

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

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

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)

Oak Park River Forest High School, Head Team Physician (2021-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, Re-Certification Expires 12-31-2031

Certificate of Added Qualification, CAQ, Sports Medicine

Illinois Licensed Physician & Surgeon #036120879

Indiana Physician License #01074758A

Commonwealth of Massachusetts Full License # 227698

Advanced Trauma Life Support

American Board of Independent Medical Examiners: IMEs & Impairment Ratings, AMA 6th Edition.

LEADERSHIP POSITIONS AND EXPERIENCES

President, Professional Soccer Physicians Society, PSPS (Major League Soccer, MLS) (2021 -Present)

AOSSM Council of Delegates, State Representative, Illinois (2019-2022)

Chicago Fire FC (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 (2019-2023)

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)

HONORS AND AWARDS

Richard O'Connor Research Award for Best Project (2021)

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.

AANA-AOSSM Combined Meeting, Nashville, TN.

Poster Award Winner (2019)

Okoroha K, Patel BH, Lu Y, Idarraga AJ, **Forsythe B**. Concussions in the National Basketball Association: An Analysis from 1999-2018.

American Orthopedic Surgery and Sports Medicine Annual Meeting, Boston, MA.

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, Chicago, IL.

Neer Award Finalist (2017)

Randomized Prospective Analysis of Arthroscopic Supraperacoral 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
 Shen W, Honkamp NJ, **Forsythe B**, Ingham SJM, Fu FH.
 American Academy of Orthopedic Surgeons Annual Meeting, San Francisco, CA

Illinois Top Doctor (2019-2022)

“IL Top Docs”, Chicago, IL.

Academic Scholarship (1998-2002)

University of Pennsylvania School of Medicine, Philadelphia, PA.

Ghordon Rhode Dewart Fellowship (1998)

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

EDITORIAL REVIEW BOARDS

Editorial Review Board, *Video Journal of Sports Medicine*, SAGE Publications, 2020-Present

Reviewer, *Journal of Shoulder and Elbow Surgery*, Elsevier Publications, 2018-Present

Reviewer, *American Journal of Sports Medicine*, SAGE Publications, 2008-Present

TEACHING**Rush University****Resident Lab Courses, Instructor & Director**

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| 11/2021 | Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL |
| 06/2021 | Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL |
| 03/2021 | Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL |
| 08/2020 | Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL |

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| 01/2020 | Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL |
| 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:

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| 6/2021 | The Wider Scope of Arthroscopy: A Fellows Lab Experience OLC Education & Conference Center, Rosemont, IL |
| 2/2019 | Shoulder Arthroscopy Course for Sports Medicine for Fellows, |

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| 10/2018 | Gold Coast Surgery Center, Chicago, IL 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

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| 2021 | Lateral Extraarticular Tenodesis and Revision ACL Reconstruction Rush University Medical Center, Department of Orthopaedics, Chicago, IL |
| 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

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| 2021 | Stryker TI Webinar: Treating Shoulder Instability. Presenter, June, Virtual AAOS Fellows Sports Medicine Course: Shoulder Arthroscopy Techniques Lab Instructor, Lecturer, July, Rosemont, IL AANA Master Course: Advanced Comprehensive Knee Course: Ligament Reconstruction and Cartilage. Orthopedic Learning Center. Lab Instructor: June 5-7. Rosemont, IL. AAOS Fellows Sports Medicine Course: Shoulder Arthroscopy Techniques Lab Instructor, July, Rosemont, IL 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.
 AANA Master Course: Advanced Comprehensive Knee Course: Ligament
 Reconstruction and Cartilage.
 Orthopedic Learning Center.
 Lab Instructor: June 5-7. Rosemont, IL.
 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/peersSports 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
Assistant Professor of Orthopaedic Surgery, Hospital for Special Surgery
New York, NY
- Kelechi Okoroha M.D., 2018-2019
Assistant Professor of Orthopaedic Surgery, Mayo Clinic
Rochester, MN
- Jourdan Cancienne M.D., 2018-2019
Assistant Professor of Orthopaedic Surgery, Midwest Orthopaedics at Rush
Chicago, IL
- Ian J Dempsey M.D., MBA, 2018-2019
Assistant Professor of Orthopaedic Surgery, University of Virginia
Richmond, VA
- Jorge Chahla MD PhD, 2018-2019
Assistant Professor of Orthopaedic Surgery, Midwest Orthopaedics at Rush
Chicago, IL
- Kevin Parvaresh MD, 2019-2020
Private Practice Orthopedic Surgeon, Orthopedic Specialty Institute
Orange County, CA
- Nicholas Trasolini MD, 2020-2021
Assistant Professor of Orthopaedic Surgery, Wake Forest University
Winston-Salem, NC

- Derrick Knapik MD, 2020-2021
Assistant Professor of Orthopaedic Surgery, Washington University at St. Louis
St. Louis, MO
- Blake Bodendorfer MD, 2020-2021
Private Practice Orthopaedic Surgeon, Miller Orthopedic Specialists
Omaha, NE
- Steven DeFroda MD, 2020-2021
Assistant Professor of Orthopaedic Surgery, University of Missouri
Columbia, MO
- Benjamin Kester MD, 2020-2021
Private Practice Orthopaedic Surgeon, Duly Orthopedics
Lombard, IL
- Nolan Horner MD, 2021-2022
- Mario Hevesi MD, PhD, 2021-2022
Assistant Professor of Orthopaedic Surgery (anticipated), Mayo Clinic
Rochester, MN
- Dhanur Damodar, 2021-2022
Private Practice Physician (anticipated), Rebound Orthopaedics
Vancouver, WA

Resident 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)
- Debdt 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:

