**CURRICULUM VITAE**

**BRIAN FORSYTHE, MD
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## EDUCATION

* The University of Pittsburgh (2007-2008) Orthopedic Shoulder & Sports Medicine Fellowship
* Harvard Combined Orthopedic Residency Program (2003-2007) Orthopedic Residency
* Beth-Israel Deaconess Medical Center (2002-2003) Harvard Teaching Hospital, General Surgery Internship
* University of Pennsylvania School of Medicine (1998-2002) Doctor of Medicine
* Brown University (1994-1998) B.A. Public Policy and American Institutions, Concentration in Pre-Med

## LEADERSHIP POSITIONS AND EXPERIENCES

* Vice President, Professional Soccer Physicians Society, PSPS (Major League Soccer, MLS) (2020-Present)
* AOSSM Council of Delegates, State Representative, Illinois (2019-2022)
* Chicago Fire Soccer Club (MLS) Head Orthopedic Officer (2015-Present)
* Major League Soccer (MLS) Medical Assessment and Research Committee (M-MARC) (2018-Present)
* American Orthopedic Society for Sports Medicine, Education Committee Member (2018-2023)
* AOSSM Fellows Course Co-Director (2019-2022)
* Rush Health Finance Committee, Vice Chairman (2016-Present)
* Munster Specialty Surgery Center Medical Director (2016-Present)
* Sports Medicine CORE Curriculum Coordinator, Harvard Combined Orthopedic Residency Program, Boston, MA (2005-2007)
* Student Representative, American Association of Medical Colleges, University of Pennsylvania School of Medicine, Philadelphia, PA (1998-2001)

## ACADEMIC APPOINTMENTS

* Associate Professor, Department of Orthopedic Surgery Division of Sports Medicine, Rush University Medical Center, Chicago, IL (2012 Present)
* Fellow, UPMC Medical Center, Pittsburgh, PA (2007-2008)
* Instructor, Harvard Medical School, Boston, MA (2002-2007)

### EMPLOYMENT (include non-academic appointments/jobs relevant to current carrier; same information as above)

* Associate Professor, Dept. of Orthopedic Surgery Division of Sports Medicine, Chicago, IL (2012-Present)
* Chicago Fire, MLS, Head Orthopedic Officer (2015-Present)
* Chicago White Sox, MLB Team Physician (2012-Present)
* Chicago Bulls, NBA, Team Physician (2012-Present)
* Chicago Mustangs, MASL,Head Team Orthopedic Surgeon (2015-2017)
* Chicago Blitz, AIFL, Head Team Physician (2015-2017)
* U.S Soccer Federation, National Teams Program, Team Physician(2008-Present)
* Partner, OAK Orthopedics, Bradley, IL (2008-2011)
* Fellow, UPMC Medical Center, Pittsburgh, PA (2007-2008)
* Instructor, Harvard Medical School, Boston, MA (2002-2007)

**CERTIFICATION AND LICENSURE**

* American Board of Orthopedic Surgery Certified 7-21-2011 Expires 12-31-2021
* Illinois Licensed Physician & Surgeon #036120879
* Indiana Physician License #01074758A
* Commonwealth of Massachusetts Full License # 227698
* Advanced Trauma Life Support

## HONORS AND AWARDS

* Biological Augmentation with Mesenchymal Stem Cells in Anterior Cruciate Ligament Reconstruction. **Forsythe B,** Lavoie-Gagne O, Forlenza E, Korrapati A, Diaz CC, Jeong Y, Chahla J, Yanke AB, Cole BJ, Verma NN, Chung C, Bach BR. **Richard O’Connor Research Award for Best Project at AANA**
* Okoroha K, Patel BH, Lu Y, Idarraga AJ, **Forsythe B**. Concussions in the National Basketball Association: An Analysis from 1999-2018. Abstract accepted as poster presentation to AOSSM July 2019 in Boston, MA. **AOSSM 2019 Poster Award Winner.**
* **Patellofemoral Anatomy Research Excellence Award** (2018)

Isolated Medial Patellofemoral Ligament Repair vs. Reconstruction: Rates and Risk Factors for Instability Recurrence in a Young, Active Population

**Forsythe B**, Waterman B, Zuke WA, Puzzitiello R, Agarwalla A, Cole BJ, Yanke AB

Arthroscopy Association of America Annual Meeting

* **Neer Award Finalist** (2017)

Randomized Prospective Analysis of Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis

**Forsythe B**, Zuke WA, Go B, Ellsworth B, Yanke A, Verma NN, Romeo AA

American Shoulder and Elbow Surgeons Meeting

New Orleans, LA

* **Award of Excellence, Scientific Exhibit** (2008)

Application of Anatomic Double Bundle Reconstruction Concept in Revision/Augmentation Anterior Cruciate Ligament (ACL) Surgeries.

American Academy of Orthopedic Surgeons Annual Meeting

Shen W, Honkamp NJ, **Forsythe B**, Ingham SJM, Fu FH.

San Francisco, CA

* Illinois Top Doctor (2019-2020) “IL Top Docs”
* Academic Scholarship, University of Pennsylvania School of Medicine
* Ghordon Rhode Dewart Fellowship (2002)

Awarded to outstanding humanities major pursuing a career in medicine. Brown University, Providence RI.

## SOCIETY MEMBERSHIPS

* Fellow of the American Academy of Orthopedic Surgery (FAAOS)
* American Orthopedic Society for Sports Medicine, Member (AOSSM)
* Arthroscopy Association of North America, Member (AANA)
* American Shoulder and Elbow Society Associate Member (ASES),
* International Society of Arthroscopy, Knee Surgery and Orthopedic Sports Medicine (ISAKOS)
* Illinois State Medical Society

## TEACHING (in reverse chronology starting with the most recent one)

### Rush University (courses, role, types of students/residents, contact hours, frequency, years of service, title of lectures)

Resident Lab Courses, Instructor & Director

08/2020 Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

01/2020 Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

02/2019 Arthroscopy Course

 Midwest Orthopaedics at Rush, Chicago, IL
09/2018 Arthroscopic Shoulder Course
 Midwest Orthopaedics at Rush, Chicago, IL
03/2018 Arthroscopic Knee Course
 Midwest Orthopaedics at Rush, Chicago, IL
11/2017 Arthroscopic Shoulder Course
 Midwest Orthopaedics at Rush, Chicago, IL
04/2017 Arthroscopic Knee Course
 Midwest Orthopaedics at Rush, Chicago, IL
09/2016 Arthroscopic Shoulder Course
 Midwest Orthopaedics at Rush, Chicago, IL
04/2016 Arthroscopic Knee Course
 Midwest Orthopaedics at Rush, Chicago, IL

07/2015 Arthroscopic Shoulder Course
 Midwest Orthopaedics at Rush, Chicago, IL
04/2015 Arthroscopic Knee Course
 Midwest Orthopaedics at Rush, Chicago, IL
10/2014 Arthroscopic Knee Course
 Midwest Orthopaedics at Rush, Chicago, IL
06/2014 Arthroscopic Shoulder Course
 Midwest Orthopaedics at Rush, Chicago, IL
10/2013 Arthroscopic Knee Course
 Midwest Orthopaedics at Rush, Chicago, IL
10/2012 Arthroscopic Knee Course
 Midwest Orthopaedics at Rush, Chicago, IL
07/2011 Arthroscopic Shoulder Course, with Dr. Bernard Bach, Jr.
 Midwest Orthopaedics at Rush, Chicago, IL
04/2011 Arthroscopic Hip Course, with Dr. Shane Nho
 Midwest Orthopaedics at Rush, Chicago, IL
04/2011 Arthroscopic Knee Course, with Dr. Shane Nho
 Midwest Orthopaedics at Rush, Chicago, IL
01/2011 Arthroscopic Shoulder Course, with Dr. Gregory Nicholson
 Midwest Orthopaedics at Rush, Chicago, IL
11/2010 Arthroscopic Knee Course, with Dr. Nikhil Verma
 Midwest Orthopaedics at Rush, Chicago, IL
08/2010 Arthroscopic Shoulder Course, with Dr. Gregory Nicholson
 Midwest Orthopaedics at Rush, Chicago, IL
08/2009 Arthroscopic Knee Course, with Dr. Charles Bush Joseph
 Midwest Orthopaedics at Rush, Chicago, IL
08/2009 Arthroscopic Shoulder Course, with Dr. Gregory Nicholson
 Midwest Orthopaedics at Rush, Chicago, IL
11/2008 Arthroscopic Shoulder Course, with Dr. Charles Bush-Joseph
 Midwest Orthopaedics at Rush, Chicago, IL
08/2008 Arthroscopic Knee Course, with Dr. Brian Cole
 Midwest Orthopaedics at Rush, Chicago, IL

Fellows Lab Courses, Instructor:

2/9/2019 Shoulder Arthroscopy Course for Sports Medicine for Fellows,

Gold Coast Surgery Center, Chicago, IL

10/2018 Stryker Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

09/2018 Stryker Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

12/2017 Stryker Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

10/2017 Stryker Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

10/2016 Stryker Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

18/2016 Stryker Arthroscopy Course

Midwest Orthopaedics at Rush, Chicago, IL

10/2013 Arthroscopic Elbow Lab
 Midwest Orthopaedics at Rush, Chicago, IL
10/2012 Arthroscopic Knee Lab
 Midwest Orthopaedics at Rush, Chicago, IL
08/2012 Arthroscopic Shoulder Lab
 Midwest Orthopaedics at Rush, Chicago, IL
08/2011 Arthroscopic Shoulder Lab
 Midwest Orthopaedics at Rush, Chicago, IL
03/2011 Arthroscopic Knee Lab
 Midwest Orthopaedics at Rush, Chicago, IL
10/2010 Arthroscopic Knee Lab
 Midwest Orthopaedics at Rush, Chicago, IL
09/2010 Arthroscopic Shoulder Lab
 Midwest Orthopaedics at Rush, Chicago, IL

* **Grand rounds (years, titles of lectures)**

2020 Current Trends in ACL Reconstruction Technique: Are we Anatomic and is there a role for Orthobiologics?

 Rush University Medical Center, Department of Orthopedics

 Chicago, IL

2020 Management of Massive Rotator Cuff Tears: Primary Repair, Superior Capsular Reconstruction, or Reverse Total Shoulder Arthroplasty?

 Rush University Medical Center, Department of Orthopedics

 Chicago, IL

* **Other institutions (same information as above)**

2018 AAOS Fellows Sports Medicine Course: Shoulder Arthroscopy Techniques

 Lab Instructor, Lecturer, July, Rosemont, IL

2018 AANA Master Course: Advanced Comprehensive Knee Course: Ligament

Reconstruction and Cartilage.
Orthopedic Learning Center.
Lab Instructor: June 5-7. Rosemont, IL.

2017 AAOS Fellows Sports Medicine Course: Shoulder Arthroscopy Techniques

 Lab Instructor, July, Rosemont, IL

2017 AANA Master Course: Advanced Comprehensive Knee Course: Ligament

Reconstruction and Cartilage.
Orthopedic Learning Center.
Lab Instructor: June 5-7. Rosemont, IL.

2016 AANA Master Course: Advanced Comprehensive Knee Course: Ligament

Reconstruction and Cartilage.
Orthopedic Learning Center.
Lab Instructor: June 5-7. Rosemont, IL.

2015 AANA Master Course: Advanced Comprehensive Knee Course: Ligament

Reconstruction and Cartilage.
Orthopedic Learning Center.
Lab Instructor: June 5-7. Rosemont, IL.

