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

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(312) 432-2381 (office)/(708) 409-5179 (fax)

bcole@rushortho.com/www.briancolemd.com

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|--|---|
| APPOINTMENTS:  | <p>May 2018- Present      Managing Partner, Midwest Orthopedics at Rush</p> <p>April 2015- Present      Associate Chairman, Department of Orthopedics, Rush Hospital</p> <p>January 2012-Present      Chairman, Department of Surgery, Rush Oak Park Hospital</p> <p>July 2006-Present      Professor, Department of Orthopedic Surgery</p> <p>   Professor, Department of Anatomy &amp; Cell Biology</p> <p>   Rush Medical College</p> <p>July 2005-Present      Section Head, Cartilage Restoration Center</p> <p>July 2002-July 2006      Associate Professor, Department of Orthopedic Surgery</p> <p>   Associate Professor, Department of Anatomy and Cell Biology</p> <p>   Rush Medical College</p> <p>July 1997-2005      Director, Cartilage Restoration Center</p> <p>   Division of Sports Medicine</p> <p>   Section of Shoulder Surgery</p> <p>July 1997-July 2002      Assistant Professor, Department of Orthopedic Surgery</p> <p>   Rush Medical College</p> |
| OTHER APPOINTMENTS:  | <p>Aug 2020- Present      Medical Staff, Northwest Indiana ER and Hospital</p>  |
| SPORTS MEDICINE FELLOWSHIP:                                  | <p>1996-1997      The University of Pittsburgh</p> <p>   Pittsburgh, Pennsylvania 15213</p>   |
| ORTHOPAEDIC RESIDENCY:                                       | <p>1992-1996      The Hospital for Special Surgery</p> <p>   Cornell Medical Center</p> <p>   New York, New York 10021</p>  |
| ORTHOPAEDIC RESEARCH FELLOWSHIP:<br>METABOLIC BONE DISEASE   | <p>1991-1992      The Hospital for Special Surgery</p> <p>   New York, New York 10021</p>   |
| GENERAL SURGICAL INTERNSHIP:                                 | <p>1990-1991      Loyola University Medical Center</p> <p>   Maywood, Illinois 60153</p>  |
| DOCTOR OF MEDICINE:  | <p>1985-1990      The University of Chicago</p> <p>   Pritzker School of Medicine</p> <p>   Chicago, Illinois 60637</p>   |
| MASTERS IN BUSINESS ADMINISTRATION:<br>HEALTH ADMINISTRATION | <p>1988-1989      The University of Chicago</p> <p>   Graduate School of Business</p> <p>   Chicago, Illinois 60637</p>   |
| BACHELOR OF SCIENCE:<br>BIOLOGY AND PSYCHOLOGY               | <p>1981-1985      The University of Illinois</p> <p>   Champaign, Illinois 61801</p>  |
| LICENSURE/BOARD CERTIFICATION:                               | <p>ABOS Maintenance of Certification</p> <p>ABOS Orthopaedic Surgery Certification 1/2020</p> <p>ABOS Orthopaedic Sports Medicine Certification 1/2022</p> <p>ABOS Re-Certification 1/2012</p> <p>ABOS Sports Sub-Specialty Certification 1/2012</p> <p>ABOS Re-Certification 1/2011</p> <p>American Board of Orthopaedic Surgery (I &amp; II): 7/99 &amp; 7/96</p>   |

**Brian J. Cole, M.D., M.B.A.**

Indiana State License, 01052334C, Activated 1/17/20  
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**

|  |      |
|--|------|
| Healio Honors Recipient  | 2021 |
| America's Best Physicians  | 2021 |
| AAOS Award Winning Author  | 2021 |
| Richard O'Connor Research Award – 2021 AOSSM-AANA Annual Meeting   | 2021 |
| Richard O'Connor Research Award – 2020 AANA Annual Meeting   | 2020 |
| Top 3 Orthopedists in Chicago by ThreeBestRated.com®   | 2020 |
| America's Best Physicians  | 2020 |
| <i>Arthroscopy</i> Best Systematic Review/Meta-analysis Research Award   | 2019 |
| 2019 ICRS World Congress Merit Award – Podium Presentation   | 2019 |
| AAOS Orthopaedic Theatre Award Winner  | 2019 |
| Top 3 Orthopedists in Chicago by ThreeBestRated.com®   | 2019 |
| America's Best Physicians  | 2019 |
| Kappa Delta Award, Predictors of Clinical Outcome Following Revision Anterior Cruciate Ligament Reconstruction | 2019 |
| Excellence in Patellofemoral Research Award – Arthroscopy Association of North America                         | 2018 |
| Top Doctor Award   | 2018 |
| Best Doctors in America  | 2018 |
| America's Best Physicians  | 2018 |
| Tom Heiser Compassionate Physician Award, 32nd Annual Kerlan Jobe Fellowship Reunion                           | 2018 |
| Best Research Project, 30th Annual Thesis Day, Rush University   | 2018 |
| Most Cited Publication Award from <i>Arthroscopy</i> 2012  | 2018 |
| HSS Distinguished Alumnus Award  | 2017 |
| 65 Orthopedic Surgeons Recommended by Orthopedic Surgeons, Becker's Orthopedic Review                          | 2017 |
| AOSSM Fellow Research Award for Clinical Science   | 2017 |
| AANA - J. Whit Ewing Resident/Fellow Essay Award   | 2017 |
| America's Best Physicians  | 2017 |
| Honorary Member National Athletic Trainers' Association  | 2017 |
| Inaugural Steve Gitelis Award for Tissue Transplantation   | 2017 |
| Best Clinical Paper, French Arthroscopy Society Meeting  | 2016 |
| Best Clinical Paper, Orthopaedic Journal of Sports Medicine  | 2016 |
| Fellow Research Award, Leukocyte Poor vs Rich PRP in the Treatment of Osteoarthritis                           | 2015 |
| Resident Research Award, Motion Analysis in Pitchers following Biceps Treatment                                | 2015 |
| ICRS Research Award, Leukocyte Poor vs Rich PRP in the Treatment of Osteoarthritis                             | 2015 |
| AANA J.W. Ewing Resident/Fellow Essay Award: Distal Tibial Allograft for Shoulder Instability                  | 2015 |
| 156 ASC Industry Physician Leaders to Know, Becker's ASC   | 2015 |
| Top 3 Industry Leader in Orthopedics, Beckers ASC  | 2015 |
| 57 Great Orthopedic Surgeons Recommended by Healthcare leaders   | 2015 |
| AAOS Annual Orthopedic Video Theatre Award, Arthroscopic Anterior Shoulder Stabilization                       | 2015 |
| Best Poster, AOSSM Annual Meeting, Glenohumeral Contact Pressures  | 2014 |
| Top 100 Surgeon who Operates in ASC's, Becker Orthopedics  | 2014 |
| Top 4 Knee Surgeons who Take Care of Professional Athletes and Operate in ASCs                                 | 2014 |

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| Top 28 Shoulder Surgeon in America, Orthopedics This Week                                      | 2014 |
| Top 28 Knee Surgeon in America, Orthopedics This Week  | 2014 |
| 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 |

**Brian J. Cole, M.D., M.B.A.**

**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**

|  |      |
|--|------|
| Chicago Sports Council                       |      |
| 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**

|   |           |
|---|-----------|
| President, Arthroscopy Association of North America, 2020-2021        |           |
| NBAPA Treasurer/Secretary   | 2020-2021 |
| ICRS Secretary General  | 2019      |
| MLB Biologics Committee   | 2018      |
| NBA Data Access and Analysis Committee                                | 2018-2019 |
| Second Vice President, AANA Board of Directors, Executive Committee   | 2018-2019 |
| AANA Committee on Committees  | 2017      |
| Member at Large, Nominating Committee of the AOSSM                    | 2016-2017 |
| Treasurer, AANA Board of Directors, Executive Committee               | 2015      |
| ICRS Education and Meeting Committee                                  | 2015      |
| ICRS Strategic Planning Committee                                     | 2015      |
| OLC CEO Search Committee  | 2015      |
| ASES Education Committee  | 2014      |
| AANA Finance Committee  | 2014      |
| AANA Nominating Committee   | 2014      |
| AOSSM Educational Committee   | 2014      |
| 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      |

**Brian J. Cole, M.D., M.B.A.**

|   |           |
|---|-----------|
| 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                 | 2005      |
| 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 University 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 |
| Colorado State University Translational Medicine Institute, Scientific Advisory Board | 2019      |

**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 University Medical Center      | 1997 |
| Sports Medicine Consultant, Master's Hockey League                            | 1998 |
| Sports Medicine Consultant, Lake Shore Athletic Club                          | 1997 |

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**EDITORIAL AND REVIEW RESPONSIBILITIES**

|   |      |
|---|------|
| Biologic Orthopedic Journal   | 2016 |
| Editorial Board, Open Access Journal for Orthopedic Sports Medicine                           | 2013 |
| Editor in Chief, 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-Doodly Publishing   | 1996 |

**TEAM PHYSICIAN/CONSULTANT RESPONSIBILITIES**

|   |              |
|---|--------------|
| Chicago Dogs AAIPB, Team Physician                                | 2018         |
| Giordano Dance Company  | 2014         |
| 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**

|   |      |
|---|------|
| President, ON Foundation, 2020-Present                            |      |
| Medical Correspondent, Nik Wallenda Skyscraper Walk, Discovery TV | 2014 |

**Brian J. Cole, M.D., M.B.A.**

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

2013  
2011-Present

## **RESEARCH ACTIVITIES**

### **RUSH UNIVERSITY 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**

ON/ESSKA Kick-Starter Grant

2021

*Expression of therapeutic cytokines by outgrowth chondrocytes from minced articular cartilage (\$12,000)*

ON Foundation

2020

*Recommendation to Optimize Safety of Elective Surgical Care While Limiting the Spread of COVID-19: Primum Non Nocere – Literature Grant (CHF1,500)*

Arthrex Research Award

2020

*Meniscal Allograft Transplantation with Meniscotibial Ligament Reconstruction (\$23,500)*

AANA Research Award

2020

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| <i>Meniscal Allograft Transplantation with Meniscotibial Ligament Reconstruction (\$30,000)</i>  |      |
| OREF Resident Clinician Scientist Training Grant<br><i>The Influence of Amniotic Membrane and BMAC on Osteoarthritis. (\$20,000)</i>   | 2017 |
| AANA Research Award<br><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<br><i>Validation of Outcomes Measures for Meniscal Allograft Transplantation (\$15,000)</i>  | 2012 |
| AOA Research Award, Principal Investigator<br><i>Removal of the Calcified Layer During Microfracture: How Good are We? (\$5,000)</i>   | 2011 |
| Musculoskeletal Transplant Foundation Young Investigator Award, Principal Investigator,<br><i>AMIC Technique with Collagen Scaffold For Glenoid Resurfacing (\$100,000)</i>  | 2010 |
| Harry Zweig Memorial Grant, Co-Investigator,<br><i>Determining anti-nociceptive and matrix restorative mechanisms of platelet rich plasma (44,646)</i>   | 2010 |
| Arthroscopy Association of North America, Principal Investigator,<br><i>The Effects of Bupivacaine on Rotator Cuff Healing (\$25,000)</i>  | 2009 |
| NIAMS R01 Rush Site PI (Jeffrey Katz, overall PI)<br><i>Partial Meniscectomy vs. Nonoperative Management Of Meniscal Tear with OA, an RCT. (\$650,000/year)</i>  | 2007 |
| 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</i>  | 2004 |



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*State of Cold Preserved Allograft Cartilage Prior to Transplantation* (\$81,000)

NFL Charities Medical Grant, Co-Investigator, *Effects of Thermal Chondroplasty with Radiofrequency Energy* (\$115,300) 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, *Osteochondral Allograft Preservation* (\$25,000) 2000

AlloSource. Co-Principal Investigator, *Preservation of Osteochondral Allografts* (\$360,000) 2000

NIH Grant (R21). Co-investigator, *Cartilage Modification with Radiofrequency Energy* (RFA-AR-99-004) (\$324,000) 1999

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

**Brian J. Cole, M.D., M.B.A.**

**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.

**RUSH SPORTS MEDICINE FELLOWSHIP TRAINEES**

Provisional accreditation by ACGME— 1993,  
Site visit, reviewed and accredited by ACGME— 1995  
Re-reviewed and reaccredited by ACGME— 1998, 2002, 2005, 2011  
Shoulder/Elbow Fellowship –Established 2012

1. D. Daniel Rotenberg, M.D.—1996-97 [Ohio State University]---OASIS MSO, San Diego, CA
2. James D. Ferrari, M.D.—1997-98 [U. Connecticut]---Advanced Orthopedics and Sports Medicine, Denver CO
3. K. Jeffrey Matteoni, M.D.—1998-99 [Akron-Crystal Clinic]---Advanced Orthopedics, Reno, NEV
4. Brian S. Cohen, M.D.—1999-2000 [NY Mt. Sinai]---Adena Regional Medical Center, Chillicothe, OH
5. Michael J. D'Amato, M.D.—1999-2000 [New York Lenox Hill]---Health Partners Specialty Center, St. Paul, MN
6. Mayo A. Noerdlinger, M.D.—2000-2001 [Brown University]---Sports Medicine Atlantic Orthopedists, Portsmouth, NH
7. Robert A. Sellards, M.D.—2000-2001 [LSU]---Florida Orthopedic Specialists, Port St. Lucie, FLA
8. Jeff A. Fox, M.D.—2001-2002 [Vanderbilt University]---Central States Orthopedic Clinics, Tulsa, OK
9. Kevin B. Freedman, M.D.—2001-2002 [U. Pennsylvania]---Rothman Clinic, Philadelphia PA
10. Augustus D. Mazzocca, M.D.—2001-2002 [U. Connecticut]---U Conn
11. Kurt J. Aadalen, M.D.—2002-2003 [Northwestern University]---TRIA Minneapolis, MN
12. Michael Dennis, M.D.—2002-2003 [NY Hospital for Joint Diseases]
13. Raymond Pavlovich, M.D.—2002-2003 [Yale University]
14. Winslow Alford, M.D.-2003-2004 [Brown University]---West Bay Orthopedics, Providence RI
15. Alex Creighton, M.D.-2003-2004 [U. North Carolina]---UNC Chapel Hill, NC
16. Andrew Smith, M.D.-2003-2004 [Brown University]
17. Ed Glenn, M.D.-2004-2005 [Vanderbilt University]---TOA, Nashville TN
18. Kyle Flik, M.D.-2004-2005 [NY Hospital for Special Surgery]---Northeast Ortho, Albany NY
19. L. Pearce McCarty, III, M.D.- 2004-2005 [Harvard University]---Sports & Orthopedic Specialists, Minneapolis, MN
20. Randy Risinger, M.D.- 2004-2005 [U. Vermont]---Hartford Orthopedic Surgery, Hartford CT
21. Christian Latterman, M.D.-2005-2006 [U. Pittsburgh]---U Kentucky
22. Andreas Gomoll, M.D. -2005-2006 [Harvard University]---Harvard, Brigham and Women's Hospital, Boston, MA
23. Ammar Anbari, M.D. -2005-2006 [Temple University]---Norwich Orthopedic Clinic, Norwich CT
24. Patrick McCullough, M.D.-2005-2006 [Harvard University]-Methodist Health System, Houston, TX
25. Anne Colton, M.D.-2006-2007 [U. Penn]---Premier Orthopedics & Sports Medicine, Philadelphia, PA
26. Matt Busam, M.D.- 2006-2007 [Vanderbilt University]---Cincinnati Sports Medicine, Cincinnati, OH
27. J.P. Rue, M.D.-2006-2007 [U.S. Naval Program]-USNA Annapolis, MD
28. Matt Provencher, M.D.-2006-7 [U.S. Naval Program]---USN San Diego, CA---MGH, Harvard, Boston (2013)
29. Michael DeFranco, M.D., 2007-8 [Cleveland Clinic]---CGH Medical Clinic, Sterling IL
30. Jerome DaSilva, M.D., 2007-2008 [U. Western Ontario]-Rebound Orthopedics, Portland OR
31. Champ L. Baker, Jr., M.D., 2007-2008 [U. Pittsburgh]---Hughston Orthopedic Clinic, Columbus GA
32. Dana Piasecki, M.D., 2007-2008 [NY Hospital for Special Surgery]---OrthoCarolina, Charlotte NC

**Brian J. Cole, M.D., M.B.A.**

33. Shane Nho, M.D. 2008-2009 [NY Hospital for Special Surgery]---Midwest Ortho, RUSH Chicago, IL
34. Shane Seroyer, 2008-2009 M.D. [U. Pittsburgh]- Texas Metroplex Institute, Dallas TX
35. Robert Grumet, M.D. 2008-2009 [U. C. Irvine]---Orthopedic Specialty Institute, Orange, CA
36. Joe Wilson, M.D. 2008-2009 [Duke]---Triangle Orthopedics, Raleigh NC
37. Mark Slabaugh, M.D. 2008-2009 [Air Force Academy]---US Air Force, Wilford
38. Joe Barker, M.D., 2009-10 [NY Hospital for Special Surgery]---Raleigh Ortho Clinic, Raleigh NC
39. Jim Kercher, M.D., 2009-2010 [Emory University]---Peachtree Orthopedic Clinic, Atlanta, GA
40. Mike Salata, M.D., 2009-2010 [U. Michigan]---Case Western Reserve Univ. Cleveland OH
41. Eric Strauss, M.D., 2009-2010 [NY Hospital for Joint Diseases]---Hosp Jt Diseases, NYC
42. Neil Ghodadra, M.D. 2010-2011 [RUSH University Medical Center]---SCOI, Los Angeles
43. Seth Sherman, M.D. 2010-2011 [NY Hospital for Special Surgery]---U. Missouri
44. Chad Mather, M.D. 2010-2011 [Duke]---Duke, Durham NC
45. Aman Dhawan, M.D. 2010-2011 [San Antonio Military]---Robert Wood Johnson, Brunswick NJ---PSU Hershey, PA (2014)
46. Jas Chahal, M.D. 2011-2012 [University of Toronto]---Univ Toronto, Toronto CAN
47. Wendell Heard, M.D., 2011-2012 [Brown University]---Tulane University, New Orleans, LA
48. Nathan Mall, M.D. 2011-2012 [Washington University St. Louis]
49. Geoff Van Thiel, M.D., MBA, 2011-2012 [RUSH University Medical Center] ---Rockford Orthopedic Associates, Rockford IL
50. Geoff Abrams, MD 2012-2013 (Stanford)---Stanford
51. Anil Gupta, MD, MBA, 2012-2013 (Duke)--- Florida Orthopedic Institute, U. South Florida, Tampa, FL
52. Joshua Harris, MD, 2012-2013 (Ohio State University)- U Texas Methodist, Houston
53. Frank McCormick, MD 2012-2013 (Harvard)- Holy Cross Orthopedic Institute, Fort Lauderdale
54. Marc Haro, MD PT, ATC 2013-2014 (UVa)-Medical University South Carolina
55. Randy Mascarenhas, MD 2013-2014 (U Manitoba)
56. Thomas Wuerz, MD 2013-2014 (Cleveland Clinic)- Sports and Orthopedic Specialists, Alina Health, Minneapolis MN
57. Adam Yanke, MD 2013-2014 (RUSH University Medical Center)-Midwest Orthopedics at RUSH
58. Lily Bogunovic, MD 2014-2015 (Washington University St. Louis)---WUSL
59. Kirk Campbell, MD 2014-2015 (Hospital for Joint Diseases) --- New York University, New York, NY
60. Mahmoud "Mike" Khair, MD 2014-2015 (Hospital for Special Surgery)
61. Jonathan Riboh, MD 2014-2015 (Duke University)
62. Justin Griffin, MD 2015-16 (UVa)
63. Tim Leureux, MD, MEd 2015-2016 (U Toronto)
64. Eric Makhni, MD, MBA 2015-2016 (Columbia University)
65. Mark McArthy, MD PT 2015-2016 (U Iowa)
66. Alex Weber, MD 2015-2016 (U Michigan)
67. Gregory Cvetanovich, MD 2017-2018 (RUSH University Medical Center)
68. Grant Garcia, MD 2017-2018 (Hospital for Special Surgery)
69. Joseph Liu, MD 2017-2018 (Hospital for Special Surgery) --- Loma Linda University, Loma Linda, CA
70. Natalie Leong, MD 2017-2018 (University of California at Los Angeles)
71. Austin Stone, MD 2017-2018 (Wake Forest University Medical School) --- University of Kentucky, Lexington, KY
72. Ian Dempsey, MD 2018-2019 (University of Virginia)

**Brian J. Cole, M.D., M.B.A.**

73. Benedict Nwachukwu, MD 2018-2019 (Hospital for Special Surgery) --- Hospital for Special Surgery, New York, NY
74. Jourdan Cancienne, MD 2018-2019 (University of Virginia)
75. Kelechi Okoroa, MD 2018-2019 (Henry Ford Health System)
76. Jorge Chahla, MD PhD 2018-2019 (Cedars-Sinai Kerlan Jobe Institute) --- Midwest Orthopaedics at Rush, Chicago, IL
77. Michael Fu, MD 2019-2020 (Hospital for Special Surgery) --- Hospital for Special Surgery, New York, NY
78. Kevin Parvaresh, MD 2019-2020 (University of California, San Diego) --- Orthopaedic Specialty Institute, Orange County, CA
79. Theodore Wolfson, MD 2019-2020 (New York University) --- OrthoConnecticut, Danbury, CT
80. Stephanie Wong, MD 2019-2020 (University of California San Francisco) --- UCSF, San Francisco, CA
81. Justin Drager, MD 2019-2020 (McGill University, University of Missouri) --- Tufts University, Boston, MA
82. Benjamin Kester, MD 2020-2021 (New York University) --- DuPage Medical Group, DuPage, IL
83. Derrick Knapik, MD 2020-2021 (Case Western Reserve) --- Washington University, St. Louis, MO
84. Nicholas Trasolini, MD 2020-2021 (University of Southern California) --- Wake Forest, Winston-Salem, NC
85. Blake Bodendorfer, MD 2020-2021 (Georgetown University) ---
86. Steven DeFroda, MD 2020-2021 (Brown University) --- University of Missouri, Columbia, MO
87. Mario Hevesi, MD, PhD 2021-2022 (University of Minnesota) -- Mayo Clinic

**RUSH SHOULDER FELLOWSHIP TRAINEES**

1. James Hammond, III MD 2011-2012 (Naval Medical Center Portsmouth)
2. Benjamin Bruce, MD 2012-2013 (Brown University)
3. Chris Mellano, MD 2013-2104 (UCLA)
4. Virk Mandeep, MD 2014-2015 (UConn)
5. Michael Charles, MD 2017-2018 (University of Southern California)
6. Stephen Otte, MD 2018-2019 (Michigan State/Spectrum Health)
7. Kevin Rasuli, MD 2019-2020
8. Ryan Quigley, MD, PhD 2020-2021

**Brian J. Cole, M.D., M.B.A.**

**PRIMARY CARE SPORTS MEDICINE FELLOWSHIP TRAINEES**

1. Thomas Wang, M.D. (1996-1997)
2. Wendell Becton, M.D. (1997-1998)
3. Robert Paras, M.D. ((1998-1999)
4. Philip Steele, M.D. (1999-2000)
5. Tais Crawford, M.D. (2000-2001)
6. Eric W. Hilquist, M.D. (2002-2003)
7. Beverlee Brisbin, M.D.(2001-2002)
8. Sandra Bender, M.D.(2003-2004)
9. Seth Shifrin, M.D. (2004-2005)
10. Tara Shaw, M.D. (2005-2006)
11. David Feig, M.D. (2006-2007)
12. Rebecca Carl, M.D. (2007-208)-Children’s Hospital Chicago
13. Krystian Bigosinski, M.D. (2008-2009) –Team physician Uvt
14. Josh Blomgren, D.O. (2009-2010)- Midwest Orthopaedics at Rush
15. Ann Rettig, M.D. (2010-2011)-Northwestern
16. Michael Erickson, M.D. (2011-12)
17. Ryan Cole, M.D. (2012-2013)-Northwestern Health Service
18. Julie Bruene, M.D. (2013-2014)-Midwest Orthopaedics at Rush
19. Jeremy Alland, M.D. (2015-2016)-Midwest Orthopaedics at Rush
20. Nina Yaftali, DO (2017-2018)- White Memorial Medical Center
21. Shannon Powers, DO (2018-2019)- Chicago College of Osteopathic Medicine
22. Caitlin Nicholson (2020-2021)

**RESIDENT TRAINEES: SPORTS/SHOULDER FELLOWSHIPS**

1. David D. Nedeff, M.D.-2000 Hughston Clinic Sports Medicine, Columbus GA
2. David M. Smink, M.D.-2000 Harvard Sports Medicine MGH, Boston, MA
3. Ralph Garretson, M.D-2001 U Pennsylvania Shoulder Fellowship
4. Michael Gordon, M.D.-2002 New England Baptist Sports Fellowship, Boston
5. David Andersson, M.D.-2003 Johns Hopkins Sports Medicine, Baltimore
6. Nikhil N. Verma, M.D. 2003 Hospital for Special Surgery, NYC
7. Paul Beck, M.D. 2004-U. Utah Sports Medicine, Salt Lake City
8. James Bicos, M.D. 2004- U Conn Sports Medicine
9. Eric Berksojn, M.D. 2005 - Harvard Sports Medicine MGH, Boston, MA
10. Dominic Carreira, M.D. 2005- Steadman Hawkins Sports Medicine, Vail CO
11. Joshua A. Alpert, M.D. 2007- Harvard Sports Medicine MGH, Boston, MA
12. Alvin J. Detterline, M.D. 2007- Cincinnati Sports Medicine
13. Gregory H. Lee, M.D. 2007-Kerlan Jobe Sports Medicine, Los Angeles
14. Jordan L. Goldstein, M.D.2008- Emory University, Atlanta, GA
15. Amon W. Ferry, M.D. 2008- Harvard Sports Medicine MGH, Boston, MA
16. Angelo Parameswaren, M.D. 2009 Cincinnati Sports Medicine
17. Neil Ghodadra, M.D. 2010-Rush University Sports Medicine
18. Geoffrey S. Van Thiel, M.D. 2011- Rush Univeristy

**Brian J. Cole, M.D., M.B.A.**

19. Nickolas Garbis, M.D. 2012- Johns Hopkins Shoulder Fellowship, Baltimore
20. Richard Kang, M.D. 2012- Hospital for Special Surgery, NYC
21. Michael B. Ellman, M.D. 2013- Steadman Phillipon Sports Medicine, Vail CO
22. James V. Gregory, M.D. 2013- Wasington Univeristy Shoulder Fellowship, St. Louis
23. Brett A. Lenart, M.D. 2013- Thomas Jefferson University, Philadelphia
24. Adam B. Yanke, M.D., PhD. RUSH University Sports Medicine, Chicago
25. Sanjeev Bhatia, M.D. 2014- Steadman Phillipon Sports Medicine, Vail CO
26. Jon Frank, M.D. 2015- Steadman Phillipon Sports Medicine, Vail CO
27. Rachel Frank, M.D.2016 - Colorado University School of Medicine, Denver, CO
28. Andrew Riff, M.D.2016 - Indiana University School of Medicine, Indianapolis, OH
29. Gregory Cvetanovich, M.D. 2017- The Ohio State University School of Medicine, Columbus, OH

**PUBLICATIONS: PEER-REVIEWED**

1. Lavoie-Gagne O, Huddleston HP, Fu MC, Mehta N, Nwachukwu B, Forlenza EM, Yanke A, **Cole BJ**, Verma NN, Forsythe B. PROMIS Upper Extremity Underperforms Psychometrically Relative to American Shoulder and Elbow Surgeons Score in Patients Undergoing Primary Rotator Cuff Repair. *J Shoulder Elbow Surg.* 2021 Nov 16;S1058-2746(21)00801-6. doi: 10.1016/j.jse.2021.10.021. Epub ahead of print. PMID: 34798272.
2. Evuarherhe A Jr, Condran NB, Gilat R, Knapik DM, Patel S, Wagner KR, Garrigues GE, Romeo A, Verma N, Cole BJ. Defining Clinically Significant Outcomes Following Superior Capsular Reconstruction with Acellular Dermal Allograft. *Arthroscopy.* 2021 Dec 1:S0749-8063(21)01048-3. doi: 10.1016/j.arthro.2021.11.039. Epub ahead of print. PMID: 34863902.
3. Gowd AK, Liu JN, Polce EM, Agarwalla A, Garcia GH, Nicholson GP, **Cole BJ**, Romeo AA, Verma NN. Return to sport following Latarjet glenoid reconstruction for anterior shoulder instability. *J Shoulder Elbow Surg.* 2021 Nov;30(11):2549-2559. doi: 10.1016/j.jse.2021.04.020. Epub 2021 Apr 28. PMID: 33930559.
4. Drager J, Polce EM, Fu M, Nemsick M, Huddleston HP, Forsythe B, Nicholson GP, **Cole BJ**, Verma NN, Garrigues GE. Patients undergoing anatomic total shoulder arthroplasty achieve clinically significant outcomes faster than those undergoing reverse shoulder arthroplasty. *J Shoulder Elbow Surg.* 2021 Nov;30(11):2523-2532. doi: 10.1016/j.jse.2021.02.015. Epub 2021 Mar 9. PMID: 33711501.
5. Forsythe B, Lu Y, Agarwalla A, Ezuma CO, Patel BH, Nwachukwu BU, Beletsky A, Chahla J, Kym CR, Yanke AB, **Cole BJ**, Bush-Joseph CA, Bach BR, Verma NN. Delaying ACL reconstruction beyond 6 months from injury impacts likelihood for clinically significant outcome improvement. *Knee.* 2021 Oct 30;33:290-297. doi: 10.1016/j.knee.2021.10.010. Epub ahead of print. PMID: 34739960.
6. Lu Y, Cohn MR, Baker J, Garrigues G, Nicholson G, Verma N, **Cole BJ**, Forsythe B. Preoperative Opioid Use Predicts Postoperative Opioid Use and Inferior Clinically Notable Outcomes After Total Shoulder Arthroplasty. *J Am Acad Orthop Surg.* 2021 Oct 8. doi: 10.5435/JAAOS-D-21-00319. Epub ahead of print. PMID: 34644714.
7. **Cole BJ**. Building Our Home: Lessons Learned Along the Way. *Arthroscopy.* 2021 Oct;37(10):3004-3009. doi: 10.1016/j.arthro.2021.08.006. PMID: 34602142.
8. Condran NB, Kester BS, Tokish JM, Zumstein MA, Gobezie R, Scheibel M, **Cole BJ**. Nonoperative and Operative Soft-Tissue, Cartilage, and Bony Regeneration and Orthopaedic Biologics of the Shoulder: An Orthoregeneration Network (ON) Foundation Review. *Arthroscopy.* 2021 Oct;37(10):3200-3218. doi: 10.1016/j.arthro.2021.06.033. Epub 2021 Jul 20. PMID: 34293441.
9. Condran NB, Kester BS, Tokish JM, Zumstein MA, Gobezie R, Scheibel M, **Cole BJ**. Nonoperative and Operative Soft-Tissue, Cartilage, and Bony Regeneration and Orthopaedic Biologics of the Shoulder: An Orthoregeneration Network (ON) Foundation Review. *Arthroscopy.* 2021 Oct;37(10):3200-3218. doi: 10.1016/j.arthro.2021.06.033. Epub 2021 Jul 20. PMID: 34293441.
10. Sama AJ, Matichak DP, Schiller NC, Li DJ, Donnally CJ 3rd, Damodar D, **Cole BJ**. The impact of social media presence, age, and patient reported wait times on physician review websites for sports medicine surgeons. *J Clin Orthop Trauma.* 2021 Jul 14;21:101502. doi: 10.1016/j.jcot.2021.101502. PMID: 34350098; PMCID: PMC8319355.
11. Polce EM, Kunze KN, Fu MC, Garrigues GE, Forsythe B, Nicholson GP, **Cole BJ**, Verma NN. Development of supervised machine learning algorithms for prediction of satisfaction at 2 years following total shoulder



- arthroplasty. *J Shoulder Elbow Surg.* 2021 Jun;30(6):e290-e299. doi: 10.1016/j.jse.2020.09.007. Epub 2020 Oct 1. PMID: 33010437.
12. Gilat R, Haunschild ED, Tauro T, Evuarherhe A, Fu MC, Romeo A, Verma N, **Cole BJ**. Distal Tibial Allograft Augmentation for Posterior Shoulder Instability Associated With Glenoid Bony Deficiency: A Case Series. *Arthrosc Sports Med Rehabil.* 2020 Dec 15;2(6):e743-e752. doi: 10.1016/j.asmr.2020.06.005. PMID: 33364612; PMCID: PMC7754527.
  13. Gilat R, Haunschild ED, Tauro T, **Cole BJ**. Recommendation to Optimize Safety of Elective Surgical Care While Limiting the Spread of COVID-19: Primum Non Nocere. *Arthrosc Sports Med Rehabil.* 2020 Apr 27;2(3):e177–83. doi: 10.1016/j.asmr.2020.04.008. Epub ahead of print. PMID: 32342047; PMCID: PMC7183963.
  14. Cotter EJ, Christian DR, Frank RM, Abyar E, Wischmeier D, Yanke AB, Farr J, **Cole BJ**. Survivorship of Patellofemoral Osteochondral Allograft Transplantation. *Arthrosc Sports Med Rehabil.* 2019 Sep 26;1(1):e25-e34. doi: 10.1016/j.asmr.2019.06.003. PMID: 32266337; PMCID: PMC7120803.
  15. Bondar KJ, Damodar D, Schiller NC, McCormick JR, Condrion NB, Verma NN, **Cole BJ**. The 50 Most-Cited Papers on Bankart Lesions. *Arthrosc Sports Med Rehabil.* 2021 Apr 22;3(3):e881-e891. doi: 10.1016/j.asmr.2021.03.001. PMID: 34195658; PMCID: PMC8220616.
  16. Singh H, Knapik DM, Polce EM, Eikani CK, Bjornstad AH, Gursoy S, Perry AK, Westrick JC, Yanke AB, Verma NN, **Cole BJ**, Chahla JA. Relative Efficacy of Intra-articular Injections in the Treatment of Knee Osteoarthritis: A Systematic Review and Network Meta-analysis. *Am J Sports Med.* 2021 Aug 17:3635465211029659. doi: 10.1177/03635465211029659. Epub ahead of print. PMID: 34403285.
  17. Cancienne JM, Dempsey IJ, Garrigues GE, **Cole BJ**, Brockmeier SF, Werner BC. Trends and impact of three-dimensional preoperative imaging for anatomic total shoulder arthroplasty. *Shoulder Elbow.* 2021 Aug;13(4):380-387. doi: 10.1177/1758573220908865. Epub 2020 Mar 2. PMID: 34394735; PMCID: PMC8355644.
  18. Knapik DM, Evuarherhe A Jr, Frank RM, Steinwachs M, Rodeo S, Mumme M, **Cole BJ**. Nonoperative and Operative Soft-Tissue and Cartilage Regeneration and Orthopaedic Biologics of the Knee: An Orthoregeneration Network (ON) Foundation Review. *Arthroscopy.* 2021 Aug;37(8):2704-2721. doi: 10.1016/j.arthro.2021.04.002. Epub 2021 Jun 24. PMID: 34353568.
  19. Sama AJ, Matichak DP, Schiller NC, Li DJ, Donnally CJ 3rd, Damodar D, **Cole BJ**. The impact of social media presence, age, and patient reported wait times on physician review websites for sports medicine surgeons. *J Clin Orthop Trauma.* 2021 Jul 14;21:101502. doi: 10.1016/j.jcot.2021.101502. PMID: 34350098; PMCID: PMC8319355.
  20. Beletsky A, Naveen NB, Tauro T, Southworth TM, Chahla J, Verma NN, Yanke AB, **Cole BJ**. Microdrilling Demonstrates Superior Patient-Reported Outcomes and Lower Revision Rates Than Traditional Microfracture: A Matched Cohort Analysis. *Arthrosc Sports Med Rehabil.* 2021 Apr 6;3(3):e629-e638. doi: 10.1016/j.asmr.2020.10.006. PMID: 34195625; PMCID: PMC8220563.
  21. Bondar KJ, Damodar D, Schiller NC, McCormick JR, Condrion NB, Verma NN, **Cole BJ**. The 50 Most-Cited Papers on Bankart Lesions. *Arthrosc Sports Med Rehabil.* 2021 Apr 22;3(3):e881-e891. doi: 10.1016/j.asmr.2021.03.001. PMID: 34195658; PMCID: PMC8220616.

22. Görtz S, Tabbaa SM, Jones DG, Polousky JD, Crawford DC; MOCA Committee, Bugbee WD, **Cole BJ**, Farr J, Fleischli JE, Getgood A, Gomoll AH, Gross AE, Krych AJ, Lattermann C, Mandelbaum BR, Mandt PR, Mirzayan R, Mologne TS, Provencher MT, Rodeo SA, Safir O, Strauss ED, Wahl CJ, Williams RJ, Yanke AB. Metrics of Osteochondral Allografts (MOCA) Group Consensus Statements on the Use of Viable Osteochondral Allograft. *Orthop J Sports Med.* 2021 Mar 23;9(3):2325967120983604. doi: 10.1177/2325967120983604. PMID: 34250153; PMCID: PMC8237219.
23. Agarwalla A, Gowd AK, Liu JN, Garcia GH, Perry AK, Polce EM, **Cole BJ**, Romeo AA, Verma NN. High Rate of Return to Work by Three Months Following Latarjet for Anterior Shoulder Instability. *Arthroscopy.* 2021 Jul 9:S0749-8063(21)00651-4. doi: 10.1016/j.arthro.2021.06.027. Epub ahead of print. PMID: 34252559.
24. MARS Group, Wright RW, Huston LJ, Haas AK, Pennings JS, Allen CR, Cooper DE, DeBerardino TM, Dunn WR, Lantz BBA, Spindler KP, Stuart MJ, Albright JP, Amendola AN, Andrish JT, Annunziata CC, Arciero RA, Bach BR Jr, Baker CL 3rd, Bartolozzi AR, Baumgarten KM, Bechler JR, Berg JH, Bernas GA, Brockmeier SF, Brophy RH, Bush-Joseph CA, Brad Butler V J, Campbell JD, Carey JL, Carpenter JE, **Cole BJ**, Cooper JM, Cox CL, Creighton RA, Dahm DL, David TS, Flanigan DC, Frederick RW, Ganley TJ, Garofoli EA, Gatt CJ Jr, Gecha SR, Giffin JR, Hame SL, Hannafin JA, Harner CD, Harris NL Jr, Hechtman KS, Hershman EB, Hoellrich RG, Johnson DC, Johnson TS, Jones MH, Kaeding CC, Kamath GV, Klootwyk TE, Levy BA, Ma CB, Maiers GP 2nd, Marx RG, Matava MJ, Mathien GM, McAllister DR, McCarty EC, McCormack RG, Miller BS, Nissen CW, O'Neill DF, Owens BD, Parker RD, Purnell ML, Ramappa AJ, Rauh MA, Rettig AC, Sekiya JK, Shea KG, Sherman OH, Slaughterbeck JR, Smith MV, Spang JT, Svoboda LSJ, Taft TN, Tenuta JJ, Tingstad EM, Vidal AF, Viskontas DG, White RA, Williams JS Jr, Wolcott ML, Wolf BR, York JJ. Association Between Graft Choice and 6-Year Outcomes of Revision Anterior Cruciate Ligament Reconstruction in the MARS Cohort. *Am J Sports Med.* 2021 Jul 14:3635465211027170. doi: 10.1177/03635465211027170. Epub ahead of print. PMID: 34260326.
25. Condrón NB, Kester BS, Tokish JM, Zumstein MA, Gobezie R, Scheibel M, **Cole BJ**. Nonoperative and Operative Soft-Tissue, Cartilage, and Bony Regeneration and Orthopaedic Biologics of the Shoulder: An Orthoregeneration Network (ON) Foundation Review. 2021 Jul 19;S0749-8063(21)00663-0. doi: [10.1016/j.arthro.2021.06.033](https://doi.org/10.1016/j.arthro.2021.06.033). Epub ahead of print.
26. Trasolini NA., Lan R., Bolia IK., Hill W., Haratian A., Hasan LK., Knapik DM., **Cole BJ.**, Weber AE. Knee Extensor Mechanism Complications Following Autograft Harvest in ACL Reconstruction: A Systematic Review and Meta-Analysis. *Arthroscopy* (Submitted 26 July, 2021)
27. Bondar KH, Damodar D, Schiller NC, McCormick JR, Condrón NB, Verma NN, and **Cole BJ**. The 50 Most-Cited Papers on Bankart Lesions. *Journal of Arthroscopy, Sports Medicine, and Rehabilitation.* 2021 Jun. Volume 3, Issue 3, Pages e881-e891. doi: 10.1016/j.asmr.2021.03.001. Epub ahead of print.
28. **Cole BJ**, Gilat R, DiFiori J, Rodeo SA, Bedi A. The 2020 NBA Orthobiologics Consensus Statement. *The Orthopedic Journal of Sports Medicine.* 2021. Doi: 10.1177/23259671211002296
29. Haunschild ED, Gilat R, Lavoie-Gagne O, Fu MC, Tauro T, Forsythe B, **Cole BJ**. Return to Work After Primary Rotator Cuff Repair: A Systematic Review and Meta-analysis. *The American Journal of Sports Medicine.* 2021 Jan. Doi: 10.1177/0363546520975426. Epub ahead of print.
30. Frank R, Gilat R, Haunschild E, Huddleston H, Patel S, Evuarherhe AJ, Knapik D, Drager J, Yanke A, **Cole BJ**. Do Outcomes of Meniscal Allograft Transplantation Differ Based on Age and Sex? A Comparative Group

- Analysis. *Journal of Arthroscopic and Related Surgeries*. 2021 May. doi: 10.1016/j.arthro.2021.05.029. PMID 34052385.
31. Frank RM, Salem HS, Richardson C, O'Brien M, Newgren JM, **Cole BJ**, Verma NN, Nicholson GP, Romeo AA. Clinical Outcomes of Shoulder Stabilization in Females With Glenoid Bone Loss. *Orthopedic Journal of Sports Medicine*. 2021 May. doi: 10.1177/23259671211007525. PMID: 34036113.
  32. Maheshwer B, Wong SE, Polce EM, Paul K, Forsythe B, Joseph CB, Bach BR, Yanke AB, **Cole BJ**, Verma NN, Chahla J. Establishing the Minimal Clinically Important Difference and Patient-Acceptable Symptomatic State After Arthroscopic Meniscal Repair and Associated Variables for Achievement. 2021 May. *Journal of Arthroscopy*. doi: 10.1016/j.arthro.2021.04.058. PMID: 33964390
  33. Huddleston HP, Wong SE, Cregar WM, Haunschild ED, Alzein MM, **Cole BJ**, Yanke AB. Bone Marrow Lesions on Preoperative MRI Correlate with Outcomes following Isolated Osteochondral Allograft Transplantation. 2021 May. *Journal of Arthroscopy*. doi: 10.1016/j.arthro.2021.04.056. PMID: 33964391
  34. Agarwalla A, Gowd AK, Liu JN, Beck EC, **Cole BJ**, Yanke AB, Nicholson GP, Romeo AA, Verma NN, Forsythe B. Predicting Patient Satisfaction With Maximal Outcome Improvement After Biceps Tenodesis. 2021 May. doi: 10.3928/01477447-20210414-07. PMID: 34039198
  35. Waterman BR, Newgren J, Gowd AK, Cabarcas B, Lansdown D, Bach BR, **Cole BJ**, Romeo AA, Verma NN. Randomized Trial of Arthroscopic Rotator Cuff With or Without Acromioplasty: No Difference in Patient-reported Outcomes at Long-term Follow-up. *Journal of Arthroscopy*. doi: 10.1016/j.arthro.2021.04.041. PMID: 33940126
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**Brian J. Cole, M.D., M.B.A.**

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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. 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.
2. **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.
3. Rue JP, **Cole BJ**, Busam 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, Abstract Book Page 23.
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**Brian J. Cole, M.D., M.B.A.**

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**Brian J. Cole, M.D., M.B.A.**

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**Brian J. Cole, M.D., M.B.A.**

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**RESEARCH EXHIBITS/SCIENTIFIC PRESENTATIONS**

1. Gilat R, Haunschild ED, Lavoie-Gagne OZ, Tauro TM, Knapik DM, Fu MC, **Cole BJ**. Outcomes of the Latarjet Procedure Versus Free Bone Block Procedures for Anterior Shoulder Instability: A Systematic Review and Meta-analysis. 40th Annual Meeting of the Israel Orthopedic Association (IOA), December 2020
2. Gilat R, Haunschild ED, Williams BT, Fu MC, Garrigues GE, Romeo A, Verma N, **Cole BJ**. Patient Factors Associated with Clinical Failure Following Arthroscopic Superior Capsular Reconstruction. 40th Annual Meeting of the Israel Orthopedic Association (IOA), December 2020
3. Gilat R, Haunschild ED, Huddleston HP, Tauro T, Patel S, Wolfson T, Parvaresh KC, Yanke AB, **Cole BJ**. Osteochondral Allograft Transplantation for Focal Cartilage Defects of the Knee: Clinically Significant Outcomes, Failures, and Survival at a Minimum 5-Year Follow-Up. 40th Annual Meeting of the Israel Orthopedic Association (IOA), December 2020
4. **Cole BJ**, Haunschild ED, Carter T, Meyer J, Fortier L, Gilat R. A Multi-Center Prospective Study Investigating the Short-Term Clinical Outcomes of BioCartilage with MRI Correlation. 40th Annual Meeting of the Israel Orthopedic Association (IOA), December 2020
5. Beck EC, Gowd AK, Liu J, Nicholson KF, Waterman BR, Forsythe D, Romeo A, **Cole BJ**, Verma N. Defining Maximum Outcome Improvement 1-year After Arthroscopic Rotator Cuff Repair. E-presentation. Southern Orthopaedic Association Annual Meeting. July 22-25, 2020. White Sulphur Springs, WV
6. Fu MC, Haunschild ED, Gilat R, Tauro T, Huddleston H, Wolfson T, Forsythe B, Verma NN, Garrigues G, Nicholson G, **Cole BJ**. Defining Clinically Significant Outcomes for the PROMIS Upper Extremity Questionnaire After Primary Total Shoulder Arthroplasty. 2020 ASES Fellows Virtual Symposium. June 20, 2020. (Poster)
7. MARS Group. Meniscal and Articular Cartilage Predictors of Outcome Following Revision ACL Reconstruction: A 6-Year Follow-up Study. American Academy of Orthopaedic Surgeons 2020 Annual Meeting - Orlando, FL (MEETING CANCELLED due to Covid-19 pandemic).
8. MARS Group. Meniscal and Articular Cartilage Predictors of Outcome Following Revision ACL Reconstruction: A 6-Year Follow-up Study. 19<sup>th</sup> ESSKA Congress - Milan, Italy (MEETING CANCELLED due to Covid-19 pandemic).
9. Beletsky A, Southworth T, Naveen N, Nwachukwu B, Chahla J, Verma N, Yanke, A, **Cole BJ**. Clinically Significant Outcomes after Osteochondral Allograft Surgery. Podium. ICRS World Congress. Vancouver BC. October 5-8, 2019.
10. Yazici Y, Tambiah J, Swearingen C, Strand V, **Cole BJ**, Hochberg M, Bannuru R, McAlindon T. Prospective Comparison of Sham vs Placebo Injections: Data from a Trial of Lorecivivint, a Wnt Pathway Inhibitor for Knee Osteoarthritis. Podium. ICRS World Congress. Vancouver BC. October 5-8, 2019.
11. Southworth T, Naveen N, Beletsky A, Okoroha K, Jildeh T, Tauro T, Verma N, Yanke, A, **Cole BJ** The Effect of BMI on Patient Reported Outcome Scores in Osteochondral Allograft Transplantation. Podium. ICRS World Congress. Vancouver BC. October 5-8, 2019.
12. Southworth T, Naveen N, Tauro T, **Cole BJ**, Yanke, AB. Diagnostic Scope vs. Cartilage Procedure: Who will Progress?. Podium. ICRS World Congress. Vancouver BC. October 5-8, 2019.

