

LCDR Patrick Wakefield Joyner, M.D., M.S.

Business Address:

OrthoCollier 08/2017-Present
(A Division of Neuroscience and Spine Associates, PL)
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Faculty Appointment:

Assistant Professor in Surgery 2013-2017
Uniformed Services University of the Health Sciences
Naval Medical Center Portsmouth
Department of Orthopaedic Surgery
Bone & Joint/Sports Medicine Center
620 John Paul Jones Circle
Portsmouth, VA 23708
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Education:

Fellowship:
Andrews Institute for Orthopaedics and Sports Medicine 2012-2013
1040 Gulf Breeze Parkway
Gulf Breeze, FL 32561

Residency:
Duke University Medical Center 2007-2012
Department of Orthopaedic Surgery Resident Program
Box 3000
Durham, NC 27710

Education (cont.)

Medical School:
The Pennsylvania State University 2003-2007
College of Medicine (PSUCOM) M.D.
The Milton S. Hershey Medical Center
500 University Drive
Hershey, Pennsylvania 17033

Graduate Education: The University of Florida Gainesville, Florida 32601	2003 M.S., Microbiology & Cell Science
Undergraduate Education: The University of North Carolina at Pembroke (UNCP) PO Box 1510 Pembroke, North Carolina 28372-1510	2000 B.S., Biology

Medical School Honors & Awards:

Gilbert Nurick Memorial Scholarship Award (Top Student in Graduating Class)	2007
President of Alpha Omega Alpha Madeline K. Deitz Memorial Scholarship in Medicine Award (Top MSIII Student)	2006-2007 2006
Millie (Andrason) McGlumphy/Craig Andrason Memorial Scholarship Award (Top MSII Student)	2005
President of Medical School Class	2004-2005
Edward C. Hammod, Jr. Memorial Scholarship Award (Top MSI Student)	2004
McGraw Hill/Lange Medical Student Award (Top MSI Student)	2004
First Prize Poster Research Award SOA Annual Meeting	June 28-July 1, 2017
Navy/Marine Corps Commendation Medal	2017

Board Certification:

Board Certification American Board of Orthopaedic Surgeons (ABOS)
July 23, 2015
Subspecialty Certificate of Additional Qualification (CAQ) – Sports Medicine
December 19, 2016

Sports Medicine Team Coverage:

Attending:

<u>Volunteer Team USA Doctor</u> <u>2020 Youth Olympic Winter Games</u> Lausanne, Switzerland	2020
<u>Palmetto Ridge and Immokalee High School</u> Collier County, Florida – Football and All Sports	2017-Present
<u>Old Dominion University Head Team Doctor</u> Wrestling	2013-2017
<u>Team Doctor Seal Team 2 & 4</u>	2013-2017
<u>Co-Chair Armed Forces Sports Advisory Council</u>	2016-Present
<u>Co-Head Physician Team USA – International</u> <u>Military Games (CISM)</u>	2016-Present

Fellowship:

<u>High School Head Team Physician</u> Northview High School	
<u>Pensacola Christian College Head Fellow Team Physician</u> Women’s Volleyball; Women’s Basketball; Men’s Basketball	
<u>Auburn University</u> Football	
<u>Professional Team Sports Coverage</u> Washington Redskins	
<u>Additional Sports Coverage</u> Mixed Martial Arts (MMA)	

Residency:

<u>High School Resident Team Physician</u> Southern High School (2007); Riverside High School (2008); Northern High School (2009); Orange High School (2010); Hillside High School (2011)	
<u>North Carolina Central University Resident Team Physician</u> Football; Women’s Basketball; Men’s Basketball	
<u>Duke University Resident Team Physician</u>	

Men's Soccer; Women's Soccer; Men's Lacrosse; Women's Basketball; Football;
Women's Volleyball; Men's Wrestling; Men's and Women's Track & Field

Professional Societies

American Association of Orthopaedic Surgeons - Fellow
Arthroscopy Association of North America – Associate Member
American Orthopaedic Society for Sports Medicine
Society of Military Orthopaedic Surgeons
Piedmont Orthopaedic Society
Kuentscher Society
Southern Orthopaedic Association
Florida Orthopaedic Association
Alpha Omega Alpha Medical Honor Society
Alpha Chi Honor Society

U.S. Military Deployments

Guantanamo Bay, Cuba – NAVSOC & JTF Camp Orthopaedic Surgeon
March 2015-May 2015 and June 2016 – August 2016

Course Instructor

1. AANA-SOMOS: Master Techniques in Knee Surgery Course. August 14-16, 2015. Instructor and Presenter.
2. RTI Surgical, Inc – Cartilage Symposium: OATS Lead Instructor and Presenter. August 26, 2017 – Las Vegas, NV.
3. DePuy Mitek – Master's Knee and Shoulder Arthroscopy Course. March 2018, West Palm Beach, FL
4. AANA Fellows Shoulder and Knee Arthroscopy Course – June 22-24, 2018. OLC Rosemont, IL.