2015 AANA Master Course: Advanced Comprehensive Knee Course: Ligament

Reconstruction and Cartilage.

Orthopedic Learning Center.

Lab Instructor: June 5-7. Rosemont, IL

2014 AANA Master Course: Knee Ligament Reconstruction.

Orthopedic Learning Center.

Lab Instructor: June 6-8, Rosemont, IL.

2013 AANA Master Course: Knee Ligament Reconstruction.

Orthopedic Learning Center.

Lab Instructor: June 7-9, Rosemont, IL.

2012 AANA Master Course: Anatomical ACL Reconstruction.

Orthopedic Learning Center.
 Lab Instructor: March 9-11, Rosemont, IL.

2011 AANA Master Course: Anatomical ACL Reconstruction. Orthopedic Learning Center.
 Lab Instructor: March 11-13, Rosemont, IL.
2010 AANA Master Course: Shoulder Arthroscopy.
 Orthopedic Learning Center.
 Lab Instructor: June 4-6, Rosemont, IL.
2008 Current Concepts in Double Bundle ACL Reconstruction
 Lab Instructor: December 14th, 2008. Rosemont, IL
2008 Panther Global Summit: Anatomic Double Bundle ACL Reconstruction
 Lab Instructor: Feb 28th-March 1st, 2008. Pittsburgh, PA
2006-2007 Harvard Orthopedic Primary Care Course
 Instructor: Cambridge, MA

### Mentorship to students/residents/trainees/fellows/peers (names, projects, years of service, mentee’s awards/accomplishments)

Sports Medicine Fellows

* Jaskarndip Chahal, M.D., 2011-2012

University of Toronto Orthopaedic Sports Medicine (UTOSM) Program

UHN Arthritis Program,

Toronto, Ontario, CA

* Wendell M.R. Heard, M.D., 2011-2012

Assistant Professor of Clinical Orthopaedics, Tulane University School of Medicine

New Orleans, LA

* Nathan A. Mall, M.D., 2011-2012

Director, Cartilage Restoration Center of St. Louis Sports Medicine

St. Louis, MO

* Geoffrey S. Van Thiel, M.D., MBA, 2011-2012

Rockford Orthopedic; Faculty – Orthopedics, Rush University Medical Center

Rockford, IL

* Geoffrey D. Abrams, M.D., 2012-2013

Assistant Professor of Orthopaedic Surgery at the Stanford University Medical Center

Palo Alto, CA

* Anil K. Gupta, M.D, MBA, 2012-2013

Tampa, FL

* Joshua D. Harris, M.D., 2012-2013

Houston, TX

* Frank McCormick, M.D., 2012-2013

Fort Lauderdale, FL

* Marc Haro, M.D., 2013-14 Charleston, SC
* Randhir Mascarenhas, M.D., 2013-14

Assistant Professor, Department Of Orthopedic Surgery, McGovern Medical School at the University of Texas Health Science Center

Houston, TX

* Thomas Wuerz, M.D., MSc., MS., 2013-14 Boston, MA

New England Baptist Hospital

* Adam Yanke, M.D., PhD.

Assistant Professor, Sports Medicine, Midwest Orthopedics at Rush

2013-14 Chicago, IL

* Ljiljana Bogunovic, M.D., 2014-15

Assistant Professor, Orthopaedic Surgery, Washington University and Barnes-Jewish Orthopedic Center

St. Louis, MO

* Kirk A. Campbell, M.D., 2014-15

Assistant Professor, Department of Orthopaedic Surgery, NYU Langone

New York, NY

* Mahmoud Michael Khair, M.D., 2014-15

The Carrell Clinic

Dallas, TX

* Jonathan C. Riboh, M.D., 2014-15

Assistant Professor in Orthopaedic Surgery, Duke University School of Medicine

Durham, NC

* Justin W. Griffin, M.D., 2015-16

Jordan-Young Orthopedic Institute

Charlottesville, VA

* Timothy Leroux, M.D., 2015-16

Assistant Professor, Department of Surgery, University of Toronto

Toronto, Ontario, CA

* Eric C. Makhni, M.D., 2015-16

Assistant Director, Sports Medicine Orthopedic Surgery Fellowship, Henry Ford Health System

West Bloomfield, MI

* Mark A. McCarthy, M.D., 2015-16

Orthopedic Surgery, Orthopedics, Sports Medicine, Mayo Clinic Health System

Eau Claire, WI

* Alexander E. Weber, M.D., 2015-16

Assistant Professor of Sports Medicine, USC Department of Orthopaedic Surgery.

Los Angeles, CA

* Rachel M. Frank, M.D., 2016-17

Assistant Professor, Orthopaedic Surgery at the University of Colorado School of Medicine,

Denver, CO

* Nicole A. Friel, M.D., 2016-17

Shriners Hospitals for Children-Northern California

Sacramento, CA

* Drew A. Lansdown, M.D. 2016-17

Assistant Professor, University of California, San Francisco

San Francisco, CA

* Andrew J. Riff, M.D., 2016-17

Assistant Professor, Clinical Orthopaedic Surgery, Indiana University

Indianapolis, IN

* Brian R. Waterman, M.D., 2016-17

Wake Forest Baptist Health

Winston-Salem, NC

* Gregory L. Cvetanovich, M.D., 2017-18

Assistant Professor, The Ohio State University Wexner Medical Center,

Columbus, OH

* Grant H. Garcia, M.D., 2017-18

Orthopedic Specialists of Seattle，

Seattle, WA

* Natalie L. Leong, M.D., 2017-18

Assistant Professor of Orthopaedics, University of Maryland Medical Center

Baltimore, MD

* Joseph Liu, M.D., 2017-18

Loma Linda University

Loma Linda, CA

* Austin V. Stone, M.D., PhD., 2017-18

Assistant Professor of Orthopaedic Surgery, University of Kentucky Medical Center

Lexington, KY

* Benedict U Nwachukwu M.D., MBA, 2018-2019
* Kelechi Okoroha M.D., 2018-2019
* Jourdan Cancienne M.D., 2018-2019
* Ian J Dempsey M.D., MBA, 2018-2019
* Jorge Chahla MD PhD, 2018-2019
* Kevin Pavaresh MD, 2019-2020

Residents and Medical Students Collaborators

* Bryce Basques – Spine
* Daniel Bohl – Foot/Ankle
* Islam Elboghdady – Spine
* Charles Hannon – Adult Reconstruction
* Mick Kelly – Adult Reconstruction
* Joshua Bell – Adult Reconstruction – Cleveland Clinic
* Kevin Campbell – Adult Reconstruction – University of Utah
* Philip Louie – Spine – HSS
* Timothy Luchetti – Hand – UPMC
* Allison Rao – Sports – OrthoCarolina
* Bonnie Gregory – Sports – Duke University (Durham, NC)
* Molly Meadows – Sports – Stanford University (Palo Alto, CA)
* Bryan Saltzman – Sports – Sports Medicine & Shoulder Elbow – OrthoCarolina (Charlotte, NC)
* Robert Sershon – Adult Reconstruction – Anderson Orthopaedic Clinic (Washington, DC)
* Matthew Tetreault – Adult Reconstruction – Mayo Clinic (Rochester, MN)
* Brandon Erickson – Sports Medicine – Hospital for Special Surgery (New York, NY)
* Nathan Wetters – Sports Medicine & Shoulder Elbow – OrthoCarolina (Charlotte, NC)
* Yale Fillingham – Adult Reconstruction – The Rothman Institute (Philadelphia, PA)
* Rachel Frank – Sports Medicine – Rush University (Chicago, IL)
* Andrew Riff – Sports Medicine – Rush University (Chicago, IL)
* Nicholas Brown – Adult Reconstruction – Anderson Orthopaedic Clinic (Washington, DC)
* Bryan Haughom – Adult Reconstruction – Brigham and Women’s Hospital (Boston, MA)
* Michael Hellman – Adult Reconstruction – Washington University in St. Louis (St. Louis, MO)
* Jonathan Frank – Sports Medicine – The Steadman Clinic (Vail, CO)
* Peter Chalmers – Shoulder & Elbow – Washington University in St. Louis (St. Louis, MO)
* Laith Al-Shihabi – Hand – University of Cincinnati (Cincinnati, OH)
* William Slikker – Hand – Brigham and Women’s Hospital (Boston, MA)
* David Walton – Foot & Ankle – Duke University (Durham, NC)
* Sanjeev Bhatia – Sports Medicine – The Steadman Clinic (Vail, CO)
* Kevin Park – Spine – Massachusetts General Hospital (Boston, MA)
* Debdut Biswas – Hand – University of Washington (Seattle, WA)
* Christopher Gross – Foot & Ankle – Duke University (Durham, NC)
* Andrew Hsu – Foot & Ankle – OrthoCarolina (Charlotte, NC)
* Michael Ellman – Sports Medicine – The Steadman Clinic (Vail, CO)
* Brett Lenart – Shoulder & Elbow – The Rothman Institute at Thomas Jefferson (Philadelphia, PA)
* James Gregory – Shoulder & Elbow – Washington University in St. Louis (St. Louis, MO)
* Christopher Bayne – Hand – Mayo Clinic (Rochester, MN)
* Sameer Lodha – Hand – Duke University (Durham, NC)
* Richard Kang – Sports Medicine – Hospital for Special Surgery (New York, NY)
* Nickolas Garbis – Shoulder & Elbow – The Johns Hopkins University (Baltimore, MD)
* Cara Cipriano – Adult Reconstruction – Virginia Commonwealth University (Richmond, VA)

 Oncology – University of Toronto (Toronto, Canada)

One Year Research Fellows:

* Ophelie Lavoie-Gagne MS3 – University of California San Diego Medical School (San Diego, CA) (2019-2020)
* Enrico Forlenza MS3 – Georgetown University School of Medicine (Washington, DC), (2019-2020)
* Yining Lu MS3 – University of Illinois Chicago College of Medicine (Chicago, IL) (2018-2019)
* Bhavik H. Patel MS3 – University of California San Diego Medical School (San Diego, CA) (2018-2019)
* William Zuke MD– Cleveland Clinic Orthopedic Surgery Residency Program (Cleveland, OH) (2017-2018)
* Avinesh Agarwalla MS3 – Westchester Medical Center Orthopedic Surgery Residency Program, Valhalla (New York, NY) (2017-2018)
* Richard N Puzzitiello MS3 – Tufts Orthopedic Surgery Residency Program (Boston, MA) (2017-2018)
* Anirudh K. Gowd MS3 – Virginia Tech Medical School (Blacksburg, VA) (2017-2018)
* Alexander Beletsky MS3 – University of California San Diego (San Diego, CA) (2018-2019)
* Alexander Idarraga BA – University of Wisconsin (Madison, WI) (2018-2019)
* Beatrice Go MS1 – University of Pennsylvania (Philadelphia, PA) (2016-2017)
* Michael J. Collins MS4 – Loyola University Medical Center (Philadelphia, PA) (2015-2016)
* Tom Arns MS1 – Drexel University College of Medicine (Philadelphia, PA) (2015-2016)
* Zain Khazi MS3 -- University of Illinois Chicago College of Medicine (Chicago, IL) (2018-2019)

### Membership on student thesis committees: Not applicable

**CONSULTING POSITIONS**

Scientific Advisory Board, Jace Medical 2013-2020

Consultant, Stryker Sports Medicine 2016-2020

### COMMUNITY SERVICE

February 2020 Meniscal Pathology; Rush Orthopaedics Resident Talk Chicago, IL

February 2020 Multi-ligamentous Knee Injuries; Rush Orthopaedics Resident Talk Chicago, IL

