Arthroscopic Rotator Cuff Repair, Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, Rochester, MN, June 9, 2007.
418. Non-Arthroplasty Alternatives to the Management of Glenohumeral Arthritis, Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, Rochester, MN, June 9, 2007.
419. Management of Articular Cartilage Problems in the Professional Athlete, NBA Athletic Trainers Association, Orlando, FL, June 3, 2007.
420. Update on Cartilage Autograft Implantation System, On the Forefront: Current Concepts and Future Trends in Articular Cartilage Surgery. ICL 6<sup>th</sup> Biannual ISAKOS Meeting, Florence, Italy, May 30, 2007.
421. 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.
422. Non Arthroplasty Alternatives for the Glenohumeral Joint, AOA 47th Annual Postgraduate Seminar, Atlanta GA, May 4, 2007.
423. Non Arthroplasty Alternatives for the Glenohumeral Joint, Boston Cartilage Course, Boston, MA, May 27, 2007.
424. Overview of Treatment Options for Cartilage Resurfacing, Boston Cartilage Course, Boston, MA, May 27, 2007.
425. Allograft Meniscus Replacement: State of the Art. Great Lakes Athletic Trainers Association: Winter Meeting and Clinical Symposium, St. Charles, IL, March 9, 2007.
426. Current Advances in the Management of Cartilage Problems in the Athlete, Northwestern Medical School Sports Medicine Interest Group, Chicago, Illinois, February 27, 2007.
427. Moderator, Articular Cartilage Symposium, , American Society for Sports Medicine, Specialty Day, San Diego, CA, February 17, 2007.
428. Articular Cartilage Overview, Symposium on Articular Cartilage, American Society for Sports Medicine, Specialty Day, San Diego, CA, February 17, 2007.

429. 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.
430. Arthroscopic Rotator Repair: How I do it, Rotator Cuff Disease: From Arthroscopy to Arthroplasty Instructional Course Lecture, 74<sup>th</sup> Annual Meeting, American Academy of Orthopedic Surgeons Annual Meeting, San Diego, CA, February 16, 2007.
431. Meniscus Transplantation: Indications and Results, Allograft Meniscus Transplantation Instructional Course Lecture, 74<sup>th</sup> Annual Meeting, American Academy of Orthopedic Surgeons Annual Meeting, San Diego, CA, February 16, 2007.
432. Overview of Treatment Options, Surgical Management of Articular Defects in the Knee, Instructional Course Lecture, 74<sup>th</sup> Annual Meeting, American Academy of Orthopedic Surgeons Annual Meeting, San Diego, CA, February 14, 2007.
433. Alternatives to Knee Arthroplasty, Zimmer 21<sup>st</sup> Annual Vail Orthopaedic Symposium, Vail, CO, January 24<sup>th</sup>, 2007.
434. Non Arthroplasty Management of the Patellofemoral Joint, Zimmer 21<sup>st</sup> Annual Vail Orthopaedic Symposium, Vail, CO, January 24<sup>th</sup>, 2007.
435. Complex Reconstruction and Osteotomy: Techniques and Preoperative Planning. 7<sup>th</sup> Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 2, 2006.
436. Allograft Meniscus Transplantation, Orthopedics Today 2006, NY, NY, November 12, 2006.
437. Osteochondral Allograft Transplantation, Orthopedics Today 2006, NY, NY, November 12, 2006.
438. Patellofemoral Joint Approaches to the Treatment of Articular Cartilage, Orthopedics Today 2006, NY, NY, November 11, 2006.
439. Anteromedialization of the Tibial Tubercle, Orthopedics Today 2006, NY, NY, November 11, 2006.
440. Non-Arthroplasty Alternatives to Glenohumeral Arthritis, 88<sup>th</sup> Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 10, 2006.
441. Complex Reconstruction and Osteotomy, Management of Cartilage Injury in the Athlete, 2<sup>nd</sup> Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
442. Cartilage Autograft Implantation System, Management of Cartilage Injury in the Athlete, 2<sup>nd</sup> Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
443. Biologic Restoration of the Glenohumeral Joint, American Shoulder and Elbow Surgeons, Biologics in Shoulder Surgery, Chicago, IL, September 16, 2006.
444. Current Principles of Rotator Cuff Repair, American Society of Shoulder and Elbow Therapists, Chicago, IL, September 16, 2006.
445. Cartilage Restoration of the Knee and Shoulder, Clinical Update and Treatment Algorithm, Orthopaedic and Sports Medicine Rehabilitation Symposium, Chicago, IL, September 8, 2006.
446. Course Chairman, AAOS/ASES The Shoulder: An Arthroscopic Odyssey, OLC Rosemont, IL, July 28-29, 2006.
447. Live surgical demonstration, Arthroscopic Rotator Cuff Repair: Double Row Technique, July 28, 2006.

448. AOSSM Annual Meeting, Arthroscopic Rotator Cuff Repair: Single Row, Double Row, Trans-Osseous Equivalent: Indications Based Upon Tear Configuration, Hershey, PA, July 1, 2006.
449. AOSSM Annual Meeting ICL Course Director, Management of Arthritis in the Lower Extremity of the Athlete, Hershey, PA, July 1, 2006.
450. AOSSM Annual Meeting, ICL Management of Knee Arthritis in the Athlete, Hershey, PA, July 1, 2006.
451. AOSSM Annual Meeting, ICL Management of Shoulder Arthritis in the Athlete, Hershey, PA, June 30<sup>th</sup>, 2006.
452. Arthroscopic Rotator Cuff Repair: Where are we now? University of North Carolina, 35<sup>th</sup> Raney Visiting Professorship, Chapel Hill, NC, June 1, 2006.
453. Cartilage Restoration of the Knee and Shoulder. The 35<sup>th</sup> Annual Raney Lecture, University of North Carolina, Chapel Hill, NC, June 2, 2006.
454. Cartilage Autograft Implantation System, On the Forefront: Evolution on the Management of Articular Cartilage Injury, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 21, 2006.
455. Osteochondral and Meniscal Allografts, Allografts for Knee Surgery, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 20, 2006.
456. Master Case Presentations in Knee Surgery, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 20, 2006.
457. Arthroscopic Management of Failed Instability, Controversies in Arthroscopic Shoulder Stabilization, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 19, 2006.
458. Cartilage Restoration of the Shoulder and Knee, Presidential Speaker, Indiana Orthopedic Society, South Bend, Indiana, April 28, 2006.
459. Arthroscopic Rotator Cuff Repair: Indications, Techniques and Results, Indiana Orthopedic Society, South Bend, Indiana, April 28, 2006.
460. Complex Reconstruction and Osteotomy of the Knee, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
461. Arthroscopic Rotator Cuff Repair: Current Thinking, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
462. Non-Arthroplasty Management of Glenohumeral Arthritis, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
463. Cartilage Restoration of the Knee and Shoulder, Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, March 28, 2006.
464. Meniscal Allograft Reconstruction: Indications, Techniques and Results. AAOS 73<sup>rd</sup> Annual Meeting, Chicago, IL, March 26, 2006.
465. Meniscal Allograft Reconstruction: How to maximize outcomes in 2006. AAOS 73<sup>rd</sup> Annual Meeting, AANA Specialty Day Symposium, Chicago, IL, March 25, 2006.
466. Arthroscopic Rotator Cuff Repair: When, Why, and How. AAOS 73<sup>rd</sup> Annual Meeting, Chicago, IL, March 24, 2006,

467. Emerging Technology in Cartilage Repair, Small-Cap Orthopedics Conference, Metropolitan Club, Chicago, IL, March 21, 2006.
468. Algorithm for the Treatment of Articular Cartilage Defects, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 22, 2006.
469. Cartilage Restoration of the Knee: Complex Reconstruction and Osteotomy, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 22, 2006
470. Non-Arthroplasty Management of Glenohumeral Arthritis, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 21, 2006.
471. My Favorite Tips, Pearls and Techniques for Arthroscopic Rotator Cuff Repair, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 20, 2006.
472. Shoulder Instability: Choosing the Correct Option, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 19, 2006.
473. 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.
474. Cartilage Restoration: Clinical Update and Treatment Algorithm, 20<sup>th</sup> Annual Vail Orthopaedic Symposium, January 26, 2006.
475. Live demonstration, arthroscopic SLAP repair, The Shoulder: Arthroscopic and Open Techniques, AAOS/ASES, OLC, Chicago, IL, January 22-22, 2006.
476. Cartilage Restoration of the Shoulder, Clinical Update and Treatment Algorithm, International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 9, 2006.
477. Incidence, Natural History, and Classification of Partial Articular Cartilage Defects, International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 9, 2006.
478. Symposium Director, Partial Thickness Articular Cartilage Defects, International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 9, 2006.
479. Natural History of Articular Cartilage Disease, Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006.
480. Scaffolds Only in Cartilage Repair, Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006.
481. Complex Reconstruction and Osteotomy: Preoperative Planning and Surgical Techniques. Comprehensive Approaches to Articular Cartilage Repair and Management, Carlsbad, CA, January 6-8, 2006.
482. 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.
483. Meniscus Allograft Transplantation, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 5, 2005.
484. Complex Reconstruction: Osteotomy and Cartilage Restoration, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 5, 2005.
485. 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.
486. Osteochondral Allograft Transplantation, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 7, 2005.
  487. Multidirectional Instability of the Shoulder, Arthroscopic Management, Arthroscopy Association of Argentina, Buenos Aires, Argentina, December 8, 2005.
  488. Allograft Meniscus Transplantation, Arthroscopy Association of Argentina, Buenos Aires, Argentina, December 8, 2005.
  489. Management of Articular Cartilage Lesions of the Patellofemoral Joint, 2<sup>nd</sup> Annual Orthopaedics Today CME Course, New York, NY, November 21, 2005.
  490. Cartilage Restoration of the Knee and Shoulder, Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, October 17, 2005.
  491. Autologous Chondrocyte Implantation: Indications, Techniques, Results. Management of Cartilage Lesions in the Athlete, Las Vegas, Nevada, October 15, 2005.
  492. Cartilage Restoration of the Shoulder and Knee, Illinois Self Insurers Association, Lincolnshire, IL, October 7, 2005.
  493. Key Note Lecture: Autologous Chondrocyte Implantation: Present and Future, 2<sup>nd</sup> Annual Tissue Sparing Treatments of Degenerative Joint Disease, Houston, Texas, October 6, 2005.
  494. Allograft Meniscus Transplantation, 2<sup>nd</sup> Annual Tissue Sparing Treatments of Degenerative Joint Disease, Houston, Texas, October 6, 2005.
  495. Chairman, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26-28, 2005.
  496. Cartilage Restoration: Treatment Algorithm, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26, 2005.
  497. Autologous Chondrocyte Implantation: Advanced Techniques, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 27, 2005.
  498. Non-Arthroplasty Management of Glenohumeral Arthritis, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 28, 2005.
  499. Cartilage Restoration: Clinical Update and Treatment Algorithm. Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, Tuesday August 25, 2005.
  500. Cartilage Restoration: The Past, Present and Future, Orthopedics Intelligence Program: Evolving issues in orthopedics-Challenges and Opportunities, Chicago, IL, July 21, 2005.
  501. Allograft Meniscus Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
  502. Surgical Demonstration: Bridge in Slot Allograft Meniscus Transplantation, Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
  503. The Future of Cartilage Repair, Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.