- Vikranth Mirle MS3 – The University of Chicago Pritzker School of Medicine (Chicago, IL) (2022-2023)
- Vahram Gamsarian MS3 – University of Michigan Medical School (Ann Arbor, MI) (2022-2023)
- Elyse Berlinberg MS3 – New York University Grossman School of Medicine (New York, NY) (2021-2022)
- Harsh Patel MS3 – Rutgers Robert Wood Johnson School of Medicine (Piscataway, NJ) (2021-2022)
- Avinash Korapati MS3 - University of California, San Diego School of Medicine (San Diego, CA) (2020-2021)
- Connor Diaz MS3 – Drexel University School of Medicine (Philadelphia, CA) (2020-2021)
- Ophelie La voie-Gagne MS3 – University of California San Diego Medical School (San Diego, CA), current resident at Harvard Combined Orthopedic Residency Program (2019-2020)
- Enrico Forlenza MS3 – Georgetown University School of Medicine (Washington, DC), current resident at Rush University (2019-2020)
- Yining Lu MS3 – University of Illinois Chicago College of Medicine (Chicago, IL), current resident at Mayo Clinic, Rochester (2018-2019)
- Bhavik H. Patel MS3 – University of California San Diego Medical School (San Diego, CA), current resident at University of Illinois at Chicago (2018-2019)
- Alexander Beletsky MS3 – University of California, San Diego (San Diego, CA), current resident at Riverside Community Hospital (2018-2019)
- Alexander Idarra BA – University of Wisconsin (Madison, WI) (2018-2019)
- William Zuke MD – Indiana University School of Medicine (Indianapolis, IN), current resident at Cleveland Clinic Orthopedic Surgery Residency Program (Cleveland, OH) (2017-2018)
- Avinesh Agarwalla MS3 – New York Medical College (Westchester, NY), current resident at Westchester Medical Center Orthopedic Surgery Residency Program, Valhalla (New York, NY) (2017-2018)
- Richard N Puzitiello MS3 – University of Cincinnati College of Medicine (Cincinnati, OH), current resident at Tufts Orthopedic Surgery Residency Program (Boston, MA) (2017-2018)
- Anirudh K. Gowd MS3 – Virginia Tech Medical School (Blacksburg, VA), current resident at Wake Forest School of Medicine (2017-2018)
- Beatrice Go MS1 – current student at 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)

CONSULTING POSITIONS

Scientific Advisory Board, I-Brain-Tech 2020-present

Advisory Board, BICMD, Best in Class MD, Telemedicine Company, 2020-present

Scientific Advisory Board, Jace Medical 2013-present

Consultant, Stryker Sports Medicine 2016-present

Consultant, Smith and Nephew 2021-present

COMMUNITY SERVICE

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| 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. Bernard 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 | Multiligamentous Injury/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 |

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| 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.
- 100 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 Strategic Planning & Finance Committee 2020-present

University

Vice-Chairman, Rush Health Finance Committee 2016-present

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 2014-2021

Board of Managers, Munster Specialty Surgery Center 2015-2021

SCIENTIFIC AND SCHOLARLY ACTIVITIES

Invited Presentations at Regional, National, and International Meetings

INTERNATIONAL

Podium Presentations

1. **Forsythe, B.** Patellofemoral Cartilage Lesions. 3rd International Knee Day. Berlin, Germany, March 2022.
2. Lavoie-Gagne, O., Huddleston, H., Memon, R., Berlinberg, E., Yanke, A., **Forsythe, B.** Intra-articular Injections in the Treatment of Knee Osteoarthritis: A Systematic Review and Network Meta-analysis. International Cartilage Regeneration & Joint Preservation Society 16th World Congress. Berlin, Germany, April 2022.
3. Nicholson G, **Forsythe B.** The Effect of Pain on Assessment of Rotator Cuff Tears: A Randomized Control Trial of Subacromial Injections. 14^o International Congress of Shoulder and Elbow Surgery. Buenos Aires, Argentina, September 2019
4. Nicholson G, **Forsythe B.** Radiostereometric Analysis of Subpectoral versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. 14^o International Congress of Shoulder and Elbow Surgery. Buenos Aires, Argentina, September 2019
5. Cole BJ, Naveen N, Tauro TM, Southworth T, Beletsky A, Otte SR, Yanke AB, **Forsythe 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
6. **Forsythe B**, Agarwalla A, Puzitiello RN. Revision ACL Reconstruction: Surgical Pearls and Pitfalls. Arthroscopy Association of North America: Instructional Course Lecture. Chicago, IL. April 2018.
7. 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.
8. **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.
9. 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

1. Berlinberg, E., Zabat, M., Forlenza, E., Patel, H., Chahla, J. **Forsythe, B.** Epidemiology of Platelet-Rich Plasma Injections from 2010 to 2020 in a Large United States Commercial Insurance Claims Database. International Cartilage Regeneration & Joint Preservation Society 16th World Congress. Berlin, Germany, April 2022.
2. Berlinberg, E., Burnett, R., Terhune, E., Patel, H., Della Valle, C., Mascarenhas, R., **Forsythe, B.** Chondroplasty in Patients with OA is Associated with an Increased Rate of TKA: A Large Matched Insurance Database Cohort Analysis. International Cartilage Regeneration & Joint Preservation Society 16th World Congress. Berlin, Germany, April 2022.
3. Forlenza, E., Lavoie-Gagne, O., Chau, J., Sama, N., Chua, P., Pianka, M., Chahla, J., **Forsythe, B.** Cartilage Injuries in the Knee: A Matched Cohort Analysis in Elite European Professional Soccer Players. International Cartilage Regeneration & Joint Preservation Society 16th World Congress. Berlin, Germany, April 2022.
4. Berlinberg, E., Forlenza, E., Moore, M., Patel, H., Chahla, J., **Forsythe, B.** PRP Injection is Not Associated with a Decrease in Time to Meniscectomy: Matched Insurance Database Analysis. International Cartilage Regeneration & Joint Preservation Society 16th World Congress. Berlin, Germany, April 2022.
5. **Forsythe, B.**, Chung, C., Statum, S., Berlinberg, E., Lavoie-Gagne, O., Patel, H., Cole, B., Bach, B., Chahla, J., Yanke, A., Verma, N. The Effect of Bone Marrow Aspirate Concentrate Augmentation on