May 2019 Orthobiologics, Shoulder & Knee Conditions, Optimal Outcomes: Rehab, Chicago, IL

March 2019 Update on Shoulder Injury in WC Patients, Tri Star Lunch, Chicago, IL

January 2019 Lane School Talk

December 2018 CTEI; Authentic Assessment Training Virtual Workshop

September 2018 ACL Talk

March 2018 Dr. Bernarch Bach Leadership Talk

March 2018 Biceps Talk

March 2018 ACL Isometry Talk

February 2018 Multi-Ligament Knee Talk

February 2018 Munster WC Talk

August 2017 WC Talk, Smith&Wollensky

August 2017 NW Indian Sports Med Talk

August 2017 Chicago Trauma Symposium Talk

April 2017 Naperville TSA Talk

 April 24, 2017 PCL Treatment/Rush Talk
 April 8, 2017 Total Shoulder Arthroplasty Talk
 February 23, 2017 Clinic Talk
 September 27, 2016 Indiana Golf Talk
 August 19, 2016 Gunnar Anderson Talk/Moderator
 June 13, 2016 Worker's Compensation Talk
 February 1, 2016 Resident Talk, Massive Rotator Cuff Tear
 June 13, 2016 Worker's Compensation Talk
 May, 25 2016 Worker's Compensation Talk
 October 20, 2015 Indiana Shoulder Talk
 October 13, 2015 Indiana Shoulder Talk
 August 15, 2015 Chicago Sports Medicine Symposium
 January 9, 2015 SEAK National Worker's Compensation/Occupational Medical Talk

 October 6, 2014 Knee Ligament Talk
 September 30, 2014 Medical Student Lecture, Knee Trauma
 September 12, 2014 Multiligament/PCL Talk
 August 14, 2014 Impairment Talk

 August 14, 2014 CDGA/Athletico Talk
 July 29, 2014 Talk, Milwaukee, WI
 April 11, 2014 Rehab Connections Talk, Adhesive Capsulitis/GIRD
 April 3, 2014 Worker's Compensation Talk
 March 24, 2014 Resident Talk, Contract Discussions
 March 14, 2014 AAOS Talk
 March 13, 2014 AAOS Talk
 February 20, 2014 CPD Talk, Shoulder/Elbow
 February 20, 2014 Ossur Talk
 January 29, 2014 AAOS Presentation, Shoulder
 January 27, 2014 Injury Prevention, Presentation
 January 27, 2014 Multiligament Knee Injuries, Presentation  January 21, 2014 Sonoma Presentation
 January 13, 2014 Massive Rotator Cuff Tears
 November 21, 2013 Elmhurst Hospital, Clavicle Presentation
 October 9, 2013 Fellow Talk, Rotator Cuff Impingement/Tendinosis
 October 5, 2013 Accelerated Presentation
 October 1, 2013 Medical Student Lecture, Knee Trauma
 September 24, 2013 CorVel Lunch & Learn
 August 29, 2013 Resident Case Presentation
 August 8, 2013 Sports Med Talk, Sox Park
 July 17, 2013 ATI Presentation
 May 7, 2013 PT meeting/Martha Stewart
 April 19, 2013 Diamond Mark Presentation
 March 26, 2013 Medical Student Lecture
 February 7, 2013 Presentation
 January 28, 2013 MOR Multiligament Talk
 January 15, 2013 Athletico Talk & Lunch
 June 21, 2012 Worker's Compensation, Diamond Mark
 May 24, 2012 Worker's Compensation, Biceps
 May 2, 2012 Presentation
 September 26, 2012 Naperville North Talk Shoulder
 October 27, 2012 Golf Talk Shoulder Injury Prevention and Treatment
 November 15, 2012 Novacare Worker's Compensation Talk
 August 13, 2012 Rush Sports Conference Presentation, Physical Examination Shoulder
 February 22, 2012 Presentation to Pediatric Doctors
 February 21, 2012 Athletico Presentation
 February 9, 2012 Worker's Compensation, Knee/Shoulder
 February 7, 2012 Accelerated Talk, Labral Injuries
 February 2, 2012 ATI Presentation
 January 20, 2012 Rush Luncheon
 January 18, 2012 Presentation, Shoulder/Reverse Shoulder Arthroplasty
 January 18, 2012 Rehab INS Nurses Group

**CLINICAL SERVICE**

1. Randomized Control Trial: Healicoil Anchor vs. Twinfix Anchor for RCR (S&N)

 Chubinskaya, Verma, Trenhaile, **Forsythe.**

* IRB 12062003. CT scan at 6 months.
* 37 enrolled subjects (32 MOR, 5 Rockford) (5 dropped out: 2 revision
 (1 Rockford/1 Elmhurst) & 3 lost to f/u).

2. Randomized Control Trial: Comparison of Constant Score pre/ post-injection for full-thickness tear rotator cuff patients and how shoulder pain interfere with patients’ constant score?

 **Forsythe,** Collins, Arns, Cole, Yanke, Verma.

* Looking at how pain interferes with ability to test strength.
* RCT saline v lidocaine, IRB approved.
* Registered on Clinicaltrials.gov - NCT02693444.

3. Randomized Control Trial: Arthroscopic suprapec vs. open subpec biceps tenodesis for anterior shoulder pain.

 Yanke, Romeo, Verma, **Forsythe.** IRB# :13081402.

* RCT (and non-cuff patients), exclude subscap tears, revisions, prev infections.
* Baseline, 3 months, 6 months, 12 months. Goal enroll 50 (10 enrolled, 1 failed).
* Implant, surgeons use their preference. Approved and registered on clinicaltrial.gov.

4. Randomized Prospective Clinical Analysis of Ultrasound-guided vs. Landmark-guided Biceps
 Corticosteroid Injections.

 Romeo, **Forsythe,** Cole.

* Finalizing protocol and exclusion criteria. Clinical Trials registered.
* Enrollment goal ~40-60 patients.

5. Randomized Control Trial: Stem cell injections for rotator cuff repair.

 **Forsythe,** Verma, Cole, Romeo, Nicholson.

* Goal: 100 patients, 2 arms with 50 patients each - with or without MSC injections with RCR
* BMA and BMAC samples to go for flow cytometry (Jeff Martinson) and smear
 (quadruplicates of BMA and BMAC) (Ira Miller)

6. Randomized Control Trial: Tranexamic Acid Study in TSA/RTSA patients.

 Romeo, Nicholson, **Forsythe.**

* Comparing blood loss in patients who receive TXA or placebo.
* 40 patients enrolled.
* Goal of 300 patients, 150 TSA, 150 RTSA.

7. Randomized Control Trial: Stem cell injections for ACL Reconstruction with allograft

 **Forsythe**, Verma, Cole, Yanke

* Comparing allograft with injections of bone marrow aspirate concentrate.
* 32 patients enrolled.

**COMMITTEE AND ADMINISTRATIVE SERVICES**

### Departmental

Midwest Orthopedics at Rush Marketing Committee 2012-20

Midwest Orthopedics at Rush Compensation Committee 2017-20

Midwest Orthopedics at Rush Finance Committee 2020

### University

Vice-Chairman, Rush Health Finance Committee 2016-20

### Other institutions

American Orthopedic Society for Sports Medicine, Education Committee Member, 2018-2023

Major League Soccer (MLS) Medical Assessment and Research Committee (M-MARC) 2018-2020

Medical Director, Munster Specialty Surgery Center 2014-2020

Board of Managers, Munster Specialty Surgery Center 2015-2020

**SCIENTIFIC AND SCHOLARLY ACTIVITIES (in reverse chronology starting with the most recent one; can be divided by international, national, regional, institutional, etc)**

* **Reviewer for Professional Journals**
	+ Journal of Orthopedics Reviewer (11/2012-present)
	+ Arthroscopy: The Journal of Arthroscopy and Related Surgery Reviewer (10/2009-present)
	+ American Journal of Sports Medicine Principal Reviewer (9/2008-present)
	+ Journal of Shoulder and Elbow Surgery (2/2018-present)
* **Invited Presentations at Regional, National, and International Meetings**