504. Joint Preservation and Osteotomies About the Knee, Instructional Course Lecture, American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 15, 2005.
505. Articular Cartilage Treatment Options of the Knee: Treatment Options. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 16, 2005.
506. Non Arthroplasty Alternatives to Glenohumeral Arthritis. Arthroscopic Shoulder Stabilization: Tips and Pearls. James Esch San Diego Shoulder Course, San Diego, CA, June 25, 2005.
507. Arthroscopic Shoulder Stabilization: Tips and Pearls. James Esch San Diego Shoulder Course, San Diego, CA, June 23, 2005.
508. Cartilage Restoration of the Knee, Ohio Sports Medicine Annual Meeting, Akron, OH, June 17, 2005.
509. Cartilage Restoration of the Shoulder, Ohio Sports Medicine Annual Meeting, Akron, OH, June 17, 2005.
510. Cartilage Restoration of the Shoulder and Knee, Keynote Lecture, 6<sup>th</sup> Annual Philadelphia Sports Medicine Congress, University of Pennsylvania, Philadelphia, PA, June 3, 2005.
511. Cartilage Restoration: Clinical Update and Treatment Algorithm, AOSSM-ACSM Annual Exchange Lecture, ACSM Annual Meeting, Nashville, TN, June 2, 2005.
512. Cartilage Restoration: Clinical Update and Treatment Algorithm. Total Hip and Knee Forum, Rush Learning Center, Monday May 23, 2005.
513. Autologous Chondrocyte Implantation and the Future of Cartilage Repair, Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005.
514. Allograft Meniscus Transplantation, Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005.
515. Arthroscopic Shoulder Stabilization: Current Status, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, Canada, May 12, 2005.
516. Allograft Safety: Current Status, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, Canada, May 12, 2005.
517. Live Surgical Demonstration: Meniscal Allograft Transplantation, International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Miami FL, April 5, 2005.
518. Knee Resurfacing and Realignment: 2005 Update, Pre-ISAKOS Symposium, Naples, Florida, April 1, 2005.
519. Arthroscopic Bankart Repair, 6<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 10, 2005.
520. Lateral Epicondylitis: Treatment Options: 6<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 11, 2005.
521. Cartilage Restoration of the Glenohumeral Joint, American Shoulder and Elbow Surgeons Specialty Day, Washington, DC, February 26, 2005.
522. Knee Resurfacing and Realignment: 2005 Update, 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 25, 2005.
523. Arthroscopic Rotator Cuff Repair: How I do it, Instructional Course Lecture, Comprehensive Management of Rotator Cuff Pathology, 72<sup>nd</sup> Meeting of the AAOS, Washington, DC, February 24, 2005.



524. Increasing the Yield of Meniscal Allograft Tissue, Meniscus Transplant Study Group, 72nd Meeting of the AAOS, Washington, DC, February 24, 2005.
525. Meniscus Transplantation: Evaluation, Indications, Techniques, Results, Instructional Course Lecture, Meniscus Allograft Transplantation, 72<sup>nd</sup> Meeting of the AAOS, Washington, DC, February 23, 2005.
526. Up Close and Personal: Chondral Defects, 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 23<sup>rd</sup>, 2005.
527. Osteotomy: Opening and Closing Wedge, 19<sup>th</sup> Annual Vail Orthopaedic Symposium: Total Hip and Knee Arthroplasty, Vail Colorado, January 27, 2005.
528. Overview of the Status of Articular Cartilage, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
529. Management of Large Articular Cartilage Lesions, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
530. My Complication and How I got out of Trouble, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
531. The Place for Meniscus Transplantation, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 22, 2005.
532. Alternative Techniques to Manage Shoulder Instability, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 20, 2005.
533. Allograft Meniscus Transplantation: Clinical and Basic Science Update. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, GA, January 15-16, 2005.
534. Complex Reconstruction: Articular Cartilage and Meniscal Replacement. 5<sup>th</sup> Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 10, 2004.
535. 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.
536. Cartilage Restoration of the Shoulder and Knee, Midwest Orthopedics at Rush Minimally Invasive Surgery Course, United Center, Chicago, IL, October 9, 2004.
537. Cartilage Restoration: Clinical Update and Treatment Algorithm, Charlotte Orthopedic Meeting, Charlotte, NC, September 18, 2004.
538. Occupational Injuries: Fact or Fiction? Chubb Insurance Company, Chicago, IL, September 17, 2004.
539. Autologous Chondrocyte Implantation: The U.S. Experience, Philadelphia Orthopedic Society, Philadelphia, PA, September 15, 2004.
540. Cartilage Restoration: Clinical Update and Treatment Algorithm, Milwaukee Orthopedic Society, Milwaukee Athletic Club, Milwaukee, WI, August 31, 2004.
541. Allografts in Sports Medicine, Annual Meeting of the American Association for Tissue Banks, Chicago, IL, August 30, 2004.
542. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, August 24, 2004.

543. Course Chairman, The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 16-18, 2004.
544. Acromioclavicular Joint Reconstruction, The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 18, 2004.
545. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, July 13, 2004.
546. Allografts in Orthopedics: Fresh Osteochondral Allografts in Sports Medicine, AOSSM Annual Meeting, Quebec City, June 25, 2004.
547. Cartilage Restoration: Clinical Update and Treatment Algorithm, Instructional Course Lecture, AOSSM Annual Meeting, Quebec City, June 25, 2004.
548. Consumer Reports: Implants and Devices in Shoulder Instability, Instructional Course Lecture, AOSSM Annual Meeting, Quebec City, June 24, 2004.
549. Moderator: Basic Science Articular Cartilage, AOSSM Annual Meeting, Quebec City, June 24, 2004.
550. Cartilage Restoration: Clinical Update and Treatment Algorithm, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 24, 2004.
551. Non-arthroplasty Management Options for the Glenohumeral Joint, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 24, 2004.
552. Arthroscopic Rotator Cuff Repair: Techniques, Results and Outcomes, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 23, 2004.
553. Arthroscopic Instability and Rotator Interval Repair: 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
554. Live Arthroscopic Rotator Cuff Televised Demonstration, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
555. Fresh Osteochondral Allograft Transplantation, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
556. Autologous Chondrocyte Implantation: Indications, Techniques, Results, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 21, 2004.
557. Chairman, Chicago Cartilage Course, Chicago, IL, May 7-8, 2004.
558. Cartilage Restoration: Clinical Update and Treatment Algorithm, Chicago Cartilage Course, Chicago, IL, May 7, 2004.
559. Osteochondral Autografting: Indications, Techniques, Results, Chicago Cartilage Course, Chicago, IL, May 8, 2004.
560. Non-Arthroplasty Options for Management of the Glenohumeral Joint, Chicago Cartilage Course, Chicago, IL, May 8, 2004.
561. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, May 4, 2004.

562. Osteochondral Grafting: Indications, Techniques, Results. Surgical Treatment Options for Knee Injuries and Disorders, AAOS, Rosemont, IL, May 1, 2004.
563. Cartilage Restoration: Clinical Update and Treatment Algorithm, 40<sup>th</sup> Annual St. Luke's Symposium, Houston, Texas, April 23, 2004.
564. Current Concepts and Future Trends: Shoulder Instability, Arthroscopy Association of North America, Orlando, FL, April 22, 2004.
565. Autologous Chondrocyte Implantation, Osteoarthritis of the Knee: Options for the Active Patient, University of Arizona, Phoenix, AZ, April 16, 2004.
566. Autologous Chondrocyte Implantation, University of Minnesota, Minneapolis, MN, April 8, 2004.
567. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, Grand Rounds, University of Minnesota, Minneapolis, MN, April 9, 2004.
568. Fresh Osteochondral Allograft Transplantation, University of Minnesota, Minneapolis, MN, April 9, 2004.
569. Shoulder Arthritis: Non-Arthroplasty Alternatives, University of Minnesota, Minneapolis, MN, April 9, 2004.
570. Arthroscopic Bankart Repair. 5<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, 2004, Jacksonville, FL, April 3, 2004.
571. Thermal Capsulorrhaphy: "What To do When Things Go Bad." 5<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, 2004, Jacksonville, FL, April 3, 2004.
572. Cartilage Restoration: Clinical Update and Treatment Algorithm. Zimmer Hip and Knee Symposium, Chicago, IL, March 23, 2004.
573. Chairman, Instructional Course Lecture, Meniscus Allograft Transplantation, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004..
574. Meniscus Allograft Transplantation: Patient Evaluation, Indications and Case Studies, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004.
575. Moderator, Shoulder and Elbow Scientific Papers, Rotator Cuff, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 12, 2004.
576. Cartilage Resurfacing, Osteotomy, and Ligament Reconstruction, American Orthopaedic Society for Sports Medicine, Specialty Day, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 13, 2004
577. Ask the Expert, Cartilage Case Consultations, Genzyme Tissue Repair, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004.
578. Arthroscopic Shoulder Stabilization: Techniques, Lab Instructor, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 11, 2004.
579. Bridge in Slot Allograft Meniscus Transplantation Surgical Technique, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10, 2004.
580. The Effects of Medical Meniscal Transplantation Techniques on Intraarticular Contact Pressures, Meniscus Transplant Study Group, San Francisco Marriott, San Francisco, CA, March 10, 2004.

581. 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.
582. Prospective Evaluation of Functional Results of Allograft Meniscus Transplantation, Meniscus Transplant Study Group, San Francisco Marriott, San Francisco, CA, March 10, 2004.
583. Chairman, Instructional Course Lecture, Arthroscopic Management of Glenohumeral Instability: Indications and Techniques, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10, 2004.
584. Arthroscopic Management of Shoulder Instability: Indications, Techniques, Results, 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10, 2004.
585. 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.
586. Cartilage Restoration: Clinical Update and Treatment Algorithm. Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 18, 2004.
587. Autograft OATS for Femoral Condyle Defects: Technique, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 18, 2004.
588. MRI of the Shoulder, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
589. Open vs. Arthroscopic Shoulder Stabilization: Resolving the Controversy, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
590. Radiofrequency Capsulorrhaphy: Complications and Management, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
591. What's new with the shoulder and knee? Kemper-Broadspire, Bensonville, IL, February 7, 2004.
592. Mini Battle: Aggressive Treatment of Articular Lesions or Simple Debridement, Metcalf Meeting, Sun Valley, Idaho, February 3, 2004.
593. Treatment of Difficult Articular Cartilage Lesions, Metcalf Meeting, Sun Valley, Idaho, February 3, 2004.
594. Current Status of Knotless Anchors for Arthroscopic Shoulder Stabilization, Metcalf Meeting, Sun Valley, Idaho, February 2, 2004.
595. Non-Arthroplasty Alternatives to the Management of Chondral Disease of the Glenohumeral Joint, Metcalf Meeting, Sun Valley Idaho, February 2, 2004.
596. Cartilage Restoration: Clinical Update and Treatment Algorithm. Zimmer Hip and Knee Symposium, Vail, CO, January 28, 2004.
597. Audio Lecture: Management of Chondral Injury and Meniscus Transplantation. Data Trace Publishing Company, 2003.
598. Meniscus Injury: Evaluation and Management. Review and Update for Practicing Orthopedic Surgeons. AAOS CME Course, December 5, 2003.
599. Articular Cartilage Problems: Evaluation and Management. Review and Update for Practicing Orthopedic Surgeons. AAOS CME Course, December 5, 2003.

600. 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.
601. Meniscus Allograft Reconstruction: Surgical Demonstration. 22<sup>nd</sup> Annual Arthroscopy Association of North America. New Orleans, LA, November 14, 2003.
602. Arthroscopic Shoulder Stabilization: Surgical Demonstration. 22<sup>nd</sup> Annual Arthroscopy Association of North America. New Orleans, LA, November 14, 2003.
603. Meniscus Allograft Reconstruction: Indications, Techniques, Results. UCSF Comprehensive Knee Cartilage Symposium, San Francisco, CA, November 8, 2003.
604. Osteochondral Allograft Reconstruction: Indications, Techniques, Results. UCSF Comprehensive Knee Cartilage Symposium, San Francisco, CA, November 8, 2003.
605. 5-Years' Experience at the Rush Cartilage Restoration Center. 85<sup>th</sup> Annual Alumni Meeting, the Hospital for Special Surgery, New York, New York, November 6-7, 2003 (11 Hours, Category 1).
606. Shoulder Instability: Patient Evaluation and Surgical Indications. Shoulder and Elbow: The Essentials. AAOS Orthopedic Learning Center, Chicago, IL, October 31, 2003.
607. Cartilage Restoration: Clinical Update and Treatment Algorithm. Illinois Association for Orthopedic Surgeons Annual Meeting, Rush University, October 25, 2003.
608. Arthroscopic Rotator Cuff Repair: Indications and Techniques. Mitek Workshop, Rush University, Chicago, IL, October 25, 2003.
609. Autologous Chondrocyte Implantation. 2<sup>nd</sup> Annual Joint Preserving Treatment of the Knee. John Hopkins Annapolis, Maryland, October 24, 2003.
610. Surgical Treatment of Articular Cartilage Defects. Annual Clinical Assembly of Osteopathic Specialists, Chicago, IL, September 20, 2003.
611. Arthroscopic Rotator Cuff Repair: Recent Advances in 2003. 58<sup>th</sup> Annual Meeting of the American Society of the Hand, Instructional Course Lecture, Chicago, IL, September 19, 2003.
612. Advanced Considerations in Articular Cartilage Management. Oakbrook, IL, September 16, 2003.
613. Arthroscopic Rotator Cuff Repair: Indications and Techniques. The Shoulder II: Open and Arthroscopic Techniques, AAOS Orthopedic Learning Center, Chicago, IL, September 12, 2003.
614. Puddu Opening Wedge Plate for Knee Realignment. Baltimore Limb Deformity Course, September 11, 2003.
615. New Approaches to Joint Preservation. Limb Deformity Course, September 11, 2003.
616. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, September 9, 2003.
617. Cartilage Restoration: Patient Evaluation and Treatment Algorithm. Instructional Course Lecture, 29<sup>th</sup> Annual AOSSM Meeting, San Diego, CA, July 20, 2003.
618. Moderator, Scientific Session on Articular Cartilage, 29<sup>th</sup> Annual AOSSM Meeting, San Diego, CA, July 21, 2003.
619. Assessment and Management of Patients with Chondral Injuries. Advanced Concepts in ACI. Charlotte, NC, June 28, 2003.