- ACL Reconstruction Allograft Volume and PROMs. International Cartilage Regeneration & Joint Preservation Society 16th World Congress. Berlin, Germany, April 2022.
6. Lavoie-Gagne, O., Korrapati, A., Retzky, J., Bernstein, D., Diaz, C, Berlinberg, E., Forlenza, E., Fury, M., Mehta, N., O'Donnell, E., **Forsythe, B.** Return to Play and Player Performance following Meniscus Tear Among Elite Level European Soccer Players. International Cartilage Regeneration & Joint Preservation Society 16th World Congress. Berlin, Germany, April 2022.
 7. The Timing and Quantity of Corticosteroid Injections Prior to Total Hip Arthroplasty Impacts the Risk of Surgical Site Infection. Forlenza EM, Burnett RA, **Forsythe B**, Della Valle CJ. AAOS Annual Meeting San Diego, 2021
 8. Incidence and Risk Factors for Symptomatic Venous Thromboembolism Following Anterior Cruciate Ligament Reconstruction. Forlenza EF, Parvaresh KC, Cohn MR, Lavoie-Gagne O, Khazi ZM, Lu Y, **Forsythe B.** AAOS Annual Meeting San Diego, 2021
 9. Concussions Increase Risk for Lower Extremity Injury in National Basketball Association Athletes. Lu Y, Patel B, Lavoie-Gagne O, Forlenza EM, Okoroa K, **Forsythe B.** AAOS Annual Meeting San Diego, 2021
 10. Establishing the Minimal Clinically Important Difference, Substantial Clinical Benefit and Patient Acceptable Symptomatic State for PROMIS Upper Extremity. Forlenza EM, Lu Y, Cohn MR, Baker J, Lavoie-Gagne O, Yanke A, Cole B, Verma N, **Forsythe B.** AAOS Annual Meeting San Diego, 2021
 11. Concussions Increase Risk for Lower Extremity Injury in National Basketball Association Athletes. Lu Y, Patel B, Lavoie-Gagne O, Forlenza EM, Okoroa K, Forsythe B. Combined AANA-AOSSM meeting. Nashville, Tennessee, 2021.
 12. The Role of Technology in Determining Return to Sport: A Report from Major League Soccer. **Forsythe B,** Lavoie-Gagne O, Forlenza E, Lu Y, Whitney R, Kupiec S, Putukian M, Giza E, Chahla J, Mandelbaum B. Combined AANA-AOSSM meeting. Nashville, Tennessee, 2021.
 13. Adductor Muscle Injuries in Professional Soccer: Injury Rate, Return to Play, and Player Performance
 14. How should we define clinically significant improvement on Patient-Reported Outcomes Measurement Information System (PROMIS) for patients undergoing Knee Meniscal Surgery? Okoroa 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)
 15. 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, Puzitiello R, Cole B, Yanke A, Verma N, Bach B. American Association NA Annual Meeting. May 2020, Grapevine, TX. (Poster)
 16. 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)
 17. Adductor Injuries in the National Basketball Association: Return to Play and Player Performance. Patel BH, Okoroa 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)
 18. 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)
 19. 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, Puzitiello R, Yanke AB, Verma NN, Cole BJ, Chahla JA. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL. (Poster)
 20. Beletsky A, Nwachukwu B, Southworth T, Okoroa KC, Naveen N, Maheshwari B, **Forsythe 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.
 21. 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.
 22. Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**

23. 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.
24. 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.
25. Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**
26. 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.
27. **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.
28. **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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. **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. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Annual Meeting. Shanghai, China, June 2017.
37. 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.
38. **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.
39. 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.