**INTERNATIONAL**

* **Podium Presentations**
* AANA World Series
* Delaying ACL Reconstruction Beyond 6 months from Injury Impacts Likelihood for Clinically Significant Outcome Improvement. **Forsythe B**, Lu Y, Patel BH, Nwachukwu BU, Beletksy A, Lavoie-Gagne O, Agarwalla A, Chahla J, Kym CR, Yanke AB, Cole BJ, Bush-Joseph CA, Bach BR, Verma NN. American Orthopaedic Society for Sports Medicine. Jul 2020, Seattle, WA.
* Nicholson G, **Forsythe B**. The Effect of Pain on Assessment of Rotator Cuff Tears: A Randomized Control Trial of Subacromial Injections. 14 International Congress of Shoulder and Elbow Surgery. Buenos Aires, Argentina, September 2019
* Nicholson G, **Forsythe B**. Radiostereometric Analysis of Subpectoral versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. 14 International Congress of Shoulder and Elbow Surgery. Buenos Aires, Argentina, September 2019
* Cole BJ, Naveen N, Tauro TM, Southworth T, Beletsky A, Otte SR, Yanke AB, **Fosythe B**, Romeo AA, Verma NN. Prospective Randomized Trial of Biologic Augmentation with Mesenchymal Stem Cells in Patients Undergoing Arthroscopic Rotator Cuff Repair. American Shoulder and Elbow Surgeons 2019 Annual Meeting. New York, New York, October 2019
* **Forsythe B**, Agarwalla A, Puzzitiello RN. Revision ACL Reconstruction: Surgical Pearls and Pitfalls. Arthroscopy Association of North America: Instructional Course Lecture. Chicago, IL. April 2018.
* Zuke, WA; Leroux, TS; Gregory, B; Black, A; **Forsythe B**; Romeo, A.A., Verma, NN. Establishing Maximal Medical Improvement in Arthroscopic Rotator Cuff Repairs. Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) - European Society for Surgery of the Shoulder and Elbow (ESSSE) 2017 Congress. Berlin, Germany, September 2017.
* **Forsythe B**; Zuke, WA; Go, B; Yanke, AB; Verma, NN; Romeo, AA. Randomized Prospective Analysis of Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: 1 Year Follow-Up. American Orthopaedic Society for Sports Medicine Annual Meeting. Toronto, Canada, July 2017.
* Leroux, TS; Zuke, WA; Gregory, B; Black, A; **Forsythe B**; Romeo, AA; Cole, BJ; Verma, NN. Establishing Maximal Medical Improvement in Arthroscopic Rotator Cuff Repairs. American Orthopaedic Society for Sports Medicine Annual Meeting. Toronto, Canada, July 2017.
* **Peer Reviewed Abstracts/Posters**
* How should we define clinically significant improvement on Patient-Reported Outcomes Measurement Information System (PROMIS) for patients undergoing Knee Meniscal Surgery? Okoroha KC, Lu Y, Nwachukwu BU, Beletsky A, Patel BH, Lavoie-Gagne O, Yanke AA, Verma NN, Cole BJ, Bush-Joseph C, Bach B, **Forsythe B**. American Orthopaedic Society for Sports Medicine. Jul 2020, Seattle, WA. (Poster)
* Mesenchymal Stem Cells in BTB allograft ACL reconstruction: A Prospective Randomized Controlled Trial. **Forsythe B**, Chahla J, Lavoie-Gagne O, Forlenza E, Patel BH, Lu Y, Agarwalla A, Puzzitiello R, Cole B, Yanke A, Verma N, Bach B. American Association NA Annual Meeting. May 2020, Grapevine, TX. (Poster)
* Defining Clinically Significant Improvement on PROMIS for Patients Undergoing Knee Meniscal Surgery. Lu Y, Lavoie-Gagne O, Forlenza E, **Forsythe B**. American Association of North America Annual Meeting. May 2020, Grapevine, TX. (Poster)
* Adductor Injuries in the National Basketball Association: Return to Play and Player Performance. Patel BH, Okoroha KC, Jildeh T, Lavoie-Gagne O, Forlenza E, Lu Y, Baker J, Nwachukwu B, Allen A, **Forsythe B.** American Association of North America Annual Meeting. May 2020, Grapevine, TX. (Poster)
* ACL Reconstruction after 6 months from Injury Decreases Likelihood of Improved Clinical Outcomes. Lu Y, Lavoie-Gagne O, Forlenza E, **Forsythe B**. American Association of North America Annual Meeting. May 2020, Grapevine, TX. (Poster)
* Bone Marrow Aspirate Concentrate Augmentation for Anterior Cruciate Ligament Reconstruction: A Double Blinded Randomized Controlled Trial. **Forsythe B**, Patel B, Lu Y, Lavoie-Gagne O, Forlenza E, Agarwalla A, Puzzitiello R, Yanke AB, Verma NN, Cole BJ, Chahla JA. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL. (Poster)
* Beletsky A, Nwachukwu B, Southworth T, Okoroha KC, Naveen N, Maheshwer B, **Forysthe B,** Verma, NV, Cole B, Yanke AB.Performance of PROMIS Instruments in Patients Undergoing ACL Reconstruction Compared to Cartilage Procedures. International Cartilage Regeneration and Joint Preservation Society (ICRS) annual meeting. Vancouver, Canada. October 2019.
* Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**, Verma NN, Cole BJ; Chicago/US. Predicting Complications and Extended Stay following Treatment of Chondral Lesions. International Cartilage Regeneration and Joint Preservation Society (ICRS) annual meeting. Vancouver, Canada. October 2019.
* Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**
* Manderle B, Gowd AK, Liu J, Beletsky A, Bush-Joseph C, Cole BJ, **Forsythe B**, Nicholson G, Verma NN. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Arthroscopic Association of North America annual meeting. 2019.
* Lu Y, Patel BH, Cvetanovich GL, Maclean IS, **Forsythe B.** Does Resident Involvement Have an Impact on Postoperative Complications After Rotator Cuff Repair? An Analysis Of 1598 Cases in The NSQIP Database. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress 2019.
* Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**
* Lu Y, Patel BH, Cvetanovich GL, MacLean IS, **Forsythe B.** Is There A Cost to Resident Education? An Analysis Of The Effect Of Resident Involvement In Anterior Cruciate Ligament Reconstruction: 8142 Cases In The NSQIP. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress 2019.
* **Forsythe B**, Lu Y, Patel BH, Puzzitiello RN, Agarwalla A, Yanke AB, Verma NN, Cole BJ. The Relationship Between Resilience and Insurance Status: The Effect on Rotator Cuff Repair Outcomes. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress 2019.
* **Forsythe B**, Lu Y, Patel B, Agarwalla A, Puzzitiello RN, Yanke AB, Verma NN, Cole BJ. The Relationship Between Resilience and Insurance Status: The Effect on Meniscectomy Outcomes. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting 2019.
* Nwachukwu B, Lu Y, Patel BH, Puzzitiello RN, Cvetanovich GL, **Forsythe B.** Patient Satisfaction After Shoulder Stabilization Surgery: A Comparison of Bankart And Latarjet Procedures. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting/ 2019.
* Nwachukwu B, Patel BH, Lu Y, Puzzitiello RN, Cvetanovich, GL, Chahla J, **Forsythe B.** Establishing Timeline To Maximal Medical Improvement (MMI) Following Shoulder Stabilization Surgery. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting. 2019.
* Agarwalla A, Gowd AK, Liu JN, Garcia GH, Bohl DD, Verma NN, **Forsythe B**. The Effect of Operative Time on Short-Term Adverse Events Following Isolated Anterior Cruciate Ligament Reconstruction. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress. Cancun, Mexico. May 2019.
* Puzzitiello RN, Agarwalla A, Zuke WA, Garcia GH, **Forsythe B**. Diagnosis of Injury to the Anterolateral Ligament in Patients with Anterior Cruciate Ligament Injuries: A Systematic Review. Arthroscopic Association of North America. Chicago, IL. April 2018.
* Agarwalla A, Puzzitiello RN, Zuke WA, Cole BJ, Verma NN, Yanke AB, Romeo AA, **Forsythe B**. The Relationship between Resilience and Insurance Status: The Effect on Rotator Cuff Repair Outcomes. Arthroscopic Association of North America. Chicago, IL. April 2018.
* Puzzitiello, R.N., Agarwalla, A, Zuke, W.A., Garcia, G.H., **Forsythe B.** (April, 2018). Evaluating Anterolateral Ligament (ALL) Injuries of the Knee: A Systematic Review. Poster presented at: Arthroscopy Association of North America Annual Meeting. Chicago, IL. April 2018.
* Puzzitiello R.N., Agarwalla, A, Zuke, W.A., Verma, N.N, Cole B.J., Yanke, A, Romeo, A.A, **Forsythe B**. (April, 2018). The Relationship between Resilience and Insurance Status; The effect on Rotator Cuff Repair Outcomes. Arthroscopy Association of North America Annual Meeting. Chicago, IL. April 2018.
* **Forsythe B**; Zuke, WA; Go, B; Yanke, AB; Verma, NN; Romeo, AA. Randomized Prospective Analysis of Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: 1 Year FollowUp. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting. Shanghai, China, June 2017.
* Sherman, SL; Zuke WA; Go, B; Thyssen, E; Cvetanovich, GL; Hannafin, JA; **Forsythe B.** A Multicenter Study Investigating Factors that Influence Initiation of Return to Sport Functional Testing Following ACL Reconstruction. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting. Shanghai, China, June 2017.
* **Forsythe B**; Zuke, WA; Go, B; Verma, NN; Cole, BJ; Bach, BR; Nozomu, I. Dynamic 3D Mapping of the Isometric Anterior Cruciate Ligament Attachment Sites on the Tibia and Femur. Arthroscopy Association of North America annual meeting. Denver, CO. May 2017.
* Leroux, TS; Zuke, WA; Gregory, B; Black, A; **Forsythe B;** Romeo, AA; Cole, BJ; Verma, NN. Establishing Maximal Medical Improvement in Arthroscopic Rotator Cuff Repairs. Arthroscopy Association of North America annual meeting. Denver, CO. May 2017.
* Gupta AK, Lee AS, **Forsythe B,** Harris JD, McCormick F, Abrams G, Verma N, Cole BJ, Inoue N. Topographic analysis of the glenoid and proximal medial tibial articular surfaces:A search for the ideal match for glenoid resurfacing. Arthroscopy Association of North America annual meeting. San Antonio, TX. April 2013.