620. Cartilage Restoration and Meniscal Allograft Reconstruction, Advanced Concepts in ACI. Charlotte, NC, June 28, 2003.
621. Occupational Injuries: Fact or Fiction. Illinois Worker's Compensation Update, Oakbrook, IL, June 26, 2003.
622. Osteochondral Autograft Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20, 2003.
623. Allograft Meniscus Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20, 2003.
624. Arthroscopic Rotator Cuff Repair: Pearls and Pitfalls. Mitek Shoulder & Knee Mini-Course, Las Vegas, NV, May 31, 2003.
625. Arthroscopic Shoulder Stabilization: Indications, Techniques & Results. Mitek Shoulder & Knee Mini-Course, Las Vegas, NV, May 31, 2003.
626. Patient Evaluation and Management Techniques for Articular Cartilage Disease. Advanced Techniques in ACI. Manhattan Beach, CA, May 10, 2003.
627. Osteochondral Grafting: Indications, Techniques, Results. Surgical Treatment Options for Complex Knee Injuries and Disorders Course # 3615, May 4, 2003, AAOS Learning Center, Rosemont, IL.
628. Articular Cartilage Treatment Options. Instructional Course, 22<sup>nd</sup> Annual Meeting Arthroscopy Association of North America, Phoenix, AZ, April 24, 2003.
629. Cartilage Restoration: Advanced Techniques and Treatment Algorithm. Medical & Surgical Approaches to Articular Cartilage Disorders of the Knee, April 12, 2003.
630. Posterior and Multi-Directional Shoulder Instability: Open Treatment. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5, 2003.
631. Coding Shoulder Procedures. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5, 2003.
632. 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.
633. Osteochondral Allografts: Indications, Techniques, Results. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
634. Autologous Chondrocyte Implantation: Indications, Techniques, Results. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
635. Allograft Meniscus Transplantation: Surgical Technique and Demonstration. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
636. Arthroscopic shoulder stabilization. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 13, 2003.
637. Anterior cruciate reconstruction: Rationale, Techniques, Results. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 15, 2003.
638. Allograft meniscus transplantation. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 15, 2003.

639. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, February 25, 2003.
640. Arthroscopic shoulder stabilization: Point-Counterpoint - Cole vs. Rockwood. Arthroscopy Association of North America Specialty Day, New Orleans, LA, February 8, 2003.
641. Chairman, Instructional Course Lecture, Allograft Meniscus Transplantation, 70<sup>th</sup> Annual AAOS Meeting, New Orleans, LA, February 6, 2003.
642. Chairman, Instructional Course Lecture, Arthroscopic Shoulder Stabilization, 70<sup>th</sup> Annual AAOS Meeting, New Orleans, LA, February 6, 2003.
643. Instructional Course Lecture: Establishing a Paperless Office, 70<sup>th</sup> Annual AAOS Meeting, New Orleans, LA, February 9, 2003.
644. Acromioclavicular joint arthropathy and arthroscopic rotator cuff repair: Indications, techniques, results. 4<sup>th</sup> Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 20, 2003.
645. Arthroscopic shoulder stabilization: Indications, techniques, results. 4<sup>th</sup> Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 23, 2003.
646. Basic science of thermal capsulorrhaphy. 4<sup>th</sup> Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 24, 2003.
647. Surgical demonstration. Exojet. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002
648. Exojet: Overview and Application. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
649. Marrow Stimulation and Osteochondral Grafting. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
650. Arthroscopic Shoulder Stabilization: Techniques, Pearls & Pitfalls. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
651. Arthroscopic Rotator Cuff Repair. Pearls and Pitfalls. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 7, 2002.
652. Proximal Humerus Fractures. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
653. Magnetic Resonance Imaging of the Shoulder. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
654. Current Status of Arthroscopic Shoulder Stabilization. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
655. Live surgical demonstration: Arthroscopic shoulder stabilization. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
656. Live surgical demonstration: Arthroscopic rotator cuff repair. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
657. Alternatives to Total Knee Arthroplasty. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.

658. Arthroscopic Treatment of Miscellaneous Knee Conditions. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
659. Allograft Meniscus Transplantation. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 15, 2002.
660. Management of Arthritic Knee: Adolescence to 55. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 16, 2002.
661. Arthroscopic Shoulder Stabilization. 27<sup>th</sup> Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
662. Allograft Meniscus Transplantation. 27<sup>th</sup> Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
663. Cartilage Restoration: Clinical Update. 27<sup>th</sup> Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
664. Arthroscopic Rotator Cuff Repair: Techniques for Success. Mitek Knee and Shoulder Symposium, Irvine, CA, October 18, 2002.
665. Cartilage Restoration: Treatment Algorithm, UCSD Cartilage Symposium, San Diego, CA, October 19, 2002.
666. Meniscus Transplantation: Indications, Techniques, Results, UCSD Cartilage Symposium, San Diego, CA, October 19, 2002.
667. Cartilage Restoration: Treatment Algorithm, Orthopedic Symposium, Dallas, Texas, October 15, 2002.
668. Clinical Outcomes: The Development of the e-CRF. 1<sup>st</sup> Meeting of the Cartilage Research Foundation, Baltimore, MD, October 13, 2002.
669. Biologic Markers for Osteoarthritis. 1<sup>st</sup> Meeting of the Cartilage Research Foundation, Baltimore, MD, October 13, 2002.
670. Arthroscopic Rotator Cuff Repair: Techniques for Success, Egyptian Orthopedic Society, Cairo, Egypt, August 31, 2002.
671. Cartilage Restoration: Clinical and Basic Science Update, Egyptian Orthopedic Society, Cairo, Egypt, August 31, 2002.
672. Cartilage Restoration: The Treatment Algorithm, Clinical Orthopedic Society, Indianapolis, IN, September 20, 2002.
673. Arthroscopic Rotator Cuff Repair Advanced Arthroscopic and Open Shoulder Surgery, AAOS Course, OLC, Chicago, IL, July 19, 2002.
674. Thermal Treatment of Shoulder Instability, Shoulder Review and Update, AAOS Course, OLC, Chicago, IL, July 20, 2002.
675. Arthroscopic Shoulder Stabilization, Shoulder Review and Update, AAOS Course, OLC, Chicago, IL, July 20, 2002.
676. Hemiarthroplasty for Proximal Humerus Fractures, Live surgical demonstration, AAOS Course, OLC, Chicago, IL, July 21, 2002.



677. Current Concepts: Management of Complications with Thermal Treatment in the Shoulder, 28<sup>th</sup> Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 30, 2002.
678. Cartilage Restoration: Patient Evaluation and Treatment Algorithm. 28<sup>th</sup> Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 31, 2002.
679. Cartilage Restoration. Total Hip and Knee Forum, Rush University, Chicago, IL, June 25, 2002.
680. Beach-Chair Position and Diagnostic Shoulder Arthroscopy. 19<sup>th</sup> Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002.
681. Arthroscopic Instability Technique and Results. 19<sup>th</sup> Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002.
682. Arthroscopic Rotator Cuff Repair. Midwest Orthopedics Educational Luncheon, Rush University, Chicago, IL, June 11, 2002.
683. Thermal Treatment of Shoulder instability: Indications, Techniques, Results. ACSM-AOSSM Exchange Lecture, American College of Sports Medicine 49<sup>th</sup> Annual Meeting, St. Louis, MO, May 29, 2002.
684. Contemporary Management of Shoulder and Elbow Arthritis, Arthritis Foundation, Living with Arthritis Seminar, Lisle, IL, May 18, 2002.
685. Arthroscopic Shoulder Stabilization, Live Demonstration. The Shoulder: Current Practice in Open and Arthroscopic Techniques, AAOS Course, OLC, Chicago, IL, May 6, 2002.
686. Clinical Update on Upper Extremity Problems, Chicago Metropolitan Hand Study Organization, Chicago, IL, April 23, 2002
687. 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.
688. Allograft Meniscus Transplantation: Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002.
689. Osteochondral Allografts, Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002
690. Osteochondral Autografts, Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002
691. Arthroscopic Rotator Cuff Repair: Techniques for Success. Mitek Advanced Knee and Shoulder Symposium, Charlottesville, VA, March 15, 2002.
692. Arthroscopic Rotator Cuff Repair: Live Demonstration, Mitek Advanced Knee and Shoulder Symposium, Charlottesville, VA, March 16, 2002.
693. Arthroscopic vs. open stabilization: How to choose. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 2, 2002.
694. MRI of the shoulder. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 3, 2002.
695. Rehabilitation of the shoulder. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 3, 2002.

696. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, February 26, 2001.
697. Moderator, Knee Session, 48<sup>th</sup> Annual Orthopaedic Research Society, Dallas, TX, February 10, 2002.
698. Moderator, Shoulder/Elbow Instability, 69<sup>th</sup> Annual American Academy of Orthopaedic Surgeon's, Dallas, TX, February 13, 2002.
699. Cartilage Restoration: Clinical and Basic Science Update. 16<sup>th</sup> Annual Vail Orthopaedic Symposium: State-of-the-Art Total Hip and Knee Replacement: Controversies and Solutions. January 31, 2002.
700. Thermal Surgery: Capsulorrhaphy and Chondroplasty, Kansas City, MO, January 17, 2002.
701. Live demonstration, Arthroscopic Rotator Cuff Repair, Global Knee and Shoulder Arthroscopy Symposium, Orthopedic Learning Center, Chicago, IL, January 20, 2002.
702. Patient Evaluation for Instability, Global Knee and Shoulder Arthroscopy Symposium, Orthopedic Learning Center, Chicago, IL, January 20, 2002.
703. Thermal Chondroplasty, Basic Science and Clinical Application. Second Annual Fellowship Program, Carlsbad, CA, December 8, 2001.
704. Allograft Meniscus Transplantation. Illinois Athletic Trainers' Association State Meeting, Chicago, IL, November 11, 2001.
705. Arthroscopic Management of the Unstable Shoulder. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001.
706. Thermal Applications for Shoulder Instability. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001.
707. Live demonstration, Arthroscopic Rotator Cuff Repair, Mitek Shoulder and Knee Symposium, Orlando, FL, October 19, 2001.
708. Arthroscopic Rotator Cuff Repair: Decision Making, Pearls and Pitfalls. Mitek Shoulder and Knee Symposium, Orlando, FL, October 18, 2001.
709. Arthroscopic Management of Shoulder Instability, Mitek shoulder and Knee Symposium, Orlando, FL, October 18, 2001.
710. Advances in Minimally Invasive Shoulder Surgery, Accelerated Rehabilitation Educational Forum, Oakbrook, IL, 2001, October 16, 2001.
711. Arthroscopic Rotator Cuff Repair: Pearls and Pitfalls. Comprehensive Surgery for the Athlete's Shoulder. Orthopedic Learning Center, September 28, 2001.
712. Thermal Treatment of Shoulder Instability. Comprehensive Surgery for the Athlete's Shoulder. Orthopedic Learning Center, September 28, 2001.
713. Cartilage Restoration, Clinical Update, Industrial Rehabilitation Allies, Chicago, IL, September 14, 2001.
714. Course Chairman, Mitek Shoulder and Knee Sports Medicine Symposium, Carlsbad, CA, August 10-11, 2001.
715. 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.
716. Cartilage Restoration and Autologous Chondrocyte Transplantation. Complex Knee Problems: Surgery for the Active Knee. Orthopedic Learning Center, Chicago, IL, July 29, 2001.

