

Michael W. Moser, MD

7540 W University Ave Gainesville, FL 32607
(352) 525-4900
e-mail: mmoser@floridaortho.com

EDUCATIONAL BACKGROUND

University of Florida	Medicine	MD	1997
University of Florida	Entrepreneurship	MS	2008
University of Notre Dame	Pre-professional Sciences	BS	1993
University of Florida	Master Educator Fellowship		2010

EMPLOYMENT

University Athletic Assoc.	Head Team Physician	7/2011-present
University of Florida	Associate Professor	7/2010-present
University of Florida	Assistant Professor	7/2004-6/2010
St. Joseph's Hospital	Staff Physician, Dept Orthopaedic Surgery	8/2003-7/2004
Memorial Hospital of Tampa	Staff Physician, Dept Orthopaedic Surgery	8/2003-7/2004

AREAS OF SPECIALIZATION

Orthopaedic Surgery and Sports Medicine

Certifications:

2005	American Board of Orthopaedic Surgery, Certification
2003	Autologous Chondrocyte Implantation, Certification
2015	American Board of Orthopaedic CAQ, Sports Medicine

Licensure:

2004	Florida Medical License # ME79550 expires: January 31, 2024
2002	Alabama Medical License #00024502 (Inactive)
2004	Drug Enforcement Agency DEA # BM7616949 re-licensed expires: January 31, 2026

UNIVERSITY GOVERNANCE AND SERVICE

2006-2018	Member	UF Orthopaedics Residency Selection Committee
2004-Present	Member	UF Athletic Association Medical Advisory Committee
2004-2008	Member	UF/Shands Value Analysis Committee
2010-08/2011	Member	Physician Department Quality Officer
2007-08/2011	Medical Director	Orthopaedics & Sports Medicine Institute Clinics

MEMBERSHIP AND ACTIVITIES IN THE PROFESSION

Memberships

2008-Present	American College of Surgeons, Fellow
2006-Present	Magellan Society (AOSSM Traveling Fellow Society)
2004-Present	Alachua County Medical Society
2003-Present	Florida Orthopaedic Society
2002-Present	American Academy of Orthopaedic Surgeons, Fellow
2002-Present	American Orthopaedic Society for Sports Medicine, Fellow
2002-Present	Arthroscopy Association of North America, Fellow

Activities

2010-2013	Chair, By Laws Committee, American Orthopaedic Society for Sports Medicine
2006-2013	By Laws Committee, American Orthopaedic Society for Sports Medicine
2008-2011	Council of Delegates, American Orthopaedic Society for Sports Medicine
2006-2011	Enduring Education Committee, American Orthopaedic Society for Sports Medicine

CLINICAL ACTIVITIES

2008-Present	Faculty, Department of Orthopaedics Shoulder and Elbow Fellowship
2008-Present	Faculty, Primary Care Sports Medicine Fellowship
2006-Present	University of Florida, Department of Orthopaedic Surgery and Rehabilitation Residency Selection Committee
2004-Present	University of Florida Athletic Association Medical Advisory Committee
2004-Present	Director, University of Florida Athletic Training Program Grand Rounds
2004-Present	Medical Director, University of Florida Athletic Training Programs
2004-Present	Co-Director, University of Florida Sports Medicine Journal Club

SERVICE TO SCHOOLS

2004-Present	Medical Director, University of Florida Athletic Training Sports Medicine Outreach Program that provides Sports Medicine care to high school athletes in 32 high schools.
2004-Present	Medical Director, Alachua County High School Activities
2004-2009	Sports Medicine Advisory Committee, Florida High School Athletic Association

CONSULTATION OUTSIDE THE UNIVERSITY

Arthrex, INC	2008