Publications

1. Joyner, Patrick W. “Psychiatric Disorders in First-Degree Relatives of Children with Pediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcal Infections (PANDAS).” *Journal of the American Academy of Child & Adolescent Psychiatry*. 39(9):1120-6, 2000 Sep. Internet Journal Article Review, 03 May 2006. http://www.childadvocate.net/PANDAS_relatives.htm.

2. Michael P. Staff, William B. Kilgore, Patrick W. Joyner, Paul J. Juliano. "Functional Outcome after percutaneous Tendo-Achilles Lengthening." *Foot and Ankle Surgery*. 2011 Mar;17(1):29-32. 2011.
3. Patrick W Joyner, William J Mallon, Donald T Kirkendall, William E Garrett Jr. "Relative Age Effect: Beyond a Youth Phenomenon." *Duke Orthopaedic Journal*. 2013 June/July;3(1):74-9.
4. Bruce J, Hess R, Joyner P, Andrews J. "How much valgus instability can be expected with ulnar collateral ligament (UCL) injuries? A review of 273 baseball players with UCL injuries". *J Shld Elbow Surg*. 2014 Oct;23(10):1521-6.
5. Mayer SW, Joyner PW., Almekinders LC, Parekh SG. "Stress Fractures of the Foot and Ankle in Athletes." *Sports Health*. 2014 Nov; 6(6):481-91.
6. Joyner, Patrick, Robert Fitch. "A Novel Technique for Correcting a Flexible Internal Rotation Deformity Following Talectomy." *Techniques in Orthopaedics*. 2015 June; 30(2).
7. Joyner PW, Bruce J, Hess R, Mates A, Mills FB 4th, Andrews JR. "Magnetic resonance imaging-based classification for ulnar collateral ligament injuries of the elbow." *JSES*. 2016 Oct;25(10):1710-6. doi: 10.1016/j.jse.2016.05.006. Epub 2016 Aug 9.
8. Patrick W Joyner, Jeremy Bruce, Travis S. Roth, Frederic Baker Mills IV, Scott Winnier, Ryan Hess, Luke Wilcox, Aaron Mates, Tim Frerichs, James R. Andrews, Charles A. Roth. "Biomechanical Tensile Strength Analysis for Medial Patellofemoral Ligament Reconstruction." *Knee*. 2017 July. doi:http://dx.doi.org/10.1016/j.knee.2017.04.013.
9. Tucker CJ, Joyner PW, Endres NK. "Single Versus Double-Bundle PCL Reconstruction: Scientific Rationale and Clinical Evidence." *Curr Rev Musculoskelet Med*. 2018 Apr 19. doi: 10.1007/s12178-018-9486-z.
10. Meijer K, Saper M, Joyner P, Lui W, Andrews JR, Roth C. "Minimizing Graft-Tunnel Mismatch in Allograft Anterior Cruciate Ligament Reconstruction Using Blumensaat's Line: A Cadaveric Study." *Arthroscopy*. 2018 May 2. pii: S0749-8063(18)30224-X. doi: 10.1016/j.arthro.2018.03.006.
11. Kristyn Fagerberg, M.D., Patrick Joyner, M.D. "Keloids." *The 5-Minute Clinical Consult*. 19th Edition. 726-727, 2011.
12. Kristyn Fagerberg, M.D., Patrick Joyner, M.D. "Keloids." *The 5-Minute Clinical Consult*. 20th Edition. 2012.
13. Kristyn Fagerberg, M.D., Patrick Joyner, M.D. "Osteoarthritis." *The 5-Minute Clinical Consult*. 21th Edition. 2013.
14. Patrick Joyner, M.D., Kristyn Fagerberg, MD. "Charcot Joint." *The 5-Minute Clinical Consult*. 20th Edition. 2012.
15. Patrick Joyner, M.D., Kristyn Fagerberg, MD. "Charcot Joint." *The 5-Minute Clinical Consult*. 21th Edition. 2013.
16. Patrick Joyner, M.D., Kristyn Fagerberg, MD. "Charcot Joint." *The 5-Minute Clinical Consult*. 22th Edition. 2014.
17. Patrick Joyner, M.D., David Joyner, MD. "Osteoarthritis." *The 5-Minute Clinical Consult*. 22th Edition. 2014.
18. LCDR Patrick W. Joyner, MD, MS. "Osteoarthritis." *The 5-Minute Clinical Consult*. 23th Edition. 2015.
19. LCDR Patrick W. Joyner, MD, MS. "Osteoarthritis." *The 5-Minute Clinical Consult*. 24th Edition. 2016.