717. Live demonstration, Arthroscopic Shoulder Stabilization, The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey, Orthopedic Learning Center, Chicago, IL, July 13, 2001.
718. Management of Proximal Humerus Fractures, The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey, Orthopedic Learning Center, Chicago, IL, July 15, 2001.
719. Treatment of Chondral Injury and Thermal Chondroplasty: Clinical Update, Michigan Sports Medicine Society, Flint, Michigan, June 14, 2001.
720. Cartilage Restoration: Clinical Update, Medical College of Wisconsin, Milwaukee, WI, June 4, 2001.
721. Advances in the Arthroscopic Management of Shoulder and Knee Conditions, Arthritis Foundation Annual Seminar, Chicago, IL, May 19, 01.
722. Chairman, Instructional Course Lecture, Management of Chondral Injury, Mid-America Orthopaedic Association, 19<sup>th</sup> Annual Meeting, Amelia Island, FL, April 20, 2001.
723. An Algorithm for the Management of Chondral Injury, Mid-America Orthopaedic Association, 19<sup>th</sup> Annual Meeting, Amelia Island, FL, April 20, 2001.
724. Cartilage Restoration: Clinical Update, Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 4, 2001.
725. Autologous Chondrocyte Implantation: Indications, Techniques and Results, CorVel, Milwaukee, WI, March 29, 2001.
726. Chairman, Instructional Course Lecture, Allograft Meniscus Transplantation, AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA, March 4, 2001.
727. Evaluation, Indications, and CPT Coding for Allograft Meniscus Transplantation, AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA, March 4, 2001.
728. Chairman, Instructional Course Lecture, Arthroscopic Management of Glenohumeral Instability, AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA, March 2, 2001.
729. Evaluation, Indications, Instrumentation and CPT Coding for Arthroscopic Management of Glenohumeral Instability, AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA, March 2, 2001.
730. Clinical Update on Thermal Chondroplasty, Cartilage Study Group, Napa Valley, CA, February 27, 2001.
731. Exploring Options in Arthritis. Oak Park Hospital, Oak Park, IL, February 9, 2001.
732. Indications for Cartilage Restoration. American Association of Legal Nurse Consultants, Chicago, IL, February 8, 2001.
733. Cartilage Restoration, Illinois Orthopedic Nursing Association, Chicago, IL, January 31, 2001.
734. 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.
735. Preexisting conditions of the shoulder and knee in the worker's compensation setting. Medical and legal issues in worker's compensation, Itasca, IL, November 28, 2000.
736. Thermal energy and articular cartilage: A clinical overview. Cartilage Study Group, The Hospital for Special Surgery, New York, NY, November 9, 2000.

737. 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.
738. Alternatives to knee arthroplasty, Total Hip and Knee Forum, Chicago Learning Center, Chicago, IL, November 13, 2000.
739. Arthroscopic management of the unstable shoulder, Illinois Association of Orthopaedic Surgeons, Loyola University Medical Center, Maywood, IL, November 4, 2000.
740. 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.
741. 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.
742. Live demonstration, Arthroscopic Bankart repair, AAOS/EEXOT Shoulder and Knee Arthroscopy Course, American Academy of Orthopedic Surgeons, Rosemont, IL, October 20, 2000.
743. Basic Science of Shoulder Instability, Resident Teaching Conference, October 24, 2000.
744. Treatment Algorithm for Chondral Injuries, The State of the Art in Cartilage Repair, Washington University Medical School, October 21, 2000.
745. Thermal Chondroplasty, The State of the Art in Cartilage Repair, Washington University Medical School, October 21, 2000.
746. Clinical Application of Thermal Energy: Shoulder Instability and Chondromalacia-"Should we use it," Pennsylvania Orthopedic Society, University of Pennsylvania, September 30, 2000.
747. Arthroscopic Rotator Cuff Repair: Shoulder Symposium; Sports Medicine Symposium Advanced Arthroscopy: Knee and Shoulder. Duke University, Durham, North Carolina, September 24, 2000.
748. 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.
749. Surgical Decision Making in Cartilage Restoration, National Athletic Trainers' Association 51<sup>st</sup> Annual Meeting, Nashville, Tennessee, AOSSM-NATA Exchange Lecture, June 28, 2000.
750. Surgical Management of Symptomatic Chondral Injury, AOSSM-ACSM Exchange Lecture, American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 2, 2000.
751. Evaluation and classification of articular cartilage disease. The Knee: A New Millennium from Robotics to Gene Therapy, Panther Sports Symposium, Pittsburgh, Pennsylvania, May 4-6, 2000.
752. Evaluation and classification of degenerative knee conditions. The Knee: A New Millennium from Robotics to Gene Therapy. Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, May 4-6, 2000.
753. 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.
754. Approaches to the repair of articular cartilage defects, Mid America Orthopedic Association, 18th Annual Meeting, Scottsdale, Arizona, April 29, 2000.

755. Master Instructor, Advanced Techniques in Open and Arthroscopic Shoulder Surgery, American Academy of Orthopaedic Surgery, April 28-30, 2000.
756. Meniscal grafting-update presentation. Allografts in Orthopaedics, Illinois Orthopaedic Society Spring Meeting, Urbana, Illinois, April 7, 2000.
757. Surgical technique for four-part fractures. The Chicago Shoulder Arthroscopy Course, Orthopaedic Learning Center, Chicago, Illinois, April 2, 2000.
758. 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.
759. Open vs. Arthroscopic Surgical Intervention for Shoulder Stabilization. Northwestern Hospital, Chicago, Illinois. January 25, 2000.
760. Electrothermal Arthroscopy Symposium. Applications and Techniques. Menorah Park Medical Center, Overland Park, Kansas, December 16, 1999.
761. 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.
762. 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.
763. 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.
764. 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.
765. 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.
766. 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.
767. Thermal modification of collagen in sports medicine. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Washington, DC, May 30, 1999.
768. Open vs. arthroscopic shoulder stabilization. EBI Sports Medicine Forum, Parsipone, New Jersey, May 14, 1999.
769. Meniscal transplantation. EBI Sports Medicine Forum, Parsipone, New Jersey, May 14, 1999.
770. Cartilage and meniscal transplantation. Total Hip and Knee Forum, Chicago Learning Center, Rush-Presbyterian St. Luke's Medical Center, Chicago, Illinois, April 26, 1999.
771. 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.
772. Contemporary management of shoulder and knee injuries: A primary care physician's perspective. Oak Park Hospital, Oak Park, Illinois, April 23, 1999.

773. Thermal modification of collagen in sports medicine. Milwaukee, Wisconsin, April 22, 1999.
774. Course Director, Autologous cartilage cell transplantation: indications and techniques. Hyatt Hotel, Chicago, Illinois, April 21, 1999.
775. Developments in Cartilage Restoration. The Rush Cartilage Restoration Center, Board of Trustees, Rush-Presbyterian St.-Luke's Medical Center, Chicago, Illinois, April 14, 1999.
776. Advances in cartilage surgery. Midwest Orthopaedics Sports Medicine Seminar, Oak Park, Illinois, March 6, 1999.
777. The multiple ligament-injured knee. Chicago Sports Medicine Society, Chicago, Illinois, February 18, 1999.
778. Enhancing the results of arthroscopic shoulder stabilization with the use of RF. American Academy of Orthopaedic Surgeons, Anaheim, California, February 7, 1999
779. Physical examination of the athlete's shoulder. Accelerated Rehabilitation, Chicago, Illinois, January 21, 1999.
780. The use of thermal energy in sports medicine. Cincinnati Orthopaedic Group, Cincinnati, Ohio, January 20, 1999.
781. 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.
782. Course Director, Autologous cartilage cell transplantation: indications and techniques. Rush-Presbyterian-St. Luke's Medical Center, Chicago, Illinois, November 7, 1998.
783. Joint management and cartilage transplants. Arthritis Foundation Seminar, Oak Lawn Hilton, Chicago, Illinois, October 17, 1998.
784. The use of the FCE in the management of workers compensation shoulder and knee injuries. FOCUS Rehabilitation, Chicago, Illinois, October 28, 1998.
785. 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.
786. Associate Master Instructor, Summer Institute, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 9-11, 1998.
787. On-the-field management of the fallen athlete. Rush-Presbyterian-St.-Luke's Medical Center Resident Teaching Conference, Chicago, Illinois, August 11, 1998.
788. Management of work-related injuries to the knee. Case Manager's Seminar, Flossmore Physical Therapy, Flossmoor, Illinois, July 21, 1998.
789. Focus on function. Lake Shore Health Care and Rehabilitation Center, Chicago, Illinois, July 15, 1998.
790. Ligament and meniscal injury. The Chicago Orthopedic Board Review, Chicago, Illinois, July 14, 1998.
791. The basic science of orthopaedic tissues. The Chicago Orthopedic Board Review, Chicago, Illinois, July 13, 1998.
792. Management of the degenerative knee in the active patient. Rush-Presbyterian-St.-Luke's Medical Center, Arthritis Foundation, Chicago, Illinois, July 11, 1998.

793. Course Director, Indications and techniques of meniscal allograft transplantation. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, June 27, 1998.
794. Management of the worker's compensation shoulder injury. Case Manager's Seminar, Clyborn Physical Therapy, Chicago, Illinois, June 23, 1998.
795. 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.
796. 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.
797. Shoulder problems in the workplace. Chubb's Insurance Company, Chicago, Illinois, February 13, 1998.
798. Meniscus transplantation: Indications and techniques. HealthSouth, Oak Park, Illinois, February 12, 1998.
799. Cartilage resurfacing techniques. AIG Insurance Company, Springfield, Illinois, January 28, 1998.
800. Management of shoulder instability. Physical Therapy of the North Shore, Northbrook, Illinois, January 22, 1998.
801. Associate Master Instructor, "The Masters Experience" Comprehensive Knee Course. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, January 16-18, 1998.
802. Shoulder Surgery: Focused perspectives on open vs. arthroscopic management. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, December 6, 1997.
803. Open and arthroscopic shoulder Surgery: Current concepts and techniques. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, December 5-7, 1997.
804. Meniscus transplant: Indications, techniques and outcomes. Athletico, Chicago, Illinois, December 2, 1997.
805. Clinical considerations in management of articular cartilage defects. Biochemistry Departmental Lecture, Rush-Presbyterian-St.-Luke's Medical Center, Chicago, Illinois, November 26, 1997.
806. 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.
807. Closed head injuries in the athlete: on the field management. Illinois Trainers Association, Oak Park, Illinois, November 15, 1997.
808. Management of articular cartilage injury. Free Health Seminar, Oak Park Hospital, Oak Park, Illinois, November 1-2, 1997.
809. Marketing your clinical practice-ethically, effectively, economically. Midwest Orthopaedics Annual Staff Meeting and Awards, Chicago, Illinois, October 28, 1997.
810. Living with arthritis and enjoying life to the fullest. St. Margaret Mercy HealthCare Center, Hammond, Indiana, October 25, 1997.
811. Management of articular cartilage injury in the athlete. Oak Park Hospital, Oak Park, Illinois, October 17, 1997.
812. Autologous cartilage cell transplantation-A comparison to traditional techniques. Chubb's Insurance Company, Chicago, Illinois, October 16, 1997.