**NATIONAL**

* **Podium Presentations**
* Mesenchymal Stem Cells in BTB allograft ACL reconstruction: A Prospective Randomized Controlled Trial. **Forsythe B,** Chahla J, Lavoie-Gagne O, Forlenza E, Patel BH, Lu Y, Yanke AB, Verma NN, Bach BR. Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
* Defining Clinically Significant Improvement on PROMIS for Patients Undergoing Knee Meniscal Surgery. Okoroha K, Lu Y, Nwachukwu BU, Beletsky A, Patel BH, Yanke AB, Verma NN, Cole BJ, Bush-Joseph CA, Bach BR, **Forsythe B.** Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
* Adductor Injuries in the National Basketball Association: Return to Play and Player Performance. Patel PH, Okoroha K, Jildeh TR, Lu Y, Baker JD, Nwachukwu BU, Allen AA, **Forsythe B.** Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
* ACL Reconstruction after 6 months from Injury Decreases Likelihood of Improved Clinical Outcomes. **Forsythe B,** Lu Y, Patel BH, Nwachukwu BU, Beletsky A, Agarwalla A, Chahla J, Kym CR, Yanke AB, Cole BJ, Bush-Joseph CA, Bach BR, Verma NN. Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
* Adverse Impact of Corticosteroid Injection on Rotator Cuff Tendon Health and Repair: A Systematic Review of Clinical and Basic Science Studies. Richard Puzzitiello, Bhavik Patel, Benedict U Nwachukwu, Answorth Anthony Allen, **Brian Forsythe**, Matthew J Salzler. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Rates and Risk Factors for Subsequent Non-Rotator Cuff Shoulder Surgery Following Arthroscopic Rotator Cuff Repair. **Brian Forsythe**, Jourdan Michael Cancienne, Bhavik Patel, Yining Lu, Brian C Werner. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Delaying ACL Reconstruction Beyond 6 months from Injury Impacts Likelihood for Clinically Significant Outcome Improvement. Yining Lu, Alexander M Beletsky, Benedict U Nwachukwu, Bhavik Patel, Avinesh Agarwalla, Jorge A Chahla, Nikhil N Verma, Brian J Cole, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Perioperative Opioid Use Predicts Postoperative Opioid Use and Inferior Outcomes after Shoulder Arthroscopy. Yining Lu, Alexander M Beletsky, Matthew R Cohn, Bhavik Patel, Jourdan Michael Cancienne, Adam Blair Yanke, Nikhil N Verma, Brian J Cole, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Psychometric Properties of Visual Analog Scale Assessments For Function, Pain and Strength Compared to Disease Specific Upper Extremity Outcome Measures in Rotator Cuff Repair. Beletsky A, Nwachukwu BU, Gorodischer T, Chahla JA, **Forsythe B,** Cole BJ, Verma NN. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* The Minimally Clinically Important Difference (MCID) and Substantial Clinical Benefit (SCB) in Anterior Cruciate Ligament Reconstruction: Predictors Of Time To Achievement. Beletsky A, Lu Y, Nwachukwu BU, Chahla JA, Okoroha KC, **Forsythe B**, Yanke AB, Cole BJ, Verma NN. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Open Architecture Anchors for Rotator Cuff Repair: Do they Move the Needle? A Randomized Controlled Trial. Chahla J, Liu J, Manderle B, Beletksy A, Cabarcas BC, Gowd AK, Inoue N, Chubinskaya SG, Trenhaile SW, **Forsythe B**, Cole BJ, Verma NN. American Shoulder and Elbow Surgeons 2019 Annual Meeting. October 2019, New York City, NY.
* Prospective Randomized Trial of Biologic Augmentation with Mesenchymal Stem Cells in Patients Undergoing Arthroscopic Rotator Cuff Repair. Cole BJ, Naveen N, Tauro TM, Southworth T, Beletsky A, Otte SR, Yanke AB, **Forsythe B**, Romeo AA, Verma NN. American Shoulder and Elbow Surgeons 2019 Annual Meeting. October 2019, New York City, NY.
* Return to Sport and Exercise Following Repair of the Pectoralis Major Tendon. Liu J, Gowd AK, Garcia GH, Manderle BJ, Beletsky AK, Nicholson GP, Cole BJ, **Forsythe B**. AOSSM. July 2019, Boston, MA.
* Inside the First Team Training Room – New Modalities, Performance and Analytics: Technology Now a Tool to Determine Return to Play. **Forsythe B.** AOSSM. Soccer/MLS Soccer Sports Medicine Course. September 2019, Miami, FL.
* Inside the First Team Training Room – New Modalities, Performance and Analytics: Cases, Expert Panel Discussion: Osbahr DC, **Forsythe B.** AOSSM. Soccer/MLS Soccer Sports Medicine Course. September 2019, Miami, FL.
* Patellofemoral Injuries in the Elite and Youth Player: Case Presentations with Panel Discussion: Ahmad CS, **Forsythe B.** AOSSM. Soccer/MLS Soccer Sports Medicine Course. September 2019, Miami, FL.
* ACL and MCL Advanced Issues: ACLR Reconstruction Graft Options. **Forsythe B.**
* ACL and MCL Advanced Issues:Cases, Expert Panel Discussion. Ahmad CS, **Forsythe B.**
* Special Consideration for Academy and College Development Players: Roundtable Discussion: Organizational Approach to an Academy System: Ahmad CS, **Forsythe B.**
* Cvetanovich GL, Puzzitiello RN, Agarwalla A, Liu JN, Gowd AK, Cole BJ, Romeo AA, Verma NN, **Forsythe B**. Radiostereometric Analysis of Subpectoral Versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. AANA annual meeting, May 2019.
* Beletsky A, Patel BH, Lu Y, Manderle B, **Forsythe B**, Verma NN. The Opportunity Cost of Resident Involvement in Academic Orthopedic Sports Medicine. AANA annual meeting, May 2019.
* Beletsky A, Lu Y, Patel BH, Cvetanovich GL, Chahla J, **Forsythe B,** Verma NN. Should We Question the External Validity of Database Studies? A Comparative Analysis of Demographics. AANA annual meeting, 2019.
* Beletsky A, Gowd AK, Liu J, Manderle B, Bush-Joseph C, **Forsythe B**, Cole BJ, Verma NN, Clinically Significant Outcomes in Isolated Arthroscopic Partial Meniscectomy: A Multivariate Time-To-Event Analysis. AANA annual meeting, 2019.
* **Forsythe B**, Cartilage Repair Surgeries in Elite Athletes: What Do We Know About Their Future Arthritis? Major League Soccer Medical Symposium. Orlando, FL. January 2019
* Moderator: **Forsythe B,** Panel: Mandelbaum, B, Ahmad, C, Difiori, J, Martinez, M.Lead, Follow, or Get Out of The Way. Is Major League Soccer Leading Medical Care in Professional Athletes? A panel discussion among professional team physicians comparing, contrasting, and highlighting opportunities to improve delivery of care within the soccer population. Major League Soccer Medical Symposium. Orlando, FL. January 2019
* Moderator: Gerhardt, M. Panel: **Forsythe B**, Mandelbaum, B, Ahmad, C, Kadavi, M, Panel discussion: BMAC, PRP, Cartilage “What are they getting and from Whom?” Major League Soccer Medical Symposium. Orlando, FL. January 2019
* Cvetanovich GL, Puzzitiello RN, Agarwalla A, Liu JN, Gowd AK, Cole BJ, Romeo AA, Verma NN, **Forsythe B**. Radiostereometric Analysis of Subpectoral Versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. American Orthopaedic Society of Sports Medicine Specialty Day. Las Vegas, NV. March 2019.
* Cvetanovich GL, Puzzitiello RN, Agarwalla A, Liu JN, Gowd AK, Cole BJ, Romeo AA, Verma NN, **Forsythe B**. Radiostereometric Analysis of Subpectoral Versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. Arthroscopic Association of North America. Orlando, FL. May 2018.
* **Forsythe B**, Agarwalla A, Puzzitiello RN, Verma NN, Romeo AA, Cole, BJ. How Pain Affects Rotator Cuff Tear Strength Testing: A Randomized Subacromial Injection Control Trial. Arthroscopic Association of North America. Chicago, IL. April 2018.
* **Forsythe B**, Puzzitiello RN, Agarwalla A, Waterman BR, Zuke WA, Cole BJ, Verma NN, Yanke AB. Clinical Outcomes of Isolated Medial Patellofemoral Ligament Reconstruction in Patients with Patella Alta and Excessive Rotational Malalignment. Arthroscopic Association of North America. Chicago, IL. April 2018.
* **Forsythe B**, Waterman BR, Puzzitiello RN, Agarwalla A, Zuke WA, Cole BJ, Verma NN, Yanke AB. Isolated Medial Patellofemoral Ligament Repair versus Reconstruction: Rates and Risk Factors for Instability Recurrence in a Young, Active Population. Arthroscopic Association of North America. Chicago, IL. April 2018.
* **Forsythe B,** Puzzitiello, R.P., Liu, J.N. Revision Anterior Cruciate Ligament Pearls and Pitfalls: An Instructional Course Lecture. Arthroscopy Association of North American Annual Meeting; Chicago, IL, USA. April 2018.
* **Forsythe B**; Zuke, WA; Go, B; Yanke, AB; Verma, NN; Romeo, AA. Randomized Prospective Analysis of Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: 1 Year Follow-Up. Arthroscopy Association of North America annual meeting, Denver, CO, May 2017.
	+ - * **Forsythe B.** Board Review Course: Podium Presentation Shoulder. Moderator, Leesa Galatz. AAOS Annual Meeting, March 27, 2015. Las Vegas, NV.
* Leland MJ, **Forsythe B.** Practice Marketing The Social Media Explosion: Development of Physician Websites. *Instructional Course Lecture AANA 34rd Annual National Meeting*. Los Angeles, April 24, 2015.
* **Forsythe B.** Board Review Course: Podium Presentation Shoulder. Moderator, Leesa Galatz. AAOS Annual Meeting, March 14, 2014. New Orleans, LA.
* Yanke AB, Cvetanovich G, Shin J, **Forsythe B**, Cole BJ, Bach BR Jr., Inoue N, Verma N. Varied Graft Sources for Distal Femoral Condyle Osteochondral Allografts*.* AANA Meeting, Hollywood, FL. May 1-3, 2014
* Leland MJ, **Forsythe B,** Geier D. Course 201: Practice Marketing The Social Media Explosion: Development of Physician Websites. *Instructional Course Lecture AANA 33rd Annual National Meeting*. May 2, 2014. Hollywood, FL
* 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. Annual Orthopedic Research Society (ORS) Meeting. New Orleans, March 15-18, 2014.
* Gupta AK, Lee AS, **Forsythe B**, Harris JD**,** McCormick F, Abrams G, Verma N, Cole BJ, Inoue N. Topographic analysis of the glenoid and proximal medial tibial articular surfaces :A search for the ideal match for glenoid resurfacing. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS)*.* Bi-annual Meeting. Toronto CA, May 14, 2013.
* Leland MJ, **Forsythe B,** Mather RC. Course 201: Practice Marketing - What Web-Based Services and Social Medial Can Do for You and Your Practice: Development of Physician Websites. *Instructional Course Lecture AANA 32nd Annual National Meeting*. April 26, 2013. San Antonio, Texas.
* **Forsythe B**. Examination of the Unstable knee and treatment of Patellofemoral Instability. *ATI National Sports Medicine Summit*. Oak Brook, IL, August 12th, 2012.
* **Forsythe B**. Elective Orthopedic Surgery: The Team Approach to the Treatment of Hemophelia. *Center for Advanced Training in Inhibitor Management Symposium*. Marriott, Chicago Medical District. Rush University Medical Center, May 2nd, 2012
* Kropf EJ, **Forsythe B**, Tranovich M, Baker CL, Irrgang JJ. Allograft Revision vs. Primary Single Bundle Anterior Cruciate Ligament Reconstruction: A Case-Control Study. Presented to *American Orthopedic Society for Sports Medicine, Specialty Day*. Las Vegas, NV, February 2009.
* Bradley JP, **Forsythe B.** Single versus Double Bundle ACL Reconstruction. *Metcalf Course.* Sun Valley, Utah. February, 2008.
* Bradley JP, **Forsythe B.** Anterior Instability in Contact Athletes. Instructional Course Lecture. *American Academy of Orthopedic Surgery*. San Francisco, March, 2008.
* **Forsythe B**, Guss D, Anthony S, Martin SD: Concomitant Arthroscopic SLAP Lesion and Rotator Cuff Repair versus Isolated Rotator Cuff Repair: A Retrospective Analysis. Presented to *American Orthopedic Society for Sports Medicine*, Calgary, Canada, July, 2007.
* **Peer Reviewed Abstracts/Posters**
* Drager J, Polce EM, Fu MC, Huddleston HP, Williams BT, Garrigues GE, **Forsythe B**, Nicholson GP, Cole BJ, Verma NN. Defining the Time Required to Achieve Clinically Significant Outcome Improvement after Total Shoulder Arthroplasty. AAOS 2021 Annual Meeting, San Diego, CA
* Performance Following High Ankle Sprain in National Football League Players from 2009-2010 to 2019-2020. American Academy of Orthopaedic Surgeons Annual Meeting. September 2021. San Diego, CA
* Defining Maximum Outcome Improvement 1-year After Arthroscopic Rotator Cuff Repair. Edward Beck, Anirudh Gowd, Joseph Liu, Kristen Nicholson, Brian Waterman, **Brian Forsythe**, Anthony Romeo, Brian Cole, Nikhil Verma. Southern Orthopaedic Association’s 37th Annual Meeting. July 2020. White Sulphur Springs, WV.
* Big Data in Total Shoulder Arthroplasty: An In-Depth Comparison of National Outcomes Databases. Yining Lu, Zain M Khazi, Bhavik Patel, Avinesh Agarwalla, Jourdan Michael Cancienne, Brian C Werner, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Inpatient Admission following Anterior Cruciate Ligament Reconstruction is Associated with Higher Postoperative Complications: A Matched Cohort Analysis. Yining Lu, Zain M Khazi, Bhavik Patel, Alan G Shamrock, Randhir Mascarenhas, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Bone Marrow Aspirate Concentrate Augmentation for Anterior Cruciate Ligament Reconstruction: A Double Blinded Randomized Controlled Trial. **Forsythe B**, Patel B, Lu Y, Agarwalla A, Puzzitiello R, Yanke AB, Verma NN, Cole BJ, Chahla JA. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Anterior Cruciate Ligament Repair Outcomes: An Updated Systematic Review of Recent Literature. Nwachukwu BU, Patel B, Lu, Y **Forsythe B**, Allen AA, Williams RJ. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Opioid Use Following Anatomic and Reverse Total Shoulder Arthroplasty: Risk Factors for Prolonged Use. Khazi ZM, Lu Y, Patel B, Cancienne J, Werner B, **Forsythe B.** American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Manderle B, Gowd AK, Liu J, Beletsky A, Nicholson GP, Romeo AA, **Forsythe B**, Cole BJ, Verma NN. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
* Frank RM, Mascarenhas R, Haro M, Erickson BJ, Cvetanovich GL, **Forsythe B**, Verma NN, Cole BJ, Bush-Joseph CB, Bach BR Jr. Closure of Patellar Tendon Defect in Anterior Cruciate Ligament Reconstruction with Bone-Patellar Tendon-Bone Autograft: Systematic Review of Randomized Controlled Trials. (eposter-2014 AANA Annual Meeting. Hollywood, FL)
* Saccomano M, Shin J, Mascarenhas R, Haro M, **Forsythe B**, Verma NN, Cole BJ, Bush-Joseph C, Bach BR Jr. Clinical and Functional Outcomes Following Anterior Cruciate Ligament Reconstruction Using Cortical Button Fixation Versus Transfemoral Suspensory Fixation: A Systematic Review (Eposter-2014 AANA Annual Meeting. Hollywood, FL)
* Manderle BJ, Gowd AK, Liu J, Beletsky A, Bush-Joseph CA, Cole BJ, **Forsythe B**, Nicholson GP. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Abstract accepted as poster presentation to AOSSM July 2019 in Boston, MA.
* Okoroha K, Patel BH, Lu Y, Idarraga AJ, **Forsythe B**. Concussions in the National Basketball Association: An Analysis from 1999-2018. Abstract accepted as poster presentation to AOSSM July 2019 in Boston, MA. **AOSSM 2019 Poster Award Winner.**
* Agarwalla A, Gowd AK, Liu JN, Puzzitiello RN, Yanke AB, Verma NN, **Forsythe B**. Risk Factors and 30-Day Complication Rates Following Medial Patellofemoral Ligament (MPFL) Reconstruction and Tibial Tubercle Osteotomy (TTO). American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
* Agarwalla A, Gowd AK, Liu JN, Garcia GH, Bohl DD, Verma NN, **Forsythe B**. The Effect of Operative Time on Short-Term Adverse Events Following Isolated Anterior Cruciate Ligament Reconstruction. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
* Liu JN, Agarwalla A, Gowd AK, Nicholson GP, Romeo AA, **Forsythe B**, Verma NN. Reverse Total Shoulder Arthroplasty for Proximal Humerus Fracture is Not a Typical DRG 484: A Propensity-matched Cohort Study. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
* Agarwalla A, Puzzitiello RN, Liu JN, Cvetanovich GL, Gowd AK, Verma NN, Cole BJ, **Forsythe B**. Time-frame for Maximal Subjective Outcome Improvement Following Anterior Cruciate Ligament Reconstruction. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
* Liu JN, Agarwalla A, Garcia GH, Christian DR, Redondo ML, **Forsythe B**, Yanke AB, Cole BJ. Return to Sport Following High Tibial Osteotomy. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
* **Forsythe B**, Agarwalla A, Puzzitiello RN, Romeo AA, Mascarenhas R. The Timing of Injections Prior to Rotator Cuff Repair Impacts Risk of Surgical Site Infection. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
* **Forsythe B**; Zuke, WA; Lansdown, DA; Verma, NN; Cole, BJ; Bach, BR; Nozomu, I. Dynamic 3D Mapping of the Isometric Anterior Cruciate Ligament Attachment Sites on the Tibia and Femur. Paper presentation at the American Academy of Orthopaedic Surgeons 2018 Annual Meeting. New Orleans, LA. March 2018.
* Leroux, TS; Zuke, WA; Saltzman, BM; Verma, NN; Romeo, AA; Hurst, J; **Forsythe B.** Safety