20. LCDR Patrick W. Joyner, MD, MS. "Osteoarthritis." *The 5-Minute Clinical Consult*. 25th Edition. 2017.
21. Patrick W. Joyner, MD, MS. "Osteoarthritis." *The 5-Minute Clinical Consult*. 25th Edition. 2018.

Participation in National and Regional Societies

1. AANA-SOMOS: Master Techniques in Knee Surgery Course. August 14-16, 2015. Instructor and Presenter.
2. SOMOS. Annual Meeting December 7-11, 2015. Moderator, General Session 5: Sports Lower Extremity.
3. AAOS – AANA Specialty Day Moderator – March 18, 2017.
4. AANA Traveling Fellowship – May 7-17, 2017.
5. Southern Orthopaedic Association Annual Meeting Sports Medicine Moderator – June 28 – July 1, 2017.
6. AANA Advocacy Committee 2018-Present

Presentations

Undergraduate Education

1. Joyner, Patrick W. "A Fish Out of Water." (An Overview of HIV). Alpha Chi Honor Society Regional Conference. Chattanooga, Tennessee. March, 2000.

Graduate Education

1. Joyner, Patrick W. "Inactivation and Reactivation of Adenosylcobalamin-Dependent Diol and Glycerol Dehydratase." Master's Defense. Committee members: Thomas Bobik Ph.D., Nematollah Keyhani Ph.D., and James F. Preston Ph.D. University of Florida. May 2003.
2. Joyner, Patrick W., Thomas A. Bobik. "Development and Construction of a *pduO* Deletion Mutant in *Salmonella enterica*." University of Florida 2002
3. Joyner, Patrick W., Thomas A. Bobik. "Purification and crystallization of the Human Adenosyltransferase (ATR) enzyme." University of Florida 2003.

Invited Faculty/Lecturer – Sociedad Columbiana de Cirugia Ortopedica y Traumatologia

1. Sociedad Columbiana de Cirugia Ortopedica y Traumatologia. Faculty/Lecturer. March 2012.
2. "Poller Screws" – 2012
3. "Femoral and Tibial Nonunions and the Role of Bone Marrow Aspirate" – 2012

OREF Residents Symposium – June 1, 2012

1. "Relative Age Effect: Beyond the Youth Phenomenon"

North Carolina Orthopaedic Association

1. "Relative Age Effect: Beyond the Youth Phenomenon"

Society of Military Orthopaedic Surgeons

1. “Relative Age Effect: Beyond the Youth Phenomenon” (poster presentation). December 2012.
2. “Quantification of Native Anterior Cruciate Ligament Length via Lateral X-Ray” (podium presentation). December 2013
3. “Pre-Operative Templating of Anterior Cruciate Ligament Reconstruction Using Lateral X-Ray to Prevent Graft Tunnel Mismatch.” (poster presentation). December 2013
4. “Biomechanical Tensile Strength Analysis of Current Techniques for Medial Patellofemoral Ligament Reconstruction” (podium presentation). December 15-19, 2014.
5. “MRI classification of UCL injuries of the Elbow.” (podium presentation). December 15-19, 2014.
6. “Success of Platelet-Rich Product Injection as a Non-Operative Alternative for UCL Injuries of the Elbow,” (poster presentation). December 7-11, 2015.
7. “Chronic Patellar Tendon Rupture Repairs with Allograft: Technique and Results.” (poster presentation). December 7-11, 2015.
8. “Avoid Graft Tunnel Mismatch in Allograft Anterior Cruciate Ligament Reconstruction: The Blumensaats Line Method.” (podium presentation). December 12-16, 2016.
9. “Primary Biceps Tenodesis vs. Repair for Type II SLAP tears in patients Under 30 years old.” (podium presentation). December 12-16, 2016.
10. “Correlating Blumensaats’s Line to Native ACL Length for Graft Length Determination in ACL Reconstruction.” (poster presentation). December 12-16, 2016.
11. “Changes in testosterone levels after arthroscopic surgery: A pilot study.” (poster presentation). December 12-16, 2016.
12. “Rapid Decontamination of Thyroid Shields.” (Podium Presentation) December 2017.