40. 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

1. Radiostereometric Analysis of Biceps Tenodesis: A Prospective Comparison of All-Suture Anchor vs. Interference Screw, Arthroscopic and Mini-Open Techniques. **Forsythe, B**, Forlenza, EM, Okoroha, KR, Williams, BT, Patel, HH, Manderle, B, Beletsky, A, Chahla, J, Yanke, AB, Cole, BJ, Verma, NN. AOSSM, Annual Meeting Colorado Springs, CO, 2022
2. Chondroplasty & Meniscectomy Is Associated with Decreased Total Knee Arthroplasty in a Matched Cohort. Berlinberg, EJ, Patel, HH, Terhune, EB, Burnett, RA, Della Valle, C, Mascarenhas, R, **Forsythe, B**. AANA Annual Meeting, San Francisco, CA, 2022.
3. Radiostereometric Analysis of Biceps Tenodesis: A Prospective Comparison of All-Suture Anchor vs. Interference Screw, Arthroscopic and Mini-Open Techniques. **Forsythe, B**, Forlenza, EM, Okoroha, KR, Williams, BT, Patel, HH, Manderle, B, Beletsky, A, Chahla, J, Yanke, AB, Cole, BJ, Verma, NN. AANA, Annual Meeting San Francisco, CA, 2022.
4. Arthroscopic Suprapectoral Vs. Open Subpectoral Bicep Tenodesis at 3-year, Mid-term Follow-up. **Forsythe, B**, Diaz, CC, Korrapati, A, Agarwalla, A, Berlinberg, EJ, Cole, BJ, Cvetanovich, GL, Yanke, AB, Romeo, AA and Verma, NN. AANA Annual Meeting, San Francisco, CA, 2022.
5. Platelet-Rich Plasma Therapy Is Not Associated with a Decrease in Time to Meniscectomy. Berlinberg, EJ, Forlenza, EM, Patel, HH, Chahla, JA, **Forsythe, B**. AANA Annual Meeting, San Francisco, CA, 2022.
6. The Effect of Bone Marrow Aspirate Concentrate Augmentation on ACL Reconstruction Allograft Volume and PROMs. **Forsythe, B**, Chung, C, Statum, S, Berlinberg, EJ, Lavoie-Gagne, O, Patel, HH, Cole, B, Bach, BR, Chahla, J, Yanke, AB, Verma, NN. AAOS Annual Meeting Chicago, IL, 2022.
7. Return to Play and Player Performance following Ankle Fractures in Elite European Soccer Players: A Case-Control Study. Korrapati, A, Lavoie-Gagne, O, Diaz, C, Farah, G, Forlenza, E, O'Donnell, E, Patel, H, Berlinberg, E, **Forsythe, B**. AAOS Annual Meeting Chicago, IL, 2022.
8. Return to Play and Player Performance following Foot Fracture in Elite-Level European Soccer Players. Diaz, C, Lavoie-Gagne, O, Korrapati, A, John, NS, Diaz, MI, Forlenza, EM, Trasolini, N, **Forsythe, B**. AAOS Annual Meeting Chicago, IL, 2022.
9. PROMIS Upper Extremity underperforms psychometrically relative to American Shoulder and Elbow Surgeons score in patients undergoing primary rotator cuff repair. Huddleston HP, Lavoie-Gagne O, Maheshwer B, Mehta N, Fu MC, Cole BJ, Verma NN, **Forsythe B**, Yanke AB. AAOS Annual Meeting San Diego, 2021.
10. A Machine Learning Algorithm Outperforms Linear Models to Predict Extended Opioid Utilization following Total Shoulder Arthroplasty. Lu Y, Lavoie-Gagne O, Forlenza E, Cole B, Verma N, **Forsythe B**. AAOS Annual Meeting San Diego, 2021.
11. Application of Machine Learning Algorithms in the Prediction of Prolonged Postoperative Opioid Use in Patients Undergoing Elective Shoulder Arthroscopy. Lu Y, Karhade A, Lavoie-Gagne O, Forlenza E, Schwab J, Cole B, Verma N, **Forsythe B**. AAOS Annual Meeting San Diego, 2021.
12. Arthroscopic Distal Clavicle Excision is Associated with Fewer Postoperative Complications Compared to Open. Forlenza E, Agarwalla A, Cohn M, Wener B, **Forsythe B**. AAOS Annual Meeting San Diego, 2021.
13. Achilles Tendon Rupture: A Matched Cohort Analysis of Return to Play and Player Performance from 1999-2018 in Elite UEFA Professional Soccer Players. Forlenza EM, Lavoie-Gagne OZ, Lu Y, Diaz CC, Chahla J, **Forsythe B**. AAOS Annual Meeting San Diego, 2021.
14. Preoperative Opioid Use Predicts Postoperative Opioid Use and Inferior Clinically Significant Outcomes after Total Shoulder Arthroplasty. Lu Y, Cohn M, Baker J, Garrigues G, Nicholson G, Verma N, Cole B, **Forsythe B**. AAOS Annual Meeting San Diego, 2021.
15. Biologic 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, MD, Yanke A, Cole B, Verma N, Chung C, Bach B. Combined AANA-AOSSM meeting. Nashville, Tennessee, 2021.

16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.

32. 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.
33. ACL and MCL Advanced Issues: ACLR Reconstruction Graft Options. **Forsythe B.**
34. ACL and MCL Advanced Issues: Cases, Expert Panel Discussion. Ahmad CS, **Forsythe B.**
35. Special Consideration for Academy and College Development Players: Roundtable Discussion: Organizational Approach to an Academy System: Ahmad CS, **Forsythe B.**
36. 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.
37. 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.
38. 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.
39. 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.
40. **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
41. 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
42. 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
43. 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.
44. 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.
45. **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.
46. **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.
47. **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.
48. **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.
49. **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.
50. **Forsythe B.** Board Review Course: Podium Presentation Shoulder. Moderator, Leesa Galatz. AAOS Annual Meeting, March 27, 2015. Las Vegas, NV.
51. 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.

52. **Forsythe B.** Board Review Course: Podium Presentation Shoulder. Moderator, Leesa Galatz. AAOS Annual Meeting, March 14, 2014. New Orleans, LA.
53. 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
54. 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
55. 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.
56. 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.
57. Leland MJ, **Forsythe B**, Mather RC. Course 201: Practice Marketing - What Web-Based Services and Social Media 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.
58. **Forsythe B.** Examination of the Unstable knee and treatment of Patellofemoral Instability. *ATI National Sports Medicine Summit*. Oak Brook, IL, August 12th, 2012.
59. **Forsythe B.** Elective Orthopedic Surgery: The Team Approach to the Treatment of Hemophilia. *Center for Advanced Training in Inhibitor Management Symposium*. Marriott, Chicago Medical District. Rush University Medical Center, May 2nd, 2012
60. 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.
61. Bradley JP, **Forsythe B.** Single versus Double Bundle ACL Reconstruction. *Metcalf Course*. Sun Valley, Utah. February, 2008.
62. Bradley JP, **Forsythe B.** Anterior Instability in Contact Athletes. Instructional Course Lecture. *American Academy of Orthopedic Surgery*. San Francisco, March, 2008.
63. **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