and Patient Satisfaction of Outpatient Shoulder Arthroplasty. ePoster presentation at the

American Shoulder and Elbow Surgeons annual closed meeting. New Orleans, Louisiana,

October 2017.

* **Forsythe B**, Khair M, Collins M, Arns T, Inoue N, Bach BR, Verma NN, Cole BJ. Optimizing Femoral Tunnel Position with Flexible Curved Reamers for Anterior Cruciate Ligament Reconstruction. Presentation 224. Annual Meeting, AANA. Boston, April 14-16, 2016.
* Collins M, Arns T, Leroux T, Black A, Mascarenhas R, Bach BR, **Forsythe B**. Growth Abnormalities Following Anterior Cruciate Ligamentn Reconstruction in the Skeletally Immature Patient: A Systematic Review. Presentation 284. Annual Meeting, AANA. Boston, April 14-16, 2016.
* **Forsythe B**, Haro M, Collins M, Arns T, Verma N, Bach BR. Biomechanical Evaluation of Posterior Cruciate Ligament Reconstruction with Quadriceps versus Achilles Tendonooo-Bone Block Allograft. Presentation 262. Annual Meeting, AANA. Boston, April 14-16, 2016.
* **Forsythe B**, Collins M, Arns T, Black A, Tranovich M, Ward J, Bradley J. Application of a Beta-Tricalcium Phosphate(β‐TCP) Graft to Diminish Harvest Site Morbidity in Bone‐Patella Tendon‐Bone Anterior Cruciate Ligament Reconstruction. Presentation 219. Annual Meeting, AANA. Boston, April 14-16, 2016.
* Cole BJ, Fortier LA, Karas V, Hussey KE, Tilton AK, Merkow DB, Verma NN, Bach BR, **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. Presentation 22. Annual Meeting, AANA. Los Angeles, April 23-25, 2015.
* Riboh J, Mascarenhas R, Haro M, Shin J, Ross A, Verma N, **Forsythe B,** Bach B. Are Standard Post-Operative Anteroposterior and Lateral Knee Radiographs Predictive of Anatomic Femoral Tunnel Placement in ACL Reconstruction? Presentation 1. Annual Meeting, AANA. Los Angeles, April 23-25, 2015.
* Gupta AK, **Forsythe B,** Lee AS, Harris JD, McCormick FM, Abrams GD, Verma NN, Inoue N, Cole BJ. Topographic analysis of the glenoid and proximal medial tibial articular surfaces - A search for the ideal match for glenoid resurfacing. Poster Presentation at 2013 Annual AOSSM Meeting. August 9th, 2013. Presenter: Anil K. Gupta, MD, MBA
* Gupta AK, Lee AS, **Forsythe B**, Harris JD, McCormick F, Abrams G, Verma N, Cole BJ, Inoue N. Topographic analysis of the glenoid and proximal medial tibial articular surfaces:A search for the ideal match for glenoid resurfacing. Poster presentation. AOA Annual Meeting. Denver, June 7, 2013. Presenter: Anil K. Gupta, MD, MBA
* Lee AS, Karas V, Riccio ML, Yanke AB, **Forsythe B**, Nho SJ, Verma NN, Bush-Joseph CA, Bach BR, Cole BJ, MD. Surgeon Reliability in Calcified Cartilage Layer Removal: Open Versus Arthroscopic Technique. AOSSM Baltimore, MD, 7/12/12. (Poster 10899)
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* Henry S, Mascarenhas, R, **Forsythe B**, Irrgang JJ, Harner CD: The relationship between medial meniscus tear morphology and chondral changes within medial and lateral compartments of the knee. American Orthopedic Society for Sports Medicine, Orlando, 2008. Poster #9.
* Kropf E, **Forsythe B**, Irrgang JJ, Harner CD: Revision vs. Primary Single Bundle Anterior Cruciate Ligament Reconstruction: A Case Control Study. American Academy of Orthopedic Surgery. San Francisco, 2008.
* **Forsythe B**, Guss D, Anthony S, Martin SD: Concomitant Arthroscopic SLAP Lesion and Rotator Cuff Repair versus Isolated Rotator Cuff Repair: A Retrospective Analysis. American Academy of Orthopedic Surgery. Poster 443. San Francisco, 2008.
* **Forsythe B**; Gobezie R; Tsaniklides N; Warner JP. Salvage of Acromionectomy and Deltoid Insufficiency with Iliac Crest Graft and Deltoid Reconstruction. American Academy of Orthopedic Surgery. Chicago, 2006. Poster P344.