**Brian J. Cole, M.D., M.B.A.**

13. Beletsky A, Nwachukwu, Southworth T, Okoroha K, Naveen N, Forsythe B, Verma N, **Cole BJ**, Yanke, A. Performance of PROMIS Instruments in Patients Undergoing ACL Reconstruction Compared to Cartilage Procedures. Podium. ICRS World Congress. Vancouver BC. October 5-8, 2019.
14. Naveen, N, Tauro T, Southworth T, Baker A, Beletsky A, Chahla J, Verma N, Yanke A, **Cole BJ**. Outcomes after Microfracture with Traditional Awl vs. Powerpick Podium. ICRS World Congress. Vancouver BC. October 5-8, 2019.
15. Beletsky A, Skallerud W, Southworth T, Naveen N, Chahla J, Nwachukwu B, Yanke A, Verma N, **Cole BJ**. Return to Sport and Work Following Osteochondral Autograft Transplantation. Podium. ICRS World Congress. Vancouver BC. October 5-8, 2019.
16. Return to Work and Sport After Distal Biceps Repair. Beletsky A, Manderle B, Liu J, Nwachukwu B, Cohen M, Bush-Joseph C, **Cole BJ**, Nicholson G, Wysocki R, Verma N. Poster. American Orthopaedic Society for Sports Medicine 2019 Annual Meeting - Boston, MA. July 2019.
17. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Manderle B, Gowd A, Liu J, Beletsky A, Bush-Joseph C, Cole BJ, Forsythe B, Nicholson G, Verma N. Poster. American Orthopaedic Society for Sports Medicine 2019 Annual Meeting - Boston, MA. July 2019.
18. MARS Group. Effect of Graft Choice on the 6-Year Outcome of a Revision Anterior Cruciate Ligament Reconstruction in the Multicenter ACL Revision Study (MARS) Cohort. American Orthopaedic Society for Sports Medicine 2019 Annual Meeting - Boston, MA. July 2019.
19. Return to Sport and Exercise Following Repair of the Pectoralis Major Tendon Liu J, Gowd A, Garcia G, Manderle B, Beletsky A, Nicholson G, **Cole BJ**, Forsythe B, Verma N. Podium. American Orthopaedic Society for Sports Medicine 2019 Annual Meeting - Boston, MA. July 2019.
20. Anterior Cruciate Ligament Reconstruction with Concomitant Osteochondral Allograft Transplantation versus Anterior Cruciate Ligament Reconstruction: A Comparative Matched-Group Analysis of Return to Sport and Satisfaction. Garcia G, Redondo M, Liu J, Christian D, Yanke AB, **Cole BJ**. Podium. American Orthopaedic Society for Sports Medicine 2019 Annual Meeting - Boston, MA. July 2019.
21. Prospective Randomized Trial of Biologic Augmentation With Mesenchymal Stem Cells In Patients Undergoing Arthroscopic Rotator Cuff Repair. **Cole BJ**, Verma N, Yanke AB, Bach B, Otte RS, Chubinskaya S, Romeo AA, Southworth T, Naveen N. Podium. American Orthopaedic Society for Sports Medicine 2019 Annual Meeting - Boston, MA.
22. MARS Group. Reoperation and Failure Rate at Six Years Following Revision ACL Reconstruction: A MARS Cohort Study. American Orthopaedic Society for Sports Medicine 2019 Annual Meeting - Boston, MA.
23. MARS Group. Does Revision ACL Graft Choice Predict Outcome in Sports Function and Activity Level? The 45<sup>th</sup> Annual Herodicus Society Meeting - Brewster, MA.
24. Christian DR, Redondo ML, Cancienne J, Shewman E, **Cole BJ**, Farr J, Yanke, AB. Biomechanical Effects of Lateral Release on Lateral Patellar Displacement at Varying Flexion Angles. Paper Presentation. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.

**Brian J. Cole, M.D., M.B.A.**

25. Christian DR, Redondo ML, Cancienne J, Shewman E, **Cole BJ**, Farr J, Yanke, AB Differential Contributions of the Quadriceps and Patellar Attachment of the Medial Patellofemoral Complex to the Lateral Patellar Restraint. Paper Presentation. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
26. Lee S, Frank R, Christian D, **Cole BJ**. Failures Following Isolated Osteochondral Allograft Transplantation of the Knee are Associated with Increased Defect Size. Paper Presentation. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
27. Manderle B, Gowd A, Liu J, Beletsky B, Bush-Joseph C, **Cole BJ**, Forsythe B, Nicholson G, Verma N. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. E-Poster. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
28. Agarwalla A, Christian D, Liu J, Redondo M, Yanke AB, **Cole BJ**. Return to Work Following Isolated Opening Wedge High Tibial Osteotomy. Paper 43. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
29. Chahal J, Lansdown D, Davey A, Southworth T, Naveen N, Davis E, **Cole BJ**. The Clinical Important Difference and Patient Acceptable State for Patient-Reported Outcome Measures Among Patients Treated with Knee Cartilage Restoration Procedures. Paper 45. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
30. Lansdown D, Christian D, Madden B, Redondo M, **Cole BJ**, Farr J, Yanke A. The Vertical Tibial Tubercle-Trochlear Groove Distance as a Measurement of Sagittal Imbalance in Patients with Symptomatic Patellofemoral Chondral Lesions. Paper 58. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
31. Redondo M, Christian D, Inoue N, Urita A, **Cole BJ**, Yanke A. Topographic Cartilage and Osseous Matching of a Single Oblong Osteochondral Allograft for Cartilage Defect Treatment on the Medial Femoral Condyle. Paper 56. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
32. Beletsky A, Gowd A, Liu J, Manderle B, Bush-Joseph C, Forsythe B, **Cole BJ**. Clinically Significant Outcomes in Isolated Arthroscopic Partial Meniscectomy: A Multivariate Time-To-Event Analysis. Podium. AANA 2019 Annual Meeting. Orlando, FL. May 2-4, 2019.
33. Forsythe B, Puzzitiello R, Agarwalla A, Liu J, Cvetanovich G, Gowd A, **Cole BJ**, Romeo A, Verma NN. Paper 3: Session 3 Rotator Cuff. Radiostereometric Analysis of Subpectoral vs. Suprapectoral Biceps Tenodesis with Interference Screw Fixation. AAOS Annual Meeting – Specialty Day AANA/AOSSM. Las Vegas, NV. March 12-16, 2019.
34. **Cole BJ**, Liu J, Christian D, Agarwalla A, Garcia G, Redondo M, Yanke A. Paper 9: Session 6 Knee Cartilage, Meniscus and Biologics. Radiostereometric Analysis of Subpectoral vs. Suprapectoral Biceps Tenodesis with Interference Screw Fixation. AAOS Annual Meeting – Specialty Day AANA/AOSSM. Las Vegas, NV. March 12-16, 2019.
35. Liu J, Cabarcas B, Garcia G, Gowd A, **Cole BJ**, Verma N, Romeo A. Return to Sport after Distal Tibial Allograft Glenoid Reconstruction for Recurrent Anterior Shoulder. Paper Presentation 203: Sports Medicine II. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
36. Charles M, Stone A, Redondo M, Christian D, Romeo A, Nicholson G, **Cole BJ**. Survivorship of Pectoralis Major Transfer for the Treatment of Subscapularis Insufficiency. Paper Presentation 203: Sports Medicine II. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.

**Brian J. Cole, M.D., M.B.A.**

37. Liu J, Gowd A, Garcia G, Cabarcas B, Nicholson G, **Cole BJ**, Verma N, Romeo A. Return to Sport Following Latarjet Versus Distal Tibia Allograft for Anterior Shoulder Instability: A Matched Cohort. Paper Presentation 559: Shoulder and Elbow V. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
38. **Cole BJ**, Puzzitiello R, Liu J, Garcia G, Redondo M, Christian D, Yanke A. Return to Sport After Concomitant Meniscal Allograft Transplant and Distal Femoral Varus Osteotomy. Paper Presentation 611: Sports Medicine VI. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
39. Lee S, Frank R, Christian D, **Cole BJ**. Failures Following Isolated Osteochondral Allograft Transplantation of the Knee are Associated with Increased Defect Size. Paper Presentation 614: Sports Medicine VI. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
40. Cabarcas B, Gowd A, Liu J, Garcia G, Manderle B, **Cole BJ**, Verma N, Romeo A. High Rates of Return to Work after Distal Tibial Allograft Glenoid Reconstruction for Recurrent Anterior Shoulder Instability: Average Five-Year Follow Up. Poster 0835: Shoulder and Elbow II. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
41. Cotter E, Naveen N, Wang K, Waterman B, **Cole BJ**, Dodds J. Predictors of Operative Duration in Arthroscopically-Assisted Anterior Cruciate Ligament Reconstruction. P0415: Sports Medicine Poster Session I. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
42. Forsythe B, Agarwalla A, Puzzitiello R, Liu J, Cvetanovich G, Gowd A, Verma N, **Cole BJ**. Timeline for Maximal Subjective Outcome Improvement Following Anterior Cruciate Ligament Reconstruction. P0431: Sports Medicine Poster Session I. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
43. Wang K, Naveen N, Cotter E, Waterman B, **Cole BJ**, Dodds J. Thromboembolic Disease in Arthroscopic Knee Surgery: Incidence and Risk Factors from a Large, Multisurgeon Cohort in North America. P0396: Sports Medicine Poster Session I. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
44. Liu J, Agarwalla A, Garcia G, Christian D, Redondo M, Forsythe B, Yanke A, **Cole BJ**. P0400: Sports Medicine Poster Session I. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
45. Cvetanovich G, Gowd A, Liu J, Nwachukwu B, Cabarcas B, **Cole BJ**, Forsythe B, Romeo A, Verma N. Establishing Clinically Significant Outcome after Arthroscopic Rotator Cuff Repair. P0335: Shoulder and Elbow Session I. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
46. Riff A, Dean R, Naylor A, Sumner S, Verma N, **Cole BJ**, Romeo A, Nicholson G. Clinical Outcomes of Total Shoulder Arthroplasty in Patients 45 Years of Age and Younger. P0292: Shoulder and Elbow Session I. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
47. Waterman B, Newgren J, Gowd A, Cabarcas B, Lansdown D, Bach Jr B MD, **Cole BJ**, Romeo A, Verma N. Randomized Prospective Trial of Arthroscopic Rotator Cuff with or without Acromioplasty: No Difference in Patient-Reported Outcomes at Long-Term Follow Up. P0271: Shoulder and Elbow Session I. AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
48. Y. Yazici, J. Tambiah, C. Swearingen, S. Kennedy, B. Strand, **BJ Cole**, M. Hochberg, R. Bannuru, T. McAlindon. Comparison of Intra-Articular Sham and Vehicle Injection from a Phase 2B Trial of SM04690, A Small-Molecule WNT inhibitor, for Knee Osteoarthritis. World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases 2019. Paris, France. April 4-7 2019.

49. Alexander Beletsky, Brandon Manderle, Joseph N. Liu, Mark S. Cohen, Charles A. Bush-Joseph, **Brian J. Cole**, John J. Fernandez, Robert W. Wysocki, Nikhil N. Verma. Return to Work and Sport Following Distal Biceps Repair. International Congress of Shoulder and Elbow Surgery 2019. Buenos Aires, Argentina. May 23-June 1 2019.
50. Alexander Beletsky, Benedict U. Nwachukwu, Brandon Manderle, Kelechi Okorooha, Brian Forsythe, **Brian J. Cole**, Nikhil N. Verma. A Psychometric Analysis for the Impact of Worker's Compensation Status on PROMIS Upper Extremity and Legacy Outcome Measures in Patients Undergoing Arthroscopic Rotator Cuff Repair. International Congress of Shoulder and Elbow Surgery 2019. Buenos Aires, Argentina. May 23-June 1 2019.
51. Alexander Beletsky, Brandon Manderle, Paria Mirmonsef, Jorge Chahla, Adam B. Yanke, Brian Forsythe, **Brian J. Cole**, Nikhil N. Verma. Age and Sex Influence the Mesenchymal Stem Cell Composition of Bone Marrow Aspirate Concentrate (BMAC). International Congress of Shoulder and Elbow Surgery 2019. Buenos Aires, Argentina. May 23-June 1 2019.
52. Y. Yazici, J. Tambiah, C. Swearingen, S. Kennedy, B. Strand, **BJ Cole**, M. Hochberg, R. Bannuru, T. McAlindon. Comparison of Intra-Articular Sham and Vehicle Injection from a Phase 2B Trial of SM04690, A Small-Molecule WNT inhibitor, for Knee Osteoarthritis. EULAR 2019. Madrid, Spain. June 12-15, 2019.
53. MARS Group. Meniscus Repair in the Setting of Revision ACL Reconstruction: Results from the MARS Cohort. (E-Poster). ISAKOS 12<sup>th</sup> Biennial Congress - Cancun, Mexico.
54. MARS Group. Predictors of Patient Reported Outcomes at Two Years Following Revision ACL Reconstruction in the MARS Cohort. (E-Poster). ISAKOS 12<sup>th</sup> Biennial Congress - Cancun, Mexico.
55. Y. Yazici, J. Tambiah, C. Swearingen, S. Kennedy, B. Strand, **BJ Cole**, M. Hochberg, R. Bannuru, T. McAlindon. Comparison of Intra-Articular Sham and Vehicle Injection from a Phase 2B Trial of SM04690, A Small-Molecule WNT inhibitor, for Knee Osteoarthritis. OARSI: World Congress on Osteoarthritis 2019. Toronto, Ontario, Canada. May 2-5, 2019.
56. MARS Group. Effect of Graft Choice on the Six-Year Outcome of Revision Anterior Cruciate Ligament (ACL) Reconstruction in the Multicenter ACL Revision Study (MARS) Cohort. American Academy of Orthopaedic Surgeons 2019 Annual Meeting - Las Vegas, NV.
57. Katie J. Sikes, Anna McConnell, **Brian J. Cole**, David D. Frisbee. The Role of Glucose Metabolism in a Murine Model of Tendinopathy: A Metabolomics Study. Orthopedic Research Society Annual Meeting 2019. Austin, TX. February 2-5, 2019.
58. Katie J. Sikes, Anna McConnell, **Brian J. Cole**, David D. Frisbee. The Role of Glucose Metabolism in a Murine Model of Tendinopathy: A Metabolomics Study. ORS Tendon Section 2018 Conference. Portland, OR. November 15-17<sup>th</sup> 2018.
59. Joseph N. Liu, Anirudh K. Gowd, Grant H. Garcia, Brandon C. Cabarcas, Gregory P. Nicholson, **Brian J. Cole**, Nikhil N. Verma, Anthony A. Romeo. Return to Sport Following Latarjet Versus Distal Tibia Allograft for Anterior Shoulder Instability: A Matched Cohort Analysis. ASES 2018 Annual Meeting. Chicago, IL. October 11-14, 2018.
60. Brandon C Cabarcas, Joseph N. Liu, Grant H. Garcia, Anirudh K. Gowd, **Brian J. Cole**, Nikhil N. Verma, Anthony A. Romeo. High Rates of Return to Work After Distal Tibial Allograft Glenoid Reconstruction for Recurrent Anterior Shoulder Instability: Average 5-year Follow Up. Poster 14. ASES 2018 Annual Meeting. Chicago, IL. October 11-14, 2018.

61. Brian R. Waterman, Robert Dean, Shreya Veera, **Brian J. Cole**, Anthony A. Romeo, Robert W. Wysocki, Mark S. Cohen, John J. Fernandez. Surgical Repair of Distal Triceps Tendon Injuries: Short-Term Clinical Outcomes and Re-Rupture Rate. Poster 2. ASES 2018 Annual Meeting. Chicago, IL. October 11-14, 2018.
62. Joseph N. Liu, Anirudh K. Gowd, Grant H. Garcia, Brandon C. Cabarcas, Gregory P Nicholson, **Brian J. Cole**. Return to Sport Following Laterjet Versus Distal Tibia Allograft for Anterior Shoulder Instability: A Matched Cohort Analysis. Paper 3. ASES 2018 Annual Meeting. Chicago, IL. October 11-14, 2018.
63. Eric J. Cotter, Charles P. Hannon, Drew A Lansdown, Rachel M. Frank, Brian Robert Waterman, **Brian J. Cole**. Clinical Outcomes of Multiple Osteochondral Allograft Transplantation of the Knee: An Analysis of Snowman Technique and Multifocal Lesions. Paper 137. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
64. Rachel M. Frank, Catherine Richardson, Bonnie Gregory, Shelby Sumner, Michael C. O'Brien, Eamon Bernardoni, Nikhil N. Verma, **Brian J. Cole**, Gregory Nicholson, Matthew T. Provencher, Anthony A. Romeo. 90-Day Complications Following the Distal Tibia Allograft Procedure. Paper 134. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
65. Drew A. Lansdown, Robert Dawe, Gregory L. Cvetanovich, Nikhil N. Verma, **Brian J. Cole**, Bernard R. Bach, Jr., Gregory P. Nicholson, Anthony A. Romeo, Adam Blair Yanke. Automated 3D MRI Allows for Accurate Evaluation of Glenoid Bone Loss as Compared to 3D CT. Paper 133. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
66. Brian Robert Waterman, Jonathan Newgren, Anirudh K. Gowd, Brandon C. Cabarcas, Bernard R. Bach Jr., **Brian J. Cole**, Anthony A. Romeo, Nikhil N. Verma. Randomized Prospective Trial of Arthroscopic Rotator Cuff with or without Acromioplasty: No Difference in Patient-Reported Outcomes at Long-Term Follow-Up. Paper 124. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
67. Eamon Bernardoni, Rachel M. Frank, Shreya S. Veera, Justin W. Griffin, Brian Robert Waterman, Elizabeth Shewman, **Brian J. Cole**, Anthony A. Romeo, Nikhil N. Verma. Biomechanical Analysis of All-Suture ANchor Fixation for Rotator Cuff Repair. Poster 250. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
68. Brian Robert Waterman, Robert Dean, Shreya S. Veera, **Brian J. Cole**, Anthony A. Romeo, Robert Wysocki, Mark S. Cohen, John Fernandez, Nikhil N. Verma. Surgical Repair of Distal Triceps Tendon Injuries: Short-term Clinical Outcomes and Re-Rupture Rate. Poster 237. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
69. Natalie Leong, **Brian J. Cole**. The influence of pain in other major joints and the spine on two-year outcomes after hip arthroscopy. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.
70. Gregory Cvetanovich, **Brian J. Cole**. Significant outcomes after arthroscopic rotator cuff repair. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018
71. Grant Garcia, **Brian J. Cole**. Asymptomatic MRI findings of the elbow predict injury and surgery in major league baseball pitchers. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018
72. Austin Stone, **Brian J. Cole**. Pre-operative predictors of return to high functional status after hip arthroscopy for femoroacetabular impingement at 2-year minimum follow-up. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.

73. Joseph Liu, **Brian J. Cole**. Return to sports after distal tibial allograft glenoid reconstruction for recurrent anterior shoulder instability. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.
74. Eric J. Cotter, Charles P. Hannon, David R. Christian, Kevin C. Wang, Drew Lansdown, Brian R. Waterman, Rachel M. Frank, Brian J. Cole. Clinical Outcomes of Multiple Osteochondral Allograft Transplantation of the Knee: An Analysis of Overlapping Grafts and Multifocal Lesions. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.
75. Kyle N. Kunze, Charles P. Hannon, Jared Fialkoff, Rachel M. Frank, Brian J. Cole. Platelet-Rich Plasma for Muscle Injuries: A Systematic Review of the Basic Science Literature. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.
76. Kyle N. Kunze, Timothy C. Keating, Charles P. Hannon, Jared Fialkoff, Rachel M. Frank, Brian J. Cole. Platelet-Rich Plasma for Ligament Injuries: A Systematic Review of the Basic Science Evidence. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.
77. Michael P. Fice, J. Chance Miller, Robert Christian, Charles P. Hannon, Niall Smyth, Christopher D. Murawski, Brian J. Cole, John G. Kennedy. The Role of Platelet-Rich Plasma in Cartilage Pathology: An Updated Systematic Review of the Basic Science Evidence. Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.
78. Allison J. Rao, Peter N Chalmers, Gregory L. Cvetanovich, Michael C. O'Brien, Jon M. Newgreen, Brian J. Cole, Nikhil N. Verma, Gregory L. Nicholson, Anthony A. Romeo. Does Pre-operative Doxycycline Reduce Propionibacterium Acnes in Shoulder Arthroplasty? Midwest Orthopaedics at Rush 30th Annual Thesis Day. Chicago, IL. June 22, 2018.
79. Kevin Wang, Brian R. Waterman, Robert Dean, Eric J. Cotter, Blaine Manning, Adam B. Yanke, **Brian J. Cole**. The Influence of Physeal Status on Cartilage Survivorship After Screw Fixation for Osteochondritis Dissecans of the Knee. Scientific Session SS-75. AANA 2018 Annual Meeting. Chicago, IL. April 28, 2018.
80. Rachel M. Frank, Kevin C. Wang, Eric J. Cotter, Eamon D. Bernardoni, **Brian J. Cole**. Impact of Simulation Training on Diagnostic Arthroscopy Performance - A Randomized Controlled Trial. Scientific Session SS-66. AANA 2018 Annual Meeting. Chicago, IL. April 28, 2018.
81. Brian Forsythe, Avinesh Agarwalla, Richard Puzzitiello, William A. Zuke, Nikhil Verma, Anthony A. Romeo, **Brian J. Cole**. How Pain Affects Rotator Cuff Tear Strength Testing: A Randomized Subacromial Injection Control Trial. Scientific Session SS-51. AANA 2018 Annual Meeting. Chicago, IL. April 27, 2018.
82. Rachel M. Frank, Anthony A. Romeo, Bonnie P. Gregory, Michael O'Brien, Eamon Bernardoni, Shelby Sumner, Nikhil Verma, **Brian J. Cole**, Gregory P. Nicholson. 90-Day Complications Following the Latarjet Procedure. Scientific Session SS-48. AANA 2018 Annual Meeting. Chicago, IL. April 27, 2018.
83. Brian Forsythe, Brian R. Waterman, William A. Zuke, Richard Puzzitiello, Avinesh Agarwalla, Adam B. Yanke, **Brian J. Cole**. Clinical Outcomes of Isolated Medial Patellofemoral Ligament Reconstruction in Patients with Patella Alta and Excessive Rotational Malalignment. Scientific Session SS-24. AANA 2018 Annual Meeting. Chicago, IL. April 26, 2018.
84. Brian Forsythe, Brian R. Waterman, William A. Zuke, Richard Puzzitiello, Avinesh Agarwalla, **Brian J. Cole**, Adam B. Yanke. Isolated Medial Patellofemoral Ligament Repair versus Reconstruction: Rates and Risk Factors for

**Brian J. Cole, M.D., M.B.A.**

- Instability Recurrence in a Young, Active Population. Scientific Session SS-21. AANA 2018 Annual Meeting. Chicago, IL. April 26, 2018.
85. Brian R. Waterman, Jon Newgren, Anirudh Gowd, Brandon Cabarcas, Bernard R. Bach, **Brian J. Cole**, Anthony A. Romeo, Nikhil Verma. Randomized Prospective Trial of Arthroscopic Rotator Cuff With or Without Acromioplasty: No Difference in Patient-Reported Outcomes at Long-term Follow-up. Scientific Session SS-07. AANA 2018 Annual Meeting. Chicago, IL. April 26, 2018.
86. Alexander Weber, Bryan M. Saltzman, Erik Mayer, Alexis Rounds, Nikhil N. Verma, Charles A. Bush-Joseph, Bernard R. Bach, Asheesh Bedi, **Brian J. Cole**. Supplements in Sports Medicine: From Vitamin D to Glucosamine to Growth Hormone. Scientific Exhibit SE68. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
87. Eoghan Hurley, Charles P. Hannon, Christopher D. Murawski, Niall A. Smyth, Michael Hendel, John G. Kennedy, **Brian J. Cole**, Scott A. Rodeo, Cathal Moran. Platelet-Rich Plasma in Sports Medicine– What Does Level I Evidence Support? Scientific Exhibit SE59. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
88. Gregory L. Cvetanovich, Brian R. Waterman, Rachel M. Frank, **Brian J. Cole**, Gregory P. Nicholson, Nikhil N. Verma, Anthony A. Romeo. The Management of the Irreparable Rotator Cuff Tear. Scientific Exhibit SE42. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
89. Eric Cotter, Charles P. Hannon, Philip Locker, Annabelle Davey, Kevin C. Wang, Nikhil N. Verma, **Brian J. Cole**. What are Barriers to Completion of Patient-Reported Outcome Measures in Patients Undergoing Anterior Cruciate Ligament Reconstruction? Poster P0940. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
90. Rachel M. Frank, Simon Lee, Eric Cotter, Sarah Poland, Timothy S. Leroux, **Brian J. Cole**. Outcomes of Osteochondral Allograft Transplantation With vs. Without Concomitant Meniscus Allograft Transplantation: A Comparative Matched Group Analysis. Poster P0902. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
91. Eamon Bernardoni, Rachel M. Frank, Shreya S. Veera, Brian R. Waterman, Elizabeth Shewman, **Brian J. Cole**, Anthony A. Romeo, Nikhil N. Verma. Biomechanical Analysis of All-Suture Suture-Anchor Fixation for Biceps Tenodesis. Poster P0796. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
92. Gregory P. Nicholson, Gregory L. Cvetanovich, Yale Fillingham, Michael C. O'Brien, Brian Forsythe, **Brian J. Cole**, Nikhil N. Verma, Anthony A. Romeo. Tranexamic Acid Reduces Blood Loss Following Primary Shoulder Arthroplasty: A Double-Blind Placebo-Controlled Prospective Randomized Controlled Trial. Poster P0305. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
93. Allison J. Rao, Peter N. Chalmers, Gregory L. Cvetanovich, Michael C. O'Brien, Jon M. Newgren, **Brian J. Cole**, Nikhil N. Verma, Gregory P. Nicholson, Anthony A. Romeo. Does Preoperative Doxycycline Reduce Propionibacterium Acnes in Shoulder Arthroplasty? Poster P0300. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
94. Rachel M. Frank, Brandon C. Cabarcas, Ani Gowd, **Brian J. Cole**. Meniscus Allograft Transplantation: Emphasis on Graft Preparation and Placement. Video. AAOS Annual Meeting 2018. New Orleans, LA. March 6-10, 2018.
95. Eric Cotter, Rachel M. Frank, Charles P. Hannon, **Brian J. Cole**. Cartilage Restoration Surgery: Incidence Rates, Complications, and Trends as Reported by the American Board of Orthopaedic Surgery Part-II Candidates. Paper 906. AAOS Annual Meeting 2018. New Orleans, LA. March 9, 2018.



**Brian J. Cole, M.D., M.B.A.**

96. Rachel M. Frank, Catherine J. Richardson, Shelby A. Sumner, Nikhil N. Verma, **Brian J. Cole**, Matthew T. Provencher, Anthony A. Romeo. Ninety-Day Complications following the Distal Tibia Allograft Procedure. Paper 701. AAOS Annual Meeting 2018. New Orleans, LA. March 9, 2018.
97. Rachel M. Frank, Bonnie Gregory, Michael C. O'Brien, Eamon Bernardoni, Shelby A. Sumner, Nikhil N. Verma, **Brian J. Cole**, Gregory P. Nicholson, Anthony A. Romeo. 90-Day Complications following the Latarjet Procedure. Paper 692. AAOS Annual Meeting 2018. New Orleans, LA. March 9, 2018.
98. Brian Forsythe, Drew Lansdown, William A. Zuke, Nikhil N. Verma, **Brian J. Cole**, Bernard R. Bach, Nozomu Inoue. Dynamic 3D Mapping of Isometric Anterior Cruciate Ligament Attachment Sites on the Tibia and Femur: Is Anatomic also Isometric? Paper 396. AAOS Annual Meeting 2018. New Orleans, LA. March 7, 2018.
99. Bryan M. Saltzman, Eric Cotter, Kevin C. Wang, Richard C. Rice, Blaine Manning, Adam B. Yanke, Brian Forsythe, Nikhil N. Verma, **Brian J. Cole**. Arthroscopically-Repaired Bucket-Handle Meniscus Tears: Patient Demographics, Postoperative Outcomes, and a Comparison of Success and Failure Cases. Paper 12. AAOS Annual Meeting 2018. New Orleans, LA. March 6, 2018.
100. MARS Group. Return to Play and Risks for Reinjury Following Revision Anterior Cruciate Ligament Reconstruction in Soccer Athletes. AAOS Annual Meeting 2018. New Orleans, LA. March 6, 2018.
101. MARS Group, MOON Group. Risk Factors for Infection Following Revision Anterior Cruciate Ligament Reconstruction (Poster). AAOS Annual Meeting 2018. New Orleans, LA. March 6, 2018.
102. Rachel M. Frank, Anthony A. Romeo, Catherine J. Richardson, Michael C. O'Brien, Shelby Sumner, Nikhil N. Verma, **Brian J. Cole**, Matthew T. Provencher. Outcomes of Latarjet vs. Distal Tibia Allograft for Anterior Shoulder Instability Repair: A Prospective Matched Cohort Analysis. Paper 1. American Shoulder and Elbow Surgeons Speciality Day Meeting. New Orleans, LA. March 10, 2018.
103. MARS Group. Predictors of Patient Reported Outcomes at 2 Years Following Revision ACL Reconstruction in the MARS Cohort. ACL Study Group Meeting - Queenstown, New Zealand.
104. William Zuke, Timothy Leroux, Bonnie Gregory, Brian Forsythe, **Brian Cole**, Anthony Romeo, Nikhil Verma. Establishing Maximal Medical Improvement Following Arthroscopic Rotator Cuff Repair. Poster 680. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 13-16, 2017.
105. Rachel M. Frank, Catherine J. Richardson, Jon M. Newgren, Brian R. Waterman, Nikhil N. Verma, **Brian J. Cole**, Anthony A. Romeo. Clinical Outcomes Of Distal Tibia Allograft Reconstruction For Posterior Shoulder Instability With Posterior Glenoid Bone Loss. Poster 610. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 13-16, 2017.
106. Rachel M. Frank, Michael C. O'Brien, Bonnie Gregory, Nikhil N. Verma, **Brian J. Cole**, Gregory P. Nicholson, Anthony A. Romeo. 90-Day Complications Following The Latarjet Procedure. Poster 608. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 13-16, 2017.
107. Rachel M. Frank, Catherine J. Richardson, Nikhil N. Verma, **Brian J. Cole**, Matthew T. Provencher, Anthony A. Romeo. 90-Day Complications Following The Distal Tibia Allograft Procedure. Poster 614. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 13-16, 2017.
108. Rachel M. Frank, Shelby Sumner, Simon Lee, Justin Griffin, **Brian J. Cole**, Nikhil N. Verma, Gregory P. Nicholson, Anthony A. Romeo. Does Prior Shoulder Surgery Negatively Impact Shoulder Arthroplasty Outcomes? Poster 612. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 13-16, 2017.

109. Kevin C Wang, Eric J Cotter, Rachel M Frank, Annabelle Davey, Charles P Hannon, Timothy Leroux, Anthony A Romeo, **Brian J Cole**. Long-Term Clinical Outcomes After Microfracture Of The Glenohumeral Joint: Minimum 8-Year Follow-Up. Poster 680. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 13-16, 2017.
110. Gregory L Cvetanovich, Yale A Fillingham, Michael O'Brien, Brian Forsythe, **Brian J Cole**, Nikhil N Verma, Anthony A Romeo, Gregory P Nicholson. Tranexamic Acid Reduces Blood Loss Following Primary Shoulder Arthroplasty: A Double-Blind Placebo-Controlled Prospective Randomized Controlled Trial. Poster 288. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 13-16, 2017.
111. Rachel M. Frank, Catherine J. Richardson, Michael C. O'Brien, Jon M. Newgren, Nikhil N. Verma, **Brian J. Cole**, Mathew T. Provencher, Anthony A. Romeo. Outcomes of Latarjet versus distal tibia allograft for anterior shoulder instability repair: a prospective matched cohort analysis. Podium 50. SECEC-ESSSE 2017 Congress. Berlin, Germany. Sept 14, 2017.
112. Verma NN, Frank RM, Meyer MA, Poland SG, Leroux TS, Griffin JW, Hannon CP, Romeo AA, **Cole BJ**. Long-Term Clinical Outcomes after Microfracture of the Glenohumeral Joint: Minimum 7-Year Follow-up. Paper 188. AOSSM 2017 Annual Meeting, Toronto, Canada. July 23, 2017.
113. Frank RM, Kim J, O'Donnell PJ, O'Brien M, Newgren J, Verma NN, Nicholson GP, **Cole BJ**, Romeo AA, Provencher MT. Outcomes of Latarjet vs. Distal Tibial Allograft for Anterior Shoulder Instability Repair: A Prospective Matched Cohort Analysis. Paper 168. AOSSM 2017 Annual Meeting, Toronto, Canada. July 22, 2017.
114. Gregory B, Zuke W, Leroux TS, Black A, Forsythe B, Romeo AA, **Cole BJ**, Verma NN. Establishing Time to Maximal Medical Improvement in Arthroscopic Rotator Cuff Repairs. Paper 148. AOSSM 2017 Annual Meeting, Toronto, Canada. July 21, 2017.
115. Frank RM, Lee S, Poland SG, Leroux TS, **Cole BJ**. Outcomes of Osteochondral Allograft Transplantation With vs Without Concomitant Meniscus Allograft Transplantation: A Comparative Matched Group Analysis. Paper 130. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20, 2017.
116. Weber AE, Hannon CP, Meyer MA, Madden B, Poland SG, Yanke AB, **Cole BJ**. Does Treatment of the Tibia Matter in Bipolar Chondral Defects of the Knee? Clinical Outcomes with Greater Than Two Years Follow-up. Poster 234. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
117. Frank RM, Lee S, Poland SG, **Cole BJ**. Do Outcomes of Osteochondral Allograft Transplantation Differ Based on Patient Sex: A Comparative Matched Group Analysis of Male and Female Patients. Poster 237. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
118. **Cole BJ**, Urita A, Meyer MA, Inoue N, Yanke AB. Medial and Lateral Distal Femoral Condyle Osseous and Articular Cartilage Topography to Determine Graft Matching. Poster 238. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
119. Waterman BR, McCarthy MA, Meyer MA, Weber AE, Levy D, Tilton AK, Yanke AB, **Cole BJ**. Can Competitive Athletes Sustain High-Level Play Following Osteochondral Allograft Transplantation of the Knee? Poster 239. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
120. Romeo AA, Chubinskaya S, Meyer MA, Urita A, Verma NN, Yanke AB, **Cole BJ**. Unique Biology of Shoulder Cartilage in Comparison to the Cartilage Obtained from the Knee and Ankle Joints. Poster 240. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.

121. Yanke AB, Urita A, Meyer MA, Madden B, Chubinskaya S, **Cole BJ**. Protective Effect of Normal Synovium on Damaged Cartilage. Poster 242. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
122. Farr J II, Cotter EJ, Wischmeier D, Frank RM, Yanke AB, **Cole BJ**. Clinical Outcomes of Patellofemoral Osteochondral Allograft Transplantation: A Prospective Analysis. Poster 244. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
123. Erickson BJ, Locker PH, Cvetanovich GL, Tilton AK, Gitelis ME, Weber AE, Yanke AB, **Cole BJ**. Prospective Clinical Outcomes Following Microfracture Surgery for Isolated and Multi-site Defects: Mid-Term Follow-Up. Poster 245. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
124. MARS Group. The Use of Allograft Tissue for Primary ACL Reconstruction is Associated with Increased Odds of Progression of Patellofemoral Articular Cartilage Damage Between Primary and Revision Surgery. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
125. MARS Group. Predictors of Patient-Reported Outcomes at Two Years Following Revision ACL Reconstruction. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
126. Leroux TS, Saltzman BM, Meyer MA, Gitelis ME, Debot M, Yanke AB, **Cole BJ**. The Influence of Preoperative Full-Thickness Chondral Defects on Outcomes Following Meniscal Allograft Transplantation. Poster 249. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
127. Verma NN, Manning BT, Bohl DD, Saltzman BM, **Cole BJ**. Sports Medicine Physician Selection Criteria: Factors Influencing Patient Choice. Poster 351. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017.
128. Yanke AB, Urita A, Meyer MA, Madden BT, Hakimiyanz A, Chubinskaya S, **Cole BJ**. Recovery Effect of Normal Synovium in Response to Cartilage Insult. Poster P1. ICRS Heritage Summit, Gothenburg, Sweden. June 29, 2017.
129. Cotter EJ, Frank RM, Wang KC, Totlis T, Poland S, Meyer MA, **Cole BJ**. Osteochondral Allografts for Osteochondritis Dissecans of the Knee: Do Outcomes Differ by Age? Poster P27. ICRS Heritage Summit, Gothenburg, Sweden. June 29, 2017.
130. Frank RM, Romeo AA, Verma NN, **Cole BJ**, Provencher MT. Management of Glenoid Bone Loss in Shoulder Instability. 29<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL. June 23, 2017.
131. Cvetanovich GL, Fillingham YA, O'Brien M, Forsythe B, **Cole, BJ**, Verma NN, Romeo AA, Nicholson GP. Tranexamic Acid Reduces Blood Loss Following Primary Shoulder Arthroplasty: A Double-Blind Placebo-Controlled Prospective Randomized Controlled Trial. 29<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL. June 23, 2017.
132. Bogunovic L, Wetters NG, Jain A, **Cole BJ**, Yanke AB. In Vitro Analysis of BioCartilage Stability in the Knee: Effect of Fibrin Level, Defect Size, and Defect Location. 29<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL. June 23, 2017.
133. MARS Group. Meniscus Repair Outcomes in the Revision ACL Reconstruction Setting: Results from the MARS Group. The International Society of Arthroscopy, Knee Surgery, and Orthopaedics Sports Medicine (ISAKOS) 11<sup>th</sup> Biennial Congress - Shanghai, China.

134. Frank R, Lee S, Poland S, Leroux T, **Cole B**. Outcomes of Osteochondral Allograft Transplantation with vs. without Concomitant Meniscus Allograft Transplantation: A Comparative Matched Group Analysis. Podium. AANA 36<sup>th</sup> Annual Meeting, Denver, CO. May 20, 2017.
135. Frank R, Kim J, O'Donnell P, Golijanin P, Verma NN, **Cole BJ**, Nicholson G, Romeo AA, Provencher MT. Outcomes of Latarhet vs. Distal Tibial Allograft for Anterior Shoulder Instability: A Prospective Matched Cohort Analysis. Podium. AANA 36<sup>th</sup> Annual Meeting, Denver, CO. May 19, 2017.
136. Frank RM, Lee S, Griffin J, **Cole B**, Verma N, Nicholson G, Romeo A. Does Prior Shoulder Surgery Negatively Impact Shoulder Arthroplasty Outcomes? Podium. AANA 36<sup>th</sup> Annual Meeting, Denver, CO. May 19, 2017.
137. **Cole BJ**, Frank RM, Lee S, Poland S. Do outcomes of osteochondral allograft transplantation differ based on patient sex: a comparative matched group analysis of male and female patients. Poster P428. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
138. **Cole BJ**, Meyer MA, Poland S, Saltzman BM, Weber A, Yanke AB. Prospective clinical and radiographic outcomes after concomitant anterior cruciate ligament reconstruction and meniscus allograft transplantation at a minimum two-years follow up. Poster P431. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
139. **Cole BJ**, Cvetanovich GL, Erickson B, Gitelis ME, Locker P, Tilton AK, Weber A, Yanke AB. Clinical outcomes following microfracture surgery for isolated and multi-site defects: mid-term follow up. Poster P461. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
140. Bach BR, Bell JA, Chalmers PN, **Cole BJ**, Cvetanovich GL, Erickson B, Frank RM, Romeo AA, Verma NN. Comprehensive management of subscapularis tendon tears in 2017: An algorithmic approach. Scientific Exhibit. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
141. Bach BR, Bernardoni E, **Cole BJ**, Cvetanovich GL, Erickson B, Frank RM, Provencher MT, Romeo AA, Verma NN. Posterior instability of the shoulder: from capsulolabral repair to bony augmentation. Scientific Exhibit. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
142. Bach BR, Bedi A, Claes SA, **Cole BJ**, Forsythe B, Getgood A, Leroux TS, Verma NN, Weber A. Lateral-based soft tissue augmentation in anterior cruciate ligament reconstruction: historical perspectives, biomechanical evidence and clinical outcomes. Scientific Exhibit. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
143. Bach BR, **Cole BJ**, Levy DM, Romeo AA, Verma NN. Evolution of anterior shoulder stabilization: from Bankart to modern day. Scientific Exhibit. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
144. **Cole BJ**, Cotter E, Frank RM, Hannon CP, Kennedy JG, Rodeo SA. Stem cells in orthopaedic surgery: definitions, regulations, and bench to bedside evidence. Scientific Exhibit. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
145. Bach BR, Bedi A, **Cole BJ**, Cvetanovich GL, Griffin JW, Weber A. Management of large chondral defects in the knee: options and decision-making. Scientific Exhibit. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.
146. Baksh N, Brady JM, **Cole BJ**, Frank RM, Hannon CP, Kennedy JG, Rodeo SA. Platelet-rich plasma in orthopaedic surgery: where do we stand in 2017? Scientific Exhibit. AAOS Annual Meeting 2017. San Diego, CA. March 14-18, 2017.

147. Leroux TS, Saltzman BM, Meyer MA, Frank RM, Bac BR, Verma NN, **Cole BJ**, Romeo AA. The Influence of Evidence-based Surgical Indications and Techniques on the Failure Rate Following Arthroscopic Shoulder Stabilization in the Contact or Collision Athlete with Anterior Shoulder Instability. AAOS Annual Meeting 2017. San Diego, CA. March 16, 2017.
148. Griffin JW, Cvetanovich GL, Kim JK, Leroux TS, Riboh JC, Back BR, Verma NN, **Cole BJ**, Romeo AA. Biceps Tenodesis is a Viable Option for Management of Proximal Biceps Injuries in Patients Less Than 25 Years of Age. AAOS Annual Meeting 2017. San Diego, CA. March 16, 2017.
149. Saltzman BM, Leroux T, Meyer MA, Basques BA, Chahal J, Bach BR Jr, Yanke AB, **Cole BJ**. The Therapeutic Effect of Intra-Articular Normal Saline Injections for Knee Osteoarthritis. AAOS Annual Meeting 2017. San Diego, CA. March 15, 2017.
150. Saltzman BM, Leroux TS, Meyer MA, Gitelis ME, Yanke AB, **Cole BJ**. The Influence of Preoperative Full-thickness Chondral Defects on Outcomes Following Meniscal Allograft Transplantation. AAOS Annual Meeting 2017. San Diego, CA. March 15, 2017.
151. Frank RM, Lee S, Poland S, **Cole BJ**. Do Outcomes of Osteochondral Allograft Transplantation Differ Based on Age: A Comparative Matched Group Analysis of Patients Under Versus Over 40 Years Old. AAOS Annual Meeting 2017. San Diego, CA. March 15, 2017.
152. Frank RM, Demartino AM, Grimaldi F, Rego G, Adams, CR, Romeo AA, **Cole BJ**. Does Arthroscopic Simulation Training Improve Triangulation and Probing Skills? A Randomized Controlled Trial. AAOS Annual Meeting 2017. San Diego, CA. March 15, 2017.
153. Frank RM, Griffin JW, Lee S, Cole BJ, Verma NN, Nicholson GP, Romeo AA. Does Prior Shoulder Surgery Negatively Impact Shoulder Arthroplasty Outcomes? AAOS Annual Meeting 2017. San Diego, CA. March 15, 2017.
154. Manning BT, Bohl DD, Saltzman BM, Cotter EJ, Wang KC, Epley CT, Verma NN, **Cole BJ**, Back BR. Factors Influencing Patient Selection of an Orthopaedic Sports Medicine Physician. 34<sup>th</sup> Annual Rush University Forum for Research and Clinical Investigation. March 1-2, 2017.
155. Cotter EJ, Wischeier D, Frank RM, Yanke AB, Farr JB, **Cole BJ**. Clinical Outcomes of Patellofemoral Osteochondral Allograft Transplantation: A Prospective Analysis. 34<sup>th</sup> Annual Rush University Forum for Research and Clinical Investigation. March 1-2, 2017.
156. Wang K, Cotter E, Frank R, Davey A, Hannon C, Leroux T, Romeo A, **Cole B**. Long-Term Clinical Outcomes After Microfracture of the Glenohumeral Joint: Minimum 8-Year Follow-up. 34<sup>th</sup> Annual Rush University Forum for Research and Clinical Investigation. March 1-2, 2017.
157. Frank RM, Golijanin P, Aiyash S, **Cole BJ**, Verma NN, Romeo AA, Provencher MT. Clinical and Radiographic Outcomes of Distal Tibial Allograft Reconstruction for Glenoid Bone Loss in Recurrent Anterior Shoulder Instability. 2016 French Arthroscopy Society Annual Meeting. Paris, France. Nov 30-Dec 3, 2016.
158. Urita A, Yanke AB, Meyer MA, Inoue N, **Cole BJ**. Medial and Lateral Distal Femoral Condyle Osseous and Articular Cartilage Topography to Determine Graft Matching. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.