1. Repair of the Distal Biceps Tendon: A Systematic Review and Network Meta-Analysis of Biomechanical Performance. Enrico M. Forlenza MD, Ophelie Lavoie-Gagne MD, Kevin C. Parvareh MD, Elyse J. Berlinberg BS, Avinesh Agarwalla MD, Brian Forsythe MD. AOSSM, Annual Meeting Colorado Springs, CO, 2022
2. No Difference in Clinical Outcomes for Arthroscopic Suprapectoral versus Open Subpectoral Biceps Tenodesis at 3-Year, Mid-Term Follow-up: A Randomized Prospective Analysis. **Forsythe, B**, Diaz, CC, Korrapati A, Agarwalla, A, Berlinberg, EJ, Cole, BJ, Cvetanovich, GL, Yanke, AB, Romeo, AA, Verma, NN. AOSSM, Annual Meeting Colorado Springs, CO, 2022
3. Variation in Postoperative Tendon Migration Does Not Result in Significant Differences in Patient Reported Outcomes in Patients Undergoing Arthroscopic or Open Biceps Tenodesis Using All-Suture Suture Anchor and Interference Screw. **Forsythe, B**, Berlinberg, EJ, Forlenza, EM, Patel, HH, Okoroha, KR, Williams, BT, Chahla, J, Yanke, AB, Cole, BJ, Verma, NN. V. AOSSM, Annual Meeting Colorado Springs, CO, 2022.
4. The Effect of Bone Marrow Aspirate Concentrate Augmentation on ACL Reconstruction Allograft Volume and PROMs. **Forsythe, B**, Chung, C, Statum, S, Berlinberg, EJ, Lavoie-Gagne, O, Patel, HH, Cole, B, Bach, BR, Chahla, J, Yanke, AB, Verma, NN. AOSSM, Annual Meeting Colorado Springs, CO, 2022
5. Performing Chondroplasty is Associated with Increased Rates of TKA In Patients with OA but Decreased Rates in Patients without OA: A Large Matched Insurance Database Cohort Analysis. Berlinberg, EJ, Patel, HH, Della Valle, C, Terhune, EB, Burnett, RA, Mascarenhas, R, **Forsythe, B.** AAOS Annual Meeting Chicago, IL, 2022.

6. Radiostereometric Analysis of Biceps Tenodesis: A Prospective Comparison of All-Suture Anchor vs. Interference Screw, Arthroscopic and Mini-Open Techniques. **Forsythe, B**, Forlenza, E, Okoroha, K, Williams, BT, Patel, HH, Chahla, JA, Yanke, AB, Cole, BJ, Verma, NN. AAOS Annual Meeting Chicago, IL, 2022.
7. Meniscal Injury Decreases Likelihood of High Achievement following Anterior Cruciate Ligament Reconstruction: A Machine Learning Clustering Analysis of Clinically Significant Outcomes. Lu, Y, Cohn, MR, Rea, PM, Berlinberg, EJ, Baker, JD, Yanke, AB, Verma, NN, Cole, BJ, **Forsythe, B**. AAOS Annual Meeting Chicago, IL, 2022.
8. Defining the Time Required to Achieve Clinically Significant Outcome Improvement after Total Shoulder Arthroplasty. Drager J, Polce EM, Fu MC, Huddleston HP, Williams BT, Garrigues GE, **Forsythe B**, Nicholson GP, Cole BJ, Verma NN. AAOS 2021 Annual Meeting, San Diego, CA
9. 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
10. 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.
11. Big Data in Total Shoulder Arthroplasty: An In-Depth Comparison of National Outcomes Databases. Yining Lu, Zain M Khazi, Bhavik Patel, Avinash Agarwalla, Jourdan Michael Cancienne, Brian C Werner, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
12. 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.
13. Bone Marrow Aspirate Concentrate Augmentation for Anterior Cruciate Ligament Reconstruction: A Double Blinded Randomized Controlled Trial. **Forsythe B**, Patel B, Lu Y, Agarwalla A, Puzitiello R, Yanke AB, Verma NN, Cole BJ, Chahla JA. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
14. 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.
15. 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.
16. 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.
17. 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)
18. 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)
19. 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.
20. 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**.
21. Agarwalla A, Gowd AK, Liu JN, Puzitiello 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.

22. 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.
23. 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.
24. 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.
25. 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.
26. **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.
27. **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.
28. 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.
29. **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.
30. Collins M, Arns T, Leroux T, Black A, Mascarenhas R, Bach BR, **Forsythe B**. Growth Abnormalities Following Anterior Cruciate Ligament Reconstruction in the Skeletally Immature Patient: A Systematic Review. Presentation 284. Annual Meeting, AANA. Boston, April 14-16, 2016.
31. **Forsythe B**, Haro M, Collins M, Arns T, Verma N, Bach BR. Biomechanical Evaluation of Posterior Cruciate Ligament Reconstruction with Quadriceps versus Achilles Tendon Bone Block Allograft. Presentation 262. Annual Meeting, AANA. Boston, April 14-16, 2016.
32. **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.
33. 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.
34. 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.
35. 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
36. 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
37. 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)

38. Kopf S., **Forsythe B.**, Wong A., Martins C., Tashman S., Anderst W., Irrgang J., Fu F. Transtibial ACL reconstruction technique fails to position drill tunnels anatomically. European Society of Sports Traumatology, Knee Surgery, and Arthroscopy. 14th ESSKA Congress. June 9-12, 2010. Oslo/Norway. #P13-816
39. 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.
40. 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.
41. **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.
42. **Forsythe B**; Gobeze 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