**REGIONAL**

* **Podium Presentations**
* Zuke WA, **Forsythe B**, Leroux TS, Risk Factors for Readmission and Complications within Thirty Days of Total Shoulder Arthroplasty: Inconsistencies among Studies Using the NSQIP Database. Ohio Shoulder and Elbow Society, Cleveland, IL, February 2019
* **Forsythe B**, Moderator, Chicago Sports Summit. Chicago, IL, October 2018
* **Forsythe B,** ACL Anatomy and Portal Drilling**.** Chicago Sports Medicine Symposium. Chicago, IL, September 2018
* **Forsythe B,** Ramirez M, Debate: Open vs Arthroscopic Rotator Cuff Repair**,** Chicago Orthopedic Symposium Chicago, IL, August 2018
* **Forsythe B**, Agarwalla A, Puzzitiello RN. My ACL: From Cadaver to Camera. Elsevier’s Innovative Techniques: Knee, Hip, and Shoulder Course. Las Vegas, NV. October 2017.
* **Forsythe B**, Agarwalla A, Puzzitiello RN. ACL Anatomy and Isometry. Foundation for Orthopaedic Research and Education: Sports Medicine Symposium. Chicago, IL. August 2017.
* **Forsythe B**, Puzzitiello, R.P. ACL Anatomy and Isometry. Oral Presentation presented at: Chicago Sports Medicine Symposium; Chicago, IL, USA. August 2017.
* **Forsythe B**, Agarwalla A, Puzzitiello RN. My ACL: From Cadaver to Camera. Foundation for Orthopaedic Research and Education: Sports Medicine Symposium. Chicago, IL. August 2017.
* **Forsythe B,** Nho SJ, Rodarte R. Current Trends in Management of Rotator Cuff Pathology. *Nova Care Case Managers Symposium.* U.S. Cellular Field/Chicago White Sox. Chicago, IL. November 15th, 2012.
* **Forsythe B**. New Vision and Interventions in Orthopedic Care for the Shoulder. *Elmhurst Hospital.* Elmhurst, IL, November 7th, 2012.
* **Forsythe B.** Management of Distal Biceps Tendon Disease. *Orthocentrix Solutions Spring Seminar.* Oak Brook, IL. May 24th, 2012.
* **Forsythe B**, Nicholson G. Understanding and Addressing Chronic Shoulder Pain. *Central Dupage Hospital.* Winfield, IL, October 30th, 2012.
* **Forsythe B**. Current Trends in Management of Rotator Cuff Pathology. Webinar, Nova Care Case Managers Symposium, June 25th, 2012.
* **Forsythe B.** Current Concepts in Treatment of Acromioclavicular Joint Injuries and Clavicle Fractures. *Diamond Mark Presentation.* OAK Brook, IL, *J*une 21st, 2012.
* **Forsythe B**. Current management of Clavicle Fractures and Acromioclavicular Ligament Reconstruction. *Athletico Case Managers Symposium*. OAK Brook, IL, June 21st, 2012.
* **Forsythe B.** Clavicle Fractures: Operative Indications and Surgical Fixation Options. *Midwestern University Department of Orthopedics.* Chicago, IL. February 22, 2011.
* **Forsythe B**. Current concepts in ACL Reconstruction. *ATI Physical Therapy Lecture Series*. New Lennox IL. February 17th, 2010.
* **Peer Reviewed Abstracts/Posters**
* Puzzitiello, R.P., Agarwalla, A, Romeo, A, Yanke, A, Cole, B, Verma, N, **Forsythe B.** (March, 2018). Establishing Maximal Medical Improvement after Total Shoulder Arthroplasty Poster presented at: Rush University Forum for Research and Clinical Investigation; Chicago, IL, USA.
* Agarwalla, A, Puzzitiello, R.N., Romeo, A, Mascarehnas, R, **Forsythe B.** (March, 2017). The Timing of Intraarticular Injections Prior to Rotator Cuff Repair Impacts the Risk of Surgical Site Injection Poster presented at: Rush University Forum for Research and Clinical Investigation; Chicago, IL, USA
* Christian DR, Wang KC, Agarwalla A, Redondo ML, Beer AJ, **Forsythe B**, Verma NN, Cole BJ. Impact of Depression, Anxiety, and/or Mania on Functional Outcomes After Simple Meniscectomy. Rush University Forum for Research and Clinical Investigations. Chicago, IL. March 2018.
* Agarwalla A, Puzzitiello RN, Liu JN, Cvetanovich GL, Verma NN, Cole BJ, **Forsythe B**. Establishing Maximal Medical Improvement Following Anterior Cruciate Ligament Reconstruction. Rush University Sports Medicine Conference. Chicago, IL. February 2018.
* Agarwalla A, Puzzitiello RN, Mascarenhas R, Sumner S, Verma NN, Romeo AA, **Forsythe B**. The Timing of Shoulder Injections Prior to Rotator Cuff Repair Impacts the Risk of Surgical Site Infection. Rush University Forum for Research and Clinical Investigations. Chicago, IL. March 2018.
* Puzzitiello RN, Agarwalla A, Liu JN, Cvetanovich GL, Romeo AA, **Forsythe B**, Verma NN. Establishing Maximal Medical Improvement After Anatomic Total Shoulder Arthroplasty. Rush University Forum for Research and Clinical Investigations. Chicago, IL. March 2018.
* **Forsythe B.** Management of Irreparable Rotator Cuff Tears. *Rush Fellows Conference*. Chicago, IL. January 13, 2014.
* 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 Abstract. PAPER #: 170. Annual Orthopedic Research Society (ORS) Meeting. New Orleans, LA. March 2014.
* Trella KJ, Shewman EF, Tenuto F, McCormick F, Elllman M, Verma N, Bach BR, **Forsythe B.** Biomechanical Evaluation of Posterior Cruciate Ligament Reconstruction with Quadriceps vs. Achilles Tendon-Bone Block Allograft. Annual Orthopedic Research Society (ORS) Meeting. New Orleans, LA. March 2010.
* Kopf S, **Forsythe B**, Wong A, Martins C, Tashman S, Anderst W, Fu F. Transtibial ACL reconstruction technique fails to position drill tunnels anatomically. Orthopaedic Research Society. New Orleans, LA. March 2010
* Kopf S, Wong A, **Forsythe B**, Tashman S, Anderst W, Fu FH. Where Have All the Tunnels Gone? Non-anatomical tunnel position in Transtibial Anterior Cruciate Ligament Reconstruction Evaluated by Three-Dimensional Computed Tomography. Pittsburgh Orthopaedic Journal. Volume 20. Page 102. 2009.
* **Forsythe B,** Kopf S, Wong A, Martins CAQ, Anderst W, Tashman S, Fu FH. The Location of Femoral and Tibial Tunnels of Anatomic Double Bundle Anterior Cruciate Ligament Reconstruction Analyzed by Three-Dimensional Computed Tomography Reconstructions. Pittsburgh Orthopaedic Journal. Volume 20. Page 101. 2009.
* Kropf EJ, **Forsythe B,** Tranovich M, Baker III CL, Irrgang JJ, Harner CD. Revision versus primary single bundle anterior cruciate ligament reconstruction: A matched pairs case control study. Pittsburgh Orthopaedic Journal. Volume 19. 2008.
* Goyal K, **Forsythe B**, Costanzo J, Muriuki M, Zhang X, Harner CD: The Effect of Lateral Meniscus Tear Morphology on Knee Joint Kinematics and Contact Pressures. Orthopedic Research Society. Las Vegas. 2009. Poster 1190.
* Chen, F; **Forsythe B;** Lee, S J; Yoo, J J; Murray, M M. The Effect of Thrombin on ACL Cell Migration, Proliferation, and Collagen Production. Orthopedic Research Society. Washington D.C., 2005. Poster 0827.
* Presenter: Hsu A. Moderator: **Forsythe B**. Management of Femoral Shaft Fractures. *Rush Residents Conference*. Chicago, IL, November 11th, 2013.
* **Forsythe B.** Management of Multi-Ligamentous knee injuries. *Rush Sports Medicine Conference.* Chicago, IL, January 28, 2013.
* **Forsythe B.** Management of Multi-Ligamentous Knee Injuries. *Athletico Physical Therapy*. Westchester, IL. January 15th, 2013.
* Moderator: **Brian Forsythe, MD.** Presenter: Jonathan Frank, MD.A 21 year old with shoulder pain: Comprehensive treatment with a Latarjet Transfer Procedure. *Rush University Medical Center, Orthopaedic Grand Rounds.* Chicago, IL, November 14th, 2012.
* **Forsythe B.** Examination of the Unstable Knee & Treatment of Patellofemoral Instability. *Rush Sports Medicine Conference.* Chicago, IL, November 12th, 2012.
* **Forsythe B**. Shoulder Injuries in Golf: A Brief Review. *Midwest Golf House,* Lemont, IL,October 27th, 2012.
* **Forsythe B,** Mjaanes J, Nho SJ, Wysocki R, Hillenmeyer H. Youth Sports Injuries: Prevention is the name of the Game. *Naperville North High School*, Naperville IL. September 26th 2012.
* **Forsythe B.** Acromioclavicular joint injuries and Clavicle Fractures. *Rush Sports Medicine Conference.* Chicago, IL, September 9th, 2012.
* **Forsythe B.** Examination of the Unstable Knee & Treatment of Patellofemoral Instability. *Accelerated Physical Therapy In-service*. Oak Park, IL, August 29th, 2012.
* **Forsythe B.** Physical Examination of the Shoulder. *Rush Sports Medicine Conference*. Chicago, IL, August 13th 2012.
* **Forsythe B.** Shoulder Instability in Throwing Athletes: Pathogenesis, Diagnosis & Treatment. *Accelerated Physical Therapy*, Downer’s Grove, IL. February 7th, 2012.
* **Forsythe B.** Throwing Athlete Shoulder Injuries: Prevention, Diagnosis, and Treatment. *ATI Physical Therapy.* Bolingbrook, IL. February 2nd, 2012.
* **Forsythe B.** Shoulder Instability in Throwing Athletes: Pathogenesis, Diagnosis & Treatment. *Athletico Physical Therapy*. Westchester, IL. January 8th, 2012.
* **Forsythe B.** Open Inferior Capsular Shift for Multidirectional Instability following failed arthroscopic plication. *Rush Sports Medicine Conference.* Chicago, IL. June 20, 2011.
* **Forsythe B**. Modified Tibia Tubercle Osteotomy for Patellofemoral Instability with congenital patellar and trochlear hypoplasia. *Rush Sports Medicine Conference.* Chicago, IL. June 20, 2011.
* **Forsythe B.** Surgical Management of a Multi-Ligament Knee Injury. *Rush Sports Medicine Conference.* Chicago, IL. June 13, 2011.
* **Forsythe B.** Current concepts in ACL Reconstruction: Augmentation, Single and Double-Bundle Techniques. *Athletico University Lecture Series.* Bourbonnais, IL. February 2009.
* **Forsythe B.** Fellows Case Presentation: Treatment of Olecranon Apophysitis and a Medial Epicondylar fibrous union in a collegiate pitcher. *UPMC Center for Sports Medicine. Sports Medicine Conference.* Pittsburgh, January 2008.
* Bradley, JP. **Forsythe B.** Adolescent Throwing Athletes: Injury Prevention and Treatment. *Drayer Physical Therapy Institute.* Pittsburgh, January 2008.
* **Forsythe B.** Fellows Case Presentation: Treatment of Clavicle Fractures. *UPMC Center for Sports Medicine Conference.* Pittsburgh, April *2008.*
* **Forsythe B.** Fellows Case Presentation: Treatment of a Wrisberg Variant Discoid Meniscus in a 12 year old girl. *UPMC Center for Sports Medicine. Sports Medicine Conference.* Pittsburgh, September 2007.
* **National Conferences Attended**

2021 ASES, Virtual Specialty Day Meeting

2020 AAOS, Virtual Meeting, Orlando, FL

2020 AANA, Virtual Meeting, Grapevine, TX

2020 AOSSM, Virtual Meeting, Seattle, WA

2020 ASES, Virtual Meeting, NYC, NY

2019 Chicago Sports Summit, Chicago, IL

2019 AOSSM, State of the Art Soccer Medicine, Miami Beach, FL

2019 AOSSM, Annual Meeting, Boston, MA

2019 AANA, Annual Meeting, Orlando, FL

2019 AAOS, Annual Meeting, Las Vegas, NV

2018 AAOS, Annual Meeting, New Orleans, LA

2018 AANA, Annual Meeting, Boston, MA

2018 AOSSM, Annual Meeting, San Diego, CA

2018 ASES, Annual Meeting, Chicago, Illinois

2017 AAOS, Annual Meeting, San Diego, CA

2017 AANA, Annual Meeting, Denver, CO

2017 AOSSM, Annual Meeting, Toronto, ON

2016 AAOS, Annual Meeting, Orlando, FL
2015 AAOS, Annual Meeting, Las Vegas, NV
2015 AANA, Annual Meeting, Los Angeles, CA
2014 AAOS, Annual Meeting, New Orleans, LA
2014 AANA, Annual Meeting, New Orleans, LA
2014 AOSSM, Annual Meeting, Hollywood, FL
2014 AAOS, Annual Meeting, Chicago, IL
2013 AAOS, Annual Meeting, San Antonio, TX
2013 AOSSM, Annual Meeting, Chicago, IL
2012 AAOS, Annual Meeting, San Francisco, CA
2011 AOSSM, Annual Meeting, San Diego, CA
2011 AAOS, Annual Meeting, San Diego, CA
2010 AAOS, Annual Meeting, New Orleans, LA
2009 AOSSM, Annual Meeting, Keystone, CO
2009 AAOS, Annual Meeting, Las Vegas, NV
2008 AOSSM, Annual Meeting, Orlando, FL
2008 Panther Global Summit, Pittsburgh, PA
2008 AAOS Annual Meeting, San Francisco, CA
2007 AOSSM Annual Meeting, Calgary, CA

* **Funding History of Peer-Reviewed Grants (Federal, Professional Foundations) including type of the grant, role on the project, name of the agency, dollar amount, duration**

Received

* + In vitro Analysis of Joint Contact and Kinematic Changes Associated with Clinically Relevant Lateral Meniscus Tears.

Principal Investigator: **Forsythe B**, Martin D, Zhang X. Ref #M 2008-0060. *The Albert B. Ferguson, Jr. M.D. Orthopaedic Fund.* ed: $5,000. (2008)

* + The effect of thrombin on ACL fibroblast interactions with collagen hydrogels

Co-Principal Investigator: **Forsythe B**. *National Institute of Arthritis and Musculoskeletal and Skin Diseases, grant number K02 AR049346-02,*National Institute of Arthritis and Musculoskeletal and Skin Diseases $10,000 (2005)

* + Are Preoperative Deltoid Muscle Activation Levels as Measured by Electromyography Predictive of Postoperative Clinical Outcomes after Reverse Total Shoulder Arthroplasty?