813. Diagnosis and management of shoulder pain-A primary care physician's perspective. Rush-Prudential HMO, Chicago, Illinois, October 2, 1997.
814. Arthroscopic shoulder stabilization. Congress of the European Society for Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15-17, 1997.
815. Management of arthritis in the active patient-A primary care physician's perspective. Rush-Prudential HMO, Chicago, Illinois, September 11, 1997.
816. Management of the acutely dislocated knee. American Academy of Orthopaedic Surgeons, Summer Institute, Washington, D.C., September 3-7, 1997.
817. Treatment of the unstable shoulder. 1997 National Orthopaedic Resident Program, Chicago, Illinois, August 21-24, 1997.
818. Treatment of multi-ligament knee injury problems. 1997 National Orthopaedic Resident Program, Chicago, Illinois, August 21-24, 1997.
819. Arthroscopic shoulder stabilization. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.
820. Total shoulder arthroplasty. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.
821. 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.
822. Management of PCL injuries in 1997. The Eighth Annual Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, April 17-19, 1997.
823. 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.
824. 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.
825. Sports Medicine Update: Shoulder and Elbow Problems in the Elite Athlete. The Hospital for Special Surgery, New York, New York, May 17, 1995.
826. 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.
827. 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: Decision Making and Treatment Options, Michigan State Orthopedic Society, Troy Michigan, April 9, 2014.
2. SLAP Tears: When to fix and when to watch. Michigan State Orthopedic Society, Troy Michigan, April 9, 2014.
3. Cartilage Restoration: Decision Making and Treatment Options, University of Chicago Grand Rounds, Chicago, IL, May 21, 2013.
4. Complex Decision Making and Cartilage Restoration, Steadman-Phillipon Clinic, Vail, CO, February 4, 2013.
5. Cartilage Restoration: Update and Decision-Making, University of Maryland, Baltimore, MD, January 17, 2013.
6. Achieving Balance in Your Personal Life and Profession, Massachusetts General Harvard Partners Grand Rounds, Boston, MA, November 11, 2012.
7. SLAP Tears, What are they and how and when should they be treated? Grand Rapids Residency (MSU) Grand Rounds, Grand Rapids, MI, September 19, 2012.
8. Non-Arthroplasty Management of Glenohumeral Arthritis, Grand Rapids Residency (MSU) Grand Rounds, Grand Rapids, MI, September 19, 2012.
9. Biologics in Shoulder Reconstruction, Grand Rapids Residency (MSU) Grand Rounds, Grand Rapids, MI, September 19, 2012.
10. The Future of Cartilage Repair, Virginia Orthopedic Society Guest Speaker, Richmond, VA, October 13, 2011.
11. Non-Arthroplasty Resurfacing of the Glenohumeral Joint, Virginia Commonwealth University, Richmond, VA October 14, 2011.
12. Cartilage Restoration: Decision Making and Treatment Algorithm, Virginia Commonwealth University, Richmond, VA October 14, 2011.
13. Cartilage Restoration: Current Thinking and Decision-Making, University of Virginia, Charlottesville, VA, August 31, 2011.
14. Cartilage Restoration, Rush University Grand Rounds, Rush University Medical Center, April 28, 2010.
15. Failed Shoulder Instability: Pearls and Pitfalls, University of Buffalo, Buffalo, NY, April 29, 2010.
16. Cartilage Restoration: Clinical Update, University of Buffalo, Buffalo, NY, April 29, 2010.
17. Cartilage Restoration: Clinical Update and Treatment Algorithm, Vanderbilt University, Nashville, TN, January 28, 2010.
18. MRI of the Shoulder: From the Magnet to the Clinic to the Operating Room, Vanderbilt University, Nashville, TN, January 28, 2010.
19. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, University of Illinois, Chicago, IL, April 11, 2009.
20. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Columbia University, New York, NY, February 27, 2009.

21. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Brown University Department of Orthopedic Surgery, Providence, RI, September 17, 2008.
22. 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.
23. 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.
24. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Boston School of Medicine, Boston, MA, March 17, 2008.
25. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Northwestern University, Chicago, IL, February 19, 2008.
26. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, University of Pennsylvania, January 17, 2008.
27. Biologic Joint Replacement of the Knee and Shoulder, Stedman Hawkin's Clinic, Vail CO, December 11, 2008.
28. Cartilage Restoration: Clinical Update. University of Toronto, Toronto, CA, November 30, 2007.
29. Cartilage Restoration of the Knee and Shoulder, Howard University, Washington, DC, September 5, 2007.
30. Cartilage Restoration of the Knee and Shoulder, Kerlan-Jobe Clinic, Los Angelis, CA, October 26, 2006.
31. Cartilage Restoration of the Knee and Shoulder, Georgetown University, Washington, DC, April 18, 2006.
32. Cartilage Restoration of the Knee and Shoulder, University of Chicago, Chicago, IL, April 12, 2006.
33. Arthroscopic Rotator Cuff Repair: Indications and Results, University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
34. Cartilage Restoration of the Knee and Shoulder, University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
35. Cartilage Restoration: Clinical Update and Case Study Didactics, Medical College of Milwaukee, Milwaukee, WI, September 1, 2004.
36. Cartilage Restoration: Clinical Update and Treatment Algorithm. Alexian Brothers Hospital, Elk Grove Village, IL, September 1, 2004.
37. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, Albany University Medical Center, Albany, NY, June 18, 2004.
38. Autologous Chondrocyte Implantation, NY Orthopedic Society, Albany NY, June 17, 2004.
39. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, University of Minnesota, Minneapolis, MN, April 9, 2004.
40. Cartilage Restoration: Clinical Update and Treatment Algorithm. University of California, Irvine, Orange County, CA, July 16, 2003.
41. Cartilage Restoration: Basic Science and Treatment Algorithm. Brown Medical School, Providence, RI, June 11, 2003.

42. Cartilage Restoration: Clinical and Basic Science Update. University of Iowa, Iowa City, IA, February 25, 2003.
43. Cartilage Restoration: The Treatment Algorithm. University of Wisconsin, Madison, September 25, 2002.
44. Arthroscopic Rotator Cuff Repair: Indications, Techniques, Results. St. James Hospital, Olympia Fields, IL, August 21, 2002.
45. Cartilage Restoration: Clinical and Basic Science Update. Michigan State University Statewide Campus System Orthopaedic Educational Day, August 14, 2002.
46. Cartilage Restoration: *In Vitro to In Vivo*. Combined Grand Rounds of the Department of Anatomy and Biochemistry, Rush University, June 6, 2002.
47. Cartilage Restoration: Clinical and Basic Science Update, Combined Meeting of Grand Rapids Orthopedic Programs, Grand Rapids, MI, May 31, 2002.
48. Cartilage Restoration: Clinical and Basic Science Update, Harvard Medical Center, Boston, MA, March 20, 2002.
49. Allograft Meniscus Transplantation, Mt. Sinai Medical Center, New York, New York, June 13, 2001.
50. Autologous Chondrocyte Implantation, Kentucky Blue Grass Society, University of Kentucky, KY, March 5, 2001.
51. Cartilage Restoration: Indications, Techniques, and Results. The University of Chicago, Chicago, IL, February 7, 2001.
52. Clinical Application of Thermal Energy: Shoulder Instability and Chondromalacia-"Should we use it," New England Baptist Medical Center, Boston, MA, September 27, 2000.
53. 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.
54. Meniscal allograft transplantation, Grand Rounds, Steadman-Hawkins Clinic, Vail, CO, September, 1998.
55. The clinical management of articular cartilage injury in the active patient. Grand Rounds, Northwestern University, Chicago, IL, December 12, 1997.
56. 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. Visiting Sports Medicine Specialist, Cure International Hospital, Kijabe, Kenya, June 8-14, 2013.
2. Sooner Sports Medicine Symposium, Oklahoma City, OK, January 10-11, 2013.
3. Visiting Professor, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 19-21, 2012.
4. Caspari Lectureship, Virginia Commonwealth University, Richmond, VA, October 13-14, 2011.
5. University of Missouri, Columbia, MO, September 5-6, 2011.
6. University of Virginia, Charlottesville, VA, August 30-31, 2011.
7. 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.
8. Society for Orthopedic Military Surgeons, 39<sup>th</sup> Annual Meeting, Vail, CO, December 11, 2007.
9. Oscar Miller Day: Symposium on "Current Concepts in Sports Medicine" OrthoCarolina Research Institute, Charlotte, NC, October 5, 2007.
10. Howard University, Washington, DC, September 4-5, 2007.
11. Kerlan Jobe Clinic, Los Angeles, CA, October 26-27, 2006.
12. 35<sup>th</sup> Annual Raney Visiting Professorship, University of North Carolina Department of Orthopaedics, Chapel Hill, NC, June 1-3, 2006.
13. Taos Orthopedic Fellowship Reunion, Taos, NM, March 28-April 2, 2006.
14. University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
15. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12-17, 2002.
16. 35<sup>th</sup> Annual Northeastern Mid-Atlantic Orthopaedic Residents' Conference, East Brunswick, NJ, October 25, 2002.
17. Helal Hospital, Cairo, Egypt, August 29 - September 5, 2002.
18. Naser Institute, Cairo, Egypt, August 29-September 5, 2002
19. El Zahraa University Hospital, Cairo, Egypt, August 29-September 5, 2002

## VIDEOS

1. Frank RM, Bhatia S, Chalmers PN, Verma NN, **Cole BJ**, Romeo AA, Provencher MT: Distal Tibia Allograft for Management of Anterior Glenoid Bone Loss, AAOS Annual Meeting, New Orleans, LA, March 12, 2014.
2. Frank RM, Chalmers PN, Gupta A, Bhatia S, **Cole BJ**, Verma NN, Provencher MT, Romeo AA: Arthroscopic Distal Tibia Allograft for Management of Posterior Glenoid Bone Loss, AAOS Annual Meeting, New Orleans, LA, March 12, 2014.
3. **Cole BJ**, Slabaugh M, Friel N: Meniscal Allograft Transplantation, AANA, Advanced Arthroscopy of the Knee, Arthroscopy Knee Library, Elsevier, 2009.
4. **Cole BJ**: Arthroscopic SLAP and Bankart Repair, Orthopedic Knowledge Online, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2007.
5. **Cole BJ**: Arthroscopic Rotator Cuff Repair. Surgical Techniques in Orthopedics, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2005.
6. Harner C, **Cole B**: Surgical Management of Knee Dislocations. Video Journal of Orthopaedics, JBJS Video Supplement, September, 2004.
7. **Cole BJ**, Carter TR, Rodeo SA: Allograft meniscus transplantation DVD, *American Academy of Orthopedic Surgeons, Instructional Course Lectures*, Rosemont, Illinois, 2003.
8. **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.
9. **Cole BJ**: Autologous chondrocyte implantation. Surgical Techniques in Orthopedics: Cartilage Restoration of the Knee, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2003.
10. **Cole BJ**: Osteochondral allograft transplantation. Surgical Techniques in Orthopedics: Cartilage Restoration of the Knee, American Academy of Orthopedic Surgery, Rosemont, Illinois, 2003.
11. **Cole BJ**: Open rotator cuff repair: Techniques for soft tissue mobilization, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 1998.
12. Warner JJP, **Cole BJ**: Physical examination of the patient with rotator cuff deficiency. American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 1998.
13. **Cole BJ**, Navarro R, Warner JJP: Acromioclavicular reconstruction: Indications and surgical technique. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.
14. Warner JJP, **Cole BJ**, Navarro R: Open treatment of acromioclavicular separation. American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, March 1998.

## **INTERVIEWS/REVIEWS**

1. Uncovering the Chondrolysis Mystery, Becker's Orthopedic, Spine and Pain Management, November 2, 2011 (<http://www.beckersorthopedicandspine.com/sports-medicine/item/9736-uncovering-the-chondrolysis-mystery-7-insights-to-know>).
2. Imaging Aids Joint Injection, Aspiration Accuracy, Reuters Health Article, February 11, 2011.
3. Cartilage Transplant in Olympic Wrestler offers New Hope, NBC Channel 5 News, Chicago, IL, February 8, 2011.
4. Cartilage Transplantation Gives Rise to First Time Marathon, NBC Channel 5 News, Chicago, IL, October 2 and October 11, 2009.
5. Cultivating Second Chances, American Way Magazine, September 2009.
6. A Drug for Bone Loss May Repair Cartilage, Arthritis Today, Sept 16, 2009.
7. The Use of PRP in Orthopedic Surgery, Channel 7 News, September 3, 2009.
8. Engineering New Alternatives for Cartilage Defects, The Future of Medicine @ Rush Newsletter, Spring/Summer 2009.
9. The Cartilage King, Chicago Journal, April 24, 2009.
10. Minced Cartilage Encourages New Growth in Knee. Outpatient Surgery, April 14, 2009.
11. Cartilage transplants: New hope for damaged knees. Cartilage cells introduced into joints form new cartilage, attach to bones. Chicago Tribune, April 8, 2009.
12. Program and Services Spotlight: Cartilage Restoration at Rush, Rush Physician, March 2009.
13. 10 Knee Specialists to Know, Orthopedic and Spine Practice Review, January 2009.
14. ABC Health Watch, January 8, 2009.
15. New Techniques to Tackle Rotator Cuff Injuries, Wall Street Journal, January 23, 2008.
16. Use of Steroid Injections for Shoulder Pain, Men's Health, December, 2007.
17. Cartilage Implants, WGN, April 13, 2007.
18. Osteochondral Allografts Work, J Knee Surg, Ortho Supersite, April, 2006.
19. "Prolonged Fresh Osteochondral Allografts" Have Legs, Rheumatology News, 5:3, March 2006.
20. Taking care of Athletes, Chicago Magazine, December, 2005.
21. Obesity in the NFL, Chicago Tribune, March 2, 2005.
22. Anabolic Steroid Use in Athletes, NBC Channel 5, March 22, 2005.
23. What makes an Olympic athlete: Genes or Environment, NBC Channel 5, August 25, 2004
24. Lerner Times Newspaper, July 29, 2004, "Chicago White Sox Doctor Also Treats Prosser School Athletes"