1. Revision ACL Reconstruction and Lateral Extra-Articular tenodesis. **Forsythe B**. 10th Annual Dr. Gunnar B.J. Andersson Lecture. Chicago, Illinois. 2021.
2. Infection status post ACL reconstruction. Obioha O, **Forsythe B**. 10th Annual Dr. Gunnar B.J. Andersson Lecture. Chicago, Illinois. 2021.
3. ACL slope correcting osteotomy. Cregar W, **Forsythe B**. 10th Annual Dr. Gunnar B.J. Andersson Lecture. Chicago, Illinois. 2021.
4. 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
5. **Forsythe B**, Moderator, Chicago Sports Summit. Chicago, IL, October 2018
6. **Forsythe B**, ACL Anatomy and Portal Drilling. Chicago Sports Medicine Symposium. Chicago, IL, September 2018
7. **Forsythe B**, Ramirez M, Debate: Open vs Arthroscopic Rotator Cuff Repair, Chicago Orthopedic Symposium Chicago, IL, August 2018
8. **Forsythe B**, Agarwalla A, Puzitiello RN. My ACL: From Cadaver to Camera. Elsevier's Innovative Techniques: Knee, Hip, and Shoulder Course. Las Vegas, NV. October 2017.
9. **Forsythe B**, Agarwalla A, Puzitiello RN. ACL Anatomy and Isometry. Foundation for Orthopaedic Research and Education: Sports Medicine Symposium. Chicago, IL. August 2017.
10. **Forsythe B**, Puzitiello, R.P. ACL Anatomy and Isometry. Oral Presentation presented at: Chicago Sports Medicine Symposium; Chicago, IL, USA. August 2017.
11. **Forsythe B**, Agarwalla A, Puzitiello RN. My ACL: From Cadaver to Camera. Foundation for Orthopaedic Research and Education: Sports Medicine Symposium. Chicago, IL. August 2017.
12. **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.
13. **Forsythe B**. New Vision and Interventions in Orthopedic Care for the Shoulder. *Elmhurst Hospital*. Elmhurst, IL, November 7th, 2012.
14. **Forsythe B**. Management of Distal Biceps Tendon Disease. *Orthocentrix Solutions Spring Seminar*. Oak Brook, IL. May 24th, 2012.
15. **Forsythe B**, Nicholson G. Understanding and Addressing Chronic Shoulder Pain. *Central Dupage Hospital*. Winfield, IL, October 30th, 2012.
16. **Forsythe B**. Current Trends in Management of Rotator Cuff Pathology. Webinar, Nova Care Case Managers Symposium, June 25th, 2012.
17. **Forsythe B**. Current Concepts in Treatment of Acromioclavicular Joint Injuries and Clavicle Fractures. *Diamond Mark Presentation*. OAK Brook, IL, June 21st, 2012.
18. **Forsythe B**. Current management of Clavicle Fractures and Acromioclavicular Ligament Reconstruction. *Athletico Case Managers Symposium*. OAK Brook, IL, June 21st, 2012.

19. **Forsythe B.** Clavicle Fractures: Operative Indications and Surgical Fixation Options. *Midwestern University Department of Orthopedics*. Chicago, IL. February 22, 2011.
20. **Forsythe B.** Current concepts in ACL Reconstruction. *ATI Physical Therapy Lecture Series*. New Lenox IL. February 17th, 2010.

Other Peer Reviewed Abstracts/Posters

1. Rea, PM, Lu, Y, Berlinberg, EJ, Patel, HP, Cohn, MR, Baker, J, Verma, NN, Cole, BJ, **Forsythe, B.** Predicting High Achievers after Anterior Cruciate Ligament Reconstruction: A Machine Learning Clustering Analysis of Clinically Significant Outcomes. Poster Presentation at Medical Student Orthopaedic Symposium, online.
2. Rea, PM, Lu, Y, Berlinberg, EJ, Patel, HP, Cohn, MR, Baker, J, Verma, NN, Cole, BJ, **Forsythe, B.** Predicting High Achievers after Anterior Cruciate Ligament Reconstruction: A Machine Learning Clustering Analysis of Clinically Significant Outcomes. Poster Presentation at Rush Medical Student Poster Day, November 2021, Chicago, IL. 2nd place winner, best clinical research poster.
3. 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.
4. Agarwalla, A, Puzzitiello, R.N., Romeo, A, Mascarenhas, R, **Forsythe B.** (March, 2017). The Timing of Intraarticular Injections Prior to Rotator Cuff Repair Impacts the Risk of Surgical Site Infection Poster presented at: Rush University Forum for Research and Clinical Investigation; Chicago, IL, USA
5. 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.
6. 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.
7. 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.
8. 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.
9. **Forsythe B.** Management of Irreparable Rotator Cuff Tears. *Rush Fellows Conference*. Chicago, IL. January 13, 2014.
10. 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.
11. Trella KJ, Shewman EF, Tenuto F, McCormick F, Ellman 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.
12. 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
13. 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.
14. **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.