Principal Investigator: **Forsythe B**. *Multipurpose Resident Grants*, Mid-America Orthopaedic Association, RTSA, $10,000. (2016-2017)

* + Wear and Corrosion in Shoulder Replacements: Device and Tissue Retrieval Analysis

Co-Principal Investigator: **Forsythe B**. *Markus Wimmer Grant*, Rush Medical Center $10,000, (2017-2018)

 Pending or Applied for

* + Effect of Mesenchymal Stem Cells in Osteoarthritis Post-Meniscectomy

Co-Principal Investigator: **Forsythe B**, *Arthritis National Research Foundation.* $60,000 (2018-2019)

* **Funding History of Industry Support, including title of grant, role on the project [PI, Co-investigator], % effort, name of funding source, dollar amount, duration**

**Current**

* + Biomechanical Evaluation of the Optimal Lateral Row Anchor Position in Rotator Cuff Repair,

Principal Investigator: **Forsythe B** *Stryker Corporation* $80,000 (2019)

* Biomechanical Performance of a Curved Suture Passer Needle Versus a Flexible Straight Needle

Principal Investigator: **Forsythe B** *Stryker Corporation* $10,000 (2019)

**Past**

* + Drilling with Flexible and Straight Reamers in Anterior Cruciate Ligament Reconstruction: A Cadaveric 3-Dimensional Computed Tomography Analysis

Principal Investigator: **Forsythe B** *Stryker Corporation* $10,000 - $12,000 (2016-17).

* + Application of a Beta-Tricalcium Phosphate Graft to Minimize Bony Defect in Bone–Patella Tendon–Bone Anterior Cruciate Ligament Reconstruction

Principal Investigator: **Forsythe B** *Arthrex Grant* $500-$1,500 (2017-2018)

* + Autologous Bone Marrow Aspirate Concentrate in Patients Undergoing Anterior Cruciate Ligament Reconstruction.

Principal Investigator: **Forsythe B** *Arthrex Inc.* $10,000 (2016-2017)

## BIBLIOGRAPHY (numbered in reverse chronology starting with the most recent one)

## Original full-length manuscripts (published, in press, or submitted)

**MANUSCRIPTS IN PRINT:**

1. Puzzitiello RN, Agarwalla A, Garcia GH, Forlenza EM, Forsythe B. “All Inside Intra-epiphyseal ACL Reconstruction Using Flexible Curved Instrumentation and Intraoperative Fluoroscopy in a Skeletally Immature Patient”. *Case Reports in Orthopedics*. April 2021
2. Knapik DM, Trasolini NT, Diaz CC, Chahla J, Forsythe B. Avulsion Injuries and Ruptures of the Proximal Rectus Femoris in Skeletally Mature, High-Level Athletes: A Critical Analysis Review. Accepted at *JBJS Reviews*. April 2021.
3. Ruelos V, Puzzitiello RS, Menendez ME, Pagani NR, Moverman MA, Forsythe B, Salzler MJ. “Vancomycin Pre-soaking of ACL Tendon Grafts Is Highly Cost-Effective For Preventing Infection”. *Arthroscopy*. April 2021
4. Forsythe B**,** Forlenza EM, Agarwalla A, Cohn MR, Lavoie-Gagne O, Lu Y, Mascarenhas R. “Corticosteroid Injections One Month Before Arthroscopic Meniscectomy Increase the Risk for Surgical Site Infection”. *Arthroscopy.* March 2021
5. Forlenza EM, Burnett RA, Korrapati A, Yang J, Forsythe B, Della Valle CJ. “Preoperative Corticosteroid Injections Demonstrate a Temporal and Dose-Dependent Relationship with the Rate of Postoperative Infection Following Total Hip Arthroplasty”. *Journal of Arthroplasty.* Jan 2021
6. Lu Y, Agarwalla A, Patel BH, Nolte MT, Cancienne J, Verma N, Cole BJ, **Forsythe B.** Influence of workers' compensation status on postoperative outcomes in patients following biceps tenodesis: a matched-pair cohort analysis. J Shoulder Elbow Surg. *Dec 2020*
7. Forlenza EM, **Forsythe B**. Editorial Commentary: Time to Transition to Opioid-Sparing Orthopaedic Surgery: The Writing Is on the Wall. Arthroscopy. *Nov 2020*
8. Puzzitiello RN, Nwachukwu BU, Agarwalla A, Cvetanovich GL, Chahla J, Romeo AA, Verma NN, **Forsythe B**. Patient Satisfaction After Total Shoulder Arthroplasty. Orthopedics. *Nov 2020*
9. **Forsythe B**, Lavoie-Gagne O, Patel BH, Lu Y, Ritz E, Chahla J, Okoroha KR, Allen AA, Nwachukwu BU. Efficacy of Arthroscopic Surgery in the Management of Adhesive Capsulitis: A Systematic Review and Network Meta-analysis of Randomized Controlled Trials. Arthroscopy. *Nov 2020*
10. Haunschild ED, Gilat R, Fu MC, Tauro T, Huddleston HP, Yanke AB, **Forsythe B**, Verma NN, Cole BJ. Establishing the Minimal Clinically Important Difference, Patient Acceptable Symptomatic State, and Substantial Clinical Benefit of the PROMIS Upper Extremity Questionnaire After Rotator Cuff Repair. Am J Sports Med. *Oct. 2020*
11. Manderle BJ, Gowd AK, Liu JN, Beletsky A, Nwachukwu BU, Nicholson GP, Bush-Joseph C, Romeo AA, **Forsythe B**, Cole BJ, Verma NN. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Am J Sports Med. *Oct 2020*
12. Lu Y, Forlenza E, Cohn MR, Lavoie-Gagne O, Wilbur RR, Song BM, Krych AJ, **Forsythe B**. Machine learning can reliably identify patients at risk of overnight hospital admission following anterior cruciate ligament reconstruction. Knee Surg Sports Traumatol Arthrosc. *Oct 2020*
13. Lavoie-Gange O, Lu Y, MacLean I, Forlenza E, **Forsythe B**. “Discharge Destination after Shoulder Arthroplasty: An Analysis of Discharge Outcomes, Placement Risk Factors, and Recent Trends” *Journal of the American Academy of Orthopaedic Surgeons. Oct 2020*
14. Forlenza EM, Chahla J, **Forsythe B.** Protecting Surgical Patient Safety During the COVID-19 Pandemic. Arthrosc Sports Med Rehabil. *Sep 2020*
15. Beletsky A, Naami E, Lu Y, Polce EM, Nwachukwu BU, Okoroha KR, Chahla J, Yanke AB, **Forsythe B**, Cole BJ, Verma NN. The Patient Acceptable Symptomatic State in Primary Anterior Cruciate Ligament Reconstruction: Predictors of Achievement. Arthroscopy. *Sept. 2020*
16. 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 Two Years Following Total Shoulder Arthroplasty”. *Journal of Shoulder and Elbow Surgery*. In Press.
17. Gilat R, Wong SE, Lavoie-Gagne O, Haunschild ED, Knapik DM, Fu MC, Chahla J, **Forsythe B**, Cole BJ. Outcomes are comparable using free bone block autografts versus allografts for the management of anterior shoulder instability with glenoid bone loss: a systematic review and meta-analysis of "The Non-Latarjet". Knee Surg Sports Traumatol Arthrosc. *Aug 2020*
18. Cregar WM, Khazi Z, Lu Y, **Forsythe B**, Gerlinger TL “Lysis of Adhesion for Arthrofibrosis after Total Knee Arthroplasty is Associated with Increased Risk of Subsequent Revision Total Knee Arthroplasty” *J Arthoplasty*. July 2020
19. Cohn MR, Kunze KN, Polce EM, Nemsick M, Garrigues GE, **Forsythe B,** Nicholson GP, Cole BJ, Verma NN “Establishing Clinically Significant Outcome Thresholds for the Single Assessment Numeric Evaluation Two Years Following Total Shoulder Arthroplasty.” *J Shoulder Elbow Surg.* July 2020
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21. Khazi ZM, Lu Y, Cregar W, Shamrock AG, Gulbrandsen TR, Mascarenhas R, **Forsythe B**. Inpatient Arthroscopic Rotator Cuff Repair Is Associated With Higher Postoperative Complications Compared With Same-Day Discharge: A Matched Cohort Analysis. Arthroscopy. *July 2020*
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23. Zaferiou AM, Knowlton CB, Jang S, Verma NN, **Forsythe B**, Saltzman B, Nicholson G, Romeo AA. “Patient-specific effects on scapular orientation measurements using an acromion marker cluster with multiple calibration poses”. *J Biomech.* June 2020
24. Agarwalla A, Lu Y, Chang E, Patel BH, Cancienne JM, Cole BJ, Verma N, **Forsythe B.** “Influence of mental health on postoperative outcomes in patients following biceps tenodesis” *J Shoulder Elbow Surg.* June 2020
25. Lu Y, Beletsky A, Chahla J, Patel BH, Verma NN, Cole BJ, **Forsythe B**, “How Can We Define Clinically Important Improvement in Pain Scores After Biceps Tenodesis?”. *J Shoulder Elbow Surg*. June 2020.
26. Forlenza EM, Lavoie-Gagne O, Lu Y, Cohn MR, Chang E, Yanke AB, Verma NN, Cole BJ, **Forsythe B**. “Preoperative Opioid Use Predicts Prolonged Postoperative Opioid Use and Inferior Patient Outcomes Following Anterior Cruciate Ligament Reconstruction”. *Arthroscopy.* June 2020
27. **Forsythe B**, Patel BH, Agarwalla A, Lansdown D, Kunze K, Lu Y, Puzzitiello R, Verma NN, Cole BJ, LaPrade R, Inoue N, Chahla JA. “Dynamic Three-Dimensional Computed Tomography Mapping of Isometric Posterior Cruciate Ligament Attachment Sites on the Tibia and Femur: Single vs Double Bundle Analysis”. *Arthroscopy*. June 2020
28. Lu Y, Patel BH, **Forsythe B**. “Inpatient Admission following Anterior Cruciate Ligament Reconstruction is Associated with Higher Postoperative Complications” *Knee Surgery, Sports Traumatology, Arthroscopy.* June 2020
29. Beletsky A, Lu Y, Nwachukwu BU, Polce E, Maheshwer B, Chahla J, **Forsythe B**, Cole BJ, Verma NN. Preoperative psychometric properties of visual analog scale asessments for function, pain, and strength compared with legacy upper extremity outcome measures in glenohumeral osteoarthritis. JSES Int. *June 2020*
30. Beletsky A, Nwachukwu BU, Gorodischer T, Chahla J, **Forsythe B**, Cole BJ, Verma NN. Psychometric properties of visual analog scale assessments for function, pain, and strength compared with disease-specific upper extremity outcome measures in rotator cuff repair. JSES Int. *May 2020*
31. Lu Y, Patel BH, **Forsythe B**. “Performance of PROMIS Physical Function, Pain Interference and Depression Computer Adaptive Tests Instruments in Patients Undergoing Meniscal Surgery” *Arthroscopy* April 2020
32. Puzzitiello R, Agarwalla A, **Forsythe B**. “Authors' response to Letter to the Editor: Primary Medial Patellofemoral Ligament Repair Versus Reconstruction: Rates and Risk Factors for Instability Recurrence in a Young, Active Patient Population” *Arthroscopy* April 2020
33. Patel BH, Okoroha KR, Jildeh TR, Lu Y, Baker JD, Nwachukwu BU, Foster MG, Allen AA, **Forsythe B.** “Adductor Injuries in the National Basketball Association: An Analysis of Return to Play and Player Performance From 2010 to 2019” *Phys Sportsmed.* March 2020
34. Beck EC, Gowd QK, Liu JN, Waterman BR, Nicholson KF, **Forsythe B**, Yanke AB, Cole BJ, Verma NN, “How Is Maximum Outcome Improvement Defined in Patients Undergoing Shoulder Arthroscopy for Rotator Cuff Repair? A 1-Year Follow-Up Study”. *Arthroscopy.* March 2020
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**MANUSCRIPTS SUBMITTED, IN REVIEW:**

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