25. Exploring alternatives in cartilage transplantation, Dr. Michael Breen, CBS, September 19, 2002.
26. Issues with Arthritis, CAN TV, Channel 21, May 2, 2002.
27. Future promising for cartilage repair, Life Times, BC/BS of Illinois, p 10, May, 2001.
28. Keeping in Step, Rush Annual Report, p 4-5, March, 2001.
29. Medicine takes leap for damaged knee sufferers, The Wheaton Sun, Friday, January 19, 2001.
30. Treatments for the arthritic knee, quoted in a Wall Street Journal article on Tender Joints, November, 2000.
31. Surgical Instruments from the past; quoted in a Chicago Sun-Times article on a surgical museum, May, 2000.
32. Cartilage regenerative techniques, Channel 9 News, August, 2000.
33. Techniques of cartilage restoration, Fox News Channel, August, 2000.
34. Implantation of Carticel tissue for regeneration of cartilage in the injured knee. Medstar Communication, September, 2000.
35. Cartilage regeneration treatment for soft tissue injuries in the knee, AMA Radio News, November, 2000
36. Surgery regenerates knee cartilage, Chicago Sun-Times, July 2000
37. The Cartilage Restoration Center at Rush, Fox TV, July 2000
38. Saving knees, WGN TV, July 2000.
39. Forging an efficacious link, Orthopedic Technology Review, Vol 2, No. 1, pages 16-17. Dec/ Jan, 2000.
40. Engineering Tissue Implants, Orthopedic Technology Review, Vol 1, No 1, pages 21-24, April/May, 1999.
41. New news for knees, Focus Elmhurst, The Elmhurst Press, Page 3, June 16, 1999.
42. Wear and tear: Proper evaluation first step in recovering from knee injury, Chicago Tribune, Tempo, March 4, 1999, page 3.
43. Autologous cartilage cell transplantation, TCI Cable, Channel 26, February 15, 1999.
44. The Cartilage Restoration Center, Ivanhoe Broadcast News, 138 cities, February-March, 1999.
45. Cartilage transplantation in the active patient, FOX TV Health Watch, February 11, 1999.
46. Autologous cartilage implantation, Public Affairs Outlook, Channel 43, February 2, 1999.
47. Autologous cartilage implantation, Coffee Club, WLPO 1220 AM radio, January 29, 1999.
48. Autologous cartilage implantation, The Libby Collins Show, WJOB 1230 AM, January 19, 1999.
49. Meniscus transplants as a solution for the post-meniscectomized knee, WNBC TV, September, 1998.
50. Arthroscopic and open shoulder stabilization with similar results. Orthopaedics Today, pp. 6-7, August, 1998.
51. Lane K: Centers find ways to improve economics in orthopaedics: Knowing the code. Health Measures, pp. 29-30, May, 1997.

## **CONTINUING MEDICAL EDUCATION**

1. American Academy of Orthopedic Surgeons, Annual Meeting, New Orleans, LA, March 11-15, 2014 (38.5 Hours, Category 1).
2. AANA Specialty Day, New Orleans, LA, March 15, 2014 (2 Hours, Category 1).
3. AOSSM Specialty Day, New Orleans, LA, March 15, 2014 (2 Hours, Category 1).
4. ASES Specialty Day, New Orleans, LA, March 15, 2014 (2 Hours, Category 1).
5. Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 23-24, 2014 (25 Hours, AMA Category 1).
6. 14<sup>th</sup> Annual International Sports Medicine Fellows Conference, Carlsbad, CA, January 17-19, 2014.
7. Emerging Techniques in Orthopedics, Las Vegas, December 5-7, 2013 (30 Hours, AMA Category 1).
8. Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013 (12 Hours, AMA Category 1).
9. Arthroscopy Association of North America Fall Course, Las Vegas, NV, November 6-8, 2013 (24 Hours, Category 1).
10. Advances in Knee Surgery: Articular Cartilage, Rosemont, IL, October 18-21, 2013 (16.5 AMA Category 1).
11. ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013 (17 Hours, AMA Category 1)
12. Articular Cartilage Preservation/Transplantation Techniques, AAOS/AAHKS, Chicago, IL, July 16, 2013 (1.5 Hours, Category 1).
13. AOSSM Annual Meeting, Chicago, IL, July 11-14, 2013 (13.75 Hours, Category 1).
14. Herodicus Annual Meeting, July 6-8, 2013, Kohler, WI (15.5 Hours, Category 1).
15. Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 19, 2013 (6 Hours, Category 1).
16. Annual Cherry Blossom Society Meeting, Arlington, VA, April 6, 2013 (3.5 Hours, Category 1).
17. AAOS Annual Meeting, Chicago, IL March 20-22, 2013 (38.5 Hours, Category 1).
18. ASES Specialty Day, Chicago, IL, March 23, 2013 (8 Hours, Category 1).
19. ICL: Shoulder Instability: Anterior, Posterior and MDI, AAOS Annual Meeting, March 22, 2013 (2 Hours, Category 1).
20. ICL: Cartilage Repair in the Knee, AAOS Annual Meeting, March 21, 2013 (2 Hours, Category 1).
21. Sooner Sports Medicine Symposium, University of Oklahoma, Norman, OK, January 11, 2013. (6.5 Hours, AMA Category 2).
22. 2<sup>nd</sup> Annual Emerging Techniques in Orthopedics-An International Perspective, Las Vegas, NV, December 7-8, 2012. (12 Hours, AMA Category 1).
23. American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.



24. AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 8-10, 2012 (24 Hours, AMA Category 1).
25. CEDIR AMA 6<sup>th</sup> Edition AMA Disability Rating, November 2, 2012, Oakbrook, IL (7 Hours, AMA Category 1).
26. 17<sup>th</sup> Annual Boston Sports Medicine Symposium, Waltham, MA, Oct 26-27, 2012 (8 Hours, AMA Category 1).
27. 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 19-21, 2012.
28. The Masters Experience in Advance sin Knee Surgery: Cartilage Focus: AANA OLC Course, Rosemont, IL, October 5-7, 2012 (16.5 Hours, AMA Category 1).
29. Managing Shoulder Arthritis: Reverse Shoulder Replacement. Midwest Orthopedics at Rush Shoulder Seminar, Oakbrook, IL, October 25, 2012.
30. 2012 National Capital Knee Symposium, Ottawa, ON, September 20-21, 2012 (6 Hours, Category 1).
31. Las Vegas Shoulder Course, September 13-14, 2012 (3.25 AMA Category 1).
32. Annual Meeting of the American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012 (14.74 Hours, Category 1).
33. ICLs at Annual Meeting of the American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012 (3 Hours, Category 1).
34. San Diego Shoulder Course, San Diego, CA, June 20-22, 2012 (15.25 Hours, Category 1).
35. Sports Medicine Imaging: State of the Art, New York, NY, May 22, 2012 (2 Hours, Category 1).
36. International Cartilage Repair Society Annual Meeting, Montreal, CA, May 11-13, 2012 (22.25 Hours, Category 1).
37. Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012 (21.75 Hours, Category I).
38. American Medical Society of Sports Medicine, Atlanta, GA, April 22, 2012 (6 Hours, Category 1).
39. Argentinian Arthroscopy Association Annual Meeting, Buenos Aires, Argentina, April 19-21, 2012,
40. 31<sup>st</sup> Annual Cherry Blossom Seminar, Arlington, VA, March 30-April 1, 2012 (16.5 Hours, Category 1).
41. American Board of Orthopedic Surgery Re-Certification (60 Hours, Category 1).
42. AAOS Annual Meeting, S.F., CA, February 8-10, S.F., California (38.5 Hours, Category 1).
43. ICL: Stress Management and Balance for the Orthopaedic Surgeon, AAOS Annual Meeting, S.F., CA, February 8, 2012 (2 Hours, Category 1).
44. ICL: Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, S.F., CA, February 9, 2012 (2 Hours, Category 1).
45. ICL: Arthroscopic Management of Shoulder Instabilities: Anterior, Posterior and Multidirectional. AAOS Annual Meeting, S.F., CA, February 10, 2012 (2 Hours, Category 1).
46. ASES Specialty Day, AAOS Annual Meeting, February 11, 2012 (2 Hours, Category 1)

47. AOSSM Specialty Day, AAOS Annual Meeting, February 11, 2012 (8 Hours, Category 1)
48. AANA Specialty Day, AAOS Annual Meeting, February 11, 2012 (3 Hours, Category 1)
49. Annual Metcalf Sports Medicine Meeting, Phoenix, AZ, January 14-17, 2012 (31 Hours, Category 1).
50. Emerging Techniques in Orthopedics: Spots Medicine and Arthroscopic Surgery, December 8-10, 2011, Las Vegas, Nevada (20.5 Hours, Category 1).
51. AANA Fall Meeting, Palm Desert, CA November 16-18, 2011 (24 Hours, Category 1).
52. AANA Masters Experience Course, Rosemont, IL, October 28-31, 2011 (16.5 Hours, Category 1)
53. AAOS Top Controversies, New York, NY, October 15, 2011 (9 Hours, Category 1).
54. Arthrex Biologic Shoulder and Knee Symposium, Irvine CA, Orange County, October 7-8, 2011.
55. Orthopedic Surgery Controversies, NAPA 2011. Napa, CA, October 5-7, 2011 (19 Hours, Category 1).
56. Arthrex Shoulder Symposium, Naples, FL, September 25-26, 2011.
57. Articular Cartilage: State of the Art 2011, May 21, 2011, NYU School of Medicine, NY, NY (8.25 Hours, Category 1).
58. American Society of Sports Medicine, Annual Meeting, Annual Meeting, San Diego, CA, July 7-10, 2011 (15 Hours, Category 1).
59. Texas Orthopedic Association Annual Meeting, May 20, 2011, Austin, Texas (6.0 Hours, Category 1).
60. American Osteopathic Association of Orthopedics, May 13, 2011, Scottsdale, AZ (4 Hours, Category 1).
61. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14-16 (12 Hours, Category 1).
62. 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).
63. 30<sup>th</sup> Annual Cherry Blossom Seminar, Washington, DC, April 1-3, 2011 (16.5 Hours, Category 1).
64. Arthroscopic Surgery, 2011. Robert Metcalf and AANA Meeting, March 24-27, 2011 (28 Hours, Category 1).
65. AOSSM Specialty Day, 77<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 19, 2011 (3.5 Hours, Category 1).
66. ASES Specialty Day, 77<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 19, Feb 19, 2011 (3.5 Hours, Category 1).
67. 77<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, Feb 16-18, 2011 (27 Hours, Category 1).
68. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, San Diego, CA, Feb 18, 2011 (2 Hours, Category 1).
69. 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).

70. ICL: Arthroscopic Management of Shoulder Instabilities, Management of Concomitant SLAP and Labral Tears, AAOS, San Diego, CA, Feb 16, 2011 (2 Hours, Category 1).
71. Complex Reconstruction of the Knee with Co-Morbidities, 11<sup>th</sup> Annual Cartilage Symposium, Carlsbad, CA, January 14, 2011.
72. Case-Based Cartilage Transplantation, Advanced Concepts Course, Genzyme, Inc., Rosemont, IL, November 20, 2010 (4 Hours, AMA Category 1).
73. New England Baptist Hospital Continuing Medical Education, Boston, MA October 29-October 30, 2010 (12 Hours, AMA Category 1).
74. American Shoulder and Elbow Surgeons 2010 Annual Meeting, Scottsdale, AZ, Oct 21-23, 2010 (10.5 Hours, Category 1).
75. 54<sup>th</sup> 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).
76. Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 14-16, 2010 (17.75 Hours, Category 1).
77. The Shoulder Center of Kentucky 13<sup>th</sup> Annual Shoulder Symposium, The Rotator Cuff and Master Athlete, Lexington, KY, July 30-31, 2010 (14.75 Hours, Category 1).
78. American Society for Sports Medicine, Providence, Rhode Island, July 15-July 17, 2010 (15 Hours, Category 1)
79. 2010 Annual AANA Meeting; May, 20, 2012, Hollywood, FL (15.75 Hours, Category I)
80. AAOS/AOSSM Annual Sports Medicine Course, February 11-14, 2010, Bonita Springs, FL.
81. AOSSM Specialty Day, 76<sup>th</sup> Annual Meeting of the AAOS, New Orleans, LA, March 13, 2010 (3.5 Hours, Category 1).
82. AANA Specialty Day, 76<sup>th</sup> Annual Meeting of the AAOS, New Orleans, LA, March 13, 2010 (3.5 Hours, Category 1).
83. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, New Orleans, LA, March 11, 2010 (2 Hours, Category 1).
84. 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).
85. Arthroscopic Management of Complications Related to Shoulder Instability, AAOS, New Orleans, LA, March 12, 2011 (2 Hours, Category 1).
86. 76<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, New Orleans, LA, Mar 10-13, 2010 (27 Hours, Category 1).
87. Arthroscopy Association of North America, 28<sup>th</sup> Annual Fall Course, Palm Desert, CA (12 Hours, Category 1).
88. AANA Articular Cartilage Course, October 19-11, 2009, OLC Rosemont, IL (15 Hours, Category 1).
89. AAOS-SIA Annual Meeting, Rome, Italy, September 30-October 3, 2009, Rome, Italy.
90. AOSSM Annual Meeting, Keystone, CO, July 9-12, 2009 (15 Hours, Category I).