159. Frank RM, Lee S, Poland SG, Cvetanovich G, **Cole BJ**, Yanke A. Survival After Osteochondral Allograft Transplantation of the Knee: Analysis of Failures at 5 Years. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
160. Makhni E, Meyer MA, Saltzman B, Yanke AB, **Cole BJ**. Comprehensiveness of Outcome Reporting in Studies of Articular Cartilage Defects of the Knee. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
161. Urita A, Meyer MA, Hakimiyan A, Chubinskaya S, **Cole BJ**, Yanke AB. Recovery Effect of Normal Synovium in Response to Damaged Cartilage. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
162. Chubinskaya S, Urita A, Meyer MA, Hakimiyan A, Rappoport L, Margulis A, Yanke AB, Verma N, Romeo A, **Cole BJ**. Biological characteristics of human glenohumeral joint (GHJ) cartilage in comparison to the knee and ankle joints. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
163. Frank RM, Rosas S, Law TY, Erickson B, Nwachukwu B, Verma N, Bach BR, Jr., **Cole BJ**, McCormick F. 18.43 - Reoperation Rates Following Arthroscopic Meniscus Repair versus Partial Meniscectomy (ID 8446). ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
164. Frank RM, Rosas S, Law TY, Erickson B, Nwachukwu B, Bach BR, Jr., **Cole BJ**, McCormick F. Rate of Reoperation Following Meniscus Allograft Transplantation: 90-Day, 1-Year, and 2-Year Analysis. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
165. Frank RM, Bohl DD, Cvetanovich G, Verma N, Bush-Joseph CA, Bach BR, Jr., **Cole BJ**. Risk Factors for Complications Following Knee Osteotomy Procedures: Analysis of 272 Patients. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
166. Saltzman B, Meyer MA, Leroux T, Gitelis M, Debot M, Yanke AB, **Cole BJ**. The Influence of Pre-Operative Full-Thickness Chondral Defects on Outcomes Following Meniscal Allograft Transplantation. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
167. Weber AE, Meyer MA, Griffin J, Poland SG, Yanke AB, **Cole BJ**. Do Outcomes Differ Following Osteochondral Allografts (OCA) of the Knee for Osteochondritis Dissecans (OCD) Based on Patient Age? ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
168. Weber AE, Hannon CP, Gitelis M, Meyer MA, Yanke AB, **Cole BJ**. Does Treatment of the Tibia Matter in Bipolar Cartilage Defects of the Knee? Clinical Outcomes with Greater Than Two-Year Follow-Up. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
169. Weber AE, Locker P, Tilton AK, Cvetanovich G, Erickson B, Yanke AB, **Cole BJ**, McCormick F. Prospective Clinical Outcomes Following Microfracture Surgery For Isolated and Multi-Site Defects: Mid-Term Follow-Up. ICRS World Congress, Sorrento – Naples, Italy, September 24-27, 2016.
170. **Cole BJ**. Shoulder Conditions in the Work Place. State of Illinois, Chicago, IL, August 26, 2016.
171. **Cole BJ**. PRP and Articular Cartilage Disease: Where are we now in 2016? Vail Scientific Summit, Vail, CO, August 18-20, 2016.
172. Yanke AB, Frank RM, Shin JJ, Van Thiel GS, Verma NN, **Cole BJ**, Romeo AA, Provencher MT. Characterization of Posterior Glenoid Bone Loss. AOSSM Annual Meeting, Colorado Springs, CO, July 7-10, 2016.

**Brian J. Cole, M.D., M.B.A.**

173. Riff AJ, Yanke AB, Tilton AK, **Cole BJ**. Outcomes of Autologous Chondrocyte Implantation in the Knee following Failed Microfracture. AOSSM Annual Meeting, Colorado Springs, CO, July 7-10, 2016.
174. MARS Group. Rehabilitation Predictors of Clinical Outcome following Revision ACL Reconstruction. AOSSM Annual Meeting, Colorado Springs, CO, July 7-10, 2016.
175. MARS Group. Knee Hyperextension as a Predictor of Failure in Revision ACL Reconstruction: A Prospective Cohort Study. AOSSM Annual Meeting, Colorado Springs, CO, July 7-10, 2016.
176. MARS Group. Risk Factors at Time of Primary ACL Reconstruction that Contribute to Significant Chondral Surface Change at Time of Revision ACL Reconstruction: A Prospective Study from the MOON and MARS Cohorts. AOSSM Annual Meeting, Colorado Springs, CO, July 7-10, 2016.
177. MARS Group. Subsequent Surgery After Revision Anterior Cruciate Ligament Reconstruction: Rates and Risk Factors from a Multicenter Cohort. (Poster Presentation). AOSSM Annual Meeting, Colorado Springs, CO, July 7-10, 2016.
178. Riff AJ, **Cole BJ**. Comparison of Autologous Chondrocyte Implantation and Osteochondral Allograft Transplantation for Treatment of Chondral Lesions of the Femoral Condyle following failed Marrow Stimulation. 28<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 17, 2016.
179. Alland J, **Cole BJ**. Randomized Prospective Clinical Analysis of Ultrasound-guided vs. Landmark-guided Biceps Corticosteroid Injections. 28<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 17, 2016.
180. Griffin J, **Cole BJ**. Biceps Tenodesis is a Viable Option for Management of Proximal Biceps Injuries in Patients Less than 25 Years of Age. 28<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 17, 2016.
181. Makhni EC, **Cole BJ**. Patient Compliance with Electronic Patient Reported Outcomes: a Cohort Study. 28<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 17, 2016.
182. Leroux T, **Cole BJ**. The Influence of Evidence-Based Surgical Indications and Techniques on the Failure Rate Following Arthroscopic Shoulder Stabilization in the Contact or Collision Athlete with Anterior Shoulder Instability. 28<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 17, 2016.
183. Frank RM, **Cole BJ**. Shoulder Instability: Can we do better? 28<sup>th</sup> Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 17, 2016.
184. Rodkey W, **Cole BJ**. The Effect of Lesion Size on Clinical Outcomes after Microfracture: Average 10 Years with a Two to 22-Year Follow-up Study. Podium, AANA Annual Meeting, Boston, Massachusetts, April 16, 2016.
185. **Cole BJ**, Frank RM, Levy DM, Lee S, Scalise P, Smith M, Cvetanovich GL, Yanke AB. Osteochondral Allograft Transplantation: Analysis of Failures at Five Years. Podium, AANA Annual Meeting, Boston, Massachusetts, April 16, 2016.
186. Erickson B, Bach BR, Cohen M, Bush-Joseph CA, **Cole BJ**, Verma NN, Nicholson G, Romeo AA. Ulnar Collateral Ligament Reconstruction: The Rush Experience. Podium, AANA Annual Meeting, Boston, Massachusetts, April 15, 2016.

187. Frank RM, Mellano C, Shin JJ, Feldheim TF, Mascarenhas R, Yanke AB, Bach BR, **Cole BJ**, Nicholson GP, Romeo AA, Verma NN. Instability Clinical Outcomes Following Revision Anterior Shoulder Stabilization: Arthroscopic Revision Stabilization vs. Latarjet. Podium, ASES Specialty Day, Orlando, Florida, March 5, 2016.
188. Frank RM, Golijanin P, **Cole BJ**, Romeo AA, Verma NN, Provencher MT. Instability Clinical and Radiographic Outcomes of Distal Tibia Allograft Reconstruction for Glenoid Bone Defects in Recurrent Anterior Shoulder Instability. Podium, ASES Specialty Day, Orlando, Florida, March 5, 2016.
189. Makhni EC, Crump EK, Steinhaus M, Verma NN, Ahmad CS, **Cole BJ**, Bach BR. Quality and Variability of Physical Therapy Protocols for ACL Reconstruction. Podium, AAOS Annual Meeting, Orlando, Florida, March 4, 2016.
190. Saltzman BM, Jain A, Campbell KA, Mascarenhas R, **Cole BJ**, Romeo AA, Verma NN. Platelet-Rich Plasma in Arthroscopic Rotator Cuff Repair - A Systematic Review of Overlapping Meta-Analyses. Podium, AAOS Annual Meeting, Orlando, Florida, March 4, 2016.
191. Frank RM, Lee S, Aiyash S, Kupfer N, Verma NN, **Cole BJ**, Nicholson GP, Romeo AA. The Utility of Obtaining Routine Hematologic Laboratory Values Following Shoulder Arthroplasty. Podium, AAOS Annual Meeting, Orlando, Florida, March 3, 2016.
192. Frank RM, Golijanin P, Aiyash S, **Cole BJ**, Verma NN, Romeo AA, Provencher MT. Outcomes Of Distal Tibia Allograft Reconstruction for Recurrent Anterior Shoulder Instability. Podium, AAOS Annual Meeting, Orlando, Florida, March 2, 2016.
193. Levy DM, Virk M, Kercher J, Kuhns B, Tilton AK, Burkhart SS, Romeo AA, Verma NN, **Cole BJ**. Do Patients Undergoing Arthroscopic Rotator Cuff Repair Prioritize Pain Relief or Return of Strength? Podium, AAOS Annual Meeting, Orlando, Florida, March 2, 2016.
194. Tilton AK, Riboh JC, Cvetanovich GL, Campbell KA, **Cole BJ**. Meniscal Allograft Transplantation in the Pediatric and Adolescent Population. Podium, AAOS Annual Meeting, Orlando, Florida, March 2, 2016.
195. Frank RM, Levy DM, Lee S, Scalise P, Smith ME, Cvetanovich GL, **Cole BJ**. Survival After Osteochondral Allograft Transplantation of the Knee: Analysis of Failures at 5 Years. Podium, AAOS Annual Meeting, Orlando, Florida, March 2, 2016.
196. McCormick F, Rosas S, Frank RM, Erickson B, Law TY, Nwachukwu BU, Bach BR, **Cole BJ**. Reoperation Rates After Cartilage Restoration Procedures: Analysis of a Large US Commercial Database. Podium, AAOS Annual Meeting, Orlando, Florida, March 2, 2016.
197. Mellano CR, Shin J, Jain A, Shewman E, Wang V, Cole BJ, Romeo AA, Verma NN, Forsythe B. Subpectoral Biceps Tenodesis with Interference Screw: A Biomechanical Analysis of Humeral Fracture Risk. Podium, AAOS Annual Meeting, Orlando, Florida, March 1, 2016.
198. Frank RM, Verma NN, Bach BR, Bush-Joseph CA, Yanke AB, **Cole BJ**. Knee Preservation with Osteotomy: Surgical Techniques. Video, AAOS Annual Meeting, Orlando, Florida, March 1-2, 2016.
199. Frank RM, Virk M, Aiyash S, **Cole BJ**, Verma NN, Romeo AA. Anterior Shoulder Stabilization with Latarjet: Surgical Technique. Video, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.



200. Frank RM, Yanke AB, Chalmer PN, Sayegh ET, Jain A, Verma NN, Romeo AA, **Cole BJ**, Bach BR. Fixation of Soft Tissue to Bone: Techniques, Implants, and Fundamentals. Scientific Exhibit, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
201. MARS Group. Surgical Predictors of Clinical Outcome following Revision Anterior Cruciate Ligament Reconstruction. AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
202. Cvetanovich GL, Erickson B, Frank RM, Verma NN, **Cole BJ**, Bach BR, Nicholson GP, Romeo AA. Management of Glenohumeral Osteoarthritis in the Young Patient. Scientific Exhibit, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
203. Erickson B, Cvetanovich GL, Frank RM, Provencher MT, Sershon RA, Tilton AK, Verma NN, **Cole BJ**, Bach BR. Principles in Diagnostic Arthroscopy. Scientific Exhibit, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
204. Weber AE, Frank RM, Verma NN, Romeo AA, **Cole BJ**, Dines JS, Kelly BT, Bedi A. Evaluation and Treatment of Common Sport-Specific Orthopaedic Injuries: Guide for the Team Physician. Scientific Exhibit, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
205. Erickson B, Chalmers PN, Cvetanovich GL, Frank RM, Saltzman BM, Bach BR, **Cole BJ**, Romeo AA, Verma NN. Superior Labral Anterior-Posterior Tears 2016 Update: Ignore, Debride, Repair, or Tenodesis? Scientific Exhibit, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
206. Frank RM, Plummer DR, Chalmers PN, Della Valle CJ, **Cole BJ**. Does Prior Cartilage Restoration Impact Outcomes of Knee Arthroplasty? Poster, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
207. Cvetanovich GL, Bohl DD, Chalmers PN, Romeo AA, **Cole BJ**, Bach BR. Do Patient Populations from High Quality Prospective Sports and Shoulder Studies and National Databases Differ? Poster, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
208. Frank RM, Rosas S, Law TY, Weber AE, Provencher MT, Verma NN, **Cole BJ**, Romeo AA, McCormick, F. Trends in the National Utilization of Latarjet versus Bankart Repair: Analysis of 26,573 Patients. Poster, AAOS Annual Meeting, Orlando, Florida, March 1-5, 2016.
209. Frank RM, Mellano CR, Shin JJ, Mascarenhas R, Yanke AB, Bach BR, **Cole BJ**, Nicholson GP, Romeo AA, Verma NN. Clinical outcomes following revision anterior shoulder stabilization: Arthroscopic revision stabilization vs Latarjet. 31<sup>st</sup> Annual Closed Shoulder and Elbow Meeting, Asheville, NC, October 9, 2015.
210. Frank R, Mellano C, Shin J, Feldheim T, Mascarenhas R, Yanke AB, **Cole BJ**, Nicholson G, Romeo A, Verma N. Clinical Outcomes following Revision Anterior Shoulder Stabilization: Arthroscopic Revision Stabilization vs. Latarjet. Podium, AOSSM Annual Meeting, Orlando, FL, July 10, 2015.
211. **Cole BJ**, Fortier LA, Cook JL, Cross J, Chapman H, Roller B. The Use of Micronized Allograft Articular Cartilage (BioCartilage) and Platelet Rich Plasma to Augment Marrow Stimulation in an Equine Model of Articular Cartilage Defects. Podium, AOSSM Annual Meeting, Orlando, FL, July 9, 2015.
212. **Cole BJ**, Fortier LA, Karas V, Hussey K, Tilton A, Merkow D, Verma N, Bach B, Forsythe B. Hyaluronic Acid versus Platelet-Rich Plasma: Double-blind Randomized Controlled Trial Comparing Clinical Outcomes and Intra-Articular Biology for Treatment of Knee Arthritis. 2nd Place Poster, AOSSM Annual Meeting, Orlando, FL, July 9, 2015.

**Brian J. Cole, M.D., M.B.A.**

213. Riboh J, Tilton A, Cvetanovich G, Campbell K, **Cole BJ**. Outcomes of Meniscal Allograft Transplantation in the Pediatric Athlete. Poster, AOSSM Annual Meeting, Orlando, FL, July 9, 2015.
214. Erickson B, Mascarenhas R, Saltzman B, Walton D, Lee S, **Cole BJ**, Bach B. Operative vs. Non-Operative Treatment of Achilles Tendon Ruptures: A Systematic Review of Overlapping Meta-Analyses. Poster, AOSSM Annual Meeting, Orlando, FL, July 9, 2015.
215. Frank R, Aiyash S, Kupfer N, Tilton A, **Cole BJ**, Verma N, Nicholson G, Romeo A. Does Prior Shoulder Surgery Negatively Impact Shoulder Arthroplasty Outcomes? Poster, AOSSM Annual Meeting, Orlando, FL, July 9, 2015.
216. MARS Group. Association of Meniscal Status and Lower Extremity Alignment with Chondrosis at the Time of Revision ACL Reconstruction. AOSSM Annual Meeting, Orlando, FL, July 9, 2015.
217. Virk MS, **Cole BJ**. Gene Expression Profiling of Mesenchymal Stromal Progenitor Cells (MSCs) Isolated from Rat Rotator Cuff Tendon and Muscle. Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 19, 2015.
218. Chalmers PN, **Cole BJ**. The Role of Motion Analysis in the Prevention and Treatment of Youth Pitching-Related Upper Extremity Injuries. Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 19, 2015.
219. Campbell KA, **Cole BJ**. The Fate of Patients that Do Not Undergo Implantation Following Biopsy for Future Autologous Chondrocyte Implantation. Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 19, 2015.
220. Riboh JC, Saltzman BM, Yanke AB, Fortier L, **Cole BJ**. Effect of Leukocyte Content on the Efficacy and Safety of PRP in the Treatment of Knee Osteoarthritis: Annual Thesis Day, Department of Orthopedic Surgery, Rush University Medical Center, Chicago, IL, June 19, 2015.
221. Frank RM, Aiyash S, Kupfer N, **Cole BJ**, Verma NN, Nicholson GP, Romeo AA: Does prior shoulder surgery negatively impact shoulder arthroplasty outcomes? 26<sup>th</sup> Annual SECEC-ESSE Congress, Milan, Italy, Sept 16-19, 2015. Poster.
222. Frank RM, Mellano C, Shin JJ, Feldheim TF, Mascarenhas R, Yanke AB, **Cole BJ**, Nicholson GP, Romeo AA, Verma NN. Clinical Outcomes Following Revision Anterior Shoulder Stabilization: Arthroscopic Revision Stabilization versus Latarjet. 26th Annual SECEC-ESSE Congress. Milan, Italy. Sept 16-19, 2015. Poster.
223. Mellano CR, Chalmers PN, Verma NN, **Cole BJ**, Romeo AA, Nicholson GP. Functional Results of Bilateral Reverse Total Shoulder Arthroplasty. 26th Annual SECEC-ESSE Congress. Milan, Italy. Sept 16-19, 2015. Poster.
224. Frank RM, Golijanin P, Aiyash S, **Cole BJ**, Verma NN, Romeo AA, Provencher MT. Clinical And Radiographic Outcomes Of Distal Tibia Allograft Reconstruction For Glenoid Bone Defects In Recurrent Anterior Shoulder Instability. 26th Annual SECEC-ESSE Congress. Milan, Italy. Sept 16-19, 2015. Poster.
225. Chalmers PN, Sgroi TA, Riff A, Lesniak M, Sayegh E, Verma NN, **Cole BJ**, Romeo AA. Correlates with Injury in Youth and Adolescent Pitchers. SECEC Annual Meeting, Milan, Italy, Sept 16-19, 2015. Poster.

**Brian J. Cole, M.D., M.B.A.**

226. Chalmers PN, Sgroi T, Riff A, Lesniak M, Sayegh E, Wimmer MA, Verma NN, **Cole BJ**, Romeo AA. Predictors Of Throwing Velocity In Youth And Adolescent Pitchers. SECEC Annual Meeting, Milan, Italy, Sept 16-19, 2015. Poster.
227. Mascarenhas R, Chalmers PN, Feldheim T, Mellano CR, Forsythe B, Romeo AA, Nicholson GP. Reverse Total Shoulder Arthroplasty For The Treatment Of Osteoarthritis Without Radiographic Rotator Cuff Tear: A Case Control Study. SECEC Annual Meeting, Milan, Italy, Sept 16-19, 2015. Poster.
228. Yanke AB, Frank RM, Shin JJ, Van Thiel GS, **Cole BJ**, Verma NN, Romeo AA, Provencher, MT: Anatomical characterization of posterior glenoid bone loss. 26<sup>th</sup> Annual SECEC-ESSE Congress, Milan, Italy, Sept 16-19, 2015.
229. Frank RM, Mellano C, Golijanin P, Shin J, Nicholson G, **Cole BJ**, Verma NN, Romeo AA, Provencher MT: Clinical outcomes of arthroscopic rotator cuff repair in patients under 30 years: Average 4-year follow-up. 26<sup>th</sup> Annual SECEC-ESSE Congress, Milan, Italy, Sept 16-19, 2015.
230. Mellano CR, Chalmers PN, Verma NN, **Cole BJ**, Romeo AA, Nicholson GP: Functional results of bilateral reverse TSR, 26<sup>th</sup> Annual SECEC-ESSE Congress, Milan, Italy, Sept 16-19, 2015.
231. Chalmers PN, Cvetanovich GL, Kupfer N, Wimmer MA, Verma NN, **Cole BJ**, Romeo AA, Nicholson GP: Jobe's position not the optimal position to test supraspinatus strength. SECEC Meeting, Sept 17, 2015.
232. Frank RM, Plummer D, Chalmers PC, Sporer S, Levine BR, **Cole BJ**, Della Valle CJ. Does Prior Cartilage Restoration Negatively Impact Outcomes of Knee Arthroplasty? AOA Annual Meeting, Providence, RI, June 24-27, 2015.
233. Frank RM, Plummer D, Chalmers PC, Sporer S, Levine BR, **Cole BJ**, Della Valle CJ. Does Prior Cartilage Restoration Negatively Impact Outcomes of Knee Arthroplasty? 10<sup>TH</sup> Annual Biannual ISAKOS Congress, Lyon France, June 7-11, 2015.
234. MARS Group. The Association of Meniscal Status, Lower Extremity Alignment and Body Mass Index with Chondrosis at the Time of Revision Anterior Cruciate Ligament Reconstruction. Herodius Society Forty-First Annual Meeting - Lyon, France.
235. Riboh JC, Saltzman BM, Yanke AB, Fortier L, **Cole BJ**. Effect of Leukocyte Content on the Efficacy and Safety of PRP in the Treatment of Knee Osteoarthritis: A Network Meta Analysis. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
236. Cvetanovich GL, Riboh JC, Tilton AK, Campbell KA, **Cole BJ**. Autologous Chondrocyte Implantation in Pediatric Patients. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
237. Rosas S, McCormick F, Law T, Frank RM, Erickson BJ, Nwachukwu B, Nguyen C, Bach BR, **Cole BJ**. Return to Operating Room following Meniscal Repair: 90 day, 1 year, 2 year analysis. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
238. Riboh JC, Tilton AK, Cvetanovich GL, Campbell KA, **Cole BJ**. Outcomes of Mensical Allograft Transplantation in the Pediatric Athlete. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.

239. Frank RM, Law T, Rosas S, Erickson BJ, Nwachukwu B, Nguyen C, Bach BR, **Cole BJ**. Return to OR Rates following Mensical Allograft Transplantation: A retrospective analysis of a US commercial insurance database. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
240. Provencher M, Frank RM, Golijanin P, Aiyash S, Gross D, **Cole BJ**. Clinical and Radiographic Outcomes of Distal Tibial Allograft Glenoid Reconstruction for Recurrent Anterior Shoulder Instability. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
241. Riff AJ, Yanke AB, Shin J, Romeo AA, **Cole BJ**. Midterm Results of Osteochondral Allograft Implantation to the Humeral Head. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
242. **Cole BJ**, Fortier L, Cook JL, Tilton AK, Chapman HS, Roller B. Use of Micronized Allograft Articular Cartilage and Platelet Rich Plasma to Augment Marrow Stimulation in an Equine Model. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
243. Riboh JC, Cvetanovich GL, **Cole BJ**, Yanke AB. Evidence-Based Decision-Making in Knee Cartilage Restoration: Results of a Comprehensive Network Meta-Analysis and Meta-Regression. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
244. McCormick F, Rosas S, Erickson BJ, Frank RM, Law T, Nwachukwu B, Nguyen C, Bach BR, **Cole BJ**. Return to OR rates for Cartilage Restoration Procedures: A Retrospective Review of Prospective Large US Commercial Insurance Database. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
245. Campbell KA, Cvetanovich GL, Tilton AK, Smith M, Scalise N, Riboh JC, **Cole BJ**, Yanke AB. The Fate of Patients who do not Undergo Implantation following Biopsy for Future Autologous Chondrocyte Implantation. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
246. **Cole BJ**, Fortier L, Karas V, Hussey K, Tilton AK, Verma NN, Bach BR, Forsythe B. HA vs PRP: Double-blind RCT Comparing Clinical Outcomes and Intra-articular Biology for Treatment of Knee Arthritis. Podium, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
247. Saltzman BM, Riboh JC, **Cole BJ**, Yanke AB. Humeral Head Reconstruction with Osteochondral Allograft Transplantation: A Systematic Review. Poster, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
248. Riff AJ, Yanke AB, Tilton AK, **Cole BJ**. Outcomes of Osteochondral Allograft to the Femoral Condyle following Failed Microfracture. Poster, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
249. Khair MM, Cvetanovich GL, Tilton AK, Yanke AB, **Cole BJ**, Verma NN. Medial Versus Lateral Distal Femoral Condyle Osteochondral Allograft Topography Matching: Articular Cartilage Thickness. Poster, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
250. Riff AJ, Yanke AB, Scalise N, Tilton AK, **Cole BJ**. Outcomes of Autologous Chondrocyte Implantation following Failed Microfracture. Poster, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
251. **Cole BJ**, Alqvist KF, Arbel R, Bellemans J, Basad E, Anders S, Victor J, Korner A. Safety and efficacy of GelrinC for cartilage lesions: Clinical outcome at 24 months. Poster, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.

**Brian J. Cole, M.D., M.B.A.**

252. Frank RM, Plummer D, Chalmers PN, Sporer S, Levine B, **Cole BJ**, Della Valle C. Does Prior Cartilage Restoration Negatively Impact Outcomes of Knee Arthroplasty? Poster, 12<sup>th</sup> Annual ICRS World Congress, Chicago, IL, May 8-11, 2015.
253. Frank RM, Golijanin BS, Gross D, **Cole BJ**, Verma NN, Romeo AA, Provencher MT: Outcomes of Allograft Reconstruction for Recurrent Anterior Shoulder Instability. Podium, AANA Annual Meeting, Los Angeles, LA, April 23-25, 2015.
254. Yanke AB, Frank RM, Shin J, Van Thiel G, Verma NN, **Cole BJ**, Romeo AA, Provencher MT. Characterization of Posterior Glenoid Bone Loss. Podium, AANA Annual Meeting, Los Angeles, LA, April 23-25, 2015.
255. **Cole BJ**, Fortier L, Cook J, Cross J, Tilton AK, Chapman H, Roller B. Micronized Allograft Articular Cartilage (BioCartilage) and Platelet-Rich Plasma to Augment Marrow Stimulation in an Equine Model of Articular Cartilage Defects. Podium, AANA Annual Meeting, Los Angeles, LA, April 23-25, 2015.
256. **Cole BJ**, Fortier L, Karas V, Hussey K, Tilton AK, Merkow D, Stuckey A, Verma NN, Bach BR, Forsythe B. HA vs PRP: Double-Blind RCT Comparing Clinical Outcomes and Intra-articular Biology for Treatment of Knee Osteoarthritis. Podium, AANA Annual Meeting, Los Angeles, LA, April 23-25, 2015.
257. Frank RM, Plummer D, Chalmers P, Della Valle C, **Cole BJ**. Does Prior Cartilage Restoration Negatively Impact Outcomes of Knee Arthroplasty? Podium, AANA Annual Meeting, Los Angeles, LA, April 23-25, 2015.
258. Shin J, Mascarenhas R, Yanke AB, Nicholson GP, **Cole BJ**, Romeo AA, Verma NN. Clinical Outcomes Following Revision Shoulder Arthroscopic Capsulolabral Stabilization. Podium, AOSSM Specialty Day, Las Vegas, NV, March 28, 2015.
259. Chalmers PN, SgROI T, Riff AJ, Lesniak M, Sayegh E, Verma NN, **Cole BJ**, Romeo AA. Correlates with Injury in Youth and Adolescent Pitchers. Podium, AOSSM Specialty Day, Las Vegas, NV, March 28, 2015.
260. Schub D, Brophy R, Wuerz TH, Silvers HJ, **Cole BJ**, McAdams TR, Rodeo SA, ElAttrache NS, Mandelbaum B: Video analysis of the Mechanism of Anterior Cruciate Ligament Injuries in the NFL. Poster, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
261. Chalmers PN, SgROI T, Riff AJ, Sayegh E, Verma NN, **Cole BJ**, Romeo AA, Lesniak M. Correlates with Injury in Youth and Adolescent Pitchers. Podium, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
262. Mellano CR, Felheim TF, **Cole BJ**, Verma NN, Romeo AA, Nicholson GP. Functional Results of Bilateral Reverse Total Shoulder Arthroplasty. Podium, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
263. Riff AJ, Yanke AB, Shin J, Romeo AA, **Cole BJ**. Mid-term Results of Osteochondral Allograft Transplantation to the Humeral Head. Podium, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
264. Yanke AB, Shin J, Pearson IL, Bach BR, Romeo AA, **Cole BJ**, Verma NN. 3D MRI Quantification of Glenoid Bone Loss is Equivalent to 3D CT Quantification: Cadaveric Study. Podium, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
265. Saccomanno MF, Shin J, Mellano CR, Shewman E, Wang V, Nicholson GP, **Cole BJ**, Romeo AA, Verma NN. Biomechanics of Latarjet Screw Fixation: Comparison of Fully Threaded, Partially Threaded and Cannulated Screws. Podium, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.

**Brian J. Cole, M.D., M.B.A.**

266. Frank RM, Mellano CR, Verma NN, **Cole BJ**, Provencher MT, Romeo AA. Exposure of the Glenohumeral Joint for Total Shoulder Arthroplasty. Feature presentation video exhibit, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
267. MARS Group. Meniscal and Articular Cartilage Predictors of Clinical Outcome following Revision ACL Reconstruction. AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
268. Frank RM, Saccomanno MF, Verma NN, **Cole BJ**, Bach BR, Romeo AA, Provencher MT. Arthroscopic Anterior Shoulder Stabilization: Pearls and Pitfalls in Patient Positioning. Feature presentation video exhibit, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
269. Frank RM, **Cole BJ**, Verma NN, Bach BR, Nicholson GP, Provencher MT, Romeo AA. Management of Glenoid Bone Loss in Anterior Shoulder Instability: A Case-Based Approach. Feature presentation video exhibit, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
270. Frank RM, Tilton AK, Cvetanovich CL, Erickson B, Mellano CR, Verma NN, Bush-Joseph CA, Bach BR, **Cole BJ**. Joint Preservation with High Tibial and Distal Femoral Osteotomies: Indications, Techniques, and Outcomes. Scientific exhibit, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
271. Erickson B, Waliullah K, Yanke AB, Gross CE, Stover G, **Cole BJ**, Bach BR, Sherman S, Cvetanovich CL. Two-stage Revision ACL Reconstruction: Indications, Techniques, and Outcomes. Scientific exhibit, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
272. Riff AJ, Sershon RA, Chalmers PN, Cvetanovich GL, Verma NN, **Cole BJ**, Romeo AA, Bach BR. Biceps Tenodesis Update: Indications, Techniques, Results, and Complications. Scientific exhibit, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
273. Sershon RA, Yanke AB, Shin J, Bach BR, **Cole BJ**, Romeo AA, Verma NN. Validation of the Glenoid Ratio Method for Measuring Glenoid Bone Loss: Controlled Cadaveric Experiment. Poster, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
274. Shin J, Haro MS, Yanke AB, Romeo AA, **Cole BJ**, Inoue N, Verma NN. Topographic Analysis of the Capitellum and Distal Femoral Condyle: Ideal Match for Treating Capitellum OCD. Poster, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
275. **Cole BJ**, Fortier L, Karas V, Merkow DB, Hussey KE, Stuckey A, Tilton AK, Verma NN, Bach BR, Forsythe B. HA vs. PRP: Double-blind RCT Comparing Clinical Outcomes and Intra-articular Biology for Knee Arthritis Treatment. Poster, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
276. Chalmers PN, Frank RM, Mellano CR, Mascarenhas R, **Cole BJ**, Verma NN, Nicholson GP, Bach BR, Romeo AA. Combined Labral Repair and Biceps Tenodesis for Superior Labral Anterior Posterior Tears. Poster, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
277. Riff AJ, Yanke AB, Tilton AK, Scalise N, Mascarenhas R, Haro MS, Bach BR, **Cole BJ**. Outcomes of Autologous Chondrocyte Implantation following Failed Microfracture. Poster, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.

**Brian J. Cole, M.D., M.B.A.**

278. Saccomanno MF, Shin J, Mascarenhas R, Haro MS, Forsythe B, Verma NN, **Cole BJ**, Bush-Joseph CA, Bach BR. Outcomes following ACL Reconstruction: Cortical Button vs. Transfemoral Suspensory Fixation Systematic Review. Poster, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
279. Frank RM, Plummer D, Chalmers PC, Sporer S, Levine BR, **Cole BJ**, Della Valle CJ. Does Prior Cartilage Restoration Negatively Impact Outcomes of Knee Arthroplasty? 2014 Members Meeting of the Knee Society. Charlotte, NC, 18 Oct 2014.
280. Frank RM, Plummer D, Chalmers PC, Sporer S, Levine BR, **Cole BJ**, Della Valle CJ. Does Prior Cartilage Restoration Negatively Impact Outcomes of Knee Arthroplasty? American Association of Hip and Knee Surgeons 24th Annual Meeting. Dallas, TX. October 16-18, 2014.
281. Chalmers PN, Trombley R, Cip J, Monson BT, Forsythe B, Nicholson GP, Bush-Joseph CA, **Cole BJ**, Wimmer MA, Romeo AA, Verma NN. Post-Operative Restoration of Upper Extremity Motion and Neuromuscular Control during the Overhand Pitch: Evaluation of Tenodesis and Repair for Slap Tears. Annual Closed Meeting of the American Shoulder and Elbow Surgeons, Pinehurst, NC, October 9-12, 2014.
282. Mellano CR, Feldheim TR, Riff AJ, Verma NN, **Cole BJ**, Romeo AA, Nicholson GP. Results of Latarjet Coracoid Transfer after Failed Instability Repair. Annual Closed Meeting of the American Shoulder and Elbow Surgeons, Pinehurst, NC, October 9-12, 2014.
283. Shin JJ, Mascarenhas R, Yanke AB, Patel AV, Nicholson GP, Romeo AA, **Cole BJ**, Verma NN. Clinical Outcomes Following Revision Shoulder Arthroscopic Capsulolabral Stabilization. Annual Closed Meeting of the American Shoulder and Elbow Surgeons, Pinehurst, NC, October 9-12, 2014.
284. Frank RM, Shin J, Saccomanno MF, Bhatia S, Shewman E, Bach BR, Wang VM, **Cole BJ**, Provencher MT, Verma NN, Romeo AA. Comparison of Glenohumeral Contact Pressures and Contact Areas After Posterior Glenoid Reconstruction With Iliac Crest or Distal Tibia Osteochondral Allograft. 25th Congress of the European Society of Surgery of the Shoulder and the Elbow. Istanbul, TURKEY. September 17-20, 2014.
285. Schub D, Brophy R, Wuerz T, Silvers H, ElAttrache N, **Cole B**, McAdams T, Rodeo S, Mandelbaum B: Video analysis of ACL injuries in the NFL. Kerlin-Jobe Fellow Research Day, Los Angeles, CA, July, 2014.
286. Abrams GD, Harris JD, **Cole BJ**: Combined meniscus and osteochondral allograft transplantation: Minimum 2 year follow up with an analysis of failures. AOSSM Annual Meeting, Seattle, WA, July 11, 2014.
287. MARS Group. **O'Donoghue Sports Injury Award** – Revision Anterior Cruciate Ligament Reconstruction Graft Choice Impact on Outcome in the MARS Cohort. American Orthopaedic Society for Sports Medicine 2014 Annual Meeting - Seattle, WA.
288. Chalmers PN, Trombley R, Wimmer M, **Cole BJ**, Verma NN, Romeo AA: Restoration of neuromuscular control during the pitch after operative treatment of SLAP tears. AOSSM Annual Meeting, Seattle, WA, July 10, 2014.
289. Frank RM, Shin JJ, Saccomanno MF, Bhatia S, Shewman E, Wang V, **Cole BJ**: Comparison of glenohumeral contact pressures and contact areas after posterior glenoid reconstruction with iliac crest or distal tibia osteochondral allograft. AOSSM Annual Meeting, Seattle, WA, July 10-13, 2014.

**Brian J. Cole, M.D., M.B.A.**

290. Chalmers PN, Yanke AB, Frank RM, **Cole BJ**: Prospective evaluation of meniscal allograft transplantation revision: A minimum of 2 year follow up. AOSSM Annual Meeting, Seattle, WA, July 11-13, 2014.
291. Saccomanno MF, Shin JJ, Mellano CR, Pearson IL, McCormick F, Shewman EF, Wang VM, Romeo AA, **Cole BJ**, Verma NN: Biomechanical analysis of the laterjet screw fixation: Comparison of fully threaded, partially threaded, and cannulated screws. 40<sup>th</sup> Annual Meeting of the Herodicus Society, Victoria, BC, July 6, 2014.
292. Romeo AA, Verma NN, **Cole BJ**: Results of Laterjet Coracoid Transfer to Reverse Failed Arthroscopic Instability Repairs. 40<sup>th</sup> Annual Meeting of the Herodicus Society, Victoria, BC, July 6, 2014.
293. **Cole BJ**, Fortier LA, Karas V, Merkow D, Stuckey A, Butty D, Cerma N, Bach BR, Forsythe B: HA vs PRP: A Double Blind Prospective Randomized Trial Comparing Clinical Outcomes and Intra-articular Biology for Treatment of Knee Arthrosis. 40<sup>th</sup> Annual Meeting of the Herodicus Society, Victoria, BC, July 6, 2014.
294. Mellano C, Nicholson G, Verma NN, **Cole BJ**, Romeo AA: Results of patients undergoing bilateral reverse total shoulder arthroplasty. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
295. Yanke AB, Konopka M, Butty D, Espinoza Orias A, **Cole BJ**: Effect of vertical or beveled chondral defect creation on rim deformation. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
296. Yanke AB, Cvetanovich G, Shin JJ, Moran E, **Cole BJ**, Inoue N, Verma NN: Distal femoral condyle osteochondral allograft topography: Medial versus lateral condyle. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
297. Bhatia S, Korth K, VanThiel GS, Frank RM, Gupta D, **Cole BJ**, Bach BR, Verma NN: Effect of tibial tunnel diameter on anatomic femoral placement in transtibial endoscope single bundle ACL reconstruction. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
298. Bhatia S, Saigal A, Frank RM, Hsu AR, Bach BR, **Cole BJ**, Romeo AA, Verma NN: Glenoid diameter is an inaccurate method for percent glenoid bone loss quantification: Analysis and techniques for improved accuracy. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
299. Haro MS, Shin JJ, Yanke AB, Romeo AA, **Cole BJ**, Inoue N, Verma NN: Topographic analysis of the capitellum and distal femoral condyle: Finding the ideal match for treating osteochondral defects of the humeral capitellum. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
300. Yanke AB, Shin JJ, Pearson IL, Bach BR, Romeo AA, **Cole BJ**, Verma NN: Three dimensional MRI quantification of glenoid bone loss is equivalent to CT quantification: Cadaveric study. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
301. Saccomanno MF, Shin JJ, Mellano CR, Pearson IL, McCormick F, Shewman EF, Wang VM, Romeo AA, **Cole BJ**, Verma NN: Biomechanical analysis of the laterjet screw fixation: Comparison of fully threaded, partially threaded, and cannulated screws. 26<sup>th</sup> Annual Thesis Day, Rush University Medical Center, Chicago, IL, June 27, 2014.
302. Frank RM, Shin J, Saccomanno MF, Bhatia S, Shewman E, Bach BR, Wang VM, **Cole BJ**, Provencher MT, Verma NN, Romeo AA. Comparison of Glenohumeral Contact Pressures and Contact Areas After Posterior Glenoid Reconstruction With Iliac Crest or Distal Tibia Osteochondral Allograft. 2014 AOA/COA Combined



**Brian J. Cole, M.D., M.B.A.**

Meeting. Montreal, Quebec. June 20, 2014.

303. Harris J, Hussey K, Wilson H, Pilz K, Gupta A, Gomoll A, **Cole BJ**: Biologic Knee Reconstruction for Combined Malalignment, Meniscal Deficiency, and Articular Cartilage Disease. AANA Annual Meeting, Hollywood, FL, May 3, 2014.
304. Frank R, Yanke A, Chalmers P, Friel N, Karas V, **Cole BJ**: Prospective Evaluation of Meniscal Allograft Transplantation Revision: A Minimum of Two-year Follow-up. AANA Annual Meeting, Hollywood, FL, May 3, 2014.
305. Frank R, Erickson B, Frank J, Bush-Joseph C, Romeo A, Bach B, **Cole BJ**, Provencher M, Verma N: Utility of Modern Arthroscopic Simulator Training Models: A Systematic Review. AANA Annual Meeting, Hollywood, FL, May 3, 2014.
306. Harris J, Hussey K, Saltzman B, McCormick F, Wilson H, Abrams G, **Cole BJ**: Cartilage Repair with or without Meniscal Transplantation and Osteotomy for Lateral Compartment Chondral Defects. AANA Annual Meeting, Hollywood, FL, May 3, 2014.
307. Yanke A, Cvetanovich G, Shin J, Moran E, Gupta A, **Cole BJ**, Inoue N, Verma N: Distal Femoral Condyle Osteochondral Allograft Topography: Medial vs. Lateral Condyle. AANA Annual Meeting, Hollywood, FL, May 3, 2014.
308. Frank RM, Mall N, Gupta D, Shewman E, Wang VM, 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. 2014 AANA Annual Meeting. Hollywood, FL. May 1-4, 2014.
309. Frank RM, Lundberg HJ, Trombley R, Wimmer MA, Forsythe B, Bush-Joseph CA, Bach BR, Verma NN, **Cole BJ**. Hamstring Activity in the ACL Injured Patient: Injury Implications and Comparison to Quadriceps Activity. 2014 AANA Annual Meeting. Hollywood, FL. May 1-4, 2014.
310. Saccomanno M, Pearson I, McCormick F, Shin J, Wuerz T, Mellano C, Frank RM, **Cole BJ**, Romeo AA, Verma NN. Biomechanical Analysis of Latarjet Fixation Constructs: Comparison of Three Screw Fixation Devices. Annual AANA Meeting, Hollywood, FL. May 1-4, 2014.
311. Frank RM, Shin J, Saccomanno MF, Bhatia S, Shewman E, Bach BR, **Cole BJ**, Provencher MT, Verma NN, Romeo AA. Comparison of Glenohumeral Contact Pressures and Contact Areas After Posterior Glenoid Reconstruction With Iliac Crest or Distal Tibia Osteochondral Allograft. 2014 AANA Annual Meeting. Hollywood, FL. May 1-4, 2014.
312. Frank RM, Lundberg HJ, Trombley R, Wimmer MA, Forsythe B, Bush-Joseph CA, Bach BR, Verma NN, **Cole BJ**. Hamstring Activity in the ACL Injured Patient: Injury Implications and Comparison to Quadriceps Activity. 60th Orthopaedic Research Society Annual Meeting. New Orleans, LA. March 17, 2014.
313. Frank RM, Mall N, Gupta D, Lee A, Frank RM, Shewman E, Wang VM, Romeo AA, **Cole BJ**, Verma NN. Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide. 60th Orthopaedic Research Society Annual Meeting. New Orleans, LA. March 15-18, 2014.
314. McCormick F, Harris JD, Frank RM, Hussey KE, Wilson H, Gupta AK, Abrams GD, Bach BR, **Cole BJ**: Meniscal Allograft Transplantation Reoperation Rates, Operative Findings and Survival Analysis: A Review of 200

- Consecutive Transplants at Minimum Two-year Follow-up. AOSSM Specialty Day, AAOS Specialty Day, New Orleans, LA, March 15, 2014.
315. 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.
316. 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.
317. 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.
318. McCormick F, Harris JD, Abrams GD, Hussey KE, Wilson H, Frank RM, Gupta AK, Bach BR, **Cole BJ**. Meniscal Allograft Transplantation: Survival and Re-operation Analysis with an Analysis of Failures. 2014 AAOS Annual Meeting. New Orleans, LA. March 13, 2014.
319. 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.
320. 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.
321. 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.
322. MARS Group. Graft Choice Propensity from the Multicenter ACL Revision Study (MARS) Group. ACL Study Group - Cape Town, South Africa.
323. Frank RM, Mall N, Gupta D, Wang VM, Romeo AA, **Cole BJ**, Provencher, MT, Verma NN. Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide. Congress of Arthroscopy and Sports Medicine, Jaipur, India. November 8-11, 2013.
324. Frank RM, Mall N, Gupta D, Wang VM, Romeo AA, **Cole BJ**, Provencher, MT, Verma NN. Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide. 55th SOMOS Annual Meeting. Vail, CO. Dec 12, 2013.
325. 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.
326. 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.

327. 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.
328. 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.
329. 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.
330. 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.
331. 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.
332. 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.
333. Harris JD, Hussey K, Wilson H, Gomoll AH, **Cole BJ**: Combined Osteotomy, Meniscal Transplant, and Articular Cartilage Surgery in Young Patients with Unicompartamental Arthritis. (Poster Presentation). ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013.
334. 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.
335. 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.
336. 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.
337. 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.
338. 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.
339. 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.

340. 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)
341. 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.
342. 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.
343. 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.
344. 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.
345. Cip J, Chalmers PN, Trombley B, Klostermann E, Wimmer MA, **Cole BJ**, Verma NN, Romeo AA: Athleten-bezogene Outcome Scores für Überkopfwurfsportler: Evaluation von Tenodesen 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.
346. Cip J, Chalmers PN, Trombley B, Klostermann E, Wimmer MA, **Cole BJ**, Verma NN, Romeo AA: Bewegung im Schultergelenk während dem Überkopfwurf: Evaluation von Tenodesen 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
347. MARS Group. Osteoarthritis Classification Scales: Reliability and Arthroscopic Correlation. (Poster Presentation). American Orthopaedic Association 2013 Annual Meeting - Denver, CO.
348. Bhatia S, Frank RM, Saigal A, Hsu AR, Ellman MB, Bach BR, **Cole BJ**, Romeo AA, Verma NN. Glenoid Diameter is an Inaccurate Method for Glenoid Bone Loss Quantification. 9th Biennial International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine (ISAKOS) Congress, Toronto, CA. May 12-16, 2013.
349. MARS Group. Osteoarthritis Classification Scales: Reliability and Arthroscopic Correlation (E-Poster). 9th Biennial International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine (ISAKOS) Congress, Toronto, CA. May 12-16, 2013.
350. MARS Group. Reoperation Rates for Revision ACL Reconstruction Patients at 2 Year Follow Up. 9th Biennial International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine (ISAKOS) Congress, Toronto, CA. May 12-16, 2013.

351. Frank RM, Mall N, Gupta D, Lee A, Frank RM, Shewman E, Wang VM, Romeo AA, Cole BJ, Verma NN. Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide. 9th Biennial International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine (ISAKOS) Congress, Toronto, CA. May 12-16, 2013.
352. Frank RM, Mall N, Gupta D, Lee A, Frank RM, Shewman E, Wang VM, Romeo AA, Cole BJ, Verma NN. Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide. 2013 AANA Annual Meeting. San Antonio, TX. April 25-27, 2013.
353. 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).
354. 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.
355. 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.
356. **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.
357. 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.
358. 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.
359. Frank RM, Mall N, Gupta D, Lee A, Frank RM, Shewman E, Wang VM, Romeo AA, **Cole BJ**, Verma NN. Inferior Suture Anchor Placement During Arthroscopic Bankart Repair: Influence of Portal Placement and Curved Drill Guide. Orthopedics Today Hawaii 2013, Kona, Hawaii, January 13-16, 2013.
360. 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.
361. 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.
362. 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

**Brian J. Cole, M.D., M.B.A.**

Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012.

363. 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.
364. 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.
365. 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
366. MARS Group. Graft Choice Propensity Scores from the MARS Cohort. Herodicus Society 2012 Annual Meeting - White Sulphur Springs, WV.
367. 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.
368. Farr J, **Cole BJ**, Tabet SK, Gold G, Vasawala 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.
369. 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.
370. **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.
371. 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.
372. MARS Group. Radiographic Findings in Revision ACL Reconstruction from the MARS Cohort. 2012 National Football League Team Physicians Society Meeting - Indianapolis, IN.
373. 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.
374. MARS Group. MARS Data Update. AOSSM Specialty Day, AAOS Annual Meeting, S.F., CA, February 11, 2012.
375. 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.

376. 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.
377. MARS Group. Previous Partial Meniscectomy Increases Incidence of Chondrosis at Revision ACL Reconstruction in MARS Cohort. American Academy of Orthopaedic Surgeons 2012 Annual Meeting - San Francisco, CA.
378. 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.
379. 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.
380. 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.
381. 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.
382. 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.
383. 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.
384. 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.
385. 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.
386. 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.
387. 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.
388. 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.

389. 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.
390. 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.
391. 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.
392. 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.
393. 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.
394. 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.
395. 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)
396. 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.
397. 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)
398. 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.
399. 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.



400. 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.
401. 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.
402. 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.
403. 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.
404. 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.
405. 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.
406. **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.
407. 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.
408. 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.
409. 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.
410. 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.
411. 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.