15. 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.
16. 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.
17. 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.
18. Presenter: Hsu A. Moderator: **Forsythe B**. Management of Femoral Shaft Fractures. *Rush Residents Conference*. Chicago, IL, November 11th, 2013.
19. **Forsythe B**. Management of Multi-Ligamentous knee injuries. *Rush Sports Medicine Conference*. Chicago, IL, January 28, 2013.
20. **Forsythe B**. Management of Multi-Ligamentous Knee Injuries. *Athletico Physical Therapy*. Westchester, IL. January 15th, 2013.
21. 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.
22. **Forsythe B**. Examination of the Unstable Knee & Treatment of Patellofemoral Instability. *Rush Sports Medicine Conference*. Chicago, IL, November 12th, 2012.
23. **Forsythe B**. Shoulder Injuries in Golf: A Brief Review. *Midwest Golf House*, Lemont, IL, October 27th, 2012.
24. **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.
25. **Forsythe B**. Acromioclavicular joint injuries and Clavicle Fractures. *Rush Sports Medicine Conference*. Chicago, IL, September 9th, 2012.
26. **Forsythe B**. Examination of the Unstable Knee & Treatment of Patellofemoral Instability. *Accelerated Physical Therapy In-service*. Oak Park, IL, August 29th, 2012.
27. **Forsythe B**. Physical Examination of the Shoulder. *Rush Sports Medicine Conference*. Chicago, IL, August 13th 2012.
28. **Forsythe B**. Shoulder Instability in Throwing Athletes: Pathogenesis, Diagnosis & Treatment. *Accelerated Physical Therapy*, Downer's Grove, IL. February 7th, 2012.
29. **Forsythe B**. Throwing Athlete Shoulder Injuries: Prevention, Diagnosis, and Treatment. *ATI Physical Therapy*. Bolingbrook, IL. February 2nd, 2012.
30. **Forsythe B**. Shoulder Instability in Throwing Athletes: Pathogenesis, Diagnosis & Treatment. *Athletico Physical Therapy*. Westchester, IL. January 8th, 2012.
31. **Forsythe B**. Open Inferior Capsular Shift for Multidirectional Instability following failed arthroscopic plication. *Rush Sports Medicine Conference*. Chicago, IL. June 20, 2011.
32. **Forsythe B**. Modified Tibia Tubercle Osteotomy for Patellofemoral Instability with congenital patellar and trochlear hypoplasia. *Rush Sports Medicine Conference*. Chicago, IL. June 20, 2011.
33. **Forsythe B**. Surgical Management of a Multi-Ligament Knee Injury. *Rush Sports Medicine Conference*. Chicago, IL. June 13, 2011.
34. **Forsythe B**. Current concepts in ACL Reconstruction: Augmentation, Single and Double-Bundle Techniques. *Athletico University Lecture Series*. Bourbonnais, IL. February 2009.
35. **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.
36. Bradley, JP. **Forsythe B**. Adolescent Throwing Athletes: Injury Prevention and Treatment. *Drayer Physical Therapy Institute*. Pittsburgh, January 2008.
37. **Forsythe B**. Fellows Case Presentation: Treatment of Clavicle Fractures. *UPMC Center for Sports Medicine Conference*. Pittsburgh, April 2008.
38. **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

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| 2022 | AOSSM, Annual Meeting, Colorado Springs, CO |
| 2022 | AANA, Annual Meeting, San Francisco, CA |

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| 2022 | AAOS, Annual Meeting, Chicago, IL |
| 2021 | AOSSM-AANA Combined Meeting, Nashville, TN |
| 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

1. 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)
2. 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)
3. 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)
4. 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)

Funding History of Industry Support

Current

- Biologic Augmentation with Mesenchymal Stem Cells in Anterior Cruciate Ligament Reconstruction. Principal Investigator: **Forsythe B** *Allosource* (pending, 2022)
- Biomechanical Evaluation of the Optimal Lateral Row Anchor Position in Rotator Cuff Repair, Principal Investigator: **Forsythe B** *Stryker Corporation* \$125,000 (2019)
- Biomechanical Performance of a Curved Suture Passer Needle Versus a Flexible Straight Needle Principal Investigator: **Forsythe B** *Stryker Corporation* \$30,000 (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)

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MANUSCRIPTS IN PRINT:

1. Ezuma CO, Lu Y, Pareek A, Wilbur R, Krych AJ, **Forsythe B**, Camp CL. A Machine Learning Algorithm Outperforms Traditional Multiple Regression to Predict Risk of Unplanned Overnight Stay Following Outpatient Medial Patellofemoral Ligament Reconstruction. *Arthrosc Sports Med Rehabil.* 2022 May 24;4(3):e1103-e1110. doi: 10.1016/j.asmr.2022.03.009. PMID: 35747652; PMCID: PMC9210490.
2. Polce EM, Vadhera AS, Williams BT, Maheshwer B, O'Donnell R, Yanke AB, **Forsythe B**, Cole BJ, Chahla J. Preoperative symptom duration does not affect clinical outcomes after high tibial osteotomy at a minimum of 2-year follow-up. *J ISAKOS.* 2022 Apr 5:S2059-7754(22)00020-7. doi: 10.1016/j.jisako.2022.03.003. Epub ahead of print. PMID: 35692121.
3. **Forsythe B**, Berlinberg EJ, Forlenza EM, Oeding JF, Patel HH, Mascarenhas R. Corticosteroid injections 2 months before arthroscopic meniscectomy increases the rate of postoperative infections requiring surgical irrigation and debridement [published online ahead of print, 2022 May 27]. *Knee Surg Sports Traumatol Arthrosc.* 2022;10.1007/s00167-022-06981-w. doi:10.1007/s00167-022-06981-w
4. Patel S, Lavoie-Gagne O, Mehta N, Farah G, Korrapati A, **Forsythe B**. Patellar fracture among elite-level European soccer players: 4-year case-control cohort analysis of return to play, re-injury, and player performance [published online ahead of print, 2022 May 20]. *Phys Sportsmed.* 2022;1-10. doi:10.1080/00913847.2022.2077087
5. **Forsythe B**, Berlinberg EJ, Diaz CC, Korrapati A, Agarwalla A, Patel HH, Cole BJ, Cvetanovich GL, Yanke AB, Romeo AA, Verma NN. No Difference in Clinical Outcomes for Arthroscopic Suprapectoral Versus Open Subpectoral Biceps Tenodesis at Midterm Follow-up: A Randomized Prospective Analysis. *Am J Sports Med.* 2022 May;50(6):1486-1494. doi: 10.1177/03635465221084731. PMID: 35507468.
6. Mehta N, Lavoie-Gagne OZ, Cohn MR, et al. Travel Distance Does Not Affect Outcomes After Arthroscopic Rotator Cuff Repair. *Arthrosc Sports Med Rehabil.* 2021;4(2):e511-e517. Published 2021 Dec 24. doi:10.1016/j.asmr.2021.10.030
7. Puzzitiello RN, Patel BH, Lavoie-Gagne O, et al. Corticosteroid Injections After Rotator Cuff Repair Improve Function, Reduce Pain, and Are Safe: A Systematic Review. *Arthrosc Sports Med Rehabil.* 2021;4(2):e763-e774. Published 2021 Dec 20. doi:10.1016/j.asmr.2021.10.010
8. Walsh JM, Huddleston HP, Alzein MM, et al. The Minimal Clinically Important Difference, Substantial Clinical Benefit, and Patient-Acceptable Symptomatic State after Medial Patellofemoral Ligament Reconstruction. *Arthrosc Sports Med Rehabil.* 2022;4(2):e661-e678. Published 2022 Feb 5. doi:10.1016/j.asmr.2021.12.009