91. ICL 101 AOSSM Annual Meeting, Keystone, CO, July 9, 2009 (1.5 Hours, Category I).
92. Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, IL, April 3-4, 2009 (16.5 Hours, Category I)
93. 10<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines. Steamboat, CO, March 11-15, 2009 (24.75 Hours, Category I).
94. AOSSM Specialty Day, 75<sup>th</sup> Annual Meeting of the AAOS, Las Vegas, Nevada, Feb 27, 2009 (3.5 Hours, Category 1).
95. AANA Specialty Day, 75<sup>th</sup> Annual Meeting of the AAOS, Las Vegas, Nevada, Feb 27, 2009 (3.5 Hours, Category 1).
96. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, Las Vegas, Nevada, Feb 26, 2009 (2 Hours, Category 1).
97. 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).
98. Arthroscopic Management of Complications Related to Shoulder Instability, AAOS, Las Vegas, Nevada, Feb 26, 2009 (2 Hours, Category 1).
99. 75<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Las Vegas, Nevada, Feb 25-27, 2010 (27 Hours, Category 1).
100. Arthroscopic Surgery 2009, 1<sup>st</sup> Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, January 31-February 3, 2009 (15 Hours, Category I).
101. 24<sup>th</sup> Annual Closed Shoulder and Elbow Society Meeting, Santa Barbara, CA, September 4-6, 2008 (11.75 Hours, Category 1).
102. Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008 (12 Hours, Category 1).
103. AAOS/ASES Arthroscopic Management of Rotator Cuff Disease and Instability, July 18-19, 2008 (20 Hours, Category 1).
104. AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008 (14 Hours, Category 1).
105. Cartilage Innovation Summit 2008, Cleveland, Ohio, May 9, 2008 (8.5 hours, Category 1)
106. 27<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Washington DC, April 24, 2008 (8 Hours, Category 1).
107. AOSSM Specialty Day, AAOS Annual Meeting, San Francisco, CA, March 8, 2008 (7 Hours, Category 1).
108. 75<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 5-7, 2008 (27 Hours, Category 1).
109. 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008 (19 Hours, AMA Category I).
110. Arthroscopic Surgery, 2008: Annual Metcalf Meeting, Sun Valley, Idaho, February 2-5, 2008.
111. AAOS/ASES Open and Arthroscopic Techniques in the Shoulder, January 18-19, 2008 (18 Hours, Category, 2008).

112. 89<sup>th</sup> Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 15-16, 2007 (15.75 Hours, Category 1).
113. 21<sup>st</sup> Annual Kerlan Jobe Alumni Meeting, Calgary, CA, July 13, 2007 (4 Hours, Category I).
114. 2007 AOSSM Allograft Workshop, Calgary, CA, July 11, 2007 (7 Hours, Category II).
115. AOSSM Annual Meeting, Calgary, CA, July 12-15, 2007 (14 Hours, Category I).
116. 24<sup>th</sup> Annual San Diego Shoulder Meeting: Arthroscopy, Arthroplasty and Fractures, San Diego, CA, June 20-23, 2007 (36 Hours, Category 1).
117. Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, June 9, 2007 (8 hours, Category 1).
118. 33<sup>rd</sup> Annual Meeting of the Herodicus Society, May 25-26, Florence Italy (8 hours, Category 1).
119. 6<sup>th</sup> Biannual ISAKOS Meeting, May 27-May 30<sup>th</sup>, Florence Italy.
120. 74<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-16, 2007 (27 Hours, Category 1).
121. 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).
122. 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).
123. 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).
124. Arthroscopy Association of North America, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
125. American Academy of Sports Medicine, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
126. American Shoulder and Elbow Society, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
127. Zimmer 21<sup>st</sup> Annual Vail Orthopaedic Symposium, Vail, CO, January 24-26<sup>th</sup>, 2007 (14 Hours, Category 1).
128. Orthopedics Today 2006, NY, NY, November 11-12, 2006 (12.5 Hours, Category 1).
129. 88<sup>th</sup> Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 10, 2006 (16 Hours, Category 1).
130. Management of Cartilage Injury in the Athlete, 2<sup>nd</sup> Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
131. American Shoulder and Elbow Surgeons Closed Annual Meeting, Chicago, IL, September 13-15, 2006 (11.75 Hours, Category 1).
132. Biologics in Shoulder Surgery, September 16, 2006 (7 Hours, Category 1)
133. AAOS/ASES The Shoulder: An Arthroscopic Odyssey, OLC Rosemont, IL, July 28-29, 2006 (20 Hours, Category 1).

134. 32<sup>nd</sup> Annual Herodicus Meeting, Hershey, PA, June 26-28, 2006 (8 Hours, Category 1).
135. American Orthopaedic Society for Sports Medicine, Hershey, PA, June 28-July 1, 2006 (13.5 Hours, Category 1).
136. Management of Arthritis in the Upper Extremity of the Athlete, AOSSM ICL, July 1, 2006 (1.5 Hours, Category 1).
137. Management of Arthritis in the Lower Extremity of the Athlete, AOSSM ICL, June 30, 2006 (1.5 Hours, Category 1).
138. 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 18-21, 2006 (13.75 Hours, Category 1).
139. On the Forefront: Evolution on the Management of Articular Cartilage Injury, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 21, 2006 (2.5 Hours, Category 1).
140. Allografts for Knee Surgery, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 20, 2006 (2.5 Hours, Category 1).
141. Controversies in Arthroscopic Shoulder Stabilization, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 19, 2006 (2.5 Hours, Category 1).
142. Meniscal Allograft Transplantation, ICL at 73<sup>rd</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 26, 2006 (2 Hours, Category 1).
143. 73<sup>rd</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 23-26, 2006 (24 Hours, Category 1).
144. AOSSM Specialty Day, 73<sup>rd</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 25, 2006 (7 Hours, Category 1).
145. AANA Specialty Day, 73<sup>rd</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 25, 2006 (7 Hours, Category 1).
146. ASES Specialty Day, 73<sup>rd</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 25, 2006 (7 Hours, Category 1).
147. The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 19-22, 2006 (23.5 Hours, Category 1).
148. The Shoulder: Arthroscopic and Open Techniques, AAOS/ASES, OLC, Chicago, IL, January 22-22, 2006 (22 Hours, Category 1).
149. International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 8-11, 2006 (25 Hours, Category 1).
150. Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006 (8 Hours, Category 2).
151. Comprehensive Approaches to Articular Cartilage Repair and Management, Carlsbad, CA, January 6-8, 2006. (6 Hours, Category 1).
152. 42<sup>nd</sup> Congress of the Argentinean Orthopedic and Traumatology Society, Buenos Aires, Argentina, December 5-8, 2005 (38 Hours, Category 1).

153. American Academy of Orthopaedic Surgeons, Evidence Analysis Workshop, Chicago, IL, November 21, 2005 (6.75 Hours, Category 1).
154. 22<sup>nd</sup> Annual Closed Meeting of the American Shoulder Elbow Surgeons, Palm Beach, FL, November 10-12, 2005 (11.75 Hours, Category 1).
155. Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26-28, 2005 (21 Hours, Category 1).
156. Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005 (22 Hours, Category 1).
157. 31<sup>st</sup> Annual Meeting of the Herodicus Society, Vail, Colorado, July 9-12, 2005 (12 Hours, Category 1).
158. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 14-17, 2005 (13.5 Hours, Category 1).
159. 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).
160. 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).
161. San Diego Shoulder Course: Arthroplasty, Arthroscopy and Fractures, San Diego, CA, June 22-25, 2005 (21.5 Hours, Category 1).
162. Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005 (4 Hours, Category 1).
163. Arthroscopy Association of North America 24<sup>th</sup> Annual Meeting, Vancouver, BC, Canada, May 12-14, 2005 (14.5 Hours, Category 1).
164. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Miami, FL, April 3-7, 2005 (32 Hours, Category 1).
165. 6<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 9-12, 2005 (24 hours, Category 1).
166. 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 23-27 (24 Hours, Category 1).
167. AOSSM Specialty Day, Washington, DC, February 26, 2005 (7 Hours, Category 1).
168. Arthroscopic Surgery 2005: Metcalf Meeting, Tucson, AZ, January 20-23, 2005 (25 Hours, Category 1).
169. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, GA, January 15-16, 2005 (10 Hours, Category 1).
170. 5<sup>th</sup> Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 10-12, 2004.
171. 21<sup>st</sup> Annual Closed Meeting of the American Shoulder Elbow Surgeons, New York, NY, Sept 29<sup>th</sup> – Oct 2, 2004 (11 Hours, Category 1).
172. The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 16-18, 2004 (22 Hours, Category 1).

173. American Orthopaedic Society for Sports Medicine, Annual Meeting, Quebec City, June 24-27, 2004 (13.5 Hours, Category 1).
174. Instructional Course Lecture, Consumer Reports: Implants and Devices in Sports Medicine, AOSSM Annual Meeting, Quebec City, June 25, 2004 (1.5 Hours, Category 1).
175. Instructional Course Lecture, Cartilage Injury in the Athlete, AOSSM Annual Meeting, Quebec City, June 26, 2004.
176. Surgical Treatment Options for Knee Injuries and Disorders, AAOS, Rosemont, IL April 30-May 2, 2004 (21 Hours, Category 1).
177. 71<sup>st</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 10-14, 2004 (24.5 Hours, Category 1).
178. American Orthopaedic Society for Sports Medicine Specialty Day, San Francisco, CA, March 13, 2004 (7.7 Hours, Category 1).
179. Arthroscopy Association of North America Specialty Day, San Francisco, CA, March 13, 2004 (7.7 Hours, Category 1).
180. Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15-18, 2004 (19.5 Hours, Category 1).
181. Metcalf Arthroscopy Meeting, Sun Valley, Idaho, January 31- February 3, 2004 (26 Hours, Category 1).
182. 18<sup>th</sup> 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)
183. 85<sup>th</sup> Annual Alumni Meeting, The Hospital for Special Surgery, New York, New York, November 6-7, 2003 (14 Hours, Category 1).
184. Total Hip and Knee Forum. Rush University Medical Center, November 17, 2003 (17.5 Hours, Category 1).
185. Shoulder and Elbow: The Essentials. AAOS Orthopedic Learning Center, Chicago, IL, October 31-Nov 2, 2003 (24 Hours, Category 1).
186. The Shoulder II: Open and Arthroscopic Techniques, AAOS OLC, Chicago, IL, September 12-14, 2003 (22 Hours, Category 1).
187. Baltimore Limb Deformity Course. September 7-11, 2003 (8 Hours, Category 1).
188. 29<sup>th</sup> Annual American Orthopedic Society for Sports Medicine, San Diego, CA, July 20-23, 2003 (13.5 Hours, Category 1).
189. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20-22, 2003 (21 Hours, Category 1).
190. Surgical Treatment Options for Complex Knee Injuries and Disorders Course, May 2-4, 2003, OLC, Rosemont, IL (22 Hours, Category 1).
191. 22<sup>nd</sup> Annual Meeting Arthroscopy Association of North America, Phoenix, AZ, April 24-27, 2003 (14.5 Hours, Category 1)
192. Medical & Surgical Approaches to Articular Cartilage Disorders of the Knee, April 12, 2003 (8.5 Hours, Category 1).



193. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5-6, 2003 (10 Hours, Category 1).
194. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, VA, March 28-30, 2003 (16.5 Hours, Category 1).
195. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 12-15, 2003 (13 Hours, Category 1).
196. American Orthopaedic Society for Sports Medicine Specialty Day, New Orleans, LA, February 9, 2003 (7.7 Hours, Category 1).
197. Arthroscopy Association of North America Specialty Day, New Orleans, LA, February 8, 2003 (7.75 Hours, Category 1).
198. American Academy of Orthopaedic Surgeons, 70<sup>th</sup> Annual Meeting, New Orleans, LA, February 6-10, 2003 (24.5 Hours, Category 1).
199. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 5-8, 2002 (31.25 Hours, Category 1).
200. 84<sup>th</sup> Annual Alumni Meeting, The Hospital for Special Surgery, New York, New York, November 7-8, 2002 (11 Hours, Category 1).
201. Arthroscopy and Arthroplasty: New Technology for 2002, 27<sup>th</sup> Annual New Jersey Orthopaedic Society Fall Symposium, East Brunswick, NY, October 26, 2002 (5.5 Hours, Category 1).
202. Advanced Arthroscopic and Open Shoulder Surgery, OLC, Chicago, IL, July 19-21, 2002 (22 Hours, Category 1).
203. 28<sup>th</sup> Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 30-July 3, 2002 (13.5 Hours, Category 1).
204. 19<sup>th</sup> Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002 (35 Hours, Category I).
205. 4<sup>th</sup> Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002 (21 Hours, Category 1).
206. The Shoulder: Current Practice in Open and Arthroscopic Techniques, AAOS Course, OLC, Chicago, IL, May 3-5, 2002 (22 Hours, Category 1).
207. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002 (22 Hours, Category 1).
208. Frontiers in Sports Medicine: The Athlete in 2002, La Jolla, CA, February 28-March 3, 2002 (21 Hours, Category 1).
209. 16<sup>th</sup> 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).
210. American Academy of Orthopaedic Surgeons, 69<sup>th</sup> Annual Meeting, Dallas, TX, February 13-17, 2002 (24.5 Hours, Category 1).
211. Orthopedic Research Society, 48<sup>th</sup> Annual Meeting, Dallas, TX, February 10-13, 2002 (28 Hours, Category 1).
212. Cartilage Transplantation Meeting, 2nd Annual Fellowship Program, Carlsbad, CA, December 7-9, 2001.

213. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001 (8 Hours, Category 1).
214. Comprehensive Surgery for the Athletes Shoulder. AOSSM Surgical Skills Course. Orthopedic Learning Center, Chicago, IL, September 28-30, 2001 (21 Hours, Category 1).
215. Complex Knee Problems: Surgery for the Active Knee. Orthopedic Learning Center, Chicago, IL, July 27-29, 2001 (22 Hours, Category 1).
216. Mitek Sports Medicine Symposium, King Salmon Alaska, July 21, 2001.
217. 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).
218. Mid-America Orthopaedic Association, 19<sup>th</sup> Annual Meeting, Amelia Island, Florida, April 18-22 (19 Hours, Category 1).
219. Total Hip and Knee Forum, Education Design, Chicago, Illinois, March 26-27, 2001.
220. Allografts in Orthopaedics, Illinois Association of Orthopaedic Surgeons, Carle Clinic, Urbana, Illinois, April 6, 2001 (3.25 Hours, Category 1).
221. American Academy of Orthopaedic Surgeons, 68<sup>th</sup> Annual Meeting, San Francisco, CA, February 28-March 4, 2001 (24.5 Hours, Category 1).
222. Orthopedic Research Society, 47<sup>th</sup> Annual Meeting, San Francisco, CA, February 24-28, 2001 (28 Hours, Category 1).
223. American Orthopaedic Society for Sports Medicine Specialty Day, San Francisco, California, March 3, 2001 (7.75 Hours, Category 1).
224. American Shoulder and Elbow Surgeons Specialty Day, San Francisco, California, March 3, 2001 (8.5 Hours, Category 1).
225. Mitek Global Advanced Arthroscopy Knee and Shoulder Sports Medicine Symposium. American Academy of Orthopedic Surgeons, Rosemont, IL, January 20-21, 2001.
226. Orthopedic Clinical Trials: Design, Implementation, and Regulation Issues, AAOS Course, Washington D.C., December 9-10, 2000 (12 Hours, Category 1).
227. 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).
228. 82<sup>nd</sup> Annual Hospital for Special Surgery Alumni Meeting, New York, NY, November 2-3, 2000 (11 Hours, Category 1).
229. The Shoulder: Advances in Open and Arthroscopic Techniques, American Academy of Orthopedic Surgeons, Rosemont, IL, October 27-29, 2000 (22 Hours, Category 1).
230. Evaluation and Management of Common Shoulder Disorders, American Academy of Orthopedic Surgeons, Rosemont, IL, October 28, 2000 (8 Hours, Category 1).
231. The State of the Art in Cartilage Repair, Washington University, October 21, 2000 (4.5 Hours, Category 1).
232. AAOS/EEXOT Shoulder and Knee Arthroscopy Course, American Academy of Orthopedic Surgeons, Rosemont, IL, October 20, 2000 (10 Hours, Category 1).

233. Sports Medicine Symposium. Advanced Arthroscopy: Knee and Shoulder. Duke University, Durham, North Carolina, September 22-24, 2000.
234. Total Hip and Knee Forum, Chicago, Illinois, September 25-26, 2000 (15 Hours, Category 1).
235. 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).
236. 26<sup>th</sup> Annual Meeting of the American Orthopaedic Society for Sports Medicine, Sun Valley, Idaho, June 18-21, 2000 (13.5 Hours, Category 1).
237. 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).
238. Sports medicine research: How to do a Clinical Study, 26<sup>th</sup> Annual Meeting of the American Orthopaedic Society for Sports Medicine, Sun Valley, Idaho, June 18-21, 2000 (1.5 Hours, Category 1).
239. The Knee: A Millenium from robotics to Gene Therapy, The Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, May 4-6, 2000 (27 Hours, Category 1).
240. 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).
241. Mid-America Orthopaedic Association Eighteenth Annual Meeting, Scottsdale, Arizona, April 26-30, 2000 (19 Hours, Category 1).
242. Allografts in Orthopaedics, Illinois Orthopaedic Society Spring Meeting, Urbana, Illinois, April 7, 2000 (3.4 Hours, Category 1).
243. American Academy of Orthopaedic Surgeons, 67<sup>th</sup> Annual Meeting, Orlando, Florida, March 15-19, 2000 (24.5 Hours, Category 1).
244. Arthroscopy Association of North America, Orlando, Florida, March 18, 2000 (7 Hours, Category 1).
245. American Orthopaedic Society for Sports Medicine, Specialty Day, Orlando, Florida, March 18, 2000 (7 Hours, Category 1).
246. American Shoulder and Elbow Surgeons, Specialty Day Program, 16<sup>th</sup> Open Meeting, Orlando, Florida, March 18, 2000 (8.5 Hours, Category 1).
247. 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).
248. 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).
249. Surgical Management for Common Disorders of the Shoulder, American Academy of Orthopaedic Surgeons,, Rosemont, Illinois, December 11, 1999 (9 Hours, Category 1).
250. Hospital for Special Surgery Alumni Association, Eighty-First Annual Meeting, New York, New York, November 4-5, 1999 (11 Hours, Category I).
251. 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).

252. 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).
253. 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).
254. 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).
255. American Orthopaedic Society for Sports Medicine 25th Annual Meeting, Traverse City, Michigan, June 19-22, 1999 (13.5 Hours, Category 1).
256. 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).
257. International Society of Arthroscopy, Knee Surgery and Orthopedic Sports Medicine, Washington, DC, May 29-June 2, 1999 (37.5 Hours, Category 1).
258. Total Hip and Knee Forum, Rush-Presbyterian St.-Luke's Medical Center, April 26-27, 1999 (15 Hours, Category 1).
259. Articular Cartilage Repair: Fact, Fiction or Folly, Illinois Orthopaedic Society, Chicago, Illinois, April 23, 1999 (1 Hour, Category 1).
260. American Academy Orthopaedic Surgeons 66<sup>th</sup> Annual Meeting, Anaheim, California, February 4-8, 1999 (26.5 Hours, Category 1).
261. American Orthopaedic Society for Sports Medicine Specialty Day, Anaheim, California, February 7, 1999 (7.75 Hours, Category 1).
262. American Shoulder and Elbow Surgeons Specialty Day, Anaheim, California, February 7, 1999 (8.5 Hours, Category 1).
263. Arthroscopy Association of North America Specialty Day, Anaheim, California, February 7, 1999 (7.25 Hours, Category 1).
264. The International Cartilage Repair Society, Second Annual Meeting, Boston, Massachusetts, November 15-18, 1998.
265. 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).
266. The Summer Institute, Techniques in Shoulder Surgery, American Academy of Orthopaedic Surgeons, Learning Center, Rosemont, Illinois, September 9-13, 1998 (19 Hours, Category 1).
267. The Summer Institute, Top 10 Orthopaedic Procedures, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 13, 1998 (16 Hours, Category 1).
268. The Chicago Orthopaedic Board Review, Chicago, Illinois, July 13-July 15, 1998 (26.5 Hours, Category 1).
269. The Chicago Orthopaedic Board Review, Chicago, Illinois, July 13-14, 1998 (1.59 Hours, Medical Teaching).
270. New Frontiers in Chondral & Meniscal Surgery, Arthroscopy Association of North America, Orlando, Florida, April 30-May 3, 1998 (1.50 Hours, Category 1).

271. Arthroscopy Association of North America, Orlando, Florida, April 30-May 3, 1998 (24 Hours, Category 1).
272. 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).
273. 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).
274. American Academy Orthopaedic Surgeons 65<sup>th</sup> Annual Meeting, New Orleans, Louisiana, March 19-23, 1998 (26.5 Hours, Category 1).
275. American Orthopaedic Society for Sports Medicine Specialty Day, New Orleans, Louisiana, March 22, 1998 (6.75 Hours, Category 1).
276. American Shoulder and Elbow Surgeons Specialty Day, New Orleans, Louisiana, March 22, 1998 (8.5 Hours, Category 1).
277. "The Master's Experience", Comprehensive Knee Course, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, January 16-18, 1998 (22 Hours, Category 1).
278. Open and Arthroscopic Shoulder Surgery, Current Concepts and Techniques, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, December 5-7, 1997 (22 Hours, Category 1).
279. Tenth Annual Congress of the European Society for Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15-17, 1997.
280. Open and Arthroscopic Shoulder Surgery, Current Concepts and Techniques, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, July 11-13, 1997 (22 Hours, Category 1).
281. American Orthopaedic Society for Sports Medicine Annual Meeting, Sun Valley, Idaho, June 22-25, 1997 (13.5 Hours, Category 1).
282. American Academy Orthopaedic Surgeons 64<sup>th</sup> Annual Meeting, San Francisco, California, February 13-17, 1997 (29.5 Hours, Category 1).
283. The University of Texas Southwestern Medical Center Orthopaedic Review Course, Dallas, Texas, May 10-12, 1996 (25 Hours, Category 1).
284. Osteoporosis Current and Future Approaches to Diagnosis and Management, New York, New York, May 7, 1996.
285. Fourth Annual Symposium, Current Concepts in Knee Reconstructive Surgery, New York, New York, May 2-3, 1996 (17 Hours, Category 1).
286. American Orthopaedic Society for Sports Medicine Specialty Day, Atlanta, Georgia, February 25, 1996 (7 Hours, Category 1).
287. American Shoulder and Elbow Surgeons Specialty Day, Atlanta, Georgia, February 25, 1996 (8 Hours, Category 1).
288. American Academy Orthopaedic Surgeons 63<sup>rd</sup> Annual Meeting, Atlanta, Georgia, February 22-26, 1996 (28.5 Hours, Category 1).
289. Treatment of the Foot and Ankle, Review Course, New York, October 28-29, 1995 (12 Hours, Category 1).

290. 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).
291. New Orleans Residents Basic Course, American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, September 8, 1995 (36 Hours, Category 1).
292. AO/ASIF Residents Basic Course, Operative Treatment of Fractures and Nonunions, New Orleans, Louisiana, August 9-13, 1995 (36 Hours, Category 1).
293. First Annual Sports Medicine Symposium, Cornell University Medical College, New York, May 17-19, 1995 (16 Hours, Category 1).
294. 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. CEDIR Certified, American Academy of Disability Evaluating Physicians, AMA Guides 6<sup>th</sup> Edition, 2012.
2. Allograft meniscus transplantation, Cryolife, Inc., Kennesaw, Georgia, July 10, 1997.
3. Autologous cartilage cell transplantation, Genzyme, Cambridge, Massachusetts, December, 1997.
4. Osteoarticular autograft reconstruction, Arthrex, Inc., Pittsburgh, Pennsylvania, February, 1997.
5. Advanced techniques for autologous cartilage cell transplantation, Genzyme, Cambridge, Massachusetts, March, 1999.