412. 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.
413. 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.
414. 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.
415. 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.
416. 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.
417. 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.
418. 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.
419. MARS Group. Inter-rater Reliability in the Etiology of ACL Graft Failure: A Radiographic & Video Analysis of the MARS Cohort - 37th Annual Meeting of the Herodicus Society. June 21, 2011, Sun Valley, Idaho.
420. 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.
421. 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.
422. 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.
423. 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.
424. 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.

425. 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.
426. **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.
427. 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.
428. 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.
429. **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.
430. **Cole BJ**, Slatzman 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.
431. 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.
432. **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.
433. 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.
434. **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.
435. 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.

436. **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.
437. 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.
438. 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.
439. **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.
440. 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.
441. **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.
442. **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.
443. 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.
444. 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.
445. 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.
446. 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.
447. 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.
448. 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.

449. 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.
450. 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.
451. 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.
452. 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.
453. 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.
454. 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.
455. 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.
456. Kirk S, Meiningner A, Filardo G, Hakimiyani AA, Rappaport 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.
457. 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.
458. Campbell J, Filardo G, Bajaj S, Friel NA, Hakimiyani 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.
459. 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.

460. 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.
461. Nho SJ, Frank RM, Reiff SN, Grumet RC, **Cole BJ**, Verma NN, Romeo AA. Retrospective Analysis of Arthroscopic Superior Labrum Anterior to Posterior (SLAP) Repair: Prognostic Factors associated with Failure. 7th Biennial AAOS/ASES Shoulder and Elbow Meeting, Aventura, FL, April 15-17, 2010.
462. 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.
463. 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.
464. 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.
465. 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.
466. 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.
467. 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.
468. 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.
469. 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.
470. 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.
471. 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.
472. 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.

473. Provencher MT, **Cole BJ**, Frank RM, Gupta A, Slabaugh MA. Biomechanical Analysis of Meniscal Transplantation with a High Tibial Osteotomy, 51st Annual Society of Military Orthopaedic Surgeons (SOMOS) Annual Meeting, Honolulu, HI, December 14-18, 2009.
474. Nho SJ, Frank RM, Reiff SN, Grumet RC, **Cole BJ**, Verma NN, Romeo AA. Retrospective Analysis of Arthroscopic Superior Labrum Anterior to Posterior (SLAP) Repair: Prognostic Factors associated with Failure. Congress of the French Arthroscopic Society, Bordeaux, France, December 9-11, 2009.
475. Slabaugh MA, Van Thiel GS, Ghodadra N, Sheehan S, Frank RM, Romeo AA, **Cole BJ**, Verma NN. Arthroscopic Management of Glenohumeral Degenerative Disease. 73rd WOA Annual Meeting, Seattle, WA, July 29-Aug 1, 2009.
476. Frank RM, Slabaugh MA, Van Thiel GS, Sheehan S, Nho SJ, Romeo AA, Nicholson G, **Cole BJ**, Verma NN. Clinical Outcomes After Microfracture of the Glenohumeral Joint. 73rd WOA Annual Meeting, Seattle, WA, July 29-Aug 1, 2009.
477. Nho SJ, Reiff S, Slabaugh M, **Cole BJ**: Complications associated with subpectoral biceps tenodesis. AOSSM Annual Meeting, Keystone, CO, July 9-12, 2009.
478. 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.
479. 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.
480. 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.
481. 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,
482. 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.
483. 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.
484. 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.

485. 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.
486. 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.
487. 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.
488. 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.
489. 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.
490. 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.
491. 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.
492. 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.
493. 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.
494. 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.
495. 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.
496. Frank RM, Slabaugh MA, Van Thiel GS, Sheehan S, Nho SJ, Romeo AA, Nicholson G, **Cole BJ**, Verma NN. Clinical Outcomes after Microfracture of the Glenohumeral Joint. 50th Annual National Student Research Foundation, Galveston, TX, USA, April 23-25, 2009.
497. Frank RM, Slabaugh MS, Bush-Joseph C, **Cole BJ**, Bach BR, Verma NN. An Institution Specific Analysis of Anterior Cruciate Ligament Reconstruction Failure. Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 15-16, 2009, Chicago, IL.
498. Frank RM, Slabaugh MA, Van Thiel GS, Sheehan S, Nho SJ, Romeo AA, Nicholson G, **Cole BJ**, Verma NN. Clinical Outcomes after Microfracture of the Glenohumeral Joint. Rush University Forum for Research and



**Brian J. Cole, M.D., M.B.A.**

Clinical Investigation, Chicago, IL, April 15-16, 2009, Chicago, IL.

499. Sheehan S, Van Thiel GS, Frank RM, Slabaugh M, Romeo AA, Nicholson GP, Verma NN, **Cole BJ**. Arthroscopic Management of Glenohumeral Degenerative Disease. Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 15-16, 2009, Chicago, IL.
500. Frank RM, McGill KC, Slabaugh MS, Bush-Joseph C, **Cole BJ**, Bach BR, Verma NN. An Institution Specific Analysis of Anterior Cruciate Ligament Reconstruction Failure. 6th Annual Northwestern University Feinberg School of Medicine Lewis Landsberg Research Day, Chicago, IL, April 8, 2009.
501. Frank RM, Slabaugh MA, Van Thiel GS, Sheehan S, Nho SJ, Romeo AA, Nicholson G, **Cole BJ**, Verma NN. Clinical Outcomes after Microfracture of the Glenohumeral Joint. 2009 American Medical Women's Association Annual Conference, Williamsburg, VA, March 27-29, 2009.
502. Frank RM, Slabaugh MA, Van Thiel GS, Sheehan S, Nho SJ, Romeo AA, Nicholson G, **Cole BJ**, Verma NN. Clinical Outcomes after Microfracture of the Glenohumeral Joint. 59th Annual AMSA Convention Poster Session, Washington, DC, USA, March 12-15, 2009. Accepted for Poster Presentation.
503. 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.
504. 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.
505. 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
506. MARS Group. Demographics of the Initial Multicenter ACL Revision Study (MARS) Cohort: A Descriptive Study. AAOS Annual Meeting, Las Vegas, Nevada, February 25, 2009
507. MARS Group. Revision ACL Reconstruction: Meniscal Injury Occurrence and Treatment from the Multicenter ACL Revision Study (MARS) Group. American Orthopaedic Society for Sports Medicine Specialty Day - Las Vegas, NV.
508. MARS Group. Revision ACL Reconstruction: Chondral Injury Occurrence and Treatment from the MARS Group. AAOS Annual Meeting, Las Vegas, Nevada, February 25, 2009
509. **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.
510. Frank RM, Slabaugh MA, Van Thiel GS, Sheehan S, Nho SJ, Romeo AA, Nicholson G, **Cole BJ**, Verma NN. Clinical Outcomes after Microfracture of the Glenohumeral Joint. American Medical Women's Association Region 6 Conference, Chicago, IL, January 17, 2009.

**Brian J. Cole, M.D., M.B.A.**

511. 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.
512. MARS Group. Multicenter ACL Revision Study (MARS). AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008.
513. MARS Group. Revision ACL Reconstruction: Reinjury Mechanism, Failure Mode and Graft Choice form the Multicenter ACL Revision Study (MARS) Group. AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008.
514. 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.
515. 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.
516. 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.
517. 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.
518. Ruta D, Meiningner 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.
519. 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.
520. 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.
521. **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.
522. 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.
523. 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.

524. 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.
525. 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.
526. 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.
527. 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.
528. 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.
529. 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.
530. MARS Group. Revision ACL Reconstruction: Reinjury Mechanism, Failure Mode and Graft Choice from the Multicenter ACL Revision Study (MARS) Group. ISAKOS, Osaka, Japan, April 5-9, 2008.
531. 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.
532. 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.
533. 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.
534. 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.
535. 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.
536. 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.
537. 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.

538. 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.
539. 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.
540. **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.
541. Yanke A, **Cole BJ**, Kang RW, Chubinskaya S, Williams JM, Gomoll A: Long-term effects of continuous intra-articular Bupivacaine infusion in the rabbit shoulder. AOSSM Annual Meeting, Calgary, CA, July 15, 2007.
542. 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.
543. 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.
544. 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.
545. 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.
546. 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.
547. 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.
548. 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.
549. 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.
550. 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.

**Brian J. Cole, M.D., M.B.A.**

551. 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.
552. 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.
553. 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.
554. 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.
555. 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.
556. Lattermann C, Anbari A, Meininger A, **Cole BJ**, Romeo AA: 3 year follow-up of arthroscopic treatment for lateral epicondylitis. Poster, 74<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-18, 2007.
557. 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.
558. 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.
559. 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)
560. 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.
561. 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.
562. 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.

563. 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.
564. **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.
565. 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.
566. 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.
567. 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.
568. 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.
569. 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.
570. 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.
571. 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.
572. 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.
573. **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.

574. 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.
575. 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.
576. **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.
577. **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. 22<sup>nd</sup> Annual Closed Meeting of the American Shoulder Elbow Surgeons, Palm Beach, FL, November 10, 2005.
578. **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.
579. **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.
580. 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.
581. 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.
582. 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.
583. 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.
584. Yanke A, **Cole B**, Pylawka T, Lewis P, MacGilivray 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.
585. 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.

586. 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.
587. 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.
588. 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.
589. 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.
590. 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.
591. **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.
592. **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.
593. 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.
594. **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.
595. **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.
596. **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.
597. 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.



598. 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.
599. **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.
600. **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.
601. 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.
602. 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.
603. 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.
604. 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.
605. 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.
606. 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.
607. 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.
608. Merrihew C, Pfister BE, Miyazaki T, Thonar EJ, **Cole BJ**, Masuda K: Age-related changes in the biomechanical properties of scaffold-free engineered cartilage tissue-challenge to the age limitation. 50<sup>th</sup> Trans Ortho Res Soc, 29:2004. 50<sup>th</sup> Annual Meeting of the Orthopedic Research Society, San Francisco, CA, March 7-10, 2004.
609. 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.
610. 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.

611. 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.
612. 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.
613. 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.
614. 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.
615. 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.
616. 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.
617. 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.
618. 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.
619. 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.
620. **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. 49<sup>th</sup> Orthopedic Research Society, New Orleans, LA, February 2-5, 2003.
621. **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.
622. **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,

**Brian J. Cole, M.D., M.B.A.**

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623. **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.
624. **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.
625. **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.
626. **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.
627. **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.
628. 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.
629. **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.
630. **Cole BJ**, Viridi 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.
631. **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.
632. **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.
633. 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.
634. 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.
635. Williams JM, Viridi 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.

636. 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.
637. 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.
638. 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.
639. 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.
640. 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.
641. 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.
642. 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.
643. 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.
644. 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.
645. Garretson RB, Katolik LI, Bach BR, Verma N, **Cole BJ**: contact pressure in the patellofemoral joint. OREF Midwest Resident Research Symposium, University of Chicago, Chicago, IL, April 6, 2001.
646. **Cole BJ**: Early functional results of meniscal transplantation, Illinois Association of Orthopaedic Surgeons, Carle Clinic, Urbana, IL, April 6, 2001.
647. **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.
648. 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.

649. 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.
650. 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.
651. **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.
652. **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.
653. 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.
654. 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.
655. 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.
656. 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.
657. 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.
658. **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.
659. 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.
660. **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.

661. **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.
662. **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.
663. **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.
664. 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.
665. **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.
666. **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.
667. 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.
668. 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.
669. **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.
670. **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.
671. **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.
672. **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.

673. **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.
674. 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.
675. **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.
676. 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.
677. **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.
678. **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.
679. **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.
680. **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.
681. **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.
682. 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.
683. **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.
684. **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.

685. **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 WORKSHOP, SYMPOSIA**

1. Speaker. Aseptar Conference. 12/16/2021. Treatment of Symptomatic Articular Cartilage Defects in Athletes.
2. Speaker/Panelist. OSET Las Vegas 12/12/21. HA vs. HA + PRP.
3. Case Panel Moderator. OSET Las Vegas 12/12/21. Everything Biologics.
4. Speaker. OSET Las Vegas. 12<sup>th</sup> December 2021. Natural History of Cartilage Lesions.
5. Panelist. OSET Las Vegas. 12<sup>th</sup> December 2021. Everything Cartilage.
6. Panelist. OSET Las Vegas. 12<sup>th</sup> December 2021. Arthrex Show Case Session: Knee Preservation through Cartilage Restoration.
7. Panelist. OSET Las Vegas. 12<sup>th</sup> December 2021. Shoulder Sports and Arthroplasty.
8. Panel Moderator. OSET Las Vegas. 12<sup>th</sup> December 2021. Clinical case presentation. 60 yo smoker.
9. Panelist. OSET Las Vegas. 13<sup>th</sup> December 2021. Reaching Great Heights: Using MACI to Facilitate Your Patients' Return To Sport.
10. Speaker. OSET Las Vegas. 13<sup>th</sup> December 2021. Resect Part of the Meniscus Today and Return to Play in 2 Weeks
11. Panelist. OSET Las Vegas. 13<sup>th</sup> December 2021. 28 yo professional bball player with MMRT – no symptoms.
12. Speaker. Sports Knee Surgery Conference 5<sup>th</sup> Nov 2021. Technique for Osteochondral Allograft Joint Reconstruction. Webinar, November 5<sup>th</sup>, 2021.
13. Speaker. The Permanente Medical Group James O. Johnson Orthopaedic Symposium Sports Medicine. Webinar October 15<sup>th</sup>, 2021.
14. Speaker. OSET Las Vegas. 12<sup>th</sup> December 2021. Arthrex and MACI symposium.
15. Host and Speaker. 5<sup>th</sup> Annual Chicago Sports Summit. October 5<sup>th</sup> 2021.
16. Speaker. AAOS Instructional Course Lectures on Biologic Joint Preservation. September 1<sup>st</sup>, 2021.
17. Speaker. AAOS Instructional Course Lectures on Management of the Challenging Rotator Cuff Tear. September 1<sup>st</sup>, 2021.
18. Moderator. University of Chicago Journal Club. Osteochondral Allograft Transplant for Focal Cartilage Defects of the Femoral Condyles. Clinically Significant Outcomes Following the Treatment of Focal Cartilage Defects of the Knee With Microfracture Augmentation Using Cartilage Allograft Extracellular Matrix: A Multicenter Prospective Study. Webinar, June 15, 2021.
19. Speaker. Case-Based Roundtable - Managing the Spectrum of Articular Cartilage and Meniscal Deficiency. ICRS Case-Based Webinar. May 15<sup>th</sup>, 2021.
20. Moderator. Marrow Stimulation and Revision Treatment. ICRS Case-Based Webinar. May 15<sup>th</sup>, 2021.
21. Presenter. Cartilage Management. Wilk Shoulder & Knee Webinar. May 15<sup>th</sup>, 2021.
22. Presenter. Management of Massive Rotator Cuff Tears. Wilk Shoulder & Knee Webinar. May 15<sup>th</sup>, 2021
23. Speaker. Meniscus Transplantation: Present Status, Indication, and Technique. Cherry Blossom Seminar. April 23<sup>rd</sup>, 2021.
24. Speaker. Cartilage Restoration: Decision-Making and Outcomes after 25 Years of Learning. Harvard Orthopaedic Surgery Zoom Grand Rounds. April 15<sup>th</sup>, 2021.
25. Speaker. The Management of Meniscal/Cartilaginous and Massive Rotator Cuff Tears: A Biochemical and Biomechanical Perspective. Select Medical Webinar. February 6<sup>th</sup>, 2021.
26. Presenter. Cartilage Repair: Case-Based Decision Making and Outcomes. Steadman Phillippon Research Institute Grand Rounds. February 4<sup>th</sup>, 2021.
27. Director. AAOS/AOSSM/AANA Sports Medicine Case Discussions Webinar. February 2<sup>nd</sup>, 2021.



28. Moderator. Massive Rotator Cuff Tears: Biologics, Repair or Graft.. What are the options for 2021? AAOS/AOSSM/AANA Sports Medicine Webinar. February 2<sup>nd</sup>, 2021.
29. Panelist. The ACL Reconstruction that continues to be unstable and painful...what to do – from ALL to Alignment to Grafts. AAOS/AOSSM/AANA Sports Medicine Webinar. February 2<sup>nd</sup>, 2021.
30. Panelist. My knee is now stable...why can't I get back to sports and strenuous activities after my ACL reconstruction? AAOS/AOSSM/AANA Sports Medicine Webinar. February 2<sup>nd</sup>, 2021.
31. Speaker. Trends in Cartilage Surgery: My Decision Making Has Evolved Over Time. OSET Virtual Summit. Dec 10, 2020.
32. Moderator. Clinical Case Presentations. OSET Virtual Summit. December 10, 2020.
33. Speaker. My Approach to Cartilage Repair in 2020. MBG Sports Medicine Service Zoom Conferenece. December 8<sup>th</sup>, 2020.
34. Speaker. Rotator Cuff Tears. To Augment or Not to Augment? Biologics Association: Orthobiologics Tonight Webinar. November 19<sup>th</sup>, 2020.
35. Moderator. Biologic Knee Joint Preservation. SBOT Knee Workshop. November 11<sup>th</sup>, 2020.
36. Speaker. Advances in Cartilage Treatment with Allograft: Decision making for BioCartilage, Cartiform, Allograft OATS/BioUni, New Backfill Plugs. SBOT Knee Workshop. November 11<sup>th</sup>, 2020/
37. Speaker. Cellular Biological Repairs. ICRS 2020 – Virtual Cartilage Regeneration Convention. October 22<sup>nd</sup>, 2020.
38. Speaker. Meniscus Preservation & Transplantation. AANA Webinar Wednesday. October 21<sup>st</sup>, 2020.
39. Speaker. Meniscus Tears. Biologic Alliance: Orthobiologics Webinar Series. October 14<sup>th</sup>, 2020.
40. Speaker. Cartilage REstoration: Indications and Expectations. AANA Webinar. October 13<sup>th</sup>, 2020.
41. Speaker. Rotator Cuff Double-Row Repair: Why and How? Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 9<sup>th</sup>, 2020.
42. Panelist. Rotator Cuff Case Review/Technical Pearls Panel: Subscap and Post-Sup Tears. Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 9<sup>th</sup>, 2020.
43. Moderator. Case Review Panel: Complex Cuff Cases/Cuff Augmentation. Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 9<sup>th</sup>, 2020.
44. Panelist. Pardon the Innovation: RC Augments/SCR/BAR/rTSA. Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 9<sup>th</sup>, 2020.
45. Speaker. SLAP, Biceps, and AC Joint - Biceps Tenodesis Cascade: Sub-Pectoral. Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 8<sup>th</sup>, 2020.
46. Panelist. Case Review Panel: Instability. Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 8<sup>th</sup>, 2020.
47. Moderator. Glenoid Bone Loss/Complex Instability. Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 8<sup>th</sup>, 2020.
48. Speaker. Anterior Instability: First-Time Dislocator and Beyond. Arthrex: Advanced Shoulder Arthroscopy – Annual Cowboy Away. October 8<sup>th</sup>, 2020.
49. Speaker. Cellular Biological Repairs. ICRS 2020 - Virtual Cartilage Regeneration Convention. October 8<sup>th</sup>, 2020.
50. Moderator. Symposium I: Orthobiologics – The Ethical, Legal, and FDA-Compliant Use and Marketing of Orthobiologics . VIRTUAL American Shoulder and Elbow Surgeons 2020 Annual Meeting. October 2<sup>nd</sup>, 2020.
51. Speaker. Biologics: Separating Fact from Fiction. AANA Fellowship Education 2020 – 2021. September 9<sup>th</sup>, 2020.
52. Speaker. Biologics in Orthopaedic Sports Medicine – General Overview and a case based application for the Knee and Shoulder. University of Connecticut Grand Rounds. September 24<sup>th</sup>, 2020.
53. Speaker. Telehealth in orthopedics: Best practices and what will stick around post-pandemic. Becker's Orthopedics. August 21<sup>st</sup>, 2020.
54. Speaker. Platelet Rich Plasma – A viable alternative?. Orthopedia Webinar -- Arthrex. August 7<sup>th</sup>, 2020.
55. Speaker. Orthoregeneration Publication Series. ON Foundation. July 31<sup>st</sup>, 2020.
56. Speaker. The Business of Sports Medicine. AOSSM 2020 Annual Meeting: Virtual. July 8<sup>th</sup>, 2020.
57. Speaker. The Business of Medicine: Hospital-Based, Academic, Private Practice – Learning How to Succeed. AOSSM ICL. June 26<sup>th</sup>, 2020.

**Brian J. Cole, M.D., M.B.A.**

58. Speaker. Decision Making in an Active Patient with Articular Cartilage Disease. Sociedade Brasileira de Artroscopia e Traumatologia do Esporte (SBARTE) Webinar. June 25<sup>th</sup>, 2020.
59. Speaker. Webinar. The Use of Stem Cells and Platelet-Rich Plasma in Orthopaedic Surgery. June 19<sup>th</sup>, 2020.
60. Speaker. Innovations in Orthobiologics. Arthrex OrthoPedia WebInHour Live Webinar Series. June 10<sup>th</sup>, 2020.
61. Speaker. Providers Re-Opening Responsibly. Intrepid Healthcare Live Webinar. June 9<sup>th</sup>, 2020.
62. Speaker. Save the Meniscus. Emirates Orthopaedic Society Live Webinar, June 5<sup>th</sup>, 2020.
63. Speaker. Perspectives on Orthoregeneration. ON Foundation Live Q&A Series, June 5<sup>th</sup>, 2020.
64. Speaker. Shoulder Massive Rotator Cuff Tear & Articular Cartilage Lesion in an Athletes Knee. Grand Rounds Live Webinar, June 2<sup>nd</sup>, 2020.
65. Speaker. Rotator Cuff Pathology. Arthroscopy Study Group India. May 29, 2020.
66. Speaker. Case Based Learning – Failed Arthroscopic Bankart Procedure: What did I miss and what to do next? 2020 ASES Fellows Virtual Symposium. May 28, 2020.
67. Speaker. Philosophy of Cartilage Repair: When to treat and when not to treat. Indian Orthopedic Society Live Webinar, May 4<sup>th</sup>, 2020.
68. Course Director. 21<sup>st</sup> Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 23-27, 2020.
69. Speaker. Case Based Learning – Knee Meniscus. 21<sup>st</sup> Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 23-27, 2020.
70. Speaker. Case Based Learning – Knee Cartilage. 21<sup>st</sup> Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 23-27, 2020.
71. Speaker. Orthobiologics in Sports Medicine and the Maturing Athlete. 21<sup>st</sup> Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 23-27, 2020.
72. Speaker. Case Presentation – Shoulder, Biceps and Cuff. 21<sup>st</sup> Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 23-27, 2020.
73. Moderator. Case-Based Learning. A Morning of Cases – Knee and Shoulder – What Would You Do? 21<sup>st</sup> Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 23-27, 2020.
74. Speaker. Case – Based Learning – Dealing with Complications and Outcomes – We’d All Like to See Better. 21<sup>st</sup> Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 23-27, 2020.
75. Speaker. Biologics: What is currently available? Biologics Alliance Summit. Carlsbad, CA. February 5-8, 2020.
76. Speaker. Augmentation to Surgery – Rotator Cuff. Biologics Alliance Summit. Carlsbad, CA. February 5-8, 2020.
77. Speaker. PRP in the office- How do Biologics Alliance Summit. Carlsbad, CA. February 5-8, 2020.
78. Speaker. Orthobiologics in Multiple Joints. Biologics Alliance Summit. Carlsbad, CA. February 5-8, 2020.
79. Speaker. Philosophy of Cartilage Repair: When to treat and when not to treat. Carlsbad, CA. February 5-8, 2020.
80. Moderator. Think like a Cartilage Surgeon – Case Presentations. Biologics Alliance Summit. Carlsbad, CA. February 5-8, 2020.

**Brian J. Cole, M.D., M.B.A.**

81. Moderator. My Best and Worst Experiences in Preclinical and Clinical Joint Repair. ICRS World Congress. Vancouver, BC. October 5-8, 2019.
82. Moderator. Free Paper Session-Biologics. ICRS World Congress. Vancouver, BC. October 5-8, 2019.
83. Speaker. Cartilage Management in the Athlete. ICRS World Congress. Vancouver, BC. October 5-8, 2019.
84. Speaker. ACL Isolate Cartilage Lesion-Leave Alone. ICRS World Congress. Vancouver, BC. October 5-8, 2019.
85. Course Director. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
86. Live Surgery: Arthroscopic Stabilization. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
87. Live Surgery: SCR. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
88. Live Surgery: MACI. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
89. Panelist. Instability Case Presentations. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
90. Panelist. Massive Rotator Cuff Tear Case Presentations. Live Surgery: SCR. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
91. Moderator. Live Surgery: Single and Double Row RCR. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
92. Moderator. Knee Case Presentations. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
93. Speaker. Meniscus Transplant, My 20 Year Experience. FORE/AANA 2019 World Series of Live Surgery. Chicago, IL. September 13-15, 2019.
94. Speaker. Superior Capsular Reconstruction – The Easy Way. 2019 AOSSM Annual Meeting. Boston, MA. July 11-14. 2019.
95. Speaker. Controversies in Rotator Cuff Surgery. Instructional Course Lecture 109. 2019 AOSSM Annual Meeting. Boston, MA. July 11-14. 2019.
96. Speaker. Business School for the Sports Medicine Practitioner. Instructional Course Lecture 208. 2019 AOSSM Annual Meeting. Boston, MA. July 11-14. 2019.
97. Speaker. Treatment of Cartilage Injuries in the Middle-Age Athlete and Ability to Return to Sports. Instructional Course Lecture 301. 2019 AOSSM Annual Meeting. Boston, MA. July 11-14. 2019.
98. Speaker. Translational Biologics. Colorado State University Board Advisory Meeting at the McIlwraith Translational Medicine Institute. Fort Collins, CO. May 6, 2019.

**Brian J. Cole, M.D., M.B.A.**

99. Speaker. Hype, Promise, and Reality: Orthopaedic Use of Biologics in 2019. Instructional Course Lecture 283. 2019 AANA Annual Meeting. Orlando, FL. May 2-4, 2019
100. Moderator. AANA/ORS/ON Clinical Translational Forum on Improving Rotator Cuff Healing. Symposium. 2019 AANA Annual Meeting. Orlando, FL. May 2-4, 2019.
101. Speaker. Osteoarticular Allograft is the Way to Go. Symposium: Knee Cartilage. 2019 AANA Annual Meeting. Orlando, FL. May 2-4, 2019.
102. Moderator. Management of Shoulder Instability in 2019 – Who, What, When, and How: A Case-Based Approach. Symposium F. 2019 AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
103. Moderator. Meniscus Management in 2019 – Debridement, Repair, Root Repair, and Transplantation: A Case-Based Approach. Symposium I. 2019 AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
104. Speaker. Biologic Preservation of the Shoulder. ICL 345. 2019 AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
105. Speaker. Shoulder Arthritis in the "Aging" Athlete: Management Strategies in 2019 from Biologics to Arthroscopy to Arthroplasty. ICL 450. 2019 AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
106. Speaker. The Personalized Approach to the Isolated Arthritic Knee: From Biologics to Metal – Drop that Total Knee Arthroplasty Tray. Case Presentation 487. 2019 AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019.
107. Speaker. Rotator Cuff Augmentation, Interpositional Grafts, and Superior Capsula Reconstruction: Orthobiologic Adjuncts, including Platelet Rich Plasma, Bone Marrow Aspirate, Adipose-derived Stem Cells, and Amniotic Tissue Products. ICL 427. 2019 AAOS Annual Meeting. Las Vegas, NV. March 12-16, 2019
108. Chairman. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
109. Panelist. Case Based Learning: Athlete's Shoulder. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
110. Moderator. Tips of the Trade: Video Technique Corner. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
111. Moderator. Managing Complex Problems of the Shoulder and Knee. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
112. Moderator. Articular Cartilage and Meniscal Deficiency. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
113. Moderator. Case Based Learning: Meniscal Tears. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.

**Brian J. Cole, M.D., M.B.A.**

114. Speaker. Management of the Athlete with Articular Cartilage Disease. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
115. Moderator. Rehabilitation Session. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
116. Speaker. Orthobiologics: Getting Paid. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
117. Moderator. Orthobiologics in Sports Medicine and the Aging Athlete. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
118. Panelist. The Unstable Shoulder: Case Based Learning. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
119. Speaker. Shoulder Instability: Arthroscopic Indications and Management of the Early Anterior Dislocator. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
120. Panelist. AC Joint, Clavicle Fractures, and Scapular Pain: Case Based Learning. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
121. Speaker. Subpectoral Tenodesis: How I Do This (Suture Anchor). 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
122. Speaker. Biologics and RCR: What Works in 2019. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
123. Speaker. Recurrent Pain, weakness and tear in a sleepless 72 year-old...patch it, SCR or call it a day and replace? 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
124. Panelist. SLAP and Biceps: Case Based Learning. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
125. Moderator. Rotator Cuff: Case Based Learning. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Park City, UT. January 30-February 4, 2019.
126. Speaker. Cellular Therapies for Rotator Cuff Repairs. Arthrex ® Orthopedic Technology & Innovation Forum. January 20-21, 2019.

**Brian J. Cole, M.D., M.B.A.**

127. Moderator. International SCR Study Group. Arthrex ® Orthopedic Technology & Innovation Forum. January 20-21, 2019.
128. Moderator. Surgical Demonstrations. Annual International Sports Medicine Fellows Conference. January 18-20, 2019
129. Speaker. Philosophy of Cartilage Repair: When to Treat, and When Not to Treat. Annual International Sports Medicine Fellows Conference. January 18-20, 2019
130. Speaker. Orthobiologic Use in Shoulder Patients. 2019 ICRS Summit. Bio-Orthopaedics in Sports Medicine. San Diego, CA. January 17-18, 2019
131. Moderator. Ligament & Muscle Healing. 2019 ICRS Summit. Bio-Orthopaedics in Sports Medicine. San Diego, CA. January 17-18, 2019
132. Speaker. The MLB Team Physicians 2018 Annual Meeting. Orthobiologics in Baseball. Las Vegas, NV. December 7-9, 2018.
133. Speaker. The Distal Tibial Allograft: New Devices Make It Possible. Orthopaedic Summit 2018: Evolving Techniques in the Shoulder Sessions. Las Vegas, NV. December 5-8, 2018.
134. Speaker. Anterior Instability with Significant Bone Loss. Orthopaedic Summit 2018: Evolving Techniques in the Shoulder Sessions. Las Vegas, NV. December 5-8, 2018.
135. Speaker. Cartilage and Biologics. ASES 2018 Annual Meeting. Chicago, IL. October 12-14, 2018.
136. Speaker. Case Discussion: Patellar Tendonitis. AOSSM Surgical Skills 2018. OrthoBiologics: Integrating Biologics and Clinical Ultrasound into Your Practice. Rosemont, IL. October 12-13, 2018.
137. Speaker. Case Discussion: Adjunct to RCR. AOSSM Surgical Skills 2018. OrthoBiologics: Integrating Biologics and Clinical Ultrasound into Your Practice. Rosemont, IL. October 12-13, 2018.
138. Speaker. Video Techniques: BMA/BMC Technique: ASIS. AOSSM Surgical Skills 2018. OrthoBiologics: Integrating Biologics and Clinical Ultrasound into Your Practice. Rosemont, IL. October 12-13, 2018.
139. Speaker. Implementing OrthoBiologics into Practice. AOSSM Surgical Skills 2018. OrthoBiologics: Integrating Biologics and Clinical Ultrasound into Your Practice. Rosemont, IL. October 12-13, 2018.
140. Moderator. OrthoBiologics in the Real World. AOSSM Surgical Skills 2018. OrthoBiologics: Integrating Biologics and Clinical Ultrasound into Your Practice. Rosemont, IL. October 12-13, 2018.
141. Co-Chair. AOSSM Surgical Skills 2018. OrthoBiologics: Integrating Biologics and Clinical Ultrasound into Your Practice. Rosemont, IL. October 12-13, 2018.
142. Course Director. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 7-9, 2018.
143. Panelist: Complex Knee Cases. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 8, 2018.
144. Speaker: Meniscus Transplant: A Decade of Experience. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 8, 2018.

**Brian J. Cole, M.D., M.B.A.**

145. Moderator: ACL Injuries. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 8, 2018.
146. Panelist: ACL Injuries Case Presentations. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 8, 2018.
147. Moderator: Knee Cartilage Case Presentations. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 8, 2018.
148. Speaker: Biologics Along the Spectrum of Cartilage Disease: From the Defects to Arthritis. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 8, 2018.
149. Surgeon: Osteochondral Allograft Transplantation and Lateral Meniscal Transplantation. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 8, 2018.
150. Speaker: Allograft Reconstruction of the Shoulder. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 7, 2018.
151. Surgeon: Live Surgery Demonstration: Rotator Cuff Repair, Subacromial Decompression, Subpectoral Biceps Tenodesis with BMAC Harvest and Injection. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 7, 2018.
152. Speaker: Shoulder Physical Exam. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 7, 2018.
153. Moderator: Rotator Cuff Case Presentations. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 7, 2018.
154. Speaker: Rotator Cuff Repair: We Need Biology. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 7, 2018.
155. Moderator: Live Surgery Demonstration: Rotator Cuff Repair. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. Chicago, IL. September 7, 2018.
156. Moderator: Live Surgery Demonstration: Shoulder Stabilization. 2018 Chicago Sports Medicine Symposium: World Series of Surgery. September 7, 2018.
157. Speaker: Cartilage Restoration in the Athlete: The U.S. Perspective. Cartilage Focus Meeting. Istanbul, Turkey. September 1, 2018.
158. Speaker: Controversies in Rotator Cuff Surgery. Instructional Course 102. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
159. Speaker: Cartilage Injuries in the Middle-Aged Athlete and Return to Pivoting Sports. Instructional Course 218. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
160. Surgeon: Live Surgery Simulcast: Superior Capsule Reconstruction and Shoulder Resurfacing. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
161. Panelist: Cartilage Panel Discussion. AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.
162. Speaker: Biologics: Financially Feasible? AOSSM 2018 Annual Meeting. San Diego, CA. July 5-8, 2018.

**Brian J. Cole, M.D., M.B.A.**

163. Speaker: Getting to Know the Godfather. 32nd Annual Kerlan-Jobe Institute Alumni Research Conference. San Diego, CA. July 5-6, 2018.
164. Speaker: Management of the Massive Rotator Cuff Tears...Case Based Approach to Decision Making. 32nd Annual Kerlan-Jobe Institute Alumni Research Conference. San Diego, CA. July 5-6, 2018.
165. Speaker: Cartilage Management of the Athlete. 32nd Annual Kerlan-Jobe Institute Alumni Research Conference. San Diego, CA. July 5-6, 2018.
166. Management of the Challenging Rotator Cuff Tear: VuMedi Webcast, June 20, 2018.
167. Speaker: Management of the Active Patient with Articular Cartilage Disease: Decision Making. Connecticut Orthopaedic Society 2018 Annual Meeting. Farmington, CT. May 11, 2018.
168. Speaker: The Massive Rotator Cuff Tear...Do All Roads Lead to Reverse Replacement? Connecticut Orthopaedic Society 2018 Annual Meeting. Farmington, CT. May 11, 2018.
169. Moderator: "Ask the Experts" Interactive Session for Knee. AANA 2018 Annual Meeting. Chicago, IL. April 28, 2018.
170. Moderator: Clinical Case Panel - Controversies in Articular Cartilage Cases. AANA 2018 Annual Meeting. Chicago, IL. April 28, 2018.
171. Moderator: Clinical Case Panel - Shoulder Controversies and Regenerative Options. AANA 2018 Annual Meeting. Chicago, IL. April 27, 2018.
172. Surgeon: Live Surgery Simulcast: Subchondroplasty with Meniscal Transplant. AANA 2018 Annual Meeting. Chicago, IL. April 27, 2018.
173. Coordinator: Orthobiologics State of the Art 2018 - What You Need to Know for Your Practice - A Case-based Approach ON Foundation. AANA 2018 Annual Meeting. Chicago, IL. April 27, 2018.
174. Surgeon: Live Surgery Simulcast - Superior Capsular Reconstruction. AANA 2018 Annual Meeting. Chicago, IL. April 26, 2018.
175. Moderator: Symposium I - The Massive Rotator Cuff Dilemma. AANA 2018 Annual Meeting. Chicago, IL. April 26, 2018.
176. Speaker: Managing Complex Knee Pathology. AANA 2018 Annual Meeting. Chicago, IL. April 27, 2018.
177. Speaker: Management of the Challenging Rotator Cuff Tear. AAOS 2018 Annual Meeting. New Orleans, LA. March 9, 2018.
178. Moderator: Meniscus Management in 2018 - Debridement, Repair, Root Repair, and Transplantation: A Case-Based Approach. AAOS 2018 Annual Meeting. New Orleans, LA. March 8, 2018.
179. Moderator: Joint Preservation Techniques for the Knee in 2018: The Utility of Biologics, Osteotomies, and Cartilage Restoration Procedures. AAOS 2018 Annual Meeting. New Orleans, LA. March 8, 2018.



**Brian J. Cole, M.D., M.B.A.**

180. Speaker: Incorporating Biologics into Your Practice: The New Horizon in Sports Medicine. AAOS 2018 Annual Meeting. New Orleans, LA. March 6, 2018.
181. Speaker: Knee Preservation Surgery in the Young Adult: A Case-Based Approach with US and International Perspectives. AAOS 2018 Annual Meeting. New Orleans, LA. March 6-10, 2018.
182. Speaker: How Much Arthritis is Too Much Arthritis for Cartilage Restoration and Meniscus Transplantation? AAOS 2018 Annual Meeting. New Orleans, LA. March 6-10, 2018.
183. Speaker: Challenges in Providing Cartilage Repair/Restoration in the High Level Athlete. AAOS 2018 Annual Meeting. New Orleans, LA. March 6-10, 2018.
184. Speaker: Where are We in Cartilage Repair in the Athlete? Third and Fourth Generation Techniques – and What I Do. AANA/AOSSM Specialty Day 2018. New Orleans, LA. March 10, 2018.
185. Course Director: 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. January 31-February 4, 2018.
186. Moderator: Rotator Cuff Problems: Faculty/Participant Case Presentations. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 3, 2018.
187. Panelist: Arthrex Spotlight Session: Innovative Sports Medicine Surgery to Improve Outcomes, Maximize Value and Expedite Return to Play. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 3, 2018.
188. Panelist: Upper Extremity Issues: Faculty/Participant Case Presentations. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 3, 2018.
189. Speaker: Biologics: Integrating Biologics into your Practice. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 3, 2018.
190. Moderator: The Patellofemoral Joint: Faculty/Participant Case Presentations: Cartilage and Patellofemoral Joint. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 2, 2018.
191. Video: Cartilage: Microfracture “Plus” BioCartilage. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 2, 2018.
192. Panelist: Allosource Spotlight Session: Allografts in cartilage restoration, current technologies, basic science and the Prochondrix Allograft. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 2, 2018.
193. Panelist: Complex Instability: Faculty/Participant Case Presentations. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 2, 2018.
194. Speaker: Complex Instability: Bone Loss: Why and How: Latarjet. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 2, 2018.
195. Panelist: The Business of Medicine: Practice Management Strategies - What Has Worked for Me. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 1, 2018.

**Brian J. Cole, M.D., M.B.A.**

196. Moderator: The Business of Medicine. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. February 1, 2018.
197. Speaker: Key Note: The Athlete and Cartilage Repair: Decision-Making. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. January 31, 2018.
198. Panelist: Posterior Cruciate and Collateral Ligament Injuries: Participants/Faculty Case Review of Pre-Course Submitted Cases. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. January 31, 2018.
199. Panelist: Posterior Cruciate and Collateral Ligament Injuries: Participants/Faculty Case Presentations and Discussions. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. January 31, 2018.
200. Panelist: Anterior Cruciate Injuries: Faculty/Participant Case Presentations and Discussions. 19th Annual AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. January 31, 2018.
201. Speaker: Cartilage Injuries and Orthobiologics in the Upper Extremity: Elbow and Shoulder Osteochondritis Dissecans Management. Orthopaedic Technology and Innovation Forum 2018, Bonita Springs, FL. January 20, 2018.
202. Faculty: Spotlight Sessions: Managing Complex Upper Extremity Pathology. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 8, 2017.
203. Speaker: Rotator Cuff: Guest Surgeon Lecture: Management of the Massive Rotator Cuff Repair: Reverse Shoulder Arthroplasty versus Superior Capsular Reconstruction. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 9, 2017.
204. Panelist: Legal Corner: Plaintiffs Beware - Complications in Shoulder Surgery: Case Presentations with Questions and Answers. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 9, 2017.
205. Panelist: Snapping Scapula Syndrome: It's Painful - Time for Us All to Learn, Pay Attention: Case Presentations with Questions and Answers. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 9, 2017.
206. Panelist: How I Do It in Lightning Fashion for Stability: The Distal Tibial Allograft. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 8, 2017.
207. Panelist: Pro: Fixing it Low: Please Look at the Science and Results. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 8, 2017.
208. Speaker: Evolving Technique: The Biceps and SLAP Lesion: Diagnosis, One More Time - How Do We Differentiate. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 8, 2017.
209. Speaker: Balance in Your Profession. 99<sup>th</sup> HSS Annual Alumni Association Meeting, New York, NY. November 10, 2017.
210. Moderator: Debate I: Pediatrics—Iliotibial Band ACL vs. All-Epiphyseal ACL Reconstruction. 99<sup>th</sup> HSS Annual Alumni Association Meeting, New York, NY. November 10, 2017.
211. Moderator: Debate II: Trauma—Conservative vs. Operative Approach to Medial, Midshaft and Far Distal Clavicle Fractures. 99<sup>th</sup> HSS Annual Alumni Association Meeting, New York, NY. November 10, 2017.

**Brian J. Cole, M.D., M.B.A.**

212. Moderator: Debate III: Hand—What I learned at HSS vs. What I do now. 99<sup>th</sup> HSS Annual Alumni Association Meeting, New York, NY. November 10, 2017.
213. Panelist: Shoulder, Knee, & Sports Medicine Panel Discussion. 2017 AANA Fall Course, Palm Desert, CA. November 4, 2017.
214. Moderator: Articular Cartilage: Case Panel Discussions with “Live Look-in Surgical Demonstration”: Knee Ligament. 2017 AANA Fall Course, Palm Desert, CA. November 3, 2017.
215. Panelist: Articular Cartilage: Panel Discussion, Question and Answer. 2017 AANA Fall Course, Palm Desert, CA. November 3, 2017.
216. Speaker: Articular Cartilage: Salvage Procedures for Failed Cartilage Surgeries. 2017 AANA Fall Course, Palm Desert, CA. November 3, 2017.
217. Panelist: How Do I Get a Rotator Cuff to Heal?: Case Panel Discussions with “Live Look-in Surgical Demonstration”: Rational Decision-making for Rotator Cuff Tears. 2017 AANA Fall Course, Palm Desert, CA. November 2, 2017.
218. Speaker: How Do I Get a Rotator Cuff to Heal?: What is Available and on the Horizon with Biologics? 2017 AANA Fall Course, Palm Desert, CA. November 2, 2017.
219. Moderator: Video Vignettes. Cartilage Repair Innovations and Advancements in Joint Preservation of the Young Arthritic Knee, Boston, MA. October 28, 2017.
220. Speaker: Cartilage Repair in Other Joints: Shoulder and Elbow. Cartilage Repair Innovations and Advancements in Joint Preservation of the Young Arthritic Knee, Boston, MA. October 28, 2017.
221. Speaker: Video Vignettes: Marrow Stimulation. Cartilage Repair Innovations and Advancements in Joint Preservation of the Young Arthritic Knee, Boston, MA. October 27, 2017.
222. Speaker: Video Vignettes: Osteochondral Autograft. Cartilage Repair Innovations and Advancements in Joint Preservation of the Young Arthritic Knee, Boston, MA. October 27, 2017.
223. Speaker: Surgical Treatment Options: Algorithms for Cartilage Repair - Tibiofemoral and Patellofemoral. Cartilage Repair Innovations and Advancements in Joint Preservation of the Young Arthritic Knee, Boston, MA. October 27, 2017.
224. Moderator: Surgical Treatment Options. Cartilage Repair Innovations and Advancements in Joint Preservation of the Young Arthritic Knee, Boston, MA. October 27, 2017.
225. Moderator: Shoulder Instability. 2017 Innovative Techniques: Knee, Hip, and Shoulder Course, Las Vegas, NV. October 20, 2017.
226. Moderator: Orthobiologics and Rehabilitation. 2017 Innovative Techniques: Knee, Hip, and Shoulder Course, Las Vegas, NV. October 20, 2017.
227. Speaker: Orthobiologics: Injection Therapy for Early Osteoarthritis: How Do I Decide What to Offer My Patients. 2017 Innovative Techniques: Knee, Hip, and Shoulder Course, Las Vegas, NV. October 20, 2017.

**Brian J. Cole, M.D., M.B.A.**

228. Speaker: Keynote Address: Achieving Balance in Life and the Workplace. 12<sup>th</sup> Annual Colorado University Sports Medicine Fall Symposium, Boulder, CO. September 22, 2017.
229. Speaker: Articular Cartilage Injury in the Athlete's Knee: Management of the Athlete with Cartilage Injury. 12<sup>th</sup> Annual Colorado University Sports Medicine Fall Symposium, Boulder, CO. September 22, 2017.
230. Speaker: Injury to the Athlete's Knee: Meniscus Transplantation? Lessons learned after two decades of experience. 12<sup>th</sup> Annual Colorado University Sports Medicine Fall Symposium, Boulder, CO. September 22, 2017.
231. Moderator: Technique Corner. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 5, 2017.
232. Panelist: Knee: Case Panel. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 5, 2017.
233. Speaker: Knee: Knee Injections and Biologics. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 5, 2017.
234. Panelist: Rotator Cuff: Case Panel. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 4, 2017.
235. Speaker: Massive Cuff: Alternate Options. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 4, 2017.
236. Speaker: Massive Cuff: Patient Presentation and Physical Exam. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 4, 2017.
237. Surgeon: Live Surgical Demonstration: Arthroscopic Rotator Cuff Repair. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 4, 2017.
238. Speaker: Shoulder Instability: Bone Loss and Instability. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 4, 2017.
239. Moderator: Live Surgical Demonstration: Arthroscopic Stabilization. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 4, 2017.
240. Moderator: Live Surgical Demonstration: Open Laterjet. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 4, 2017.
241. Speaker: Stump the Panel: Audience Care-Presentations. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3, 2017.
242. Speaker: The Athlete and Cartilage Repair: How Do They Differ? 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3, 2017.
243. Speaker: Video Spotlight: Bone Marrow Aspirate Concentrate. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3, 2017.
244. Surgeon: Live Surgical Demonstration: Osteochondritis Dissecans Fixation. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3, 2017.