Injuries in Baseball – January 27-29, 2013

1. “Anatomy of the Elbow – Cadaveric Dissection” (video presentation)

American Academy of Orthopaedic Surgeons (AAOS)

1. Andrews, James R. and Patrick Joyner. “Shoulder Instability”. Co-author. 2013. (podium presentation)
2. Hess *et al.* “Incidence of medical epicondyle fractures in ulnar collateral ligament reconstruction.” Co-author. 2014. (podium presentation)
3. Hess *et al.* “Inter and Intraobserver assessment of lateral elbow stress radiographs.” Co-author. 2014. (poster presentation)
4. “MRI classification of UCL injuries of the Elbow.” (podium presentation). March, 2014.

Arthroscopy Association of North America (AANA):

1. “Quantification of Native Anterior Cruciate Ligament Length via Lateral X-Ray” (poster presentation). April 25-27, 2013
2. “Biomechanical Tensile Strength Analysis of Current Techniques for Medial Patellofemoral Ligament Reconstruction” (podium presentation). May3-5, 2014
3. “Pre-Operative Templating of Anterior Cruciate Ligament Reconstruction Using Lateral X-Ray to Prevent Graft Tunnel Mismatch.” (poster presentation). May 3-5, 2014

Southern Orthopaedic Association (SOA)

1. "Pre-Operative Templating of Anterior Cruciate Ligament Reconstruction Using Lateral X-Ray to Prevent Graft Tunnel Mismatch." (podium presentation). July 16-19, 2014
2. "Biomechanical Tensile Strength Analysis of Current Techniques for Medial Patellofemoral Ligament Reconstruction" (podium presentation). July 16-19, 2014
3. "Quantification of Native Anterior Cruciate Ligament Length via Lateral Radiographic Landmark" (poster presentation). July 16-19, 2014
4. "Chronic Patellar Tendon Rupture Repairs with Allograft: Technique and Results." (podium presentation). June 28-July 1, 2016.
5. "Avoid Graft Tunnel Mismatch in Allograft Anterior Cruciate Ligament Reconstruction: The Blumensaats Line Method." (podium presentation). June 28-July 1, 2016.
6. "Primary Biceps Tenodesis vs. Repair for Type II SLAP tears in patients Under 30 years old." (podium presentation). June 28-July 1, 2016.
7. "Correlating Blumensaats's Line to Native ACL Length for Graft Length Determination in ACL Reconstruction." (podium presentation). June 28-July 1, 2016.
8. "Changes in testosterone levels after arthroscopic surgery: A pilot study." (poster presentation). June 28-July 1, 2016.
9. "Chronic Patellar Tendon Rupture Repairs with Allograft: Technique and Results." (podium presentation).
10. "Rapid Decontamination of Thyroid Shields." (Podium Presentation). July 2018.

Eastern Orthopaedic Association (EOA)

1. "Biomechanical Tensile Strength Analysis of Current Techniques for Medial Patellofemoral Ligament Reconstruction" (podium presentation). October 22-25, 2014
2. "Pre-Operative Templating of Anterior Cruciate Ligament Reconstruction Using Lateral X-Ray to Prevent Graft Tunnel Mismatch." (podium presentation). October 22-25, 2014
3. "Quantification of Native Anterior Cruciate Ligament Length via Lateral Radiographic Landmark" (podium presentation). October 22-25, 2014

Florida Orthopaedic Society

1. "Quantification of Native Anterior Cruciate Ligament Length via Lateral Radiographic Landmark" (podium presentation). May 15-18, 2014
2. "MRI classification of UCL injuries of the Elbow." (podium presentation). June 7, 2015.
3. "Primary Biceps Tenodesis vs. Repair for Type II SLAP tears in patients Under 30 years old." (podium presentation). May 18-21, 2017.
4. "Rapid Decontamination of Thyroid Shields." (Podium Presentation). June 2018.

Virginia Orthopaedic Society

1. "Correlating Blumensaats's Line to Native ACL Length for Graft Length Determination in ACL Reconstruction." (poster presentation). April 21-23, 2017.

AANA-SOMOS

5. AANA-SOMOS: Master Techniques in Knee Surgery Course. August 14-16, 2015. Instructor and Presenter.
6. SOMOS. Annual Meeting December 7-11, 2015. Moderator, General Session 5: Sports Lower Extremity.

Research Grants

1. 2013 - Arthrex Industry Grant received for Medial Patellofemoral Ligament Reconstruction Biomechanical Analysis Project. Primary Author – Patrick W. Joyner. Secondary Author – Charles A. Roth (Arthrex provided all cadavers and necessary implants for the project).