9. Berlinberg EJ, Patel HH, Ogedegbe B, et al. Postoperative, But not Preoperative COVID-19 is Associated With an Increased Rate of Medical Adverse Events Following Arthroscopic Procedures [published online ahead of print, 2022 Mar 30]. *Arthrosc Sports Med Rehabil*. 2022;10.1016/j.asmr.2022.03.007. doi:10.1016/j.asmr.2022.03.007
10. **Forsythe B**, Knapik DM, Crawford MD, et al. Incidence of Injury for Professional Soccer Players in the United States: A 6-Year Prospective Study of Major League Soccer. *Orthop J Sports Med*. 2022;10(3):23259671211055136. Published 2022 Mar 24. doi:10.1177/23259671211055136
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12. Lavoie-Gagne, O, Fury, MS, Mehta, N, Harkin, WE, Bernstein, DN, Berlinberg, EJ, Parvaresh, KC, O'Donnell, E, **Forsythe, B**. Double Row Repair with PRP Optimizes Retear Rates after Small to Medium Full-Thickness Rotator Cuff Repair: A Systematic Review and Network Meta-Analysis of Randomized Controlled Trials. *Accepted to Arthroscopy, March 3, 2022*.
13. **Forsythe B**, Knapik, D, Patel, H, Berlinberg E, Chahla J, Freehill, M, Riboh J. Rotator Cuff Repair with a Bioinductive Patch: An Anchorless, Cost-Effective Technique. *Accepted to the Video Journal of Sports Medicine on February 15, 2022*.
14. Berlinberg, EJ, Forlenza, EM, Patel, HH, Ross, R, Mascarenhas, R, Chahla, J, Nho, SJ, **Forsythe, B**. Increased Readmission Rates, but no Difference in Complication Rates in Patients Undergoing Inpatient versus Outpatient Hip Arthroscopy: A Large Matched Cohort Insurance Database Analysis. *Accepted to Arthroscopy, Sports Medicine, and Rehabilitation on February 14, 2022*.
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16. Forsythe, B, Berlinberg, E.J., Diaz, C.C., Korrapati, A, Agarwalla, A, Patel, H.H., Cole, B.J., Cvetanovich, G.L., Yanke, A.B., Romeo, A.A., Verma, N.N. No Difference in Clinical Outcomes for Arthroscopic Suprapectoral versus Open Subpectoral Bicep Tenodesis: A Randomized Prospective Analysis. *American Journal of Sports Medicine. Accepted January 20, 2022*.
17. Diaz CC, Lavoie-Gagne OZ, Knapik DM, Korrapati A, Chahla J, Forsythe B. Outcomes of Distal Femoral Osteotomy for Valgus Malalignment: A Systematic Review and Meta-analysis of Closing Wedge Versus Opening Wedge Techniques [published online ahead of print, 2022 Feb 14]. *Am J Sports Med*.
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22. Forsythe, B, Chahla, J, Korrapati, A, Lavoie-Gagne, O, Forlenza, E.M., Diaz, C.C., Chung, C.B., Bae, W.B., Bach, B.R., Cole, B.J., Yanke, A.B., Verma, N.N. Bone Marrow Aspirate Concentrate Augmentation may Accelerate Allograft Ligamentization in Anterior Cruciate Ligament Reconstruction: A Double Blinded Randomized Controlled Trial. *Arthroscopy: The Journal of Arthroscopic & Related Surgery, ePub 15 January 2022*.
23. 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. *Journal of the American Academy of Orthopaedic Surgeons* 2022 Jan 15.

24. Yanke AB, Huddleston HP, Forlenza EM, Mehta N, Laux D, Parvaresh KC, Cole BJ, Verma NN, **Forsythe B**. Two-Year Clinical Outcomes and Survivorship after Isolated Biceps Tenodesis. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. 2021 Dec 16.
25. Agarwalla A, Gowd AK, Liu JN, Garcia GH, Nicholson GP, **Forsythe B**, Romeo AA, Verma NN. Return to Work After Pectoralis Major Repair. *Orthopaedic Journal of Sports Medicine*. 2021 Dec 15.
26. Kennedy JS, Reinke EK, Friedman LGM, Cook C, **Forsythe B**, Gillespie R, Hatzidakis A, Jawa A, Johnston P, Nagda S, Nicholson G, Sears B, Wiesel B, Garrigues GE; SHORT Trial Investigators, Hagen C, Hong I, Roach M, Jones N, Mahendraraj K, Michaelson E, Bader J, Mauter L, Mengers S, Renko N, Strony J, Hart P, Steele E, Naylor A, Gaudette J, Sprengel K. Protocol for a multicenter, randomised controlled trial of surgeon-directed home therapy vs. outpatient rehabilitation by physical therapists for reverse total shoulder arthroplasty: the SHORT trial. *Archives of physiotherapy*. 2021 Dec 10.
27. Lu Y, Lavoie-Gagne O, Forlenza EM, Pareek A, Kunze KN, **Forsythe B**, Levy BA, Krych AJ. Duration of Care and Operative Time are the Primary Drivers of Total Charges after Ambulatory Hip Arthroscopy: A Machine Learning Analysis. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. 2021 Dec 4.
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