**Brian J. Cole, M.D., M.B.A.**

245. Surgeon: Live Surgical Demonstration: Meniscus Allograft Transplant and Osteochondral Autograft Transplant. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3, 2017.
246. Surgeon: Live Surgical Demonstration: Osteochondral Allograft. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3, 2017.
247. Surgeon: Live Surgical Demonstration: Definitive vs. Staged Decision-Making. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3, 2017.
248. Speaker: Instructional Course: Failed Cartilage Repair: Why and What's the Next Step? AOSSM 2017 Annual Meeting, Toronto, Canada. July 22, 2017.
249. Speaker: Instructional Course: Unicompartamental Knee Arthritis in the Athletic Patient: Return to Sport. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20, 2017.
250. Speaker: Business of Sports Medicine: Utilizing Physician Extenders: Cost Benefit. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20, 2017.
251. Speaker: Cartilage and Meniscus: The Competitive Athlete with Full-Thickness Cartilage Defect – My Algorithm. AOSSM 2017 Annual Meeting, Toronto, Canada. July 20, 2017.
252. Speaker: Long-term Clinical Studies of ACI/MACI: A 25 Year Perspective. ICRS Heritage Summit. Gothenburg, Sweden. June 30, 2017
253. Speaker: The Case for Double Row Repair. San Diego Shoulder Course 34<sup>th</sup> Annual Meeting. San Diego, CA. June 15, 2017.
254. Panelist: Case Conclusion: Patient with a Medium Size Tear Involving Supraspinatus and with Biceps Symptoms. San Diego Shoulder Course 34<sup>th</sup> Annual Meeting. San Diego, CA. June 15, 2017.
255. Moderator: Panel Discussion: Cuff Treatment Options. San Diego Shoulder Course 34<sup>th</sup> Annual Meeting. San Diego, CA. June 15, 2017.
256. Moderator: Case Presentation: Athlete with Recurrent Traumatic Instability with Minimal Bone Loss. San Diego Shoulder Course 34<sup>th</sup> Annual Meeting. San Diego, CA. June 15, 2017.
257. Panelist: Case Outcome: Athlete with Recurrent Traumatic Instability with Minimal Bone Loss. San Diego Shoulder Course 34<sup>th</sup> Annual Meeting. San Diego, CA. June 15, 2017.
258. Instructor: Cadaveric Labs: Arthroscopy: Cuff Repair, Instability, Biceps Repair. San Diego Shoulder Course 34<sup>th</sup> Annual Meeting. San Diego, CA. June 16, 2017.
259. Panelist: Clinical Case Panel: Articular Cartilage Injuries. AANA 36<sup>th</sup> Annual Meeting. Denver, CO. May 20, 2017.
260. Instructional Course Director: State of the Art Approach to Chondral Injury. AANA 36<sup>th</sup> Annual Meeting. Denver, CO. May 19, 2017.
261. Moderator: Clinical Case Panel: Rotator Cuff. AANA 36<sup>th</sup> Annual Meeting. Denver, CO. May 18, 2017.

**Brian J. Cole, M.D., M.B.A.**

262. Moderator: Mini Symposium on Rotator Cuff Tear Cases. AANA Specialty Day. San Diego, CA. March 18, 2017.
263. Moderator: Focus on Cartilage – Surgical Spotlight: Treatment of Articular Cartilage Defects. AOSSM Specialty Day. San Diego, CA. March 18, 2017.
264. Panelist: Challenging Shoulder and Knee Cases: My Toughest and How I Handled it. AANA & SOMOS Specialty Day. San Diego, CA. March 18, 2017.
265. Moderator: Instructional Course Lecture – Establishing and Managing the Medical Care Organization for Team Physicians. AAOS Annual Meeting 2017. San Diego, CA. March 16, 2017.
266. Speaker: Failed Shoulder Surgery – Now What Do I Do? AAOS Annual Meeting 2017. San Diego, CA. March 16, 2017.
267. Moderator: Instructional Course Lecture – Joint Preservation Techniques for the Knee in 2017: The Utility of Biologics, Osteotomies, and Cartilage Restoration Procedures. AAOS Annual Meeting 2017. San Diego, CA. March 15, 2017.
268. Speaker: Cartilage Repair in the Competitive Athlete. METCALF/AANA: 2017 Arthroscopic Surgery Seminar. February 25, 2017.
269. Course Director: 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 8-12, 2017.
270. Speaker: The Athlete’s Shoulder: SLAP, Biceps, and anterior instability - SLAP and Biceps: Decision Making. Steamboat, CO. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 9<sup>th</sup>, 2017.
271. Panelist: Live Case Presentations: Shoulder. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 9<sup>th</sup>, 2017.
272. Moderator: The Business of Medicine. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 9<sup>th</sup>, 2017.
273. Panelist: The Business of Medicine – the most financially impactful practice strategies (Injection therapy, ultrasound, IME/Workers Comp., Branding, Social Media). 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 9<sup>th</sup>, 2017.
274. Speaker: Decision-Making in Cartilage Restoration. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 10<sup>th</sup>, 2017.
275. Speaker: Microfracture “Plus” Biocartilage. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 10<sup>th</sup>, 2017.

**Brian J. Cole, M.D., M.B.A.**

276. Key Note Speaker: The Use of Stem Cells and PRP for Articular Cartilage Disease and Rotator Cuff. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 10<sup>th</sup>, 2017.
277. Moderator: Faculty/Participant Round Table Case Presentations on Cartilage Repair. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 10<sup>th</sup>, 2017.
278. Speaker: Meniscus Transplantation: 2 Decades of Experience. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 11<sup>th</sup>, 2017.
279. Key Note Speaker: Biologics and Scaffolds in the Shoulder. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 11<sup>th</sup>, 2017.
280. Moderator: Faculty/Participant Round Table Case Presentations on Rotator Cuff Problems. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques. Steamboat, CO. February 11<sup>th</sup>, 2017.
281. Speaker: Instability – Glenoid Bone Loss and Instability – A Quick Primer. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 10<sup>th</sup>, 2016.
282. Speaker: Bone Loss in Instability: I use Distal Tibial Allograft. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 9<sup>th</sup>, 2016.
283. Panelist: Massive Rotator Cuff Tear Continuum of Care Workshop. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 9<sup>th</sup>, 2016.
284. Speaker: Massive Rotator Cuff Repair Techniques. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 9<sup>th</sup>, 2016.
285. Panelist: Biceps and Labral Pathology – Stump the Stars! Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 9<sup>th</sup>, 2016.
286. Moderator: Labrum and Biceps Session. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 9<sup>th</sup>, 2016.
287. Speaker & Demonstrator: Evolving Technique Update: How I Diagnose a Partial Proximal Biceps Tear. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 9<sup>th</sup>, 2016.
288. Speaker: PRP and Bone Marrow Aspirate for Adhesive Capsulitis: Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 9<sup>th</sup>, 2016.
289. Speaker & Moderator: Addressing the Incidental Cartilage Lesion. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 8<sup>th</sup>, 2016.
290. Vice-Chairman Shoulder Sports Medicine: Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 7-10<sup>th</sup>, 2016.

**Brian J. Cole, M.D., M.B.A.**

291. Demonstrator: Surgical Approach to the Labrum and Biceps in Overhead Athlete. AANA Fall Course, Las Vegas, NV, November 12<sup>th</sup>, 2016.
292. Speaker: Microfracture: Is It As Bad As Recent Studies Report? AANA Fall Course, Las Vegas, NV, November 11<sup>th</sup>, 2016.
293. Moderator: Articular Cartilage Session. AANA Fall Course, Las Vegas, NV, November 11<sup>th</sup>, 2016.
294. Speaker: Should I be Using Biologics? Session: How do I Get a Rotator Cuff Tear to Heal? AANA Fall Course, Las Vegas, NV, November 10<sup>th</sup>, 2016.
295. Speaker: Management of Failed Meniscus Transplants. International Congress For Joint Reconstruction – Middle East. Dubai. November 4<sup>rd</sup>, 2016.
296. Speaker: ACL: Epidemiology of Disease, Prevention and Return to Sport. International Congress For Joint Reconstruction – Middle East. Dubai. November 4<sup>rd</sup>, 2016.
297. Moderator: Sports Session. International Congress For Joint Reconstruction – Middle East. Dubai. November 3<sup>rd</sup>, 2016.
298. Speaker: PRP, Stem Cells and More in Cartilage Repair and OA. International Congress For Joint Reconstruction – Middle East. Dubai. November 3<sup>rd</sup>, 2016.
299. Speaker: Cartilage Restoration: Indications and Decision-Making. International Congress For Joint Reconstruction – Middle East. Dubai. November 3<sup>rd</sup>, 2016.
300. Speaker: Biologics in Shoulder Repair. International Congress For Joint Reconstruction – Middle East. Dubai. November 3<sup>rd</sup>, 2016.
301. Speaker: Rotator Cuff Repair: How Are We Really Doing? International Congress For Joint Reconstruction – Middle East. Dubai. November 3<sup>rd</sup>, 2016.
302. Speaker: Management of First Time Dislocator. International Congress For Joint Reconstruction – Middle East. Dubai. November 3<sup>rd</sup>, 2016.
303. Moderator: Shoulder Instability Session. International Congress For Joint Reconstruction – Middle East. Dubai. November 3<sup>rd</sup>, 2016.
304. Speaker: Joint Preservation: Current Options and Future Innovations (Resurfacing and Osteochondral Options). Institute for Regenerative Medicine Symposium. Munich, Germany. October 29<sup>th</sup> 2016.
305. Speaker: Biologic Treatment Options in Shoulder Repair. Institute for Regenerative Medicine Symposium. Munich, Germany. October 28<sup>th</sup> 2016.
306. Speaker: Spare the Scalpel. IL Self Insurance Corp, Oakbrook, IL, October 13, 2016.
307. Speaker: New Strategies Using Allogenic Tissues and Cells. ICRS World Congress, Sorrento – Naples, Italy, September 25-27 2016.



**Brian J. Cole, M.D., M.B.A.**

- 308. The Way I See It...Challenges of Sports Medicine: Team Physicians, Interactive AAOS Webinar, August 9, 2016.
- 309. Speaker: Meniscus Transplant: A Decade of Experience. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 310. Moderator: ACL Injuries. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 311. Speaker: Case Presentations, Question and Answer. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 312. Speaker: Stem Cells and PRP: What's the Evidence? Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 313. Instructor: Live Surgical Demonstration – Cartilage Procedure. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 314. Instructor: Shoulder Physical Exam. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 315. Panelist: Cuff/SLAP Case Presentations, Question and Answer. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 316. Speaker: Rotator Cuff Repair: So Many Options... How Do We Choose? Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 317. Instructor: Live Surgical Demonstration – Arthroscopic Stabilization. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016.
- 318. Moderator: Live Surgical Demonstration – Cartilage Resurfacing. AOSSM Annual Meeting, Colorado Springs, CO, July 9<sup>th</sup>, 2016.
- 319. Speaker: New Frontiers in Knee Articular Cartilage. AOSSM Annual Meeting, Colorado Springs, CO, July 9<sup>th</sup>, 2016.
- 320. Moderator: Guided Poster Tours, Topic: “Throw/Misc.” AOSSM Annual Meeting, Colorado Springs, CO, July 9<sup>th</sup>, 2016.
- 321. Failed Cartilage Repair: Why and What’s the Next Step? AOSSM Annual Meeting, Colorado Springs, CO, July 8<sup>th</sup>, 2016.
- 322. Speaker: Balancing It All: Maximizing Productivity and Efficiency while Enabling the Team. AOSSM Annual Meeting, Colorado Springs, CO, July 7<sup>th</sup>, 2016.
- 323. Speaker: Share Experience in High Level Athletes for OCA and Meniscus. Allosource Ortho Cartilage Restoration Forum, Colorado Springs, CO, July 6<sup>th</sup>, 2016.
- 324. Speaker: Share Experience in High Level Athletes for OCA and Meniscus: JRF Ortho Cartilage Restoration Forum, Colorado Springs, CO, July 6<sup>th</sup>, 2016.

**Brian J. Cole, M.D., M.B.A.**

325. Instructor: Exclusive Personalized Instructional Cadaver Laboratory opportunities. San Diego Shoulder: Arthroscopy, Arthroplasty, Fractures. 33<sup>rd</sup> Annual San Diego Course, San Diego, CA, June 22, 2016.
326. Rotator Cuff Instructional Course: My Preference is Double Row – Evidence and Practice. San Diego Shoulder: Arthroscopy, Arthroplasty, Fractures. 33<sup>rd</sup> Annual San Diego Course, San Diego, CA, June 23, 2016.
327. Moderator: Tendon Healing, Superior Capsular Reconstruction, and the Role of PRP and Other Biologics. Arthroscopy, Arthroplasty, Fractures. 33<sup>rd</sup> Annual San Diego Course, San Diego, CA, June 23, 2016.
328. Panelist: Case Outcome: Medium Posterosuperior Rotator Cuff Tear. San Diego Shoulder: Arthroscopy, Arthroplasty, Fractures. 33<sup>rd</sup> Annual San Diego Course, San Diego, CA, June 23, 2016.
329. Rotator Cuff Instructional Course: Biologics have a Role in Getting it to Heal. San Diego Shoulder: Arthroscopy, Arthroplasty, Fractures. 33<sup>rd</sup> Annual San Diego Course, San Diego, CA, June 23, 2016.
330. Panelist: Case Outcome: Massive Rotator Cuff Tear. San Diego Shoulder: Arthroscopy, Arthroplasty, Fractures. 33<sup>rd</sup> Annual San Diego Course, San Diego, CA, June 23, 2016.
331. How We Throw and Why We Get Hurt. Chicago Sports Medicine Society, Spring 2016 Educational Meeting and Seminar, Chicago, IL, May 7, 2016.
332. Spare the Scalpel: Alternatives to Surgery in the Occupational Setting. Midwest Occupational Medicine Seminar, Oakbrook, IL, May 5, 2016.
333. Spare the Scalpel: A Surgeon's Perspective on the Future of Orthopedic Medicine. TedxRushU Presentation, Chicago, IL, April 30, 2016
334. Panelist: Clinical Case Panel –Articular Cartilage. AANA Annual Meeting, Boston, MA, April 16, 2016.
335. Innovations in Meniscus and Cartilage Repair. AANA Annual Meeting, Boston, MA, April 15, 2016
336. Coordinator: State of the Art Approach to Chondral Injury. AANA Annual Meeting, Boston, MA, April 14, 2016
337. Biologics in Shoulder Reconstruction...What is the Evidence? American Osteopathic Association, Pheonix, AZ, April 6, 2016.
338. Cartilage Restoration: Decision-Making, Henry Ford Orthopedic Grand Rounds, Detroit, MI, April 2, 2016.
339. Meniscus Transplantation: State of the Art 2015 and Beyond. AANA Specialty Day, Orlando, Florida, March 5, 2016.
340. Panelist: Case-Based Approaches. AANA Specialty Day, Orlando, Florida, March 5, 2016.
341. Moderator: Articular Cartilage Disease and Meniscal Deficiency. AAOS Annual Meeting, Orlando, Florida, March 4, 2016.
342. Moderator: The Way I See It...Orthopaedists Changing the Game. AAOS Annual Meeting, Orlando, Florida, March 4, 2016.

**Brian J. Cole, M.D., M.B.A.**

343. The Way I See It – Biologics, Stem Cells and PRP in OA and Cartilage Disease. AAOS Annual Meeting, Orlando, Florida, March 4, 2016.
344. Moderator: Joint Preservation Techniques for the Knee in 2016: The Utility of Biologics, Osteotomies, and Cartilage Restoration Procedures? AAOS Annual Meeting, Orlando, Florida, March 4, 2016.
345. The Way I See It: Team Physicians: Challenges of Sports Medicine. AAOS Annual Meeting, Orlando, Florida, March 3, 2016.
346. The Four Most Common Types of Cartilage Damage You Will See in Practice: How We Treat Them and Why, AAOS Annual Meeting, Orlando, Florida, March 1, 2016.
347. Articular cartilage defects and microfracture “plus” Can we make it better? Metcalf/AANA Arthroscopy, Sun Valley, Idaho, February 4-7, 2016.
348. Rotator cuff surgery and biologic augmentation: What is the evidence? Metcalf/AANA Arthroscopy, Sun Valley, Idaho, February 4-7, 2016.
349. Practical articular cartilage management for YOU. Metcalf/AANA Arthroscopy, Sun Valley, Idaho, February 4-7, 2016.
350. Osteoarticular allograft for chondral defects. Metcalf/AANA Arthroscopy, Sun Valley, Idaho, February 4-7, 2016.
351. When and how of A-C joint reconstruction. Metcalf/AANA Arthroscopy, Sun Valley, Idaho, February 4-7, 2016.
352. Biologics and Scaffolds in the Shoulder: What Really Works. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 30, 2016.
353. The Stiff and Painful Shoulder: DJD in Those Who Wish to Regain or Remain Highly Active. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 30, 2016.
354. The Use of Stem Cells, PRP in the Treatment of Osteoarthritis and Articular Disease. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 30, 2016.
355. Meniscus Transplantation: 18 years of Experience. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 29, 2016.
356. Overview and Outcomes of Cartilage Restoration. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 29, 2016.
357. The First Time Dislocator In-Season: Panel Presentation/Debate. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 28, 2016.

**Brian J. Cole, M.D., M.B.A.**

358. Biceps and Slap Tears: Repair, Fix or Cut. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 28, 2016.
359. The "Branded" Medical Team: Maximizing the Output of Your Physician Extenders. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 28, 2016.
360. ACL Prevention and Return to Sport. National Athletic Trainers' Association (NATA), Northfield, IL, January 26, 2016.
361. Throwing Injuries: Prevention and Treatment. National Athletic Trainers' Association (NATA), Northfield, IL, January 26, 2016.
362. PRP and Stem Cells in Orthopedics, The MLB Team Physician Meeting, Nashville, TN, December 5, 2015.
363. Repair the Massive Rotator Cuff Tear, Orthopaedic Summit 2015: Evolving Techniques, Las Vegas, NV, December 4, 2015.
364. Case Presentations; Managing Shoulder Instability, Orthopaedic Summit 2015: Evolving Techniques, Las Vegas, NV, December 4, 2015.
365. Knotless Techniques and Labral Tape, Orthopaedic Summit 2015: Evolving Techniques, Las Vegas, NV, December 4, 2015.
366. Lateral Tibial Plateau Subchondroplasty, Fall Arthroscopy Association of North America, Dallas, Texas, November 13, 2015.
367. We need biology for rotator cuff repair: Repair with biologic augmentation. Fall Arthroscopy Association of North America, Dallas, Texas, November 12, 2015.
368. Live Surgical Focus Demo: Arthroscopic Glenohumeral Stabilization Techniques, Fall Arthroscopy Association of North America, Dallas, Texas, November 12, 2015.
369. PRP and Biologics in the Management of OA, Sports Knee Surgery, Staffordshire, UK, November 3, 2015.
370. Allografts and Biocartilage, Sports Knee Surgery, Staffordshire, UK, November 3, 2015.
371. Meniscus Allograft Transplantation, Sports Knee Surgery, Staffordshire, UK, November 3, 2015.
372. Cartilage Restoration: Decision-Making and Overview. Boston Sports Medicine Course, Boston, MA, October 30, 2015.
373. How and Why I do Double Row Rotator Cuff Repair, The Cowboy Way, San Antonio, Tx, October 15-15, 2015.

**Brian J. Cole, M.D., M.B.A.**

374. Biologics in Rotator Cuff Repair, Are we Making a Difference. The Cowboy Way, San Antonio, Tx, October 15-15, 2015.
375. Biceps Tenodesis. Low is Better. The Cowboy Way, San Antonio, Tx, October 15-15, 2015.
376. Achieving Balance in Life and Practice. The Cowboy Way, San Antonio, Tx, October 15-15, 2015.
377. Management of patellofemoral instability in sports. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
378. Biceps Management: Tenotomy or Tenodesis. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
379. Failed Shoulder Instability Management. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
380. Decision-Making in Cartilage Repair. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
381. Meniscus Allograft Transplantation. Indications and Techniques. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
382. Non-Arthroplasty Management of Glenohumeral Arthritis. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
383. Orthobiologics in the Shoulder. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
384. Osteochondral Allograft Transplantation. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
385. Rotator Cuff Repair...Are our patients really satisfied? 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
386. Management of the Complex Patient with Cartilage Disease. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
387. ACL Prevention and Return to Sport. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
388. Tips and Pearls: ACL Reconstruction. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.
389. PRP and Stem Cells in the Management of Articular Cartilage and Osteoarthritis. 8<sup>th</sup> Annual International Arthroscopy and Sports Medicine Congress, Cartagena, Columbia, October 21-24, 2015.

**Brian J. Cole, M.D., M.B.A.**

390. Decision-Making in Rotator Cuff Repair: Case-Based Learning (Moderator). 31<sup>st</sup> Annual Closed Shoulder Elbow Society, Asheville, NC, October 9, 2015.
391. Stem Cells and PRP. Do they work and how are they regulated? Michigan Orthopedic Society Annual Meeting, Detroit, MI, October 1, 2015.
392. Cartilage Restoration: Decision-Making and Implementation. Michigan Orthopedic Society Annual Meeting, Detroit, MI, October 1, 2015.
393. Management of the 7 Footer with Knee Pain; The NBA Experience. Innovations in Orthopedics, Las Vegas, Nevada, September 14, 2015.
394. Stem Cells and PRP. Do they work and how are they regulated? Innovations in Orthopedics, Las Vegas, Nevada, September 14, 2015.
395. The Best Evidence for Cartilage Restoration. Innovations in Orthopedics, Las Vegas, Nevada, September 14, 2015.
396. Decision-Making in Cartilage Repair, Colorado University Department of Orthopedics, Denver, CO, September 2, 2015.
397. Decision-Making in Cartilage Repair, Rush Core Lecture Series, August 31, 2015.
398. Key Note Lecture: Assessing the patient with chondral disease. Physician's Assistant Annual Meeting, Chicago, IL, August 18, 2015.
399. Live Surgical Demonstration: Meniscal Allograft and Osteochondral Allograft Transplantation, 1<sup>st</sup> Annual Chicago Sports Medicine Symposium. Chicago, IL, August 15, 2015.
400. 10 Years of Meniscal Allograft Reconstruction, 1<sup>st</sup> Annual Chicago Sports Medicine Symposium. Chicago, IL, August 15, 2015.
401. Overview of Cartilage Restoration. 1<sup>st</sup> Annual Chicago Sports Medicine Symposium. Chicago, IL, August 15, 2015.
402. Case Presentations: Cartilage Repair. 1<sup>st</sup> Annual Chicago Sports Medicine Symposium. Chicago, IL, August 15, 2015.
403. Advanced Techniques in Rotator Cuff Repair, 1<sup>st</sup> Annual Chicago Sports Medicine Symposium. Chicago, IL, August 14, 2015.
404. Arthroscopic Stabilization: Techniques for Success. , 1<sup>st</sup> Annual Chicago Sports Medicine Symposium. Chicago, IL, August 14, 2015.
405. Preventing Throwing Injuries in our Youth Athletes. 3<sup>rd</sup> Annual Youth Sports Injury Prevention Seminar. Cellular Field, Chicago, IL, August 7, 2015.

**Brian J. Cole, M.D., M.B.A.**

406. Speaker: Update on Stem Cells and Platelet-Rich Plasma Treatment for Osteoarthritis and Articular Cartilage: Is and How Is the FDA Involved? AOSSM Annual Meeting, Orlando, FL, July 9, 2015.
407. Arthroscopic RCR: SR, DR....what do we really know? 32nd Annual Shoulder Symposium, San Diego, CA, June 17, 2015.
408. Moderator and Presenteer: Case-Based Learning: Rotator Cuff Repair, 32<sup>nd</sup> Annual Shoulder Symposium, San Diego, CA, June 17, 2015.
409. Biologics in Shoulder Reconstruction, 32<sup>nd</sup> Annual Shoulder Symposium, San Diego, CA, June 17, 2015.
410. Shoulder Arthroplasty Lab Leader, 32<sup>nd</sup> Annual Shoulder Symposium, San Diego, CA, June 16, 2015.
411. Update on BioCartilage, Arthrex Fellows Forum, Naples, FL, June 7, 2015.
412. Decision-Making in Cartilage Repair, Rush Department of Orthopedics Adult Reconstruction Lecture Series, Chicago, IL, May 27, 2015.
413. The Future of Cartilage Repair, Arthrex Hip Symposium, Chicago, IL, April 15, 2015.
414. Moderator: Decision-Making: Getting the Right Patient. 12<sup>th</sup> ICRS World Congress, Chicago, IL, May 10, 2015.
415. Speaker: Decision-Making in Cartilage Repair: A Patient-Centered Approach. 12<sup>th</sup> ICRS World Congress, Chicago, IL, May 10, 2015.
416. Speaker: Meniscus Transplantation: Solution or a Bridge Procedure? 12<sup>th</sup> ICRS World Congress, Chicago, IL, May 9, 2015.
417. Speaker: Bone Marrow Stimulation Procedures: 'Alone' and 'Plus'. 12<sup>th</sup> ICRS World Congress, Chicago, IL, May 8, 2015.
418. Faculty: ICRS 6<sup>th</sup> Surgical Skills Course, AAOS/Orthopedic Learning Center, Chicago, IL. May 6- 7, 2015.
419. Moderator: Meniscus Session – ICRS 6<sup>th</sup> Surgical Skills Course, AAOS/Orthopedic Learning Center, Chicago, IL. May 6, 2015.
420. Lab Leader: Hands-on Skills: Meniscal Repair and Transplantation, ICRS 6<sup>th</sup> Surgical Skills Course, AAOS/Orthopedic Learning Center, Chicago, IL. May 6, 2015.
421. Speaker and Live Demo: Cartilage Session: Marrow Stimulation, Microfracture and Drilling. ICRS 6<sup>th</sup> Surgical Skills Course, AAOS/Orthopedic Learning Center, Chicago, IL. May 7, 2015.
422. Management of Articular Cartilage Disease: Navigating the Regulatory Process, North Carolina State University School of Veterinary Medicine, Raleigh-Durham, NC, April 9, 2015.
423. The Overhead Athlete, Latin School of Chicago, Chicago, IL, April 7, 2015.

**Brian J. Cole, M.D., M.B.A.**

424. Moderator: Treatment of Knee, Shoulder, and Elbow Osteoarthritis: Non-Arthroplasty Methods. ASES/AANA/AOSSM Specialty Day, Las Vegas, NV, March 28, 2015.
425. Treat a Bony Problem with a Bony Solution: Latarjet. AANA Specialty Day, Las Vegas, NV, March 28, 2015.
426. Panelist: Case-Based Symposium: Knee Articular Cartilage Treatment 2015 – Hero or Goat. AOSSM Specialty Day, Las Vegas, NV, March 28, 2015.
427. Scaffolds and Stem Cells: Are America’s Patients Suffering Because of Over Regulation? AANA Specialty Day, Las Vegas, NV, March 28, 2015.
428. Arthroscopic-Assisted Anatomic Reconstruction: How to Finally Get this Right. AANA Specialty Day, Las Vegas, NV, March 28, 2015.
429. The Four Most Common Types of Cartilage Damage You Will See in Practice: How We Treat Them and Why, AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
430. Moderator: Annual Meeting Highlights. AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
431. Panelist: Residency Core Competencies and Surgical Tips and Tricks. AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
432. Panelist: Shoulder Surgery, Getting it Right! An ARS Symposium. AAOS Annual Meeting, Las Vegas, NV, March 24-28, 2015.
433. The Low Down on Dehydrated Allogeneic Cartilage Scaffold, Metcalf Meeting, Snowbird, Utah, March 6, 2015.
434. Assessing the Patient with Chondral Injury: Who and when should we treat? Snowbird, Utah, March 6, 2015.
435. Biceps Tenodesis - Gotta Go down Low. Snowbird, Utah, March 5, 2015.
436. Biologics in the Shoulder..What’s all the Fuss? Snowbird, Utah, March 5, 2015.
437. Basic Arthroscopic Bankart Repair-But you have to be comfortable with accessory portals, Snowbird, Utah, March 5, 2015.
438. Course Chairman, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 25-March 1, 2015.
439. The Stiff and Painful Degenerative Shoulder: Keeping Them Active, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 28, 2015.
440. Biceps Tenodesis or Tenotomy...How do we Decide and Does it Really Matter? 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 28, 2015.
441. Case Presentations, SLAP and Biceps, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 28, 2015.



**Brian J. Cole, M.D., M.B.A.**

442. Case Presentations, Patellar Instability, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
443. Key Note Lecture: PRP, Stem Cells and Next Generation “Below-The-Bar” Products, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
444. Management of Articular Cartilage Disease of the PF Joint, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
445. Video Technique: How to do a Meniscus Transplantation, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
446. Case Presentations: OCD, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
447. Cartilage Replacement in the Athlete: What can we count on? 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
448. Case Presentations: Meniscectomized Patients, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
449. Management of OCD: Case-Based Decision-Making, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 27, 2015.
450. Revision Glenohumeral Joint Instability Surgery: Techniques and Pearls, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 26, 2015.
451. Working with Agents and Medical Legal and Ethical Aspects of Managing Athletes, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 26, 2015.
452. Case Presentations: Pediatric ACL, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Warriors, Park City, UT, February 25, 2015.
453. Decision-Making in Cartilage Repair, Long Island Jewish Hospital, February 16, 2015.
454. Stem Cells in the Management of Articular Cartilage Disease, Arab Health Society, Dubai, AE, January 27, 2015.
455. Decision-Making in Cartilage Repair, Arab Health Society, Dubai, AE, January 27, 2015.
456. ACL Prevention, Treatment and Rehabilitation, Arab Health Society, Dubai, AE, January 25, 2015.
457. Stem Cells and Growth Factors, Arthrex Faculty Forum, Naples, FL, Friday, January 10, 2015.

**Brian J. Cole, M.D., M.B.A.**

458. Stem Cells and Growth Factors, AANA Masters Experience, Advances in Knee Surgery, Cartilage Focus, Chicago, IL, November 21, 2014.
459. Allograft Meniscus Transplantation, AANA Masters Experience, Advances in Knee Surgery, Cartilage Focus, Chicago, IL, November 22, 2014.
460. Microfracture: Pro, AANA Masters Experience, Advances in Knee Surgery, Cartilage Focus, Chicago, IL, November 22, 2014.
461. Biologics in the Management of Osteoarthritis and Localized Cartilage Defects, 58<sup>th</sup> Annual Edward T Smith Orthopaedic Lectureship, Houston, Texas, November 14, 2014.
462. Key-Note Lecture: Translational Biologics. Illinois Athletic Trainers Association Annual Meeting, November 9, 2014.
463. Moderator: Speed Bridge Knotless Rotator Cuff Repair. Arthroscopy Association Fall Annual Meeting, Palm Desert, CA, November 8, 2014.
464. Knee Lab Coordinator. Arthroscopy Association Fall Annual Meeting, Palm Desert, CA, November 8, 2014.
465. Live Demonstration: Management of the PF Joint: Instability and Articular Cartilage Disease. Arthroscopy Association Fall Annual Meeting, Palm Desert, CA, November 7, 2014.
466. Meniscus Allograft Transplantation: Indications, Techniques and Outcomes. Arthroscopy Association Fall Annual Meeting, Palm Desert, CA, November 7, 2014.
467. Panelist: Case-Based Learning on Meniscus Tears. Arthroscopy Association Fall Annual Meeting, Palm Desert, CA, November 7, 2014.
468. Rotator Cuff Repair: Footprint Reconstruction is Best. Arthroscopy Association Fall Annual Meeting, Palm Desert, CA, November 6, 2014.
469. Evaluation of Glenoid Bone Loss: MRI vs CT. Arthroscopy Association Fall Annual Meeting, Palm Desert, CA, November 6, 2014.
470. Overview of ACL Prevention, Treatment and Return to Sport. SNOW Annual Research Conference, Chicago, IL, October 22, 2014.
471. ACL Prevention Strategies, Chicago City Soccer, Chicago, IL, October, 20, 2014.
472. Case Based Learning: Occupational Injury...Is it Related? Chicago, IL, October 17, 2014.
473. Achieving Balance in Life and Work, Visiting Professor Key Note Lecture, UCSD, San Diego, CA, October 15, 2014.

**Brian J. Cole, M.D., M.B.A.**

474. Translational Biologics, Visiting Professor Key Note Lecture, UCSD, San Diego, CA, October 15, 2014.
475. Medical Mission to Kenya: Starting a Sports Medicine Program, Visiting Professor Key Note Lecture, UCSD, San Diego, CA, October 15, 2014.
476. Allograft Reconstruction in the Glenohumeral Joint, Advanced Concepts in Sports Medicine and Orthopedic Surgery, Las Vegas, NV, September 20, 2014.
477. Update on BioCartilage, Advanced Concepts in Sports Medicine and Orthopedic Surgery, Las Vegas, NV, September 20, 2014.
478. Glenoid Bone Deficiency and Instability, 3rd Annual ICJR Shoulder Course, Las Vegas, NV, September 19, 2014.
479. Management of the First-Time Dislocator, 3rd Annual ICJR Shoulder Course, Las Vegas, NV, September 19, 2014.
480. Augmenting Cuff Repairs with Biologics in 2014, 3rd Annual ICJR Shoulder Course, Las Vegas, NV, September 19, 2014.
481. Case: Shoulder Instability, 3rd Annual ICJR Shoulder Course, Las Vegas, NV, September 19, 2014.
482. Peri-operative management of pain, 3rd Annual ICJR Shoulder Course, Las Vegas, NV, September 19, 2014.
483. Comparison of Subjective and Objective Outcomes after RCR, Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 13, 2014.
484. Management of Glenoid Bone Loss with Non Laterjet Procedures, Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 13, 2014.
485. Update on Chondrolysis, Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 13, 2014.
486. Case Presentations: My Biggest Nightmares....What would you do? Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 13, 2014.
487. Case Presentations: Shoulder Instability-What would you do? Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 13, 2014.
488. Management of the First Time Dislocation of the Shoulder, Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 13, 2014.
489. Biologic Graft Interposition of the Shoulder, Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 12, 2014.

**Brian J. Cole, M.D., M.B.A.**

490. ICL: Rotator Cuff Controversies. Biceps Tenodesis vs Tenotomy. AOSSM Annual Meeting, Seattle, WA, July 11, 2014.
491. ICL: 4 Most Common Cartilage Problems We Treat: Osteochondritis Dissecans. AOSSM Annual Meeting, Seattle, WA, July 12, 2014.
492. Symposium Moderator: Cartilage – Scratching the Surface. AOSSM Annual Meeting, Seattle, WA, July 11, 2014.
493. The Management of First Time Shoulder Instability in the Elite Athlete. 1<sup>st</sup> Annual International Extreme Sports Medicine Congress. Boulder, CO, June 14, 2014.
494. Stem Cells, Growth Factors and PRP: Basic Science and Clinical Update. 1<sup>st</sup> Annual International Extreme Sports Medicine Congress. Boulder, CO, June 14, 2014.
495. Stem Cells, Growth Factors and PRP: Basic Science and Clinical Update. Colorado State School of Veterinary Medicine, Fort Collins, CO, June 12, 2014.
496. Stem Cells, Growth Factors and PRP: Basic Science and Clinical Update. 5<sup>th</sup> Annual PRP and Regenerative Medicine Symposium, June 6, 2014, Las Vegas, NV.
497. Roundtable “Ask the Experts” Interactive Session: Knee Articular Cartilage. AANA Annual Meeting, Hollywood, FL, May 3, 2014.
498. Moderator: Scientific Session: Articular Cartilage, AANA Annual Meeting, Hollywood, FL May 3, 2014.
499. Anterior Shoulder Instability: Strategies for Addressing Bone Loss. AANA Annual Meeting, Hollywood, FL, May 2, 2014.
500. Moderator: Microfracture for Chondral Injuries of the Knee: An Easy-Out or a Cell-Based Real Solution, AANA Annual Meeting, Hollywood, FL, May 1, 2014.
501. Non Arthroplasty Management of the Glenohumeral Joint, Sports Medicine Conference, Chicago, IL, March 31, 2014.
502. The Value of Having an MBA in Medicine, Loyola School of Business, Chicago, IL, March 21, 2014.
503. PRO—Current Outcomes in Cuff Repair: Single Row vs. Double Row: Evidence Based Outcomes, AANA Specialty Day, New Orleans, LA, March 15, 2014
504. Single Row is Sufficient for Healing, ASES Open Meeting, New Orleans, LA, March 15, 2014.
505. Shoulder Surgery, Getting It Right: ARS Symposium, AAOS Annual Meeting, New Orleans, LA, March 14, 2014.
506. Moderator: Game Changers Paper Session, AAOS Annual Meeting, New Orleans, LA, March 14, 2014.

**Brian J. Cole, M.D., M.B.A.**

507. Moderator: Transitional Biologics (EE), AAOS Annual Meeting, ORS Annual Meeting, New Orleans, LA, March 14, 2014.
508. 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.
509. 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.
510. Moderator: Articular Cartilage Disease and Meniscal Deficiency, AAOS Annual Meeting, New Orleans, LA, March 14, 2014.
511. 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.
512. Moderator: Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, March 12, 2014.
513. Overview of Articular Cartilage Repair Options, Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, March 12, 2014.
514. Guided Poster Tour: Sports Medicine/Arthroscopy, AAOS Annual Meeting, New Orleans, LA, March 11, 2014.
515. ACL Prevention in the High School Athlete, Latin School, Chicago, IL, March 5, 2014.
516. Update and Overview of the Patient with Articular Cartilage Disease, Ossur Conference, February 18, 2014.
517. Osteochondral Allograft Transplantation for Large Defects, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 25, 2014.
518. Meniscal Allograft Transplantation in 2014, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 25, 2014.
519. Realistic Expectations from Cartilage Surgery, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 25, 2014.
520. Patellofemoral Biologic Resurfacing, Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 24, 2014.
521. Patient Management and Decision-Making in Cartilage Repair: 14<sup>th</sup> Annual Comprehensive Approaches to Articular Cartilage Repair, Carlsbad, CA, January 18, 2014.
522. BioCartilage, Arthrex Faculty Forum, Naples, FL, January 12, 2014.
523. Overview of Active Patients With Articular Cartilage Disease, NorthShore Radiology Meeting, Riverwoods, IL, December 21, 2013.

**Brian J. Cole, M.D., M.B.A.**

524. Treatment of Articular Cartilage Defects with Biocartilage. Emerging Techniques in Orthopedics, Las Vegas, December 5, 2013.
525. DeNovo NT for the Treatment of Articular Cartilage Defects, Emerging Techniques in Orthopedics, Las Vegas, December 5, 2013.
526. Management of the Collision Athlete Arthroscopically: Clinical Debate. . Emerging Techniques in Orthopedics, Las Vegas, December 6, 2013.
527. Knee Lab Course Instructor. Emerging Techniques in Orthopedics, Las Vegas, December 7, 2013.
528. Glenoid Bone Deficiency and Instability, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
529. First Time Dislocator: Surgery or Rehabilitation, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
530. Augmenting Cuff Repairs with Biologics in 2013, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
531. Rotator Cuff Case Presentations, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
532. Biceps Management: Tenodesis or Tenotomy, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
533. What would you do? Case-based Presentations, Shoulder Instability, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
534. Multi-modality pain management in shoulder surgery, Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013.
535. Evidence Based Medicine and Decision-Making in Cartilage Repair, Arthroscopy Association of North America Annual Meeting, Las Vegas, NV, November 7, 2013.
536. BioCartilage in the treatment of Articular Cartilage Defects. Arthroscopy Association of North America Annual Meeting, Las Vegas, NV, November 6, 2013.
537. Case-Based Decision-Making in Rotator Cuff Repair. Arthroscopy Association of North America Annual Meeting, Las Vegas, NV, November 5, 2013.
538. 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.
539. Chairman, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 18-21. 2013.

**Brian J. Cole, M.D., M.B.A.**

540. Overview and Approach to Articular Cartilage Lesions, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 18, 2013.
541. Case Presentations, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 18, 2013.
542. Live Demonstration, Meniscal Allograft Transplantation, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 19, 2013.
543. Approach to Patellofemoral Chondral Pathology, AANA Masters Experience: Advances in Knee Surgery, Rosemont, IL, October 19, 2013.
544. The Case for Philanthropy to Support Orthopedic Research, Rush Arthritis and Orthopedics Institute Leadership Committee Meeting, Chicago, IL, October 17, 2013.
545. BioCartilage—The New Treatment Option for Cartilage Lesions. ICRS Annual Meeting, Izmir, Turkey, September 17, 2013.
546. Moderator: Promising Treatment Options for Different Types of Cartilage Lesions. ICRS Annual Meeting, Izmir, Turkey, September 17, 2013.
547. Cartilage Repair in the Shoulder. ICRS Annual Meeting, Izmir, Turkey, September 17, 2013.
548. Moderator: The Subchondral Bone and Cartilage Repair. ICRS Annual Meeting, Izmir, Turkey, September 16, 2013.
549. 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.
550. Reducing Invasiveness of Adjuvant Procedures. ICRS Annual Meeting, Izmir, Turkey, September 15, 2013.
551. The Joint ‘Organ’: Comprehensive Concepts for Cartilage Restoration. ICRS Annual Meeting, Izmir, Turkey, September 15, 2013.
552. Osteochondral Allograft Transplantation and BioCartilage, AAOS Webinar, Chicago, IL, July 16, 2013.
553. Management of the Collision Athlete with Shoulder Instability: I Do it Arthroscopically. AOSSM Annual Meeting, July 12, 2013.
554. Revolutionizing Knee Preservation: BioCartilage, AOSSM Annual Meeting, July 12, 2013.
555. SLAP: When to do surgery & when to rehabilitation. AOSSM/SPTS Pre-Conference Program, Chicago, IL, July 10, 2013.
556. Moderator: Articular Cartilage Session, Sunday, July 7, 2013, Herodicus Society 39<sup>th</sup> Annual Meeting, Koehler, WI, July 7, 2013.

**Brian J. Cole, M.D., M.B.A.**

- 557. Occupational Injuries of the Knee, Accelerated Rehabilitation, Oakbrook, IL, June 28, 2013.
- 558. The Swimmer's Shoulder, 4<sup>th</sup> Annual DePaul Symposium, Chicago, IL. June 28, 2013.
- 559. Basics of Knee Arthroscopy, Cure International Hospital, Kijabe, Kenya, June 10, 2013.
- 560. Basics of Shoulder Arthroscopy, Cure International Hospital, Kijabe, Kenya, June 10, 2013.
- 561. Basics of Arthroscopy, Cure International Hospital, Kijabe, Kenya, June 11, 2013.
- 562. Arthroscopic Knot Tying, Cure International Hospital, Kijabe, Kenya, June 11, 2013.
- 563. Physical Examination of the Knee, Cure International Hospital, Kijabe, Kenya, June 12, 2013.
- 564. Physical Examination of the Shoulder, Cure International Hospital, Kijabe, Kenya, June 12, 2013.
- 565. Arthroscopic Techniques in the Knee, Cure International Hospital, Kijabe, Kenya, June 13, 2013.
- 566. ACL Graft Harvest and Preparation, Cure International Hospital, Kijabe, Kenya, June 13 2013.
- 567. Arthroscopic Techniques in the Shoulder, Cure International Hospital, Kijabe, Kenya, June 14, 2013.
- 568. Live surgical demonstration, Allograft Meniscus Transplantation, Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 19, 2013.
- 569. Case Presentations, Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 19, 2013.
- 570. Labral repair with knotless anchors. Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 20, 2013.
- 571. Biologics in RCR, Arthrex Symposium, Baltimore, MD, April 12, 2013.
- 572. Update in Cartilage Restoration, Arthrex Symposium, Baltimore, MD, April 12, 2013.
- 573. Near Term Solutions to Cartilage Repair, Arthrex Symposium, Baltimore, MD, April 12, 2013.
- 574. Chairman, Arthrex Biologics Symposium, Baltimore, MD, April 12, 2013.
- 575. Management of Glenoid Bone Loss in Instability, Annual Cherry Blossom Society Meeting, Arlington, VA, April 6, 2013.
- 576. Biologics in RCR, Annual Cherry Blossom Society Meeting, Arlington, VA, April 6, 2013.
- 577. AANA Specialty Day: What is new and exciting in cartilage repair: Near-term solutions, AANA Specialty Day Program, Chicago, IL, March 23, 2013.



**Brian J. Cole, M.D., M.B.A.**

- 578. AANA/AOSSM Specialty Day Combined Meeting: Pardon the Interruption: The treatment of cartilage defects, Chicago, IL, March 23, 2013.
- 579. Co-Program Chairman: Open Shoulder and Elbow Surgeons Specialty Day, AAOS Specialty Day, Open ASES, Chicago, IL, March 23, 2013.
- 580. Moderator: The Best of the AAOS, AAOS Annual Meeting, Chicago, IL, March 22, 2013.
- 581. ICL 411: Arthroscopic Management of Shoulder Instabilities: SLAP tears and Instability, AAOS Annual Meeting, Chicago, IL, March 22, 2013.
- 582. Course Director, ICL 302: Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, Chicago, IL, March 21, 2013.
- 583. ICL 302: Overview of Treatment Options, Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, Chicago, IL, March 21, 2013.
- 584. New Treatments in Cartilage Repair, Arthrex Educational Forum, Hugo's Frog Bar and Fish House, Chicago, IL, March 20, 2013.
- 585. Cartilage Restoration: Overview of treatment Options, Nursing and Allied Health Program, AAOS Annual Meeting, Chicago, IL, March 19, 2013.
- 586. SLAP tears: What are they and how do we fix them? Resident Core Lecture. Rush University Medical Center, Chicago, IL, March 11, 2013
- 587. Non Arthroplasty Management of Glenohumeral Arthritis. Resident Core Lecture. Rush University Medical Center, Chicago, IL, March 4, 2013
- 588. Trends in ACL reconstruction in the NBA. NBA Annual Team Physicians' Meeting, Houston, TX, February 15, 2013.
- 589. Complex Reconstruction with Cartilage Repair, Annual Fellows Course, Carlsbad, CA, January 19, 2013.
- 590. Articular Cartilage Management in the Knee, Sooner Sports Medicine Symposium, University of Oklahoma, Norman, OK, January 11, 2013.
- 591. 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.
- 592. Maintaining Balance in Academics and Personal Life, Sooner Sports Medicine Symposium, University of Oklahoma, Norman, OK, January 11, 2013.
- 593. 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.

**Brian J. Cole, M.D., M.B.A.**

594. Arthroscopic Revision Stabilization: Pro. 2<sup>nd</sup> Annual Emerging Techniques in Orthopedics-An International Perspective, Las Vegas, NV, December 7. 2012.
595. 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.
596. Overview of Cartilage Repair, American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.
597. Patellofemoral Instability and Chondrosis, American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.
598. Management of Chondral Injury and ACL Tears, American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.
599. Achieving Balance in Profession and Workplace, Massachusetts General Hospital, Harvard Partners Program, Boston, MA, November 11, 2012.
600. Cartilage Restoration: Decision-Making and Treatment Algorithm, Massachusetts General Hospital, Harvard Partners Program, Boston, MA, November 11, 2012.
601. Live Surgical Demonstration: Arthroscopic Shoulder Stabilization-Pearls and Pitfalls, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 9, 2012.
602. Patellofemoral Case Presentation, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 9, 2012.
603. Euro Envy: Next Generation Cartilage Repair Techniques, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 9, 2012.
604. Knee Lab Coordinator, AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 10, 2012.
605. Management of the PF Joint: Cartilage and Instability. Cartilage Focus Group, Round-Table with Chicago Orthopedic Surgeon, Chicago, IL, October 30, 2012.
606. Rotator Cuff Repair: Tips for Success. 17<sup>th</sup> Annual Boston Shoulder and Sports Symposium, Waltham, MA, Oct 26, 2012.
607. Meniscal Allograft Transplantation. 17<sup>th</sup> Annual Boston Shoulder and Sports Symposium, Waltham, MA, Oct 27, 2012.
608. ACL and Chondral Injury: Current Management Principles. Segal North American Osteoarthritis Workshop, Chicago, IL, October 28, 2012.
609. Meniscus Allograft Transplantation, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.

**Brian J. Cole, M.D., M.B.A.**

610. Cartilage Restoration: Evaluation and Decision-Making, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
611. Managing Failure after Cartilage Transplantation, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
612. Next Generation Cartilage Repair Technology, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
613. Managing Glenoid Bone Loss, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 20, 2012.
614. Master Instructor, Advances in Knee Surgery: Cartilage Focus. AANA OLC Course, Rosemont, IL, October 5-7, 2012.
615. Overview of Cartilage Restoration, AANA OLC Course, Rosemont, IL, October 5, 2012.
616. Management of PF Chondral Pathology, AANA OLC Course, Rosemont, IL, October 6, 2012.
617. Case Presentation, AANA OLC Course, Rosemont, IL, October 6, 2012.
618. Live Surgical Demonstration, Meniscus Allograft Transplantation. AANA OLC Course, Rosemont, IL, October 6, 2012.
619. Live surgical demonstration, MPFL Repair, 2012 National Capital Knee Symposium, Ottawa, ON, September 21, 2012.
620. Live surgical demonstration, DeNovo NT, 2012 National Capital Knee Symposium, Ottawa, ON, September 21, 2012.
621. Meniscal Transplantation: Where it fits in, 2012 National Capital Knee Symposium, Ottawa, ON, September 20, 2012.
622. Chondral Lesions: OATS, ACI, Biologics, 2012 National Capital Knee Symposium, Ottawa, ON, September 20, 2012.
623. Management of Failed Rotator Cuff Repair, International Congress for Joint Reconstruction, Las Vegas, NV, September 13, 2012.
624. Management of Shoulder Instability with Glenoid Bone Loss, International Congress for Joint Reconstruction, Las Vegas, NV, September 14, 2012.
625. Point-Counterpoint: Soft Tissue Repair vs. Glenoid Reconstruction for Recurrent Instability, International Congress for Joint Reconstruction, Las Vegas, NV, September 14, 2012.

**Brian J. Cole, M.D., M.B.A.**

626. Allograft Reconstruction of the Humerus and Glenoid, Audio-Digest Orthopaedics: Advances in Shoulder Arthroscopy, Vol 35: Issue 18, September 21, 2012.
627. Orthobiologics and the Shoulder: What should we do? Audio-Digest Orthopaedics: Advances in Shoulder Arthroscopy, Vol 35: Issue 18, September 21, 2012.
628. Cartilage Restoration Overview, Audio-Digest Orthopaedics, Managing Sports Injuries, Vol 35: Issue 16, August 21, 2012.
629. Orthobiologics of the Shoulder, Audio-Digest Orthopaedics, Managing Sports Injuries, Vol 35: Issue 16, August 21, 2012.
630. Instructional Course Lecture: Failed Shoulder Surgery: Instability, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 14, 2012.
631. The Use of BioCartilage for the Treatment of Cartilage Defects, AOSSM Grant Workshop, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12, 2012.
632. Instructional Course Lecture: Case-Based Treatment of Knee Cartilage Defects, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 17, 2012.
633. Treatment of Isolated Cartilage Lesions in the Young Athlete: Allograft Reconstruction, American Orthopedic Society for Sports Medicine, Baltimore, MD, July 14, 2012.
634. Hands On Shoulder Lab: Advanced Arthroscopic Techniques, Esch Shoulder Course, San Diego, CA, June 21, 2012.
635. Case Based Approach to Decision Making in Rotator Cuff Repair, Esch Shoulder Course, San Diego, CA, June 22, 2012.
636. Non-Arthroplasty Options for Glenohumeral Arthritis: Does Anything Really Work? Esch Shoulder Course, San Diego, CA, June 20, 2012.
637. Panel Discussion: The Best Ideas and Biggest Threats to Orthopedics and Spine, Becker Surgical Conference, Chicago, IL, June 16, 2012.
638. 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.
639. 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.
640. 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.

**Brian J. Cole, M.D., M.B.A.**

641. 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.
642. OrthoBiologics, Dinner with the Doctor Program, Accelerated Rehabilitation, Oakbrook, IL, June 15, 2012.
643. Management of SLAP Lesions, Rush Resident Teaching Conference, Chicago, IL, June 12, 2012.
644. Allografts in Orthopedics, Allosource and Gift-of-Hope Annual Meeting, Itasca, IL, June 8, 2012.
645. Biomechanics of Shoulder Injuries, NYU Sports Medicine Conference, State of the Art, New York, NY, May 22, 2012.
646. Biomechanics of Elbow Injuries, NYU Sports Medicine Conference, State of the Art, New York, NY, May 22, 2012.
647. Non-Surgical Management of the Arthritic Knee: Course Leader, Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012.
648. Chondral Injuries: When Conservative Treatment Fails. Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012.
649. My Preferred Techniques for Addressing Chondral Injuries. Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012.
650. Future of Cartilage Repair, American Medical Society of Sports Medicine, Atlanta, GA, April 22, 2012.
651. PRP, Stem Cells and Orthokine for the Treatment of Osteoarthritis, American Medical Society of Sports Medicine, Atlanta, GA, April 22, 2012.
652. Meniscus Allograft Transplantation, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 20, 2012.
653. Non-Arthroplasty of the Glenohumeral Joint, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 20, 2012.
654. Management of PF Articular Cartilage Defects, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 20, 2012.
655. Update in PRP: Resolving the Controversy, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 19, 2012.
656. Management of Failed Cartilage Transplantation, Argentina Arthroscopy Association, Buenos Aires, Argentina, April 19, 2012.

**Brian J. Cole, M.D., M.B.A.**

657. PRP in Orthopedics, West Virginia Orthopedic Society Annual Meeting, WV, April 14, 2012.
658. Common Shoulder Conditions: When to refer. Grand Rounds, Oak Park Hospital, Oak Park, IL, April 13, 2012.
659. Cell-Based Therapy for Cartilage Disease. Annual Cherry Blossom Society Meeting, Arlington, VA, March 31, 2012.
660. Patellofemoral Instability and Chondrosis. Annual Cherry Blossom Society Meeting, Arlington, VA, March 31, 2012.
661. SLAP Tears: What are they, when should we fix them? Annual Cherry Blossom Society Meeting, Arlington, VA, March 30, 2012.
662. Should I Use PRP for my Patients, AAOS Symposium, AAOS Annual Meeting, San Francisco, CA, February 8, 2012.
663. Time Management and Achieving Balance as an Orthopedic Surgeon, ICL, AAOS Annual Meeting, San Francisco, CA, February 8, 2012.
664. Overview and Indications for Cartilage Restoration, ICL, AAOS Annual Meeting, San Francisco, CA, February 9, 2012.
665. Arthroscopic Management of SLAP Tears: Indications and Controversies, ICL, AAOS Annual Meeting, San Francisco, CA, February 9, 2012.
666. Symposium Moderator, Managing the Active Patient with Knee Arthritis, AAOS Annual Meeting, San Francisco, CA, February 10, 2012.
667. Cartilage Restoration Overview, Symposium: Managing the Active Patient with Knee Arthritis, AAOS Annual Meeting, San Francisco, CA, February 10, 2012.
668. Symposium Moderator, Controversies in SLAP Repair, American Shoulder and Elbow Surgeons Specialty Day, AAOS Annual Meeting, San Francisco, CA, February 10, 2012.
669. 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.
670. Managing Failure after Cartilage Restoration, 2011 Annual Fellows Cartilage Course, Carlsbad, CA, January 28, 2012.
671. Management of Shoulder Osteoarthritis: Biologics to Arthroplasty. Contemporary Advances in Hip, Knee, and Shoulder Arthroplasty, Oak Brook, IL, January 21, 2012.
672. Controversies in PRP, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 14, 2012.

**Brian J. Cole, M.D., M.B.A.**

673. Live Surgical Demo: Arthroscopic Rotator Cuff Repair, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 14, 2012.
674. Arthroscopic Management of Early Glenohumeral Arthritis, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 14, 2012.
675. DeNovo NT, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 15, 2012.
676. Meniscus Transplantation: Indication and Techniques, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 16, 2012.
677. How do we deal with failure after cartilage repair? Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 17, 2012.
678. Managing the athlete with cartilage based symptoms? Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 17, 2012.
679. OATS and Synthetics, Metcalf Memorial Meeting, 2012, Scottsdale, AZ, January 17, 2012.
680. Management of Glenoid Bone Loss with Distal Tibial Allograft, Arthrex Faculty Forum, Naples, FL, January 6, 2012.
681. PRP and Scaffold Based Cartilage Repair, Arthrex Faculty Forum, Naples, FL, January 7, 2012.
682. Arthroscopic Revision Instability: I do it Arthroscopically (Pro). Emerging Techniques in Orthopedics, Las Vegas, NV, December 8, 2011.
683. Arthroscopic Instability: Case Presentation. Emerging Techniques in Orthopedics, Las Vegas, NV, December 8, 2011.
684. The Use of PRP for Osteoarthritis: VuMedi Webcast, November 28, 2011.
685. Live Surgical Demonstration: Arthroscopic Labral Repair, AANA Fall Meeting, Palm Desert, CA, November 18, 2011.
686. Master Instructor, Shoulder Lab, AANA Fall Meeting, Palm Desert, CA, November 17, 2011.
687. Master Instructor, Knee Lab, AANA Fall Meeting, Palm Desert, CA, November 18, 2011.
688. Course Chairman, Advances in Knee Surgery: Cartilage Focus. AANA Masters Experience Course, Rosemont, IL, October 28-30, 2011.
689. Overview of Articular Cartilage: Proper Decision-Making, Advances in Knee Surgery: Cartilage Focus. AANA Masters Experience Course, Rosemont, IL, October 28, 2011.

**Brian J. Cole, M.D., M.B.A.**

690. Case Based Learning, Advances in Knee Surgery: Cartilage Focus. AANA Masters Experience Course, Rosemont, IL, October 29, 2011.
691. When is Microfracture Not Good Enough? AAOS Top Orthopaedic Controversies, New York, NY, October 15, 2011.
692. Overview of The Management of Shoulder Arthritis in the Active Patient, Arthrex Biologic Shoulder and Knee Symposium, Irvine, Orange County, CA, October 7, 2011.
693. Overview of Cartilage Restoration, Arthrex Biologic Shoulder and Knee Symposium, Irvine, Orange County, CA, October 7, 2011.
694. Laboratory Leader, Arthrex Biologic Shoulder and Knee Symposium, Irvine, Orange County, CA, October 8, 2011.
695. Orthobiologics: 2011- What should we do? Orthopedic Surgery Controversies, NAPA 2011. Napa, CA, October 5, 2011.
696. The Evolution of Chondrolysis: Current Thoughts, Napa, CA, October 5, 2011.
697. Glenohumeral Resurfacing vs. TSA in Young Individuals, Napa, CA, October 7 2011.
698. Allograft Reconstruction of the Humerus and Glenoid, Napa, CA, October 7, 2011.
699. Determining Causality for Shoulder and Knee Injuries, Accelerated Rehabilitation Seminar, Rush University Medical Center, September 30, 2011.
700. Knotless and Percutaneous Techniques for Labral Repair, Arthrex Shoulder Symposium, Naples, FL September 26, 2011.
701. Double vs. Single Row Rotator Cuff Repair: Where are we now? Arthrex Shoulder Symposium, Naples, FL September 26, 2011.
702. Decision Making in Cartilage Repair and Managing Co-Morbidities, Joint Preservation Symposium, Charlotte, NC, September 23, 2011.
703. Occupational Injuries: Is it really work-related? RISK A Guest Speaker, Addison, IL, September 22, 2011.
704. Cartilage Restoration of the Shoulder and Knee, Lake Forest/Northwestern Physical Therapy Continuing Education Seminar, September 19, 2011.
705. Case Presentations in Shoulder Surgery, University of Missouri, Department of Orthopedics, Columbus, MO, September 5, 2011.



**Brian J. Cole, M.D., M.B.A.**

706. Cartilage Repair: Current Thinking and Decision Making, University of Missouri, Department of Orthopedics, Columbus, MO, September 5, 2011.
707. Next-Generation Cartilage Repair: Overview of Emerging Technology, Zimmer Scientific Advisory Board Meeting, Rosemont, IL, September 2, 2011.
708. Cartilage Repair: Current Thinking and Decision Making, University of Virginia, Department of Orthopedics Grand Rounds, Charlottesville, VA, August 31, 2011.
709. Meniscus Allograft Transplantation, Athletico, Chicago, IL, Tuesday, July 21, 2011.
710. The Effects of PRP on Rotator Cuff Biology: State of the Art. VuMedi Webinar, Tuesday July 19, 2011.
711. Cartilage Repair: Osteotomy and Complex Reconstruction, Instructional Course Lecture, AOSSM Annual Meeting, San Diego, CA, July 9, 2011.
712. 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.
713. Decision Making for Cartilage Restoration, Articular Cartilage 2011, State of the Art, NYU, NY, NY, May 21, 2011.
714. What's New in Cartilage Restoration, Articular Cartilage 2011, State of the Art, NYU, NY, NY, May 21, 2011.
715. Presidential Guest Speaker: Cartilage Restoration: Clinical Update and Treatment Algorithm, Texas Orthopaedic Association, Austin, TX, May 20, 2011.
716. Cartilage Injuries of the Shoulder. Postgraduate Seminar, American Osteopathic Association of Orthopedics, Scottsdale, AZ, May 13, 2011.
717. ICL: Advances in Arthroscopic Articular Cartilage Treatment, 2011. 2011 Arthroscopy Association of North America Annual Meeting, San Francisco, CA, April 16, 2011.
718. 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.
719. Role of Biologics in Enhancing Healing and Decreasing Cuff Failure, 30<sup>th</sup> Annual Cherry Blossom Seminar, Washington, DC, April 1, 2011.
720. Meniscal Transplantation and Other Implant Options for the Meniscus, Robert Metcalf and AANA Meeting, Snowbird, UT, March 27, 2011.
721. When are SLAP Repairs Really Appropriate? Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.

**Brian J. Cole, M.D., M.B.A.**

- 722. When must we Manage the Most Significant Articular Cartilage Lesions? Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
- 723. My Technique for Osteochondral Allograft, Robert Metcalf and AANA Meeting, Snowbird, UT, March 26, 2011.
- 724. Arthroscopic Management of Early Degenerative Joint Disease of the Shoulder, Robert Metcalf and AANA Meeting, Snowbird, UT. March 26, 2011.
- 725. Evaluating the Patient with a Rotator Cuff Tear, Robert Metcalf and AANA Meeting, Snowbird, UT, March 24, 2011.
- 726. OrthoBiologics Update, Steadman Hawkin's Clinic Sports Medicine Symposium, Vail, CO, April 26, 2011.
- 727. Allograft Resurfacing for Humeral Head Defects, 78<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 19, 2011.
- 728. 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.
- 729. ICL: Transition from open to arthroscopic RCR. 78<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 18, 2011.
- 730. 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.
- 731. 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.
- 732. 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.
- 733. Complex Reconstruction of the Knee with Co-Morbidities, 11<sup>th</sup> Annual Cartilage Symposium, Carlsbad, CA, January 14, 2011.
- 734. Single vs. Double Row Rotator Cuff Repair, Arthrex Instructor's Symposium, Tracy, CA, January 9, 2011.
- 735. Meniscus Transplantation, Arthrex Instructor's Symposium, Tracy, CA, January 8, 2011.
- 736. Case-Based Cartilage Transplantation, Advanced Concepts Course, Genzyme, Inc., Rosemont, IL, November 20, 2010.
- 737. Cartilage Repair: Now and Then, Hospital for Special Surgery Alumni Day, New York, NY, November 12, 2010.

**Brian J. Cole, M.D., M.B.A.**

- 738. Cartilage Restoration: Here and Now, Boston Shoulder and Sports Symposium, Boston, MA, October 29, 2010.
- 739. Glenohumeral joint chondral defect management, Boston Shoulder and Sports Symposium, Boston, MA, October 30, 2010.
- 740. 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.
- 741. Orthobiologics: What you need to know, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 14, 2010.
- 742. Glenohumeral joint chondral defect management, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 15, 2010.
- 743. Arthroscopic RCR: SR, DR and TOE, Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 16, 2010.
- 744. Cartilage Restoration and PRP: Clinical Update, Arthrex National Sales Meeting, Chicago, IL, Sept 24, 2010.
- 745. Single Row vs. Double Row Rotator Cuff Repair, Arthrex National Sales Meeting, Chicago, IL, Sept 24, 2010.
- 746. Cartilage Restoration and DeNovo NT: Update, Zimmer Sports Medicine Review, Carlucci's Restaurant, Rosemont, IL, Sept 23, 2009.
- 747. Shoulder Instability: Evaluation and Management. Sports Medicine Review Course for Physical Therapists, Marriott Hotel, Chicago, IL, Sept 18, 2010.
- 748. 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.
- 749. 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.
- 750. 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.
- 751. 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.
- 752. 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.
- 753. Double Row Versus Single Rotator Cuff Repair, Instructional Course Lecture, American Society for Sports Medicine, Providence, RI, July 17, 2010.

**Brian J. Cole, M.D., M.B.A.**

754. Emerging Technology Overview, Instructional Course Lecture, American Society for Sports Medicine, Providence, RI, July 17, 2010.
755. Emerging Technology Review, American Society for Sports Medicine, Providence, RI, July 17, 2010.
756. Moderator, Articular Cartilage Concurrent Session, American Society for Sports Medicine, Providence, RI, July 17, 2010.
757. How to Build a Successful Sports Medicine Practice, American Society for Sports Medicine, Providence, RI, July 17, 2010.
758. PRP and Articular Cartilage, Update, American Society for Sports Medicine, Providence, RI, July 16, 2010.
759. ICL, Meniscus Transplantation and Case Studies, American Society for Sports Medicine, Providence, RI, July 16, 2010.
760. Outcomes of Failed Cartilage Restoration, Herodicus Society Meeting, Newport, RI, July 12, 2010.
761. Shoulder Arthroscopy: Is it Normal? DePaul Sports Medicine Symposium, DePaul University, Chicago, IL, June 18, 2010.
762. Cartilage Restoration of the Knee and Shoulder? DePaul Sports Medicine Symposium, DePaul University, Chicago, IL, June 18, 2010.
763. Instructional Course Lecture, Patellofemoral Cartilage Resurfacing, Arthroscopy Association of North America, 29<sup>th</sup> Annual Meeting, Hollywood, FL, May 21, 2010.
764. Instructional Course Lecture, Complex Cartilage Reconstruction, Arthroscopy Association of North America, 29<sup>th</sup> Annual Meeting, Hollywood, FL, May 21, 2010.
765. Arthroscopic RCR: SR v DR, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 13, 2010.
766. Complications of Shoulder Instability, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 13, 2010.
767. Arthroscopic Management of Lateral Epicondylitis, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 14, 2010.
768. Non Arthroplasty Alternatives for the Glenohumeral Joint, VIII Congresso Brasileiro De Cirurgia DO Ombro E Cotovelo, May 14, 2010.
769. Osteochondral Allograft Transplantation. 9<sup>th</sup> Annual Update in Knee Surgery, Orthopedic Learning Center, Rosemont, IL, May 4, 2010.
770. Shoulder Arthroscopy: What is normal? Rush Resident Core Lecture, May 3, 2010.

**Brian J. Cole, M.D., M.B.A.**

- 771. PRP and Cartilage: Where are we today? VuMedi Webcast, April 12, 2010.
- 772. Arthroscopic RCR: DR vs. SR, Arthrex Shoulder Course, April 9, 2010, Naples, FL.
- 773. Corrective Osteotomies: How to make it work? Specialty Day, Arthroscopy Association of North America, March 13, 2010, New Orleans, LA.
- 774. 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.
- 775. Double Row Rotator Cuff Repair is Better: Point-Counterpoint, Specialty Day, American Society for Sports Medicine, March 13, 2010, New Orleans, LA.
- 776. 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.
- 777. Live Demonstration: HTO and AMZ, American Academy of Orthopedic Surgeons, March 11, 2010, New Orleans, LA.
- 778. 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,
- 779. 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,
- 780. 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,
- 781. The Unhappy Ulnar Nerve, AAOS/AOSSM Annual Sports Medicine Course, February 12, 2010, Bonita Springs, FL.
- 782. Shoulder Arthroscopy: Is it Normal? AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
- 783. SLAP Lesions: Techniques and Outcome, AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
- 784. Physical Examination of the Elbow, AAOS/AOSSM Annual Sports Medicine Course, February 11, 2010, Bonita Springs, FL.
- 785. Complex Reconstruction of the Knee, Fellows Course, Carlsbad, CA, December 16, 2010.
- 786. Single vs. Double Row Rotator Cuff Repair: Resident Sports Medicine Conference, Rush University Medical Center, Chicago, IL, Nov 22, 2009.

**Brian J. Cole, M.D., M.B.A.**

787. MPFL Reconstruction: Technique-Focus Video, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
788. PF Case Presentations, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
789. Shoulder Arthroscopy Laboratory, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
790. Focus Demo, Arthroscopic Labral Repair, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
791. Knee Arthroscopy Laboratory, Arthroscopy Association of North America, Palm Desert, CA, Nov 20, 2009.
792. Single Row versus Double Row Rotator Cuff Repair, Fact or Fiction, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
793. Knotless Suture Anchor Fixation: Fact or Fiction, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
794. Anteromedialization of the Tibial Tuberosity, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
795. New Techniques for Meniscal Allograft Transplantation, Arthrex Surgeon Symposium, Naples, FL, Nov 5, 2009.
796. Biologic Reconstruction of the Glenohumeral Joint, Michigan Orthopedic Society, Detroit Michigan, October 12, 2009.
797. Decision Making in Cartilage Repair, Michigan Orthopedic Society, Detroit Michigan, October 12, 2009.
798. Course Chairman Advanced Articular Cartilage Procedures, Arthroscopy Association of North America, Rosemont, OLC, October 9-11, 2009.
799. Live Surgical Demonstration, Allograft Meniscus Transplantation, Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 10, 2009.
800. The Future of Cartilage Repair Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 10, 2009.
801. Allograft Meniscus Transplantation: Indications, Techniques, Results. Advanced Articular Cartilage Course, AANA, Rosemont OLC, October 9, 2009.
802. Biologic Reconstruction of the Glenohumeral Joint, Advanced Biologic Reconstruction of the Shoulder Course, Chicago, IL, October 10, 2009.
803. Meet the Professor: Articular Cartilage Cases of the Knee, AAOS-SIA Annual Meeting, Rome, Italy, October 3, 2009.
804. Guidelines on the Treatment of Articular Cartilage, AAOS-SIA Annual Meeting, Rome, Italy, October 2, 2009.

**Brian J. Cole, M.D., M.B.A.**

- 805. Massive Rotator Cuff Tear Biology and Treatment, AAOS-SIA Annual Meeting, Rome, Italy, October 2, 2009.
- 806. Meet the Professor: Knee Biotechnology, AAOS-SIA Annual Meeting, Rome, Italy, October 1, 2009.
- 807. Meet the Professor: Complex Shoulder Cases, AAOS-SIA Annual Meeting, Rome, Italy, October 1, 2009.
- 808. Chondrolysis of the Shoulder, AAOS-SIA Annual Meeting, Rome, Italy, September 30, 2009.
- 809. Meniscus Allograft Transplantation, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
- 810. Cartilage Restoration: Decision Making and Overview, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
- 811. The Future of Cartilage Repair, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 18, 2009.
- 812. Osteochondral Allograft Transplantation, Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 19, 2009.
- 813. Complex Reconstruction: Cartilage Repair, Meniscus Transplantation, and Osteotomy. Jornada Sul Brasileira de Cirurgia do Joelho, Curitiba, Brazil, September 19, 2009.
- 814. Board Review of Shoulder Pathology: Soft Tissue and Cartilage, AOSSM Board Review Course, Chicago, IL, Aug 14, 2009.
- 815. Complications of Shoulder Instability, Rocky Mountain Shoulder and Elbow Society, Beaver Creek, CO, August 7, 2009.
- 816. 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.
- 817. Chondrolysis of the Shoulder: Clinical Update, Rocky Mountain Shoulder and Elbow Society, Beaver Creek, CO, August 7, 2009.
- 818. 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.
- 819. Surgeon-Industry Relationships in Sports Medicine, AOSSM Annual Meeting, Keystone, CO, July 9, 2009.
- 820. Glenohumeral Arthritis in the Active Patient, AOSSM Annual Meeting, Keystone, CO, July 10, 2009.
- 821. Patellofemoral Realignment: Indications and Techniques, Arthrex Advanced Surgeons Training Course, Boston MA, June 12, 2009.

**Brian J. Cole, M.D., M.B.A.**

822. Osteochondral Allograft Transplantation, Arthrex Advanced Surgeons Training Course, Boston MA, June 12, 2009.
823. Arthroscopic Rotator Cuff Repair Arthrex Advanced Surgeons Training Course, Boston MA, June 11, 2009.
824. Diagnosis and Management of Shoulder Conditions in the Athlete, NBA Athletic Trainers Association, Chicago, IL, May 28, 2009.
825. Meet the Cartilage Expert, May 25, 2009, 8<sup>th</sup> World Congress of the International Cartilage Repair Society, May 25, 2009.
826. Single Stage Cartilage Repair, 8<sup>th</sup> World Congress of the International Cartilage Repair Society, May 25, 2009.
827. Injury Repair Options in the Athlete-Special Concerns, 8<sup>th</sup> World Congress of the International Cartilage Repair Society, May 23, 2009.
828. Cartilage Restoration of the Glenohumeral Joint, Advanced Shoulder Reconstruction, Orthopedic Learning Center, Chicago, IL, May 5, 2009.
829. Arthroscopic Rotator Cuff Repair. Resident Teaching Conference, Rush University Medical Center, Chicago, IL, April 13, 2009.
830. Cartilage Restoration of the Glenohumeral Joint, Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, IL, April 3, 2009.
831. Complex Reconstruction of the Knee: Realignment, Meniscal Transplantation, Cartilage Repair. Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, IL, April 3, 2009.
832. Arthroscopic RCR: Where are we today? Arthrex Fellows Symposium, Naples, FL, March 30, 2009.
833. 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.
834. 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.
835. Autologous Chondrocyte Implantation, 10<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: From the Slopes to the Sidelines, March 13, 2009.
836. 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.
837. Meniscal Injuries “29881” versus “29882”. Where are we? AOSSM Specialty Day, Las Vegas, Nevada, February 28, 2009.



**Brian J. Cole, M.D., M.B.A.**

- 838. Meniscus Transplantation: Video Technique. AANA Specialty Day, Las Vegas, Nevada, February 28, 2009.
- 839. Course Director, Arthroscopic Rotator Cuff Repair: An Evolution of Techniques. Are Our Patients Really Benefiting? AAOS Annual Meeting, Las Vegas, Nevada, February 26, 2009.
- 840. Arthroscopic RCR: Making the Transition. AAOS Annual Meeting, Las Vegas, Nevada, February 26, 2009.
- 841. Arthroscopic Shoulder Stabilization: What Went Wrong and What Was Done About it? Las Vegas, Nevada, February 26, 2009.
- 842. 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.
- 843. Management of GH Arthritis in Young Patients: Etiology and Management. Las Vegas, Nevada, February 27, 2009.
- 844. 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.
- 845. Articular cartilage lesion management overview, Arthroscopic Surgery 2009, 1<sup>st</sup> Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, February 1, 2009.
- 846. 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.
- 847. Cartilage Repair in the Athlete: Techniques and Decision Making, Team Concept Conference, Lake Buena Vista, FL, December 5, 2008.
- 848. Advanced Decision Making in Cartilage Repair, Chicago Cartilage Forum, Chicago, IL, November 18, 2008.
- 849. Advanced Decision Making and Osteotomy, Rush Resident Core Curriculum, Chicago, IL, November 17, 2008.
- 850. Advanced Considerations and Decision Making in Cartilage Repair, Boston, MA, November 15, 2008.
- 851. Faculty: ICRS Surgical Skills Course on Cartilage Transplantation, Miami, FL, October 30-Nov 1, 2008.
- 852. Osteochondral Autograft Transplantation: Indications, Techniques, Results. ICRS Surgical Skills Course on Cartilage Transplantation, Miami, FL, October 30-Nov 1, 2008.
- 853. Course Chairman: 1<sup>st</sup> Annual ICRS Cartilage Industry Summit, Miami, FL, October 29-30, 2008.
- 854. 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.

**Brian J. Cole, M.D., M.B.A.**

855. Cartilage Transplantation: Where are we now and where are we going? Notre Dame Orthopedic Society, South Bend, IN, October 3, 2008.
856. Complex Knee and Shoulder Reconstruction. Advanced Concepts in Sports Medicine, Las Vegas, NV, September 28, 2008.
857. Cartilage Restoration: Clinical Updated. San Francisco Orthopedics, San Francisco, CA, September 26, 2008.
858. Cartilage Restoration: Where are we now and where are we going? Philadelphia Orthopedic Society, Philadelphia, PA, September 8, 2008.
859. Case Presentations: Shoulder Instability, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
860. Case Presentations: Knee Articular Cartilage, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
861. Complex Knee Reconstruction, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
862. Cartilage Restoration of the Knee, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
863. Cartilage Restoration of the Shoulder, Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008.
864. AAOS/ASES Arthroscopic Management of Rotator Cuff Disease and Instability, Chicago, IL, July 18-19, 2008.
865. Program Chair, AOSSM Annual Meeting, Orlando, Florida, July 10-13, 2008.
866. Cartilage Restoration in the Competitive Athlete, SPTS-AOSSM Pre-Conference Program, Orlando, FL, July 9, 2008.
867. 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.
868. Cartilage Restoration: What is Here Now and What will the Future Bring? Annual RSC Conference, Westin Hotel, Chicago, IL, June 20, 2008.
869. SLAP Tears: What are we Really Treating? 35<sup>th</sup> Annual Symposium of the Mapfre Foundation, Madrid, Spain, June 13, 2008.
870. 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.
871. 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.
872. Cartilage Autograft Implantation System. Pre-Clinical and Clinical Update. Cartilage Innovation Summit, 2008. Cleveland, Ohio, May 7, 2008.

**Brian J. Cole, M.D., M.B.A.**

873. Cartilage Case Presentations: The Experts Weigh-In. 27<sup>th</sup> Annual Arthroscopy Association of North America, Washington, DC, April 24, 2008.
874. 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.
875. Management of SLAP Tears: What is Real and What Should we Do? Resident CORE Curriculum, Rush University Medical Center, Chicago, IL, April 21, 2008.
876. Lab Director, Arthroscopic Shoulder Stabilization and Rotator Cuff Repair, Rush University Medical Center, Chicago, IL, April 19, 2008.
877. Arthroscopic Rotator Cuff Repair, Resident Education Curriculum, Rush University Medical Center, Chicago, IL, April 19, 2008.
878. Arthroscopic SLAP Repair, Rush University Medical Center, Chicago, IL, April 19, 2008.
879. Update on Cartilage Transplantation of the Shoulder and Knee, Regional Orthopedic Meeting, Peoria, IL, April 15, 2008.
880. Cartilage Restoration: Treatment Algorithm. Cartilage Research Foundation 3<sup>rd</sup> Annual Meeting, Phoenix, AZ, April 5, 2008.
881. Management of Glenohumeral Arthritis in Young Patients. Cartilage Research Foundation 3<sup>rd</sup> Annual Meeting, Phoenix, AZ, April 5, 2008.
882. Program Chair, Cartilage Research Foundation 3<sup>rd</sup> Annual Meeting, Phoenix, AZ, April 5, 2008.
883. Program Chair, American Orthopedic Society for Sports Medicine Specialty Day, San Francisco, CA, March 8, 2008.
884. Articular Cartilage Treatment Algorithm, Instructional Course Lecture, AAOS, San Francisco, CA, March 7, 2008.
885. 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.
886. Technique: Autologous Chondrocyte Implantation, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
887. Technique: Osteochondral Autograft Transplantation, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.
888. The Stiff Knee, 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008.

**Brian J. Cole, M.D., M.B.A.**

889. 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.
890. SLAP Tears – Diagnosis, When Are They Important, Options in Treatment, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 2, 2008.
891. Complications of Shoulder Stabilization: Stiffness, Hardware and Chondrolysis, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 2, 2008.
892. Articular Cartilage: Clinical and Basic Science Treatment, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 3, 2008.
893. Meniscus Transplant and Collagen Scaffolds, Arthroscopic Surgery 2008, Annual Metcalf Meeting, Sun Valley, Idaho, February 3, 2008.
894. Arthroscopic Rotator Cuff Repair, El Salvador Orthopedic Society, San Salvador, January 26, 2008.
895. Biologic Joint Reconstruction, El Salvador Orthopedic Society, San Salvador, January 26, 2008.
896. Arthroscopic Repair of the U-Shaped Tear. AAOS/ASES Open and Arthroscopic Techniques in the Shoulder, January 18-19, 2008.
897. Biologic Joint Replacement of the Shoulder and Knee: SOMOS Military Orthopedic Meeting, Vail, CO, December 11, 2007.
898. 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.
899. Cartilage Restoration of the Knee and Shoulder, Michigan Orthopedic Society, Detroit, MI, November 12, 2007.
900. Problems of the Shoulder and Knee: An Eye Toward the Occupational Setting, Chicago, IL, November 12, 2007
901. Cartilage Repair: Now and Then. Sports Knee Surgery 2007, University of Warwick, UK, October 29, 2007.
902. Complex Reconstruction: 3<sup>rd</sup> Annual Cartilage and Sports Medicine Review, Las Vegas, Nevada, October 27, 2007.
903. Management of Failed Instability, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
904. Cartilage Repair: The Future, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.
905. Meniscus Transplantation: Indications, Techniques & Results, Ortho Carolina Oscar Miller Day, Symposium on Current Concepts in Sports Medicine, Charlotte, NC, October 5, 2007.

**Brian J. Cole, M.D., M.B.A.**

906. Cartilage Restoration of the Knee and Shoulder, South Bend Orthopedic Group, South Bend, Indiana, August 23, 2007.
907. Cartilage Restoration of the Knee and Shoulder, Howard University Department of Orthopaedics, Washington, DC, September 5, 2007.
908. Results of the STAR Clinical Trial for ACI, Genzyme Tissue Repair, Boston, MA, September 5, 2007.
909. Review of Shoulder Conditions: AAOS Board Review Course, Chicago, IL, Aug 3, 2007.
910. Cartilage Restoration: Clinical Update. Zimmer Hip and Knee Symposium, Chicago, IL, Aug 7, 2007.
911. Cartilage Restoration Options in the Athlete, 21<sup>st</sup> Annual Kerlan Jobe Alumni Meeting, Calgary, CA, July 13, 2007.
912. Scaffolds, Synthetics and Emerging Technology in Cartilage Repair. Symposium on Biologics, AOSSM Annual Meeting, Calgary, CA, July 13, 2007.
913. Expanding the Indications for Allografts in Joint Surgery. 2007 AOSSM Allograft Workshop. Calgary, CA, July 17, 2007.
914. 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.
915. 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.
916. Cartilage Restoration: Clinical Update. Northwestern California Orthopedic Society, Los Angeles, CA, June 11, 2007.
917. Arthroscopic Rotator Cuff Repair, Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, Rochester, MN, June 9, 2007.
918. Non-Arthroplasty Alternatives to the Management of Glenohumeral Arthritis, Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, Rochester, MN, June 9, 2007.
919. Management of Articular Cartilage Problems in the Professional Athlete, NBA Athletic Trainers Association, Orlando, FL, June 3, 2007.
920. 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.
921. Arthroscopic Rotator Cuff Repair: Single Row, Double Row, and Transosseous Equivalent – Decision Making based upon tear configuration. AOAO 47<sup>th</sup> Annual Postgraduate Seminar, Atlanta, GA, May 4, 2007.

**Brian J. Cole, M.D., M.B.A.**

922. Non Arthroplasty Alternatives for the Glenohumeral Joint, AOA 47th Annual Postgraduate Seminar, Atlanta GA, May 4, 2007.
923. Non Arthroplasty Alternatives for the Glenohumeral Joint, Boston Cartilage Course, Boston, MA, May 27, 2007.
924. Overview of Treatment Options for Cartilage Resurfacing, Boston Cartilage Course, Boston, MA, May 27, 2007.
925. Allograft Meniscus Replacement: State of the Art. Great Lakes Athletic Trainers Association: Winter Meeting and Clinical Symposium, St. Charles, IL, March 9, 2007.
926. Current Advances in the Management of Cartilage Problems in the Athlete, Northwestern Medical School Sports Medicine Interest Group, Chicago, Illinois, February 27, 2007.
927. Moderator, Articular Cartilage Symposium, , American Society for Sports Medicine, Specialty Day, San Diego, CA, February 17, 2007.
928. Articular Cartilage Overview, Symposium on Articular Cartilage, American Society for Sports Medicine, Specialty Day, San Diego, CA, February 17, 2007.
929. 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.
930. 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.
931. 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.
932. 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.
933. Alternatives to Knee Arthroplasty, Zimmer 21<sup>st</sup> Annual Vail Orthopaedic Symposium, Vail, CO, January 24<sup>th</sup>, 2007.
934. Non Arthroplasty Management of the Patellofemoral Joint, Zimmer 21<sup>st</sup> Annual Vail Orthopaedic Symposium, Vail, CO, January 24<sup>th</sup>, 2007.
935. Complex Reconstruction and Osteotomy: Techniques and Preoperative Planning. 7<sup>th</sup> Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 2, 2006.
936. Allograft Meniscus Transplantation, Orthopedics Today 2006, NY, NY, November 12, 2006.
937. Osteochondral Allograft Transplantation, Orthopedics Today 2006, NY, NY, November 12, 2006.

**Brian J. Cole, M.D., M.B.A.**

938. Patellofemoral Joint Approaches to the Treatment of Articular Cartilage, Orthopedics Today 2006, NY, NY, November 11, 2006.
939. Anteromedialization of the Tibial Tubercle, Orthopedics Today 2006, NY, NY, November 11, 2006.
940. 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.
941. Complex Reconstruction and Osteotomy, Management of Cartilage Injury in the Athlete, 2<sup>nd</sup> Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
942. Cartilage Autograft Implantation System, Management of Cartilage Injury in the Athlete, 2<sup>nd</sup> Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
943. Biologic Restoration of the Glenohumeral Joint, American Shoulder and Elbow Surgeons, Biologics in Shoulder Surgery, Chicago, IL, September 16, 2006.
944. Current Principles of Rotator Cuff Repair, American Society of Shoulder and Elbow Therapists, Chicago, IL, September 16, 2006.
945. Cartilage Restoration of the Knee and Shoulder, Clinical Update and Treatment Algorithm, Orthopaedic and Sports Medicine Rehabilitation Symposium, Chicago, IL, September 8, 2006.
946. Course Chairman, AAOS/ASES The Shoulder: An Arthroscopic Odyssey, OLC Rosemont, IL, July 28-29, 2006.
947. Live surgical demonstration, Arthroscopic Rotator Cuff Repair: Double Row Technique, July 28, 2006.
948. AOSSM Annual Meeting, Arthroscopic Rotator Cuff Repair: Single Row, Double Row, Trans-Osseous Equivalent: Indications Based Upon Tear Configuration, Hershey, PA, July 1, 2006.
949. AOSSM Annual Meeting ICL Course Director, Management of Arthritis in the Lower Extremity of the Athlete, Hershey, PA, July 1, 2006.
950. AOSSM Annual Meeting, ICL Management of Knee Arthritis in the Athlete, Hershey, PA, July 1, 2006.
951. AOSSM Annual Meeting, ICL Management of Shoulder Arthritis in the Athlete, Hershey, PA, June 30<sup>th</sup>, 2006.
952. 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.
953. 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.
954. 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,

**Brian J. Cole, M.D., M.B.A.**

2006.

955. 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.
956. Master Case Presentations in Knee Surgery, 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 20, 2006.
957. 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.
958. Cartilage Restoration of the Shoulder and Knee, Presidential Speaker, Indiana Orthopedic Society, South Bend, Indiana, April 28, 2006.
959. Arthroscopic Rotator Cuff Repair: Indications, Techniques and Results, Indiana Orthopedic Society, South Bend, Indiana, April 28, 2006.
960. Complex Reconstruction and Osteotomy of the Knee, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
961. Arthroscopic Rotator Cuff Repair: Current Thinking, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
962. Non-Arthroplasty Management of Glenohumeral Arthritis, Taos Orthopedic Fellowship Reunion, Taos, New Mexico, March 31, 2006.
963. Cartilage Restoration of the Knee and Shoulder, Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, March 28, 2006.
964. Meniscal Allograft Reconstruction: Indications, Techniques and Results. AAOS 73<sup>rd</sup> Annual Meeting, Chicago, IL, March 26, 2006.
965. 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.
966. Arthroscopic Rotator Cuff Repair: When, Why, and How. AAOS 73<sup>rd</sup> Annual Meeting, Chicago, IL, March 24, 2006,
967. Emerging Technology in Cartilage Repair, Small-Cap Orthopedics Conference, Metropolitan Club, Chicago, IL, March 21, 2006.
968. Algorithm for the Treatment of Articular Cartilage Defects, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 22, 2006.
969. Cartilage Restoration of the Knee: Complex Reconstruction and Osteotomy, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 22, 2006



**Brian J. Cole, M.D., M.B.A.**

970. Non-Arthroplasty Management of Glenohumeral Arthritis, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 21, 2006.
971. My Favorite Tips, Pearls and Techniques for Arthroscopic Rotator Cuff Repair, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 20, 2006.
972. Shoulder Instability: Choosing the Correct Option, The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 19, 2006.
973. 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.
974. Cartilage Restoration: Clinical Update and Treatment Algorithm, 20<sup>th</sup> Annual Vail Orthopaedic Symposium, January 26, 2006.
975. Live demonstration, arthroscopic SLAP repair, The Shoulder: Arthroscopic and Open Techniques, AAOS/ASES, OLC, Chicago, IL, January 22-22, 2006.
976. 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.
977. 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.
978. Symposium Director, Partial Thickness Articular Cartilage Defects, International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 9, 2006.
979. Natural History of Articular Cartilage Disease, Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006.
980. Scaffolds Only in Cartilage Repair, Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006.
981. Complex Reconstruction and Osteotomy: Preoperative Planning and Surgical Techniques. Comprehensive Approaches to Articular Cartilage Repair and Management, Carlsbad, CA, January 6-8, 2006.
982. 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.
983. Meniscus Allograft Transplantation, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 5, 2005.
984. Complex Reconstruction: Osteotomy and Cartilage Restoration, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 5, 2005.
985. 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

**Brian J. Cole, M.D., M.B.A.**

- 7, 2005.
986. Osteochondral Allograft Transplantation, First Annual Combined AAOS-AAOT (Argentina Orthopedic and Traumatology Society) Meeting, Buenos Aires, Argentina, December 7, 2005.
  987. Multidirectional Instability of the Shoulder, Arthroscopic Management, Arthroscopy Association of Argentina, Buenos Aires, Argentina, December 8, 2005.
  988. Allograft Meniscus Transplantation, Arthroscopy Association of Argentina, Buenos Aires, Argentina, December 8, 2005.
  989. Management of Articular Cartilage Lesions of the Patellofemoral Joint, 2<sup>nd</sup> Annual Orthopaedics Today CME Course, New York, NY, November 21, 2005.
  990. Cartilage Restoration of the Knee and Shoulder, Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, October 17, 2005.
  991. Autologous Chondrocyte Implantation: Indications, Techniques, Results. Management of Cartilage Lesions in the Athlete, Las Vegas, Nevada, October 15, 2005.
  992. Cartilage Restoration of the Shoulder and Knee, Illinois Self Insurers Association, Lincolnshire, IL, October 7, 2005.
  993. 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.
  994. Allograft Meniscus Transplantation, 2<sup>nd</sup> Annual Tissue Sparing Treatments of Degenerative Joint Disease, Houston, Texas, October 6, 2005.
  995. Chairman, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26-28, 2005.
  996. Cartilage Restoration: Treatment Algorithm, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26, 2005.
  997. Autologous Chondrocyte Implantation: Advanced Techniques, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 27, 2005.
  998. Non-Arthroplasty Management of Glenohumeral Arthritis, Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 28, 2005.
  999. Cartilage Restoration: Clinical Update and Treatment Algorithm. Total Hip and Knee Forum, Rush Learning Center, Chicago, IL, Tuesday August 25, 2005.
  1000. Cartilage Restoration: The Past, Present and Future, Orthopedics Intelligence Program: Evolving issues in orthopedics-Challenges and Opportunities, Chicago, IL, July 21, 2005.

**Brian J. Cole, M.D., M.B.A.**

1001. Allograft Meniscus Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
1002. Surgical Demonstration: Bridge in Slot Allograft Meniscus Transplantation, Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
1003. The Future of Cartilage Repair, Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005.
1004. Joint Preservation and Osteotomies About the Knee, Instructional Course Lecture, American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 15, 2005.
1005. Articular Cartilage Treatment Options of the Knee: Treatment Options. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 16, 2005.
1006. Non Arthroplasty Alternatives to Glenohumeral Arthritis. Arthroscopic Shoulder Stabilization: Tips and Pearls. James Esch San Diego Shoulder Course, San Diego, CA, June 25, 2005.
1007. Arthroscopic Shoulder Stabilization: Tips and Pearls. James Esch San Diego Shoulder Course, San Diego, CA, June 23, 2005.
1008. Cartilage Restoration of the Knee, Ohio Sports Medicine Annual Meeting, Akron, OH, June 17, 2005.
1009. Cartilage Restoration of the Shoulder, Ohio Sports Medicine Annual Meeting, Akron, OH, June 17, 2005.
1010. 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.
1011. Cartilage Restoration: Clinical Update and Treatment Algorithm, AOSSM-ACSM Annual Exchange Lecture, ACSM Annual Meeting, Nashville, TN, June 2, 2005.
1012. Cartilage Restoration: Clinical Update and Treatment Algorithm. Total Hip and Knee Forum, Rush Learning Center, Monday May 23, 2005.
1013. Autologous Chondrocyte Implantation and the Future of Cartilage Repair, Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005.
1014. Allograft Meniscus Transplantation, Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005.
1015. Arthroscopic Shoulder Stabilization: Current Status, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, Canada, May 12, 2005.
1016. Allograft Safety: Current Status, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, Canada, May 12, 2005.

**Brian J. Cole, M.D., M.B.A.**

1017. Live Surgical Demonstration: Meniscal Allograft Transplantation, International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS), Miami FL, April 5, 2005.
1018. Knee Resurfacing and Realignment: 2005 Update, Pre-ISAKOS Symposium, Naples, Florida, April 1, 2005.
1019. Arthroscopic Bankart Repair, 6<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 10, 2005.
1020. Lateral Epicondylitis: Treatment Options: 6<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2005, Steamboat Springs, CO, March 11, 2005.
1021. Cartilage Restoration of the Glenohumeral Joint, American Shoulder and Elbow Surgeons Specialty Day, Washington, DC, February 26, 2005.
1022. Knee Resurfacing and Realignment: 2005 Update, 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 25, 2005.
1023. 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.
1024. Increasing the Yield of Meniscal Allograft Tissue, Meniscus Transplant Study Group, 72<sup>nd</sup> Meeting of the AAOS, Washington, DC, February 24, 2005.
1025. 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.
1026. Up Close and Personal: Chondral Defects, 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 23<sup>rd</sup>, 2005.
1027. Osteotomy: Opening and Closing Wedge, 19<sup>th</sup> Annual Vail Orthopaedic Symposium: Total Hip and Knee Arthroplasty, Vail Colorado, January 27, 2005.
1028. Overview of the Status of Articular Cartilage, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
1029. Management of Large Articular Cartilage Lesions, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
1030. My Complication and How I got out of Trouble, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 23, 2005.
1031. The Place for Meniscus Transplantation, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 22, 2005.
1032. Alternative Techniques to Manage Shoulder Instability, Arthroscopic Surgery, 2005: Metcalf Meeting, Tucson, Arizona, January 20, 2005.

**Brian J. Cole, M.D., M.B.A.**

1033. Allograft Meniscus Transplantation: Clinical and Basic Science Update. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, GA, January 15-16, 2005.
1034. Complex Reconstruction: Articular Cartilage and Meniscal Replacement. 5<sup>th</sup> Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 10, 2004.
1035. 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.
1036. Cartilage Restoration of the Shoulder and Knee, Midwest Orthopedics at Rush Minimally Invasive Surgery Course, United Center, Chicago, IL, October 9, 2004.
1037. Cartilage Restoration: Clinical Update and Treatment Algorithm, Charlotte Orthopedic Meeting, Charlotte, NC, September 18, 2004.
1038. Occupational Injuries: Fact or Fiction? Chubb Insurance Company, Chicago, IL, September 17, 2004.
1039. Autologous Chondrocyte Implantation: The U.S. Experience, Philadelphia Orthopedic Society, Philadelphia, PA, September 15, 2004.
1040. Cartilage Restoration: Clinical Update and Treatment Algorithm, Milwaukee Orthopedic Society, Milwaukee Athletic Club, Milwaukee, WI, August 31, 2004.
1041. Allografts in Sports Medicine, Annual Meeting of the American Association for Tissue Banks, Chicago, IL, August 30, 2004.
1042. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, August 24, 2004.
1043. Course Chairman, The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 16-18, 2004.
1044. Acromioclavicular Joint Reconstruction, The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 18, 2004.
1045. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, July 13, 2004.
1046. Allografts in Orthopedics: Fresh Osteochondral Allografts in Sports Medicine, AOSSM Annual Meeting, Quebec City, June 25, 2004.
1047. Cartilage Restoration: Clinical Update and Treatment Algorithm, Instructional Course Lecture, AOSSM Annual Meeting, Quebec City, June 25, 2004.
1048. Consumer Reports: Implants and Devices in Shoulder Instability, Instructional Course Lecture, AOSSM Annual Meeting, Quebec City, June 24, 2004.

**Brian J. Cole, M.D., M.B.A.**

- 1049. Moderator: Basic Science Articular Cartilage, AOSSM Annual Meeting, Quebec City, June 24, 2004.
- 1050. Cartilage Restoration: Clinical Update and Treatment Algorithm, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 24, 2004.
- 1051. Non-arthroplasty Management Options for the Glenohumeral Joint, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 24, 2004.
- 1052. Arthroscopic Rotator Cuff Repair: Techniques, Results and Outcomes, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 23, 2004.
- 1053. Arthroscopic Instability and Rotator Interval Repair: 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
- 1054. Live Arthroscopic Rotator Cuff Televised Demonstration, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
- 1055. Fresh Osteochondral Allograft Transplantation, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 22, 2004.
- 1056. Autologous Chondrocyte Implantation: Indications, Techniques, Results, 2004 Annual Meeting of the Argentine Arthroscopy Association, Buenos Aires, Argentina, May 21, 2004.
- 1057. Chairman, Chicago Cartilage Course, Chicago, IL, May 7-8, 2004.
- 1058. Cartilage Restoration: Clinical Update and Treatment Algorithm, Chicago Cartilage Course, Chicago, IL, May 7, 2004.
- 1059. Osteochondral Autografting: Indications, Techniques, Results, Chicago Cartilage Course, Chicago, IL, May 8, 2004.
- 1060. Non-Arthroplasty Options for Management of the Glenohumeral Joint, Chicago Cartilage Course, Chicago, IL, May 8, 2004.
- 1061. Cartilage Restoration: Clinical Update and Treatment Algorithm, Zimmer Hip and Knee Symposium, Chicago, IL, May 4, 2004.
- 1062. Osteochondral Grafting: Indications, Techniques, Results. Surgical Treatment Options for Knee Injuries and Disorders, AAOS, Rosemont, IL, May 1, 2004.
- 1063. Cartilage Restoration: Clinical Update and Treatment Algorithm, 40<sup>th</sup> Annual St. Luke's Symposium, Houston, Texas, April 23, 2004.
- 1064. Current Concepts and Future Trends: Shoulder Instability, Arthroscopy Association of North America, Orlando, FL, April 22, 2004.

**Brian J. Cole, M.D., M.B.A.**

- 1065. Autologous Chondrocyte Implantation, Osteoarthritis of the Knee: Options for the Active Patient, University of Arizona, Phoenix, AZ, April 16, 2004.
- 1066. Autologous Chondrocyte Implantation, University of Minnesota, Minneapolis, MN, April 8, 2004.
- 1067. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, Grand Rounds, University of Minnesota, Minneapolis, MN, April 9, 2004.
- 1068. Fresh Osteochondral Allograft Transplantation, University of Minnesota, Minneapolis, MN, April 9, 2004.
- 1069. Shoulder Arthritis: Non-Arthroplasty Alternatives, University of Minnesota, Minneapolis, MN, April 9, 2004.
- 1070. Arthroscopic Bankart Repair. 5<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: The Athlete in 2004, 2004, Jacksonville, FL, April 3, 2004.
- 1071. 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.
- 1072. Cartilage Restoration: Clinical Update and Treatment Algorithm. Zimmer Hip and Knee Symposium, Chicago, IL, March 23, 2004.
- 1073. 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..
- 1074. 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.
- 1075. 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.
- 1076. 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
- 1077. 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.
- 1078. 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.
- 1079. 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.
- 1080. The Effects of Medical Meniscal Transplantation Techniques on Intraarticular Contact Pressures, Meniscus Transplant Study Group, San Francisco Marriott, San Francisco, CA, March 10, 2004.

**Brian J. Cole, M.D., M.B.A.**

1081. 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.
1082. Prospective Evaluation of Functional Results of Allograft Meniscus Transplantation, Meniscus Transplant Study Group, San Francisco Marriott, San Francisco, CA, March 10, 2004.
1083. 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.
1084. 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.
1085. 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.
1086. Cartilage Restoration: Clinical Update and Treatment Algorithm. Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 18, 2004.
1087. Autograft OATS for Femoral Condyle Defects: Technique, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 18, 2004.
1088. MRI of the Shoulder, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
1089. Open vs. Arthroscopic Shoulder Stabilization: Resolving the Controversy, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
1090. Radiofrequency Capsulorrhaphy: Complications and Management, Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15, 2004.
1091. What's new with the shoulder and knee? Kemper-Broadspire, Bensonville, IL, February 7, 2004.
1092. Mini Battle: Aggressive Treatment of Articular Lesions or Simple Debridement, Metcalf Meeting, Sun Valley, Idaho, February 3, 2004.
1093. Treatment of Difficult Articular Cartilage Lesions, Metcalf Meeting, Sun Valley, Idaho, February 3, 2004.
1094. Current Status of Knotless Anchors for Arthroscopic Shoulder Stabilization, Metcalf Meeting, Sun Valley, Idaho, February 2, 2004.
1095. Non-Arthroplasty Alternatives to the Management of Chondral Disease of the Glenohumeral Joint, Metcalf Meeting, Sun Valley Idaho, February 2, 2004.
1096. Cartilage Restoration: Clinical Update and Treatment Algorithm. Zimmer Hip and Knee Symposium, Vail, CO, January 28, 2004.



**Brian J. Cole, M.D., M.B.A.**

1097. Audio Lecture: Management of Chondral Injury and Meniscus Transplantation. Data Trace Publishing Company, 2003.
1098. Meniscus Injury: Evaluation and Management. Review and Update for Practicing Orthopedic Surgeons. AAOS CME Course, December 5, 2003.
1099. Articular Cartilage Problems: Evaluation and Management. Review and Update for Practicing Orthopedic Surgeons. AAOS CME Course, December 5, 2003.
1100. 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.
1101. Meniscus Allograft Reconstruction: Surgical Demonstration. 22<sup>nd</sup> Annual Arthroscopy Association of North America. New Orleans, LA, November 14, 2003.
1102. Arthroscopic Shoulder Stabilization: Surgical Demonstration. 22<sup>nd</sup> Annual Arthroscopy Association of North America. New Orleans, LA, November 14, 2003.
1103. Meniscus Allograft Reconstruction: Indications, Techniques, Results. UCSF Comprehensive Knee Cartilage Symposium, San Francisco, CA, November 8, 2003.
1104. Osteochondral Allograft Reconstruction: Indications, Techniques, Results. UCSF Comprehensive Knee Cartilage Symposium, San Francisco, CA, November 8, 2003.
1105. 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).
1106. Shoulder Instability: Patient Evaluation and Surgical Indications. Shoulder and Elbow: The Essentials. AAOS Orthopedic Learning Center, Chicago, IL, October 31, 2003.
1107. Cartilage Restoration: Clinical Update and Treatment Algorithm. Illinois Association for Orthopedic Surgeons Annual Meeting, Rush University, October 25, 2003.
1108. Arthroscopic Rotator Cuff Repair: Indications and Techniques. Mitek Workshop, Rush University, Chicago, IL, October 25, 2003.
1109. Autologous Chondrocyte Implantation. 2<sup>nd</sup> Annual Joint Preserving Treatment of the Knee. John Hopkins Annapolis, Maryland, October 24, 2003.
1110. Surgical Treatment of Articular Cartilage Defects. Annual Clinical Assembly of Osteopathic Specialists, Chicago, IL, September 20, 2003.
1111. 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.
1112. Advanced Considerations in Articular Cartilage Management. Oakbrook, IL, September 16, 2003.

**Brian J. Cole, M.D., M.B.A.**

- 1113. Arthroscopic Rotator Cuff Repair: Indications and Techniques. The Shoulder II: Open and Arthroscopic Techniques, AAOS Orthopedic Learning Center, Chicago, IL, September 12, 2003.
- 1114. Puddu Opening Wedge Plate for Knee Realignment. Baltimore Limb Deformity Course, September 11, 2003.
- 1115. New Approaches to Joint Preservation. Limb Deformity Course, September 11, 2003.
- 1116. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, September 9, 2003.
- 1117. Cartilage Restoration: Patient Evaluation and Treatment Algorithm. Instructional Course Lecture, 29<sup>th</sup> Annual AOSSM Meeting, San Diego, CA, July 20, 2003.
- 1118. Moderator, Scientific Session on Articular Cartilage, 29<sup>th</sup> Annual AOSSM Meeting, San Diego, CA, July 21, 2003.
- 1119. Assessment and Management of Patients with Chondral Injuries. Advanced Concepts in ACI. Charlotte, NC, June 28, 2003.
- 1120. Cartilage Restoration and Meniscal Allograft Reconstruction, Advanced Concepts in ACI. Charlotte, NC, June 28, 2003.
- 1121. Occupational Injuries: Fact or Fiction. Illinois Worker's Compensation Update, Oakbrook, IL, June 26, 2003.
- 1122. Osteochondral Autograft Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20, 2003.
- 1123. Allograft Meniscus Transplantation. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20, 2003.
- 1124. Arthroscopic Rotator Cuff Repair: Pearls and Pitfalls. Mitek Shoulder & Knee Mini-Course, Las Vegas, NV, May 31, 2003.
- 1125. Arthroscopic Shoulder Stabilization: Indications, Techniques & Results. Mitek Shoulder & Knee Mini-Course, Las Vegas, NV, May 31, 2003.
- 1126. Patient Evaluation and Management Techniques for Articular Cartilage Disease. Advanced Techniques in ACI. Manhattan Beach, CA, May 10, 2003.
- 1127. Osteochondral Grafting: Indications, Techniques, Results. Surgical Treatment Options for Complex Knee Injuries and Disorders Course # 3615, May 4, 2003, AAOS Learning Center, Rosemont, IL.
- 1128. Articular Cartilage Treatment Options. Instructional Course, 22<sup>nd</sup> Annual Meeting Arthroscopy Association of North America, Phoenix, AZ, April 24, 2003.

**Brian J. Cole, M.D., M.B.A.**

1129. Cartilage Restoration: Advanced Techniques and Treatment Algorithm. Medical & Surgical Approaches to Articular Cartilage Disorders of the Knee, April 12, 2003.
1130. Posterior and Multi-Directional Shoulder Instability: Open Treatment. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5, 2003.
1131. Coding Shoulder Procedures. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5, 2003.
1132. 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.
1133. Osteochondral Allografts: Indications, Techniques, Results. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
1134. Autologous Chondrocyte Implantation: Indications, Techniques, Results. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
1135. Allograft Meniscus Transplantation: Surgical Technique and Demonstration. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, Virginia, March 28, 2003.
1136. Arthroscopic shoulder stabilization. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 13, 2003.
1137. Anterior cruciate reconstruction: Rationale, Techniques, Results. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 15, 2003.
1138. Allograft meniscus transplantation. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 15, 2003.
1139. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, February 25, 2003.
1140. Arthroscopic shoulder stabilization: Point-Counterpoint - Cole vs. Rockwood. Arthroscopy Association of North America Specialty Day, New Orleans, LA, February 8, 2003.
1141. Chairman, Instructional Course Lecture, Allograft Meniscus Transplantation, 70<sup>th</sup> Annual AAOS Meeting, New Orleans, LA, February 6, 2003.
1142. Chairman, Instructional Course Lecture, Arthroscopic Shoulder Stabilization, 70<sup>th</sup> Annual AAOS Meeting, New Orleans, LA, February 6, 2003.
1143. Instructional Course Lecture: Establishing a Paperless Office, 70<sup>th</sup> Annual AAOS Meeting, New Orleans, LA, February 9, 2003.
1144. 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.

**Brian J. Cole, M.D., M.B.A.**

1145. Arthroscopic shoulder stabilization: Indications, techniques, results. 4<sup>th</sup> Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 23, 2003.
1146. Basic science of thermal capsulorrhaphy. 4<sup>th</sup> Advanced Course on Shoulder Arthroscopy, Val d'Isere, France, January 24, 2003.
1147. Surgical demonstration. Exojet. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002
1148. Exojet: Overview and Application. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
1149. Marrow Stimulation and Osteochondral Grafting. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
1150. Arthroscopic Shoulder Stabilization: Techniques, Pearls & Pitfalls. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 6, 2002.
1151. Arthroscopic Rotator Cuff Repair. Pearls and Pitfalls. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 7, 2002.
1152. Proximal Humerus Fractures. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
1153. Magnetic Resonance Imaging of the Shoulder. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
1154. Current Status of Arthroscopic Shoulder Stabilization. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
1155. Live surgical demonstration: Arthroscopic shoulder stabilization. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12, 2002.
1156. Live surgical demonstration: Arthroscopic rotator cuff repair. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
1157. Alternatives to Total Knee Arthroplasty. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
1158. Arthroscopic Treatment of Miscellaneous Knee Conditions. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 13, 2002.
1159. Allograft Meniscus Transplantation. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 15, 2002.

**Brian J. Cole, M.D., M.B.A.**

1160. Management of Arthritic Knee: Adolescence to 55. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 16, 2002.
1161. Arthroscopic Shoulder Stabilization. 27<sup>th</sup> Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
1162. Allograft Meniscus Transplantation. 27<sup>th</sup> Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
1163. Cartilage Restoration: Clinical Update. 27<sup>th</sup> Annual New Jersey Orthopaedic Society, East Brunswick, NJ, October 26, 2002.
1164. Arthroscopic Rotator Cuff Repair: Techniques for Success. Mitek Knee and Shoulder Symposium, Irvine, CA, October 18, 2002.
1165. Cartilage Restoration: Treatment Algorithm, UCSD Cartilage Symposium, San Diego, CA, October 19, 2002.
1166. Meniscus Transplantation: Indications, Techniques, Results, UCSD Cartilage Symposium, San Diego, CA, October 19, 2002.
1167. Cartilage Restoration: Treatment Algorithm, Orthopedic Symposium, Dallas, Texas, October 15, 2002.
1168. Clinical Outcomes: The Development of the e-CRF. 1<sup>st</sup> Meeting of the Cartilage Research Foundation, Baltimore, MD, October 13, 2002.
1169. Biologic Markers for Osteoarthritis. 1<sup>st</sup> Meeting of the Cartilage Research Foundation, Baltimore, MD, October 13, 2002.
1170. Arthroscopic Rotator Cuff Repair: Techniques for Success, Egyptian Orthopedic Society, Cairo, Egypt, August 31, 2002.
1171. Cartilage Restoration: Clinical and Basic Science Update, Egyptian Orthopedic Society, Cairo, Egypt, August 31, 2002.
1172. Cartilage Restoration: The Treatment Algorithm, Clinical Orthopedic Society, Indianapolis, IN, September 20, 2002.
1173. Allograft Meniscal Transplantation. AAOS Instructional Course Lectures, 52, 1236-1250, July 2002.
1174. Arthroscopic Rotator Cuff Repair Advanced Arthroscopic and Open Shoulder Surgery, AAOS Course, OLC, Chicago, IL, July 19, 2002.
1175. Thermal Treatment of Shoulder Instability, Shoulder Review and Update, AAOS Course, OLC, Chicago, IL, July 20, 2002.

**Brian J. Cole, M.D., M.B.A.**

1176. Arthroscopic Shoulder Stabilization, Shoulder Review and Update, AAOS Course, OLC, Chicago, IL, July 20, 2002.
1177. Hemiarthroplasty for Proximal Humerus Fractures, Live surgical demonstration, AAOS Course, OLC, Chicago, IL, July 21, 2002.
1178. 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.
1179. Cartilage Restoration: Patient Evaluation and Treatment Algorithm. 28<sup>th</sup> Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 31, 2002.
1180. Cartilage Restoration. Total Hip and Knee Forum, Rush University, Chicago, IL, June 25, 2002.
1181. 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.
1182. Arthroscopic Instability Technique and Results. 19<sup>th</sup> Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002.
1183. Arthroscopic Rotator Cuff Repair. Midwest Orthopedics Educational Luncheon, Rush University, Chicago, IL, June 11, 2002.
1184. 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.
1185. Contemporary Management of Shoulder and Elbow Arthritis, Arthritis Foundation, Living with Arthritis Seminar, Lisle, IL, May 18, 2002.
1186. Arthroscopic Shoulder Stabilization, Live Demonstration. The Shoulder: Current Practice in Open and Arthroscopic Techniques, AAOS Course, OLC, Chicago, IL, May 6, 2002.
1187. Clinical Update on Upper Extremity Problems, Chicago Metropolitan Hand Study Organization, Chicago, IL, April 23, 2002
1188. 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.
1189. Allograft Meniscus Transplantation: Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002.
1190. Osteochondral Allografts, Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002

**Brian J. Cole, M.D., M.B.A.**

1191. Osteochondral Autografts, Indications, Techniques, Results. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002
1192. Arthroscopic Rotator Cuff Repair: Techniques for Success. Mitek Advanced Knee and Shoulder Symposium, Charlottesville, VA, March 15, 2002.
1193. Arthroscopic Rotator Cuff Repair: Live Demonstration, Mitek Advanced Knee and Shoulder Symposium, Charlottesville, VA, March 16, 2002.
1194. Arthroscopic vs. open stabilization: How to choose. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 2, 2002.
1195. MRI of the shoulder. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 3, 2002.
1196. Rehabilitation of the shoulder. Frontiers in Sports Medicine: The Athlete in 2002, AAOS, La Jolla, CA, March 3, 2002.
1197. Alternatives to Arthroplasty, Total Hip and Knee Forum, Rush University, Chicago, IL, February 26, 2001.
1198. Moderator, Knee Session, 48<sup>th</sup> Annual Orthopaedic Research Society, Dallas, TX, February 10, 2002.
1199. Moderator, Shoulder/Elbow Instability, 69<sup>th</sup> Annual American Academy of Orthopaedic Surgeon's, Dallas, TX, February 13, 2002.
1200. 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.
1201. Thermal Surgery: Capsulorrhaphy and Chondroplasty, Kansas City, MO, January 17, 2002.
1202. Live demonstration, Arthroscopic Rotator Cuff Repair, Global Knee and Shoulder Arthroscopy Symposium, Orthopedic Learning Center, Chicago, IL, January 20, 2002.
1203. Patient Evaluation for Instability, Global Knee and Shoulder Arthroscopy Symposium, Orthopedic Learning Center, Chicago, IL, January 20, 2002.
1204. Thermal Chondroplasty, Basic Science and Clinical Application. Second Annual Fellowship Program, Carlsbad, CA, December 8, 2001.
1205. Allograft Meniscus Transplantation. Illinois Athletic Trainers' Association State Meeting, Chicago, IL, November 11, 2001.
1206. Arthroscopic Management of the Unstable Shoulder. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001.
1207. Thermal Applications for Shoulder Instability. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001.

**Brian J. Cole, M.D., M.B.A.**

1208. Live demonstration, Arthroscopic Rotator Cuff Repair, Mitek Shoulder and Knee Symposium, Orlando, FL, October 19, 2001.
1209. Arthroscopic Rotator Cuff Repair: Decision Making, Pearls and Pitfalls. Mitek Shoulder and Knee Symposium, Orlando, FL, October 18, 2001.
1210. Arthroscopic Management of Shoulder Instability, Mitek shoulder and Knee Symposium, Orlando, FL, October 18, 2001.
1211. Advances in Minimally Invasive Shoulder Surgery, Accelerated Rehabilitation Educational Forum, Oakbrook, IL, 2001, October 16, 2001.
1212. Arthroscopic Rotator Cuff Repair: Pearls and Pitfalls. Comprehensive Surgery for the Athlete's Shoulder. Orthopedic Learning Center, September 28, 2001.
1213. Thermal Treatment of Shoulder Instability. Comprehensive Surgery for the Athlete's Shoulder. Orthopedic Learning Center, September 28, 2001.
1214. Cartilage Restoration, Clinical Update, Industrial Rehabilitation Allies, Chicago, IL, September 14, 2001.
1215. Course Chairman, Mitek Shoulder and Knee Sports Medicine Symposium, Carlsbad, CA, August 10-11, 2001.
1216. 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.
1217. Cartilage Restoration and Autologous Chondrocyte Transplantation. Complex Knee Problems: Surgery for the Active Knee. Orthopedic Learning Center, Chicago, IL, July 29, 2001.
1218. Live demonstration, Arthroscopic Shoulder Stabilization, The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey, Orthopedic Learning Center, Chicago, IL, July 13, 2001.
1219. Management of Proximal Humerus Fractures, The Shoulder in 2001: An Open and Arthroscopic Surgical Odyssey, Orthopedic Learning Center, Chicago, IL, July 15, 2001.
1220. Treatment of Chondral Injury and Thermal Chondroplasty: Clinical Update, Michigan Sports Medicine Society, Flint, Michigan, June 14, 2001.
1221. Cartilage Restoration: Clinical Update, Medical College of Wisconsin, Milwaukee, WI, June 4, 2001.
1222. Advances in the Arthroscopic Management of Shoulder and Knee Conditions, Arthritis Foundation Annual Seminar, Chicago, IL, May 19, 01.
1223. Chairman, Instructional Course Lecture, Management of Chondral Injury, Mid-America Orthopaedic Association, 19<sup>th</sup> Annual Meeting, Amelia Island, FL, April 20, 2001.
1224. An Algorithm for the Management of Chondral Injury, Mid-America Orthopaedic Association, 19<sup>th</sup> Annual Meeting, Amelia Island, FL, April 20, 2001.



**Brian J. Cole, M.D., M.B.A.**

1225. Cartilage Restoration: Clinical Update, Rush University Forum for Research and Clinical Investigation, Chicago, IL, April 4, 2001.
1226. Autologous Chondrocyte Implantation: Indications, Techniques and Results, CorVel, Milwaukee, WI, March 29, 2001.
1227. Chairman, Instructional Course Lecture, Allograft Meniscus Transplantation, AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA, March 4, 2001.
1228. Evaluation, Indications, and CPT Coding for Allograft Meniscus Transplantation, AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA, March 4, 2001.
1229. Chairman, Instructional Course Lecture, Arthroscopic Management of Glenohumeral Instability, AAOS 68<sup>th</sup> Annual Meeting, San Francisco, CA, March 2, 2001.
1230. 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.
1231. Clinical Update on Thermal Chondroplasty, Cartilage Study Group, Napa Valley, CA, February 27, 2001.
1232. Exploring Options in Arthritis. Oak Park Hospital, Oak Park, IL, February 9, 2001.
1233. Indications for Cartilage Restoration. American Association of Legal Nurse Consultants, Chicago, IL, February 8, 2001.
1234. Cartilage Restoration, Illinois Orthopedic Nursing Association, Chicago, IL, January 31, 2001.
1235. 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.
1236. 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.
1237. Thermal energy and articular cartilage: A clinical overview. Cartilage Study Group, The Hospital for Special Surgery, New York, NY, November 9, 2000.
1238. 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.
1239. Alternatives to knee arthroplasty, Total Hip and Knee Forum, Chicago Learning Center, Chicago, IL, November 13, 2000.
1240. Arthroscopic management of the unstable shoulder, Illinois Association of Orthopaedic Surgeons, Loyola University Medical Center, Maywood, IL, November 4, 2000.
1241. 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,

**Brian J. Cole, M.D., M.B.A.**

October 29, 2000.

1242. 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.
1243. Live demonstration, Arthroscopic Bankart repair, AAOS/EEXOT Shoulder and Knee Arthroscopy Course, American Academy of Orthopedic Surgeons, Rosemont, IL, October 20, 2000.
1244. Basic Science of Shoulder Instability, Resident Teaching Conference, October 24, 2000.
1245. Treatment Algorithm for Chondral Injuries, The State of the Art in Cartilage Repair, Washington University Medical School, October 21, 2000.
1246. Thermal Chondroplasty, The State of the Art in Cartilage Repair, Washington University Medical School, October 21, 2000.
1247. Clinical Application of Thermal Energy: Shoulder Instability and Chondromalacia-"Should we use it," Pennsylvania Orthopedic Society, University of Pennsylvania, September 30, 2000.
1248. Arthroscopic Rotator Cuff Repair: Shoulder Symposium; Sports Medicine Symposium Advanced Arthroscopy: Knee and Shoulder. Duke University, Durham, North Carolina, September 24, 2000.
1249. 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.
1250. 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.
1251. Surgical Management of Symptomatic Chondral Injury, AOSSM-ACSM Exchange Lecture, American College of Sports Medicine Annual Meeting, Indianapolis, Indiana, June 2, 2000.
1252. 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.
1253. 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.
1254. 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.
1255. Approaches to the repair of articular cartilage defects, Mid America Orthopedic Association, 18th Annual Meeting, Scottsdale, Arizona, April 29, 2000.
1256. Master Instructor, Advanced Techniques in Open and Arthroscopic Shoulder Surgery, American Academy of Orthopaedic Surgery, April 28-30, 2000.

**Brian J. Cole, M.D., M.B.A.**

1257. Meniscal grafting-update presentation. Allografts in Orthopaedics, Illinois Orthopaedic Society Spring Meeting, Urbana, Illinois, April 7, 2000.
1258. Surgical technique for four-part fractures. The Chicago Shoulder Arthroscopy Course, Orthopaedic Learning Center, Chicago, Illinois, April 2, 2000.
1259. Meniscal Transplantation: Indications, Technique and Results. Total Hip and Knee Forum, Chicago Learning Center, Rush University Medical Center, Chicago, Illinois, February 28-29, 2000.
1260. Open vs. Arthroscopic Surgical Intervention for Shoulder Stabilization. Northwestern Hospital, Chicago, Illinois. January 25, 2000.
1261. Electrothermal Arthroscopy Symposium. Applications and Techniques. Menorah Park Medical Center, Overland Park, Kansas, December 16, 1999.
1262. 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.
1263. Proximal Humeral Fracture- Hemiarthroplasty; Indications and Techniques. Surgical Management for Common Disorders of the Shoulder, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, Dec. 12, 1999.
1264. 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.
1265. Shoulder instability: Bioabsorbable implants. Advanced Shoulder Arthroscopy, Arthroscopy Association of North America, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, October 15, 1999.
1266. The current status of meniscus transplantation. "The Masters Experience" Comprehensive Knee Arthroscopy, Arthroscopy Association of North America, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, October 9, 1999.
1267. 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.
1268. Thermal modification of collagen in sports medicine. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Washington, DC, May 30, 1999.
1269. Open vs. arthroscopic shoulder stabilization. EBI Sports Medicine Forum, Parsipone, New Jersey, May 14, 1999.
1270. Meniscal transplantation. EBI Sports Medicine Forum, Parsipone, New Jersey, May 14, 1999.
1271. Cartilage and meniscal transplantation. Total Hip and Knee Forum, Chicago Learning Center, Rush University Medical Center, Chicago, Illinois, April 26, 1999.

**Brian J. Cole, M.D., M.B.A.**

1272. Alternatives to joint replacement for the active patient with knee osteoarthritis. Arthritis Foundation Seminar, Rush University Medical Center, Chicago, Illinois, April 24, 1999.
1273. Contemporary management of shoulder and knee injuries: A primary care physician's perspective. Oak Park Hospital, Oak Park, Illinois, April 23, 1999.
1274. Thermal modification of collagen in sports medicine. Milwaukee, Wisconsin, April 22, 1999.
1275. Course Director, Autologous cartilage cell transplantation: indications and techniques. Hyatt Hotel, Chicago, Illinois, April 21, 1999.
1276. Developments in Cartilage Restoration. The Rush Cartilage Restoration Center, Board of Trustees, Rush University Medical Center, Chicago, Illinois, April 14, 1999.
1277. Advances in cartilage surgery. Midwest Orthopaedics Sports Medicine Seminar, Oak Park, Illinois, March 6, 1999.
1278. The multiple ligament-injured knee. Chicago Sports Medicine Society, Chicago, Illinois, February 18, 1999.
1279. Enhancing the results of arthroscopic shoulder stabilization with the use of RF. American Academy of Orthopaedic Surgeons, Anaheim, California, February 7, 1999
1280. Physical examination of the athlete's shoulder. Accelerated Rehabilitation, Chicago, Illinois, January 21, 1999.
1281. The use of thermal energy in sports medicine. Cincinnati Orthopaedic Group, Cincinnati, Ohio, January 20, 1999.
1282. 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.
1283. Course Director, Autologous cartilage cell transplantation: indications and techniques. Rush University Medical Center, Chicago, Illinois, November 7, 1998.
1284. Joint management and cartilage transplants. Arthritis Foundation Seminar, Oak Lawn Hilton, Chicago, Illinois, October 17, 1998.
1285. The use of the FCE in the management of workers compensation shoulder and knee injuries. FOCUS Rehabilitation, Chicago, Illinois, October 28, 1998.
1286. 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.
1287. Associate Master Instructor, Summer Institute, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 9-11, 1998.

**Brian J. Cole, M.D., M.B.A.**

1288. On-the-field management of the fallen athlete. Rush University Medical Center Resident Teaching Conference, Chicago, Illinois, August 11, 1998.
1289. Management of work-related injuries to the knee. Case Manager's Seminar, Flossmore Physical Therapy, Flossmoor, Illinois, July 21, 1998.
1290. Focus on function. Lake Shore Health Care and Rehabilitation Center, Chicago, Illinois, July 15, 1998.
1291. Ligament and meniscal injury. The Chicago Orthopedic Board Review, Chicago, Illinois, July 14, 1998.
1292. The basic science of orthopaedic tissues. The Chicago Orthopedic Board Review, Chicago, Illinois, July 13, 1998.
1293. Management of the degenerative knee in the active patient. Rush University Medical Center, Arthritis Foundation, Chicago, Illinois, July 11, 1998.
1294. Course Director, Indications and techniques of meniscal allograft transplantation. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, June 27, 1998.
1295. Management of the worker's compensation shoulder injury. Case Manager's Seminar, Clyborn Physical Therapy, Chicago, Illinois, June 23, 1998.
1296. 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.
1297. 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.
1298. Shoulder problems in the workplace. Chubb's Insurance Company, Chicago, Illinois, February 13, 1998.
1299. Meniscus transplantation: Indications and techniques. HealthSouth, Oak Park, Illinois, February 12, 1998.
1300. Cartilage resurfacing techniques. AIG Insurance Company, Springfield, Illinois, January 28, 1998.
1301. Management of shoulder instability. Physical Therapy of the North Shore, Northbrook, Illinois, January 22, 1998.
1302. Associate Master Instructor, "The Masters Experience" Comprehensive Knee Course. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, January 16-18, 1998.
1303. Shoulder Surgery: Focused perspectives on open vs. arthroscopic management. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, December 6, 1997.
1304. Open and arthroscopic shoulder Surgery: Current concepts and techniques. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, December 5-7, 1997.

**Brian J. Cole, M.D., M.B.A.**

1305. Meniscus transplant: Indications, techniques and outcomes. Athletico, Chicago, Illinois, December 2, 1997.
1306. Clinical considerations in management of articular cartilage defects. Biochemistry Departmental Lecture, Rush University Medical Center, Chicago, Illinois, November 26, 1997.
1307. 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.
1308. Closed head injuries in the athlete: on the field management. Illinois Trainers Association, Oak Park, Illinois, November 15, 1997.
1309. Management of articular cartilage injury. Free Health Seminar, Oak Park Hospital, Oak Park, Illinois, November 1-2, 1997.
1310. Marketing your clinical practice-ethically, effectively, economically. Midwest Orthopaedics Annual Staff Meeting and Awards, Chicago, Illinois, October 28, 1997.
1311. Living with arthritis and enjoying life to the fullest. St. Margaret Mercy HealthCare Center, Hammond, Indiana, October 25, 1997.
1312. Management of articular cartilage injury in the athlete. Oak Park Hospital, Oak Park, Illinois, October 17, 1997.
1313. Autologous cartilage cell transplantation-A comparison to traditional techniques. Chubb's Insurance Company, Chicago, Illinois, October 16, 1997.
1314. Diagnosis and management of shoulder pain-A primary care physician's perspective. Rush-Prudential HMO, Chicago, Illinois, October 2, 1997.
1315. Arthroscopic shoulder stabilization. Congress of the European Society for Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15-17, 1997.
1316. Management of arthritis in the active patient-A primary care physician's perspective. Rush-Prudential HMO, Chicago, Illinois, September 11, 1997.
1317. Management of the acutely dislocated knee. American Academy of Orthopaedic Surgeons, Summer Institute, Washington, D.C., September 3-7, 1997.
1318. Treatment of the unstable shoulder. 1997 National Orthopaedic Resident Program, Chicago, Illinois, August 21-24, 1997.
1319. Treatment of multi-ligament knee injury problems. 1997 National Orthopaedic Resident Program, Chicago, Illinois, August 21-24, 1997.
1320. Arthroscopic shoulder stabilization. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.

**Brian J. Cole, M.D., M.B.A.**

1321. Total shoulder arthroplasty. American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, July 1997.
1322. 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.
1323. Management of PCL injuries in 1997. The Eighth Annual Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, April 17-19, 1997.
1324. 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.
1325. 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.
1326. Sports Medicine Update: Shoulder and Elbow Problems in the Elite Athlete. The Hospital for Special Surgery, New York, New York, May 17, 1995.
1327. 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.
1328. 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. Management of Articular Cartilage Disease in the Athlete, Johns Hopkins University, Baltimore, MD. May 9, 2019.
2. Managing Athletes with Cartilage Disease, Northwestern University, Chicago, IL. April 19, 2019.
3. Cartilage Transplantation in the Athlete and Management of OCD, Tel Aviv University, Israel, June 6, 2018.
4. Alternative Options for Rotator Cuff Repair, Rush University Medical Center, Chicago IL, February 7, 2018.
5. Meniscus Allograft Transplantation, University of Chicago, Chicago, IL. February 1, 2017.
6. Achieving Balance in Clinical Academic Practice, Allegheny Orthopedic Program, Pittsburgh, PA, March 13, 2016.
7. Cartilage Restoration: Decision-Making, Allegheny Orthopedic Program, Pittsburgh, PA, March 13, 2016.
8. Cartilage Restoration: Decision-Making, Rush University Medical Center, Chicago, IL, October 6, 2015.
9. Cartilage Restoration and Decision-Making, Colorado University, September 2, 2015.
10. The Future of Joint Preservation, University of Pittsburgh, Pittsburgh, PA, June 24, 2015.
11. The Future of Joint Preservation, Steadman-Phillipon Institute, Vail, CO, May 31, 2015.
12. The Future of Cartilage Repair: Decision Making and How are we doing? Rush Joint Reconstruction Grand Rounds, Chicago, IL, May 15, 2015.
13. Case-Based Learning and Decision-Making in Cartilage Repair, Long Island Jewish Hospital Residency Program, New York NY, February 11, 2015.
14. Case-Based Learning: Real-time decision-making in cartilage repair, Emory Department of Orthopedics, Atlanta, GA, September 16, 2014.
15. Cartilage Restoration: Decision Making and Treatment Options, Michigan State Orthopedic Society, Troy Michigan, April 9, 2014.
16. SLAP Tears: When to fix and when to watch. Michigan State Orthopedic Society, Troy Michigan, April 9, 2014.
17. Cartilage Restoration: Decision Making and Treatment Options, University of Chicago Grand Rounds, Chicago, IL, May 21, 2013.
18. Complex Decision Making and Cartilage Restoration, Steadman-Phillipon Clinic, Vail, CO, February 4, 2013.
19. Cartilage Restoration: Update and Decision-Making, University of Maryland, Baltimore, MD, January 17, 2013.



**Brian J. Cole, M.D., M.B.A.**

20. Achieving Balance in Your Personal Life and Profession, Massachusetts General Harvard Partners Grand Rounds, Boston, MA, November 11, 2012.
21. 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.
22. Non-Arthroplasty Management of Glenohumeral Arthritis, Grand Rapids Residency (MSU) Grand Rounds, Grand Rapids, MI, September 19, 2012.
23. Biologics in Shoulder Reconstruction, Grand Rapids Residency (MSU) Grand Rounds, Grand Rapids, MI, September 19, 2012.
24. The Future of Cartilage Repair, Virginia Orthopedic Society Guest Speaker, Richmond, VA, October 13, 2011.
25. Non-Arthroplasty Resurfacing of the Glenohumeral Joint, Virginia Commonwealth University, Richmond, VA October 14, 2011.
26. Cartilage Restoration: Decision Making and Treatment Algorithm, Virginia Commonwealth University, Richmond, VA October 14, 2011.
27. Cartilage Restoration: Current Thinking and Decision-Making, University of Virginia, Charlottesville, VA, August 31, 2011.
28. Cartilage Restoration, Rush University Grand Rounds, Rush University Medical Center, April 28, 2010.
29. Failed Shoulder Instability: Pearls and Pitfalls, University of Buffalo, Buffalo, NY, April 29, 2010.
30. Cartilage Restoration: Clinical Update, University of Buffalo, Buffalo, NY, April 29, 2010.
31. Cartilage Restoration: Clinical Update and Treatment Algorithm, Vanderbilt University, Nashville, TN, January 28, 2010.
32. MRI of the Shoulder: From the Magnet to the Clinic to the Operating Room, Vanderbilt University, Nashville, TN, January 28, 2010.
33. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, University of Illinois, Chicago, IL, April 11, 2009.
34. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Columbia University, New York, NY, February 27, 2009.
35. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Brown University Department of Orthopedic Surgery, Providence, RI, September 17, 2008.
36. 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.

**Brian J. Cole, M.D., M.B.A.**

37. 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.
38. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Boston School of Medicine, Boston, MA, March 17, 2008.
39. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, Northwestern University, Chicago, IL, February 19, 2008.
40. Biologic Solutions to Cartilage Repair of the Knee and Shoulder, University of Pennsylvania, January 17, 2008.
41. Biologic Joint Replacement of the Knee and Shoulder, Stedman Hawkin's Clinic, Vail CO, December 11, 2008.
42. Cartilage Restoration: Clinical Update. University of Toronto, Toronto, CA, November 30, 2007.
43. Cartilage Restoration of the Knee and Shoulder, Howard University, Washington, DC, September 5, 2007.
44. Cartilage Restoration of the Knee and Shoulder, Kerlan-Jobe Clinic, Los Angelis, CA, October 26, 2006.
45. Cartilage Restoration of the Knee and Shoulder, Georgetown University, Washington, DC, April 18, 2006.
46. Cartilage Restoration of the Knee and Shoulder, University of Chicago, Chicago, IL, April 12, 2006.
47. Arthroscopic Rotator Cuff Repair: Indications and Results, University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
48. Cartilage Restoration of the Knee and Shoulder, University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
49. Cartilage Restoration: Clinical Update and Case Study Didactics, Medical College of Milwaukee, Milwaukee, WI, September 1, 2004.
50. Cartilage Restoration: Clinical Update and Treatment Algorithm. Alexian Brothers Hospital, Elk Grove Village, IL, September 1, 2004.
51. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, Albany University Medical Center, Albany, NY, June 18, 2004.
52. Autologous Chondrocyte Implantation, NY Orthopedic Society, Albany NY, June 17, 2004.
53. Cartilage Restoration: 5-Year Experience at the Rush Cartilage Restoration Center, University of Minnesota, Minneapolis, MN, April 9, 2004.
54. Cartilage Restoration: Clinical Update and Treatment Algorithm. University of California, Irvine, Orange County, CA, July 16. 2003.

**Brian J. Cole, M.D., M.B.A.**

55. Cartilage Restoration: Basic Science and Treatment Algorithm. Brown Medical School, Providence, RI, June 11, 2003.
56. Cartilage Restoration: Clinical and Basic Science Update. University of Iowa, Iowa City, IA, February 25, 2003.
57. Cartilage Restoration: The Treatment Algorithm. University of Wisconsin, Madison, September 25, 2002.
58. Arthroscopic Rotator Cuff Repair: Indications, Techniques, Results. St. James Hospital, Olympia Fields, IL, August 21, 2002.
59. Cartilage Restoration: Clinical and Basic Science Update. Michigan State University Statewide Campus System Orthopaedic Educational Day, August 14, 2002.
60. Cartilage Restoration: *In Vitro to In Vivo*. Combined Grand Rounds of the Department of Anatomy and Biochemistry, Rush University, June 6, 2002.
61. Cartilage Restoration: Clinical and Basic Science Update, Combined Meeting of Grand Rapids Orthopedic Programs, Grand Rapids, MI, May 31, 2002.
62. Cartilage Restoration: Clinical and Basic Science Update, Harvard Medical Center, Boston, MA, March 20, 2002.
63. Allograft Meniscus Transplantation, Mt. Sinai Medical Center, New York, New York, June 13, 2001.
64. Autologous Chondrocyte Implantation, Kentucky Blue Grass Society, University of Kentucky, KY, March 5, 2001.
65. Cartilage Restoration: Indications, Techniques, and Results. The University of Chicago, Chicago, IL, February 7, 2001.
66. Clinical Application of Thermal Energy: Shoulder Instability and Chondromalacia-"Should we use it," New England Baptist Medical Center, Boston, MA, September 27, 2000.
67. 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.
68. Meniscal allograft transplantation, Grand Rounds, Steadman-Hawkins Clinic, Vail, CO, September, 1998.
69. The clinical management of articular cartilage injury in the active patient. Grand Rounds, Northwestern University, Chicago, IL, December 12, 1997.
70. 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.

**Brian J. Cole, M.D., M.B.A.**

**VISITING PROFESSORSHIPS**

1. Visiting Professor, Peter Mack Lecture. Johns Hopkins University School of Medicine, Baltimore, MD May 8<sup>th</sup>-9<sup>th</sup> 2019.
2. Visiting Godfather, Kerlan-Jobe Institute 32nd Annual Fellowship Reunion Grand Rounds, San Diego, CA. July 5-6, 2018.
3. Visiting Professor, Henry Ford Hospital, Detroit, MI, April 6, 2016.
4. Visiting Professor, Allegheny General Hospital, Pittsburgh, PA, March 13, 2016.
5. Visiting Professor, 8<sup>th</sup> International Arthroscopy and Sports Congress, Cartagena, Columbia, October 21-24, 2015.
6. Visiting Professor and Lecturer, The Coboway Way, San Antonio, Texas, October 15-16, 2015.
7. University of Pittsburgh, Fellowship and Resident Research Day, June 24, 2015.
8. Steadman-Phillipon Institute, Vail, CO, May 31, 2015.
9. North Carolina State University School of Veterinary Medicine, Raleigh-Durham, NC, April 8-9, 2015.
10. Arab Health Conference, Dubai, AE, January 27, 2015.
11. Visiting Professor, Long-Island Jewish Hospital Residency Program, February 10, 2015.
12. Key-Note Speaker: Atlanta Orthopedic Society, Stem Cells and PRP: Where are we in 2014? Atlanta, GA, September 15, 2014.
13. Visiting Professor, Colorado State School of Veterinary Medicine, Ft. Collins, CO, June 12-13, 2014.
14. Visiting Sports Medicine Specialist, Cure International Hospital, Kijabe, Kenya, June 8-14, 2013.
15. Sooner Sports Medicine Symposium, Oklahoma City, OK, January 10-11, 2013.
16. Visiting Professor, 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 19-21, 2012.
17. Caspari Lectureship, Virginia Commonwealth University, Richmond, VA, October 13-14, 2011.
18. University of Missouri, Columbia, MO, September 5-6, 2011.
19. University of Virginia, Charlottesville, VA, August 30-31, 2011.
20. 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.

**Brian J. Cole, M.D., M.B.A.**

21. Society for Orthopedic Military Surgeons, 39<sup>th</sup> Annual Meeting, Vail, CO, December 11, 2007.
22. Oscar Miller Day: Symposium on “Current Concepts in Sports Medicine” OrthoCarolina Research Institute, Charlotte, NC, October 5, 2007.
23. Howard University, Washington, DC, September 4-5, 2007.
24. Kerlan Jobe Clinic, Los Angeles, CA, October 26-27, 2006.
25. 35<sup>th</sup> Annual Raney Visiting Professorship, University of North Carolina Department of Orthopaedics, Chapel Hill, NC, June 1-3, 2006.
26. Taos Orthopedic Fellowship Reunion, Taos, NM, March 28-April 2, 2006.
27. University of Pittsburgh, Pittsburgh, PA, November 23, 2005.
28. 47<sup>th</sup> Annual Conference of Indian Orthopaedic Association, Patna, India, November 12-17, 2002.
29. 35<sup>th</sup> Annual Northeastern Mid-Atlantic Orthopaedic Residents’ Conference, East Brunswick, NJ, October 25, 2002.
30. Helal Hospital, Cairo, Egypt, August 29 - September 5, 2002.
31. Naser Institute, Cairo, Egypt, August 29-September 5, 2002
32. 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.

**Brian J. Cole, M.D., M.B.A.**

20. Taking care of Athletes, Chicago Magazine, December, 2005.
21. Obesity in the NFL, Chicago Tribune, March 2, 3005.
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.



**Brian J. Cole, M.D., M.B.A.**

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. 2021 OSET Summit, Evolving Techniques. December 11<sup>th</sup>-13<sup>th</sup> (37.75 CME/CEU Credits, Category 1)
2. 2021 AOSSM Annual Meeting. Nashville, TN. July 7-11<sup>th</sup>. (20.25 AMA PRA Credits, Category 1)
3. 2021 AOSSM Annual Meeting – Sports Health Symposium. Nashville, TN. July 7-11<sup>th</sup>. (3.50 AMA PRA Credits, Category 1)
4. 2021 AOSSM Annual Meeting – Biologic Association Summit. Nashville, TN. July 7-11. (7.50 AMA PRA Credits, Category 1)
5. 2021 AOSSM Annual Meeting - IC206: The Business of Medicine. Nashville, TN. July 7-11<sup>th</sup>. (1.50 AMA PRA Credits, Category 1)
6. AAOS Orthopaedic Summit 2020: Evolving Technologies. Live virtual. (41 AMA PRA Credits, Category 1)
7. Paper review. AJSM 2020. (3 Credits, Category 1)
8. 2020 TOBI Virtual Course. (12 Credits, Category 1).
9. 2020 AAOS/AOSSM/AANA Sports Medicine Course. Park City, UT. (19.72 Credits, Category 1).
10. 2019 AOSSM Annual Meeting, Boston, MA. July 11-14<sup>th</sup>.
11. 2019 AAOS Annual Meeting. Las Vegas, NV. March 12-16th. (24 Credits, Category 1)
12. Paper review. AJSM 2019. (3 Credits, Category 1)
13. Paper review. AJSM 2018. (3 Credits, Category 1)
14. Paper review. AJSM 2018. (3 Credits, Category 1)
15. Paper review. AJSM 2018. (3 Credits, Category 1)
16. Paper review. AJSM 2018. (3 Credits, Category 1)
17. 20th Annual AAOS/AOSSM/AANA Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy and Contemporary Surgical Techniques, Park City, UT. January 30-February 4, 2019. (21.25 AMA PRA credits, Category 1)
18. Orthopedic Summit Evolving Techniques 2018, Las Vegas, NV. December 5-December 8, 2018. (33.5 AMA PRA credits, Category 1)
19. Paper review. AJSM 2018. (3 Credits, Category 1)
20. Paper review. AJSM 2018. (3 Credits, Category 1)
21. OrthoBiologics: Integrating Biologics and Clinical Ultrasound. Rosemont, IL.

**Brian J. Cole, M.D., M.B.A.**

22. 2018 ASES Annual Meeting. Chicago, IL. Oct 12-14. (21.25 Credits, Category 1)
23. 2018 Chicago Sports Medicine Symposium: World Series of Surgery, Chicago, IL. September 7-9. (21.75 Credits, Category 1)
24. AOSSM 2018 Annual Meeting, San Diego, CA. July 5-8. (21 Credits, Category 1)
25. 32nd Annual Kerlan Jobe Alumni Research Conference, San Diego, CA. July 5-6. (8.5 Credits, Category 1)
26. ASRA 2018 World Congress on Regional Anesthesia and Pain Medicine, New York, NY. April 19-21. (20.75 credits, Category 1)
27. AANA 2018 Annual meeting, Chicago, IL. April 26-28, 2018. (26.25 credits, Category 1)
28. AANA/AOSSM Specialty Day 2018, New Orleans, LA. March 10, 2018. (7.25 credits, Category 1)
29. 19th Annual AAOS/AOSSM/ANNA Sports Medicine Course, Park City, UT. January 31-February 4, 2018. (19 Credits, Category 1)
30. Orthopaedic Technology and Innovation Forum, Bonita Springs, FL. January 20-21, 2018.
31. Orthopaedic Summit 2017: Evolving Techniques, Las Vegas, NV. December 6-9, 2017. (7 Credits, Category 1)
32. Boston Sports Medicine Symposium 2017, Boston, MA. November 8-9, 2017. (13.5 Credits, Category 1)
33. 99<sup>th</sup> HSS Annual Alumni Association Meeting, New York, NY. November 9-11, 2017. (12.75 Credits, Category 1)
34. 2017 AANA Fall Course, Palm Desert, CA. November 2-4, 2017. (17 Credits, Category 1)
35. Cartilage Repair Innovations and Advancement in Joint Preservation of the Young Arthritic Knee, Boston, MA. October 27-28, 2017. (4.75 Credits, Category 1)
36. 2017 Innovative Techniques: Knee, Hip, and Shoulder Course, Las Vegas, NV. October 19-21, 2017. (21 Credits, Category I)
37. 12<sup>th</sup> Annual Colorado University Sports Medicine Fall Symposium, Boulder, CO. September 22, 2017. (8 Credits, Category I)
38. 2017 Chicago Sports Medicine Symposium, Chicago, IL. August 3-6, 2017 (31 Credits, Category 1)
39. ASSOM 2017 Annual Meeting, Toronto, Canada. July 20-23, 2017 (23.75 Credits, Category 1)
40. ICRS Heritage Summit, Gothenburg, Sweden. June 29-July 1, 2017
41. San Diego Shoulder Course 34<sup>th</sup> Annual Meeting, San Diego, CA. June 14-17, 2017 (33.5 Credits, Category 1)
42. AANA 2017 – 36<sup>th</sup> Annual Meeting, Denver, Colorado. May 18-20, 2017 (26.25 Credits, Category 1)

**Brian J. Cole, M.D., M.B.A.**

43. METCALF/ANNA: 2017 Arthroscopic Surgery Seminar. Snowbird, Utah. February 23,26, 2017. (27.5 Credits, Category 1)
44. 18<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active Through Biologics, Therapy, and Contemporary Surgical Techniques. Steamboat, CO. February 8-12, 2017. (17 Credits, Category 1)
45. Orthopaedic Summit 2016: An International Forum. Las Vegas, NV, December 7-10<sup>th</sup>, 2016. (32.5 credits, Category 1)
46. Fall Course General Lecture: Arthroscopy Association of North America, Las Vegas, NV, November 10<sup>th</sup>, 2016 (18.75 AMA PRA, Category 1)
47. Vail Scientific Summit, Vail, CO, August 18-20, 2016. (Attended, No CME provided)
48. Chicago Sports Medicine Symposium, Chicago, IL, August 5-7, 2016. (23.5 hours, Category 1)
49. AOSSM Annual Meeting, Colorado Springs, Colorado, July 7-10, 2016 (25 hours, Category 1)
50. 33<sup>rd</sup> Annual Shoulder Symposium, San Diego, CA, June 22-25<sup>th</sup>, 2016 (15 hours, Category 1)
51. Arthroscopy Association of North America Annual Meeting, Boston, Massachusetts, April 14-16, 2016 (17.25 Hours, AMA Category 1).
52. American Academy of Orthopedic Surgeons, Annual Meeting, Orlando, Florida, March 1-5, 2016 (35 Hours, Category 1).
53. AANA Specialty Day, Orlando, Florida, March 5, 2016 (6.5 Hours, Category 1).
54. Metcalf/AANA Arthroscopy, Sun Valley, Idaho, February 4-7, 2016. (25 Hours, AMA Category 1)
55. 17th Annual AAOS/AOSSM Sports Medicine Course: Keeping Patients Active through Innovation and Contemporary Surgical Techniques, Steamboat, CO, January 27-31, 2016 (20.75 Hours)
56. Orthopaedic Summit 2015: Evolving Techniques, Las Vegas, NV, December 4, 2015 (8 Hours, AMA Category 1).
57. Fall Arthroscopy Association of North America, Dallas, Texas, November 12-14, 2015 (18 Hours, AMA Category 1).
58. 8<sup>th</sup> International Arthroscopy and Sports Congress, Cartagena, Columbia, October 21-24, 2015.
59. The Cowboy Way, San Antonio, Texas, October 15-16, 2015.
60. 31<sup>st</sup> Annual Closed Shoulder Elbow Meeting, Ashville, NC, October 8-11, 2015 (12.5 Hours, Category 1).
61. Michigan Orthopedic Society Annual Meeting, Detroit, Michigan, October 1, 2015 (6 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

62. Innovative Techniques of the Knee, Las Vegas, NV September 14,2015 (8 Hours, Category 1).
63. Chicago Sports Medicine Course, August 24-25, 2015. Chicago, IL (12 Hours, Category 1).
64. 32<sup>nd</sup> Annual Shoulder Symosium, San Diego, CA, June 17-20, 2015 (15 Hours, Category 1).
65. International Cartilage Repair Society Annual Meeting, Chicago, IL, May 8-11, 2015 (35 Hours, Category 1).
66. ICRS Skills Course, AAOS OLC, Rosemont, IL, May 7, 2015 (10 Hours, Category 1).
67. American Academy of Orthopedic Surgeons, Annual Meeting, Las Vegas, NV, March 17-20, 2015 (35 Hours, Category 1).
68. AANA/AOSSM/ASES Specialty Day, Las Vegas, NV, March 21, 2015 (4 Hours, Category 1).
69. AOSSM Specialty Day, Las Vegas, NV, March 21, 2015 (2 Hours, Category 1).
70. AANA Specialty Day, Las Vegas, NV, March 21, 2015 (2 Hours, Category 1).
71. Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January March 4-6, 2015 (25 Hours, AMA Category 1).
72. Course Chairman, 16<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: Elite Athlete to Weekend Wrriors, Park City, UT, February 25-March 1, 2015 (28.5 Hours AMA Category 1).
73. AANA Masters Experience: Advances in Knee Surgery: Cartilage Focus. November 21-23, 2014 (16.5 Hours, Category 1).
74. 58<sup>th</sup> Annual Edward T Smith Orthopaedic Lectureship, Houston, Texas, November 14, 2014 (4 Hours, AMA Category 1).
75. Arthroscopy Association of North America Fall Meeting, Palm Desert, CA, November 5-9, 2014 (17 Hours, AMA Category 1).
76. Annual Closed Meeting of the American Shoulder and Elbow Surgeons, Pinehurst, NC, October 9-12, 2014 (12 Hours, AMA Category 1).
77. 3rd Annual ICJR Shoulder Course, Las Vegas, NV, September 18-19, 2014 (10 Hours, AMA Category 1).
78. 3<sup>rd</sup> Annual Advanced Concepts in Sports Medicine and Orthopedic Surgery, September 20, 2014 (6 Hours, AMA Category 1).
79. Orthopedic Surgical Controversies of the Shoulder, Laguna Beach, CA, Sept 12-13, 2014 (20.45 Hours, AMA Category 1).

**Brian J. Cole, M.D., M.B.A.**

80. AOSSM Annual Meeting, Seattle, WA, July 10-13, 2014 (13.5 Hours, AMA Category 1).
81. 40<sup>th</sup> Annual Meeting of the Herodicus Society, Victoria, BC, July 5-8, 2014 (10 Hours, AMA Category 1).
82. 26<sup>th</sup> Annual Thesis Day, Chicago, IL, June 27, 2014.
83. 1<sup>st</sup> Annual International Extreme Sports Medicine Congress. Boulder, CO, June 13-14, 2014 (17.5 Hours AMA Category 1).
84. Arthroscopy Association of North America Annual Meeting, May 1-3, 2014 (17.75 Hours Category 1).
85. American Academy of Orthopedic Surgeons, Annual Meeting, New Orleans, LA, March 11-15, 2014 (35 Hours, Category 1).
86. AANA Specialty Day, New Orleans, LA, March 15, 2014 (2 Hours, Category 1).
87. AOSSM Specialty Day, New Orleans, LA, March 15, 2014 (2 Hours, Category 1).
88. ASES Specialty Day, New Orleans, LA, March 15, 2014 (2 Hours, Category 1).
89. An Osteophyte in the Tibial Plateau is a Risk Factor for Allograft Extrusion after Meniscus Allograft Transplantation, February 26, 2014 (3 Hours, AMA Category 1).
90. 15<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course: From the Weekend Warrior to the Elite Athlete #3038, Park City, Utah, February 12-16, 2014 (27.25 Hours, AMA Category 1).
91. Metcalf AANA Arthroscopic Surgery Seminar, Snowbird, Utah, January 23-24, 2014 (25 Hours, AMA Category 1).
92. 14<sup>th</sup> Annual International Sports Medicine Fellows Conference, Carlsbad, CA, January 17-19, 2014.
93. Emerging Techniques in Orthopedics, Las Vegas, December 5-7, 2013 (30 Hours, AMA Category 1).
94. Shoulder Reconstruction, 2013, Current State of the Art and Science, Las Vegas, November 15, 2013 (12 Hours, AMA Category 1).
95. Arthroscopy Association of North America Fall Course, Las Vegas, NV, November 6-8, 2013 (24 Hours, Category 1).
96. Advances in Knee Surgery: Articular Cartilage, Rosemont, IL, October 18-21, 2013 (16.5 AMA Category 1).
97. ICRS Annual Meeting, Izmir, Turkey, September 15-18, 2013 (17 Hours, AMA Category 1).
98. Articular Cartilage Preservation/Transplantation Techniques, AAOS/AAHKS, Chicago, IL, July 16, 2013 (1.5 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

99. AOSSM Annual Meeting, Chicago, IL, July 11-14, 2013 (13.75 Hours, Category 1).
100. Herodicus Annual Meeting, July 6-8, 2013, Kohler, WI (15.5 Hours, Category 1).
101. Advanced Surgical Reconstruction of the Knee and Shoulder, AAOS OLC, April 19, 2013 (6 Hours, Category 1).
102. Annual Cherry Blossom Society Meeting, Arlington, VA, April 6, 2013 (3.5 Hours, Category 1).
103. AAOS Annual Meeting, Chicago, IL March 20-22, 2013 (38.5 Hours, Category 1).
104. ASES Specialty Day, Chicago, IL, March 23, 2013 (8 Hours, Category 1).
105. ICL: Shoulder Instability: Anterior, Posterior and MDI, AAOS Annual Meeting, March 22, 2013 (2 Hours, Category 1).
106. ICL: Cartilage Repair in the Knee, AAOS Annual Meeting, March 21, 2013 (2 Hours, Category 1).
107. Sooner Sports Medicine Symposium, University of Oklahoma, Norman, OK, January 11, 2013. (6.5 Hours, AMA Category 2).
108. 2<sup>nd</sup> Annual Emerging Techniques in Orthopedics-An International Perspective, Las Vegas, NV, December 7-8, 2012. (12 Hours, AMA Category 1).
109. American Physical Therapy Annual Meeting, Las Vegas, NV, December 1, 2012.
110. AANA 31<sup>st</sup> Annual Fall Course, Phoenix, AZ, November 8-10, 2012 (24 Hours, AMA Category 1).
111. CEDIR AMA 6<sup>th</sup> Edition AMA Disability Rating, November 2, 2012, Oakbrook, IL (7 Hours, AMA Category 1).
112. 17<sup>th</sup> Annual Boston Sports Medicine Symposium, Waltham, MA, Oct 26-27, 2012 (8 Hours, AMA Category 1).
113. 34<sup>th</sup> Annual Meeting of the Thailand Orthopedic Society, Pattaya, Thailand, October 19-21, 2012.
114. 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).
115. Managing Shoulder Arthritis: Reverse Shoulder Replacement. Midwest Orthopedics at Rush Shoulder Seminar, Oakbrook, IL, October 25, 2012.
116. 2012 National Capital Knee Symposium, Ottawa, ON, September 20-21, 2012 (6 Hours, Category 1).
117. Las Vegas Shoulder Course, September 13-14, 2012 (3.25 AMA Category 1).

**Brian J. Cole, M.D., M.B.A.**

118. Annual Meeting of the American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012 (14.74 Hours, Category 1).
119. ICLs at Annual Meeting of the American Orthopedic Society for Sports Medicine, Baltimore, MD, July 12-15, 2012 (3 Hours, Category 1).
120. San Diego Shoulder Course, San Diego, CA, June 20-22, 2012 (15.25 Hours, Category 1).
121. Sports Medicine Imaging: State of the Art, New York, NY, May 22, 2012 (2 Hours, Category 1).
122. International Cartilage Repair Society Annual Meeting, Montreal, CA, May 11-13, 2012 (22.25 Hours, Category 1).
123. Annual Advances in Arthritis and Arthroplasty: The Knee, St. Louis, MO, April 26, 2012 (21.75 Hours, Category I).
124. American Medical Society of Sports Medicine, Atlanta, GA, April 22, 2012 (6 Hours, Category 1).
125. Argentinian Arthroscopy Association Annual Meeting, Buenos Aires, Argentina, April 19-21, 2012,
126. 31<sup>st</sup> Annual Cherry Blossom Seminar, Arlington, VA, March 30-April 1, 2012 (16.5 Hours, Category 1).
127. American Board of Orthopedic Surgery Re-Certification (60 Hours, Category 1).
128. AAOS Annual Meeting, S.F., CA, February 8-10, S.F., California (38.5 Hours, Category 1).
129. ICL: Stress Management and Balance for the Orthopaedic Surgeon, AAOS Annual Meeting, S.F., CA, February 8, 2012 (2 Hours, Category 1).
130. ICL: Surgical Management of Articular Cartilage Defects of the Knee, AAOS Annual Meeting, S.F., CA, February 9, 2012 (2 Hours, Category 1).
131. ICL: Arthroscopic Management of Shoulder Instabilities: Anterior, Posterior and Multidirectional. AAOS Annual Meeting, S.F., CA, February 10, 2012 (2 Hours, Category 1).
132. ASES Specialty Day, AAOS Annual Meeting, February 11, 2012 (2 Hours, Category 1)
133. AOSSM Specialty Day, AAOS Annual Meeting, February 11, 2012 (8 Hours, Category 1)
134. AANA Specialty Day, AAOS Annual Meeting, February 11, 2012 (3 Hours, Category 1)
135. Annual Metcalf Sports Medicine Meeting, Phoenix, AZ, January 14-17. 2012 (31 Hours, Category 1).
136. Emerging Techniques in Orthopedics: Spots Medicine and Arthroscopic Surgery, December 8-10, 2011, Las Vegas, Nevada (20.5 Hours, Category 1).



**Brian J. Cole, M.D., M.B.A.**

137. AANA Fall Meeting, Palm Desert, CA November 16-18, 2011 (24 Hours, Category 1).
138. AANA Masters Experience Course, Rosemont, IL, October 28-31, 2011 (16.5 Hours, Category 1)
139. AAOS Top Controversies, New York, NY, October 15, 2011 (9 Hours, Category 1).
140. Arthrex Biologic Shoulder and Knee Symposium, Irvine CA, Orange County, October 7-8, 2011.
141. Orthopedic Surgery Controversies, NAPA 2011. Napa, CA, October 5-7, 2011 (19 Hours, Category 1).
142. Arthrex Shoulder Symposium, Naples, FL, September 25-26, 2011.
143. Articular Cartilage: State of the Art 2011, May 21, 2011, NYU School of Medicine, NY, NY (8.25 Hours, Category 1).
144. American Society of Sports Medicine, Annual Meeting, Annual Meeting, San Diego, CA, July 7-10, 2011 (15 Hours, Category 1).
145. Texas Orthopedic Association Annual Meeting, May 20, 2011, Austin, Texas (6.0 Hours, Category 1).
146. American Osteopathic Association of Orthopedics, May 13, 2011, Scottsdale, AZ (4 Hours, Category 1).
147. 2011 Annual Meeting of the Arthroscopy Association of North America, San Francisco, CA, April 14-16 (12 Hours, Category 1).
148. 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).
149. 30<sup>th</sup> Annual Cherry Blossom Seminar, Washington, DC, April 1-3, 2011 (16.5 Hours, Category 1).
150. Arthroscopic Surgery, 2011. Robert Metcalf and AANA Meeting, March 24-27, 2011 (28 Hours, Category 1).
151. AOSSM Specialty Day, 77<sup>th</sup> Annual Meeting of the AAOS, San Diego, CA, Feb 19, 2011 (3.5 Hours, Category 1).
152. 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).
153. 77<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, Feb 16-18, 2011 (27 Hours, Category 1).
154. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, San Diego, CA, Feb 18, 2011 (2 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

155. 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).
156. ICL: Arthroscopic Management of Shoulder Instabilities, Management of Concomitant SLAP and Labral Tears, AAOS, San Diego, CA, Feb 16, 2011 (2 Hours, Category 1).
157. Complex Reconstruction of the Knee with Co-Morbidities, 11<sup>th</sup> Annual Cartilage Symposium, Carlsbad, CA, January 14, 2011.
158. Case-Based Cartilage Transplantation, Advanced Concepts Course, Genzyme, Inc., Rosemont, IL, November 20, 2010 (4 Hours, AMA Category 1).
159. New England Baptist Hospital Continuing Medical Education, Boston, MA October 29-October 30, 2010 (12 Hours, AMA Category 1).
160. American Shoulder and Elbow Surgeons 2010 Annual Meeting, Scottsdale, AZ, Oct 21-23, 2010 (10.5 Hours, Category 1).
161. 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).
162. Orthopedic Surgery Controversies, Napa 2010, Napa CA, October 14-16, 2010 (17.75 Hours, Category 1).
163. 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).
164. American Society for Sports Medicine, Providence, Rhode Island, July 15-July 17, 2010 (15 Hours, Category 1)
165. 2010 Annual AANA Meeting; May, 20, 2012, Hollywood, FL (15.75 Hours, Category I)
166. AAOS/AOSSM Annual Sports Medicine Course, February 11-14, 2010, Bonita Springs, FL.
167. AOSSM Specialty Day, 76<sup>th</sup> Annual Meeting of the AAOS, New Orleans, LA, March 13, 2010 (3.5 Hours, Category 1).
168. AANA Specialty Day, 76<sup>th</sup> Annual Meeting of the AAOS, New Orleans, LA, March 13, 2010 (3.5 Hours, Category 1).
169. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, New Orleans, LA, March 11, 2010 (2 Hours, Category 1).
170. 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).

**Brian J. Cole, M.D., M.B.A.**

171. Arthroscopic Management of Complications Related to Shoulder Instability, AAOS, New Orleans, LA, March 12, 2011 (2 Hours, Category 1).
172. 76<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, New Orleans, LA, Mar 10-13, 2010 (27 Hours, Category 1).
173. Arthroscopy Association of North America, 28<sup>th</sup> Annual Fall Course, Palm Desert, CA (12 Hours, Category 1).
174. AANA Articular Cartilage Course, October 19-11, 2009, OLC Rosemont, IL (15 Hours, Category 1).
175. AAOS-SIA Annual Meeting, Rome, Italy, September 30-October 3, 2009, Rome, Italy.
176. AOSSM Annual Meeting, Keystone, CO, July 9-12, 2009 (15 Hours, Category I).
177. ICL 101 AOSSM Annual Meeting, Keystone, CO, July 9, 2009 (1.5 Hours, Category I).
178. Comprehensive Management of Articular Cartilage Injuries, Orthopedic Learning Center, Chicago, IL, April 3-4, 2009 (16.5 Hours, Category I)
179. 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).
180. AOSSM Specialty Day, 75<sup>th</sup> Annual Meeting of the AAOS, Las Vegas, Nevada, Feb 27, 2009 (3.5 Hours, Category 1).
181. AANA Specialty Day, 75<sup>th</sup> Annual Meeting of the AAOS, Las Vegas, Nevada, Feb 27, 2009 (3.5 Hours, Category 1).
182. Arthroscopic RCR: An Evolution of Techniques. Are our patients really benefitting? AAOS, Las Vegas, Nevada, Feb 26, 2009 (2 Hours, Category 1).
183. 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).
184. Arthroscopic Management of Complications Related to Shoulder Instability, AAOS, Las Vegas, Nevada, Feb 26, 2009 (2 Hours, Category 1).
185. 75<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Las Vegas, Nevada, Feb 25-27, 2010 (27 Hours, Category 1).
186. Arthroscopic Surgery 2009, 1<sup>st</sup> Combined Metcalf//AANA Winter Meeting, Sun Valley, ID, January 31-February 3, 2009 (15 Hours, Category I).
187. 24<sup>th</sup> Annual Closed Shoulder and Elbow Society Meeting, Santa Barbara, CA, September 4-6, 2008 (11.75 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

188. Saratoga Sports Symposium, Saratoga, NY, August 1-2, 2008 (12 Hours, Category 1).
189. AAOS/ASES Arthroscopic Management of Rotator Cuff Disease and Instability, July 18-19, 2008 (20 Hours, Category 1).
190. AOSSM Annual Meeting, Orlando, FL, July 10-13, 2008 (14 Hours, Category 1).
191. Cartilage Innovation Summit 2008, Cleveland, Ohio, May 9, 2008 (8.5 hours, Category 1)
192. 27<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Washington DC, April 24, 2008 (8 Hours, Category 1).
193. AOSSM Specialty Day, AAOS Annual Meeting, San Francisco, CA, March 8, 2008 (7 Hours, Category 1).
194. 75<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Francisco, CA, March 5-7, 2008 (27 Hours, Category 1).
195. 9<sup>th</sup> Annual AAOS/AOSSM Sports Medicine Course-From Amateur to All-Star, Phoenix, AZ, February 7, 2008 (19 Hours, AMA Category D).
196. Arthroscopic Surgery, 2008: Annual Metcalf Meeting, Sun Valley, Idaho, February 2-5, 2008.
197. AAOS/ASES Open and Arthroscopic Techniques in the Shoulder, January 18-19, 2008 (18 Hours, Category, 2008).
198. 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).
199. 21<sup>st</sup> Annual Kerlan Jobe Alumni Meeting, Calgary, CA, July 13, 2007 (4 Hours, Category D).
200. 2007 AOSSM Allograft Workshop, Calgary, CA, July 11, 2007 (7 Hours, Category II).
201. AOSSM Annual Meeting, Calgary, CA, July 12-15, 2007 (14 Hours, Category I).
202. 24<sup>th</sup> Annual San Diego Shoulder Meeting: Arthroscopy, Arthroplasty and Fractures, San Diego, CA, June 20-23, 2007 (36 Hours, Category 1).
203. Mayo Clinic Advanced Techniques in Shoulder Arthroscopy, June 9, 2007 (8 hours, Category 1).
204. 33<sup>rd</sup> Annual Meeting of the Herodicus Society, May 25-26, Florence Italy (8 hours, Category 1).
205. 6<sup>th</sup> Biannual ISAKOS Meeting, May 27-May 30<sup>th</sup>, Florence Italy.
206. 74<sup>th</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, San Diego, CA, February 14-16, 2007 (27 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

207. 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).
208. 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).
209. 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).
210. Arthroscopy Association of North America, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
211. American Academy of Sports Medicine, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
212. American Shoulder and Elbow Society, Specialty Day, American Academy of Orthopedic Surgeons, San Diego, CA, February 17, 2007 (3 Hours, Category 1).
213. Zimmer 21<sup>st</sup> Annual Vail Orthopaedic Symposium, Vail, CO, January 24-26<sup>th</sup>, 2007 (14 Hours, Category 1).
214. Orthopedics Today 2006, NY, NY, November 11-12, 2006 (12.5 Hours, Category 1).
215. 88<sup>th</sup> Annual Alumni Association Meeting at The Hospital for Special Surgery, NY, NY, November 10, 2006 (16 Hours, Category 1).
216. Management of Cartilage Injury in the Athlete, 2<sup>nd</sup> Annual Cartilage Meeting, Las Vegas, Nevada, October 21, 2006.
217. American Shoulder and Elbow Surgeons Closed Annual Meeting, Chicago, IL, September 13-15, 2006 (11.75 Hours, Category 1).
218. Biologics in Shoulder Surgery, September 16, 2006 (7 Hours, Category 1)
219. AAOS/ASES The Shoulder: An Arthroscopic Odyssey, OLC Rosemont, IL, July 28-29, 2006 (20 Hours, Category 1).
220. 32<sup>nd</sup> Annual Herodicus Meeting, Hershey, PA, June 26-28, 2006 (8 Hours, Category 1).
221. American Orthopaedic Society for Sports Medicine, Hershey, PA, June 28-July 1, 2006 (13.5 Hours, Category 1).
222. Management of Arthritis in the Upper Extremity of the Athlete, AOSSM ICL, July 1, 2006 (1.5 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

223. Management of Arthritis in the Lower Extremity of the Athlete, AOSSM ICL, June 30, 2006 (1.5 Hours, Category 1).
224. 25<sup>th</sup> Annual Meeting of the Arthroscopy Association of North America, Hollywood, Florida, May 18-21, 2006 (13.75 Hours, Category 1).
225. 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).
226. 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).
227. 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).
228. 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).
229. 73<sup>rd</sup> Annual Meeting of the American Academy of Orthopedic Surgeons, Chicago, IL, March 23-26, 2006 (24 Hours, Category 1).
230. 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).
231. 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).
232. 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).
233. The Athlete's Shoulder, Elbow and Articular Cartilage Program, Aruba, February 19-22, 2006 (23.5 Hours, Category 1).
234. The Shoulder: Arthroscopic and Open Techniques, AAOS/ASES, OLC, Chicago, IL, January 22-22, 2006 (22 Hours, Category 1).
235. International Cartilage Repair Society 6<sup>th</sup> Annual Symposium, San Diego, CA, January 8-11, 2006 (25 Hours, Category 1).
236. Think Tank on Articular Cartilage: Basic Science and Repair, Torrey Pines, CA, January 8, 2006 (8 Hours, Category 2).
237. Comprehensive Approaches to Articular Cartilage Repair and Management, Carlsbad, CA, January 6-8, 2006. (6 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

238. 42<sup>nd</sup> Congress of the Argentinean Orthopedic and Traumatology Society, Buenos Aires, Argentina, December 5-8, 2005 (38 Hours, Category 1).
239. American Academy of Orthopaedic Surgeons, Evidence Analysis Workshop, Chicago, IL, November 21, 2005 (6.75 Hours, Category 1).
240. 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).
241. Articular Cartilage Repair in the Athlete's Knee, AOSSM OLC, Rosemont, IL, August 26-28, 2005 (21 Hours, Category 1).
242. Surgical Alternatives to Total Knee Arthroplasty, AAOS OLC Learning Center, Rosemont, IL, July 29, 2005 (22 Hours, Category 1).
243. 31<sup>st</sup> Annual Meeting of the Herodicus Society, Vail, Colorado, July 9-12, 2005 (12 Hours, Category 1).
244. American Orthopaedic Society for Sports Medicine, Keystone, Colorado, July 14-17, 2005 (13.5 Hours, Category 1).
245. 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).
246. 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).
247. San Diego Shoulder Course: Arthroplasty, Arthroscopy and Fractures, San Diego, CA, June 22-25, 2005 (21.5 Hours, Category 1).
248. Virginia Orthopedic Association Annual Meeting, Homestead Resort, Hot Springs, Virginia, May 14, 2005 (4 Hours, Category 1).
249. Arthroscopy Association of North America 24<sup>th</sup> Annual Meeting, Vancouver, BC, Canada, May 12-14, 2005 (14.5 Hours, Category 1).
250. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine, Miami, FL, April 3-7, 2005 (32 Hours, Category 1).
251. 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).
252. 72<sup>nd</sup> Annual Meeting of the AAOS, Washington, DC, February 23-27 (24 Hours, Category 1).
253. AOSSM Specialty Day, Washington, DC, February 26, 2005 (7 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

254. Arthroscopic Surgery 2005: Metcalf Meeting, Tucson, AZ, January 20-23, 2005 (25 Hours, Category 1).
255. Soft Tissue Allografts in Orthopaedics: Science and Application, Atlanta, GA, January 15-16, 2005 (10 Hours, Category 1).
256. 5<sup>th</sup> Annual Cartilage Course for Sports Medicine Fellows, Carlsbad, CA, December 10-12, 2004.
257. 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).
258. The Shoulder: Advanced Management Options from Open to Arthroscopic, American Academy of Orthopedic Surgeons, Rosemont, IL, July 16-18, 2004 (22 Hours, Category 1).
259. American Orthopaedic Society for Sports Medicine, Annual Meeting, Quebec City, June 24-27, 2004 (13.5 Hours, Category 1).
260. Instructional Course Lecture, Consumer Reports: Implants and Devices in Sports Medicine, AOSSM Annual Meeting, Quebec City, June 25, 2004 (1.5 Hours, Category 1).
261. Instructional Course Lecture, Cartilage Injury in the Athlete, AOSSM Annual Meeting, Quebec City, June 26, 2004.
262. Surgical Treatment Options for Knee Injuries and Disorders, AAOS, Rosemont, IL April 30-May 2, 2004 (21 Hours, Category 1).
263. 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).
264. American Orthopaedic Society for Sports Medicine Specialty Day, San Francisco, CA, March 13, 2004 (7.7 Hours, Category 1).
265. Arthroscopy Association of North America Specialty Day, San Francisco, CA, March 13, 2004 (7.7 Hours, Category 1).
266. Athlete's Shoulder, Elbow, and Articular Cartilage. Boston University School of Medicine, Aruba, February 15-18, 2004 (19.5 Hours, Category 1).
267. Metcalf Arthroscopy Meeting, Sun Valley, Idaho, January 31- February 3, 2004 (26 Hours, Category 1).
268. 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)
269. 85<sup>th</sup> Annual Alumni Meeting, The Hospital for Special Surgery, New York, New York, November 6-7, 2003 (14 Hours, Category 1).



**Brian J. Cole, M.D., M.B.A.**

- 270. Total Hip and Knee Forum. Rush University Medical Center, November 17, 2003 (17.5 Hours, Category 1).
- 271. Shoulder and Elbow: The Essentials. AAOS Orthopedic Learning Center, Chicago, IL, October 31-Nov 2, 2003 (24 Hours, Category 1).
- 272. The Shoulder II: Open and Arthroscopic Techniques, AAOS OLC, Chicago, IL, September 12-14, 2003 (22 Hours, Category 1).
- 273. Baltimore Limb Deformity Course. September 7-11, 2003 (8 Hours, Category 1).
- 274. 29<sup>th</sup> Annual American Orthopedic Society for Sports Medicine, San Diego, CA, July 20-23, 2003 (13.5 Hours, Category 1).
- 275. Surgical Alternatives to Total Knee Arthroplasty, AAOS Orthopedic Learning Center, June 20-22, 2003 (21 Hours, Category 1).
- 276. Surgical Treatment Options for Complex Knee Injuries and Disorders Course, May 2-4, 2003, OLC, Rosemont, IL (22 Hours, Category 1).
- 277. 22<sup>nd</sup> Annual Meeting Arthroscopy Association of North America, Phoenix, AZ, April 24-27, 2003 (14.5 Hours, Category 1)
- 278. Medical & Surgical Approaches to Articular Cartilage Disorders of the Knee, April 12, 2003 (8.5 Hours, Category 1).
- 279. AAOS Course Upper Extremity: Finger Tip to Shoulder, Bal Harbour, FL, April 5-6, 2003 (10 Hours, Category 1).
- 280. 22<sup>nd</sup> Annual Cherry Blossom Seminar, Arlington, VA, March 28-30, 2003 (16.5 Hours, Category 1).
- 281. New Jersey Orthopaedic Society Spring 2003 Meeting: Current Concepts in Orthopaedics, Puerto Rico, March 12-15, 2003 (13 Hours, Category 1).
- 282. American Orthopaedic Society for Sports Medicine Specialty Day, New Orleans, LA, February 9, 2003 (7.7 Hours, Category 1).
- 283. Arthroscopy Association of North America Specialty Day, New Orleans, LA, February 8, 2003 (7.75 Hours, Category 1).
- 284. American Academy of Orthopaedic Surgeons, 70<sup>th</sup> Annual Meeting, New Orleans, LA, February 6-10, 2003 (24.5 Hours, Category 1).
- 285. 7<sup>th</sup> Annual Lake Tahoe Knee & Shoulder Update. Lake Tahoe, Nevada, December 5-8, 2002 (31.25 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

286. 84<sup>th</sup> Annual Alumni Meeting, The Hospital for Special Surgery, New York, New York, November 7-8, 2002 (11 Hours, Category 1).
287. 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).
288. Advanced Arthroscopic and Open Shoulder Surgery, OLC, Chicago, IL, July 19-21, 2002 (22 Hours, Category 1).
289. 28<sup>th</sup> Annual Meeting, American Orthopedic Society for Sports Medicine, Orlando, FL, June 30-July 3, 2002 (13.5 Hours, Category 1).
290. 19<sup>th</sup> Annual San Diego Shoulder Meeting (Esch Course), San Diego, CA, June 19-22, 2002 (35 Hours, Category I).
291. 4<sup>th</sup> Annual International Cartilage Repair Symposium, Toronto, Canada, June 15-18, 2002 (21 Hours, Category 1).
292. The Shoulder: Current Practice in Open and Arthroscopic Techniques, AAOS Course, OLC, Chicago, IL, May 3-5, 2002 (22 Hours, Category 1).
293. Surgical Treatment of Complex Knee Ligament, Patellofemoral and Articular Cartilage Disorders, OLC, Chicago, IL, April 14, 2002 (22 Hours, Category 1).
294. Frontiers in Sports Medicine: The Athlete in 2002, La Jolla, CA, February 28-March 3, 2002 (21 Hours, Category 1).
295. 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).
296. American Academy of Orthopaedic Surgeons, 69<sup>th</sup> Annual Meeting, Dallas, TX, February 13-17, 2002 (24.5 Hours, Category 1).
297. Orthopedic Research Society, 48<sup>th</sup> Annual Meeting, Dallas, TX, February 10-13, 2002 (28 Hours, Category 1).
298. Cartilage Transplantation Meeting, 2nd Annual Fellowship Program, Carlsbad, CA, December 7-9, 2001.
299. Shoulder Review and Update. Orthopedic Learning Center, Chicago, IL, November 10, 2001 (8 Hours, Category 1).
300. Comprehensive Surgery for the Athletes Shoulder. AOSSM Surgical Skills Course. Orthopedic Learning Center, Chicago, IL, September 28-30, 2001 (21 Hours, Category 1).
301. Complex Knee Problems: Surgery for the Active Knee. Orthopedic Learning Center, Chicago, IL, July 27-29, 2001 (22 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

302. Mitek Sports Medicine Symposium, King Salmon Alaska, July 21, 2001.
303. 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).
304. Mid-America Orthopaedic Association, 19<sup>th</sup> Annual Meeting, Amelia Island, Florida, April 18-22 (19 Hours, Category 1).
305. Total Hip and Knee Forum, Education Design, Chicago, Illinois, March 26-27, 2001.
306. Allografts in Orthopaedics, Illinois Association of Orthopaedic Surgeons, Carle Clinic, Urbana, Illinois, April 6, 2001 (3.25 Hours, Category 1).
307. American Academy of Orthopaedic Surgeons, 68<sup>th</sup> Annual Meeting, San Francisco, CA, February 28-March 4, 2001 (24.5 Hours, Category 1).
308. Orthopedic Research Society, 47<sup>th</sup> Annual Meeting, San Francisco, CA, February 24-28, 2001 (28 Hours, Category 1).
309. American Orthopaedic Society for Sports Medicine Specialty Day, San Francisco, California, March 3, 2001 (7.75 Hours, Category 1).
310. American Shoulder and Elbow Surgeons Specialty Day, San Francisco, California, March 3, 2001 (8.5 Hours, Category 1).
311. Mitek Global Advanced Arthroscopy Knee and Shoulder Sports Medicine Symposium. American Academy of Orthopedic Surgeons, Rosemont, IL, January 20-21, 2001.
312. Orthopedic Clinical Trials: Design, Implementation, and Regulation Issues, AAOS Course, Washington D.C., December 9-10, 2000 (12 Hours, Category 1).
313. 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).
314. 82<sup>nd</sup> Annual Hospital for Special Surgery Alumni Meeting, New York, NY, November 2-3, 2000 (11 Hours, Category 1).
315. The Shoulder: Advances in Open and Arthroscopic Techniques, American Academy of Orthopedic Surgeons, Rosemont, IL, October 27-29, 2000 (22 Hours, Category 1).
316. Evaluation and Management of Common Shoulder Disorders, American Academy of Orthopedic Surgeons, Rosemont, IL, October 28, 2000 (8 Hours, Category 1).
317. The State of the Art in Cartilage Repair, Washington University, October 21, 2000 (4.5 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

318. AAOS/EEXOT Shoulder and Knee Arthroscopy Course, American Academy of Orthopedic Surgeons, Rosemont, IL, October 20, 2000 (10 Hours, Category 1).
319. Sports Medicine Symposium. Advanced Arthroscopy: Knee and Shoulder. Duke University, Durham, North Carolina, September 22-24, 2000.
320. Total Hip and Knee Forum, Chicago, Illinois, September 25-26, 2000 (15 Hours, Category 1).
321. 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).
322. 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).
323. 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).
324. 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).
325. The Knee: A Millenium from robotics to Gene Therapy, The Panther Sports Medicine Symposium, Pittsburgh, Pennsylvania, May 4-6, 2000 (27 Hours, Category 1).
326. 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).
327. Mid-America Orthopaedic Association Eighteenth Annual Meeting, Scottsdale, Arizona, April 26-30, 2000 (19 Hours, Category 1).
328. Allografts in Orthopaedics, Illinois Orthopaedic Society Spring Meeting, Urbana, Illinois, April 7, 2000 (3.4 Hours, Category 1).
329. American Academy of Orthopaedic Surgeons, 67<sup>th</sup> Annual Meeting, Orlando, Florida, March 15-19, 2000 (24.5 Hours, Category 1).
330. Arthroscopy Association of North America, Orlando, Florida, March 18, 2000 (7 Hours, Category 1).
331. American Orthopaedic Society for Sports Medicine, Specialty Day, Orlando, Florida, March 18, 2000 (7 Hours, Category 1).
332. American Shoulder and Elbow Surgeons, Specialty Day Program, 16<sup>th</sup> Open Meeting, Orlando, Florida, March 18, 2000 (8.5 Hours, Category 1).
333. Total Hip and Knee Forum, Chicago Learning Center, Rush University Medical Center, Chicago, Illinois, February 28-29, 2000 (15 Hours, Category 1).
334. 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).

**Brian J. Cole, M.D., M.B.A.**

335. Surgical Management for Common Disorders of the Shoulder, American Academy of Orthopaedic Surgeons,, Rosemont, Illinois, December 11, 1999 (9 Hours, Category 1).
336. Hospital for Special Surgery Alumni Association, Eighty-First Annual Meeting, New York, New York, November 4-5, 1999 (11 Hours, Category I).
337. 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).
338. 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).
339. 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).
340. 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).
341. American Orthopaedic Society for Sports Medicine 25th Annual Meeting, Traverse City, Michigan, June 19-22, 1999 (13.5 Hours, Category 1).
342. 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).
343. International Society of Arthroscopy, Knee Surgery and Orthopedic Sports Medicine, Washington, DC, May 29-June 2, 1999 (37.5 Hours, Category 1).
344. Total Hip and Knee Forum, Rush University Medical Center, April 26-27, 1999 (15 Hours, Category 1).
345. Articular Cartilage Repair: Fact, Fiction or Folly, Illinois Orthopaedic Society, Chicago, Illinois, April 23, 1999 (1 Hour, Category 1).
346. American Academy Orthopaedic Surgeons 66<sup>th</sup> Annual Meeting, Anaheim, California, February 4-8, 1999 (26.5 Hours, Category 1).
347. American Orthopaedic Society for Sports Medicine Specialty Day, Anaheim, California, February 7, 1999 (7.75 Hours, Category 1).
348. American Shoulder and Elbow Surgeons Specialty Day, Anaheim, California, February 7, 1999 (8.5 Hours, Category 1).
349. Arthroscopy Association of North America Specialty Day, Anaheim, California, February 7, 1999 (7.25 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

350. The International Cartilage Repair Society, Second Annual Meeting, Boston, Massachusetts, November 15-18, 1998.
351. 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).
352. The Summer Institute, Techniques in Shoulder Surgery, American Academy of Orthopaedic Surgeons, Learning Center, Rosemont, Illinois, September 9-13, 1998 (19 Hours, Category 1).
353. The Summer Institute, Top 10 Orthopaedic Procedures, American Academy of Orthopaedic Surgeons, Orthopaedic Learning Center, Rosemont, Illinois, September 13, 1998 (16 Hours, Category 1).
354. The Chicago Orthopaedic Board Review, Chicago, Illinois, July 13-July 15, 1998 (26.5 Hours, Category 1).
355. The Chicago Orthopaedic Board Review, Chicago, Illinois, July 13-14, 1998 (1.59 Hours, Medical Teaching).
356. New Frontiers in Chondral & Meniscal Surgery, Arthroscopy Association of North America, Orlando, Florida, April 30-May 3, 1998 (1.50 Hours, Category 1).
357. Arthroscopy Association of North America, Orlando, Florida, April 30-May 3, 1998 (24 Hours, Category 1).
358. 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).
359. 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).
360. American Academy Orthopaedic Surgeons 65<sup>th</sup> Annual Meeting, New Orleans, Louisiana, March 19-23, 1998 (26.5 Hours, Category 1).
361. American Orthopaedic Society for Sports Medicine Specialty Day, New Orleans, Louisiana, March 22, 1998 (6.75 Hours, Category 1).
362. American Shoulder and Elbow Surgeons Specialty Day, New Orleans, Louisiana, March 22, 1998 (8.5 Hours, Category 1).
363. "The Master's Experience", Comprehensive Knee Course, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, January 16-18, 1998 (22 Hours, Category 1).
364. Open and Arthroscopic Shoulder Surgery, Current Concepts and Techniques, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, December 5-7, 1997 (22 Hours, Category 1).
365. Tenth Annual Congress of the European Society for Surgery of the Shoulder and Elbow, Salzburg, Austria, September 15-17, 1997.

**Brian J. Cole, M.D., M.B.A.**

366. Open and Arthroscopic Shoulder Surgery, Current Concepts and Techniques, American Academy of Orthopaedic Surgeons, Rosemont, Illinois, July 11-13, 1997 (22 Hours, Category 1).
367. American Orthopaedic Society for Sports Medicine Annual Meeting, Sun Valley, Idaho, June 22-25, 1997 (13.5 Hours, Category 1).
368. American Academy Orthopaedic Surgeons 64<sup>th</sup> Annual Meeting, San Francisco, California, February 13-17, 1997 (29.5 Hours, Category 1).
369. The University of Texas Southwestern Medical Center Orthopaedic Review Course, Dallas, Texas, May 10-12, 1996 (25 Hours, Category 1).
370. Osteoporosis Current and Future Approaches to Diagnosis and Management, New York, New York, May 7, 1996.
371. Fourth Annual Symposium, Current Concepts in Knee Reconstructive Surgery, New York, New York, May 2-3, 1996 (17 Hours, Category 1).
372. American Orthopaedic Society for Sports Medicine Specialty Day, Atlanta, Georgia, February 25, 1996 (7 Hours, Category 1).
373. American Shoulder and Elbow Surgeons Specialty Day, Atlanta, Georgia, February 25, 1996 (8 Hours, Category 1).
374. American Academy Orthopaedic Surgeons 63<sup>rd</sup> Annual Meeting, Atlanta, Georgia, February 22-26, 1996 (28.5 Hours, Category 1).
375. Treatment of the Foot and Ankle, Review Course, New York, October 28-29, 1995 (12 Hours, Category 1).
376. 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).
377. New Orleans Residents Basic Course, American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, September 8, 1995 (36 Hours, Category 1).
378. AO/ASIF Residents Basic Course, Operative Treatment of Fractures and Nonunions, New Orleans, Louisiana, August 9-13, 1995 (36 Hours, Category 1).
379. First Annual Sports Medicine Symposium, Cornell University Medical College, New York, May 17-19, 1995 (16 Hours, Category 1).
380. The Shoulder: A Comprehensive View, American Academy of Orthopaedic Surgeons, Washington, D.C., April 28-30, 1995 (24 Hours, Category 1).

**Brian J. Cole, M.D., M.B.A.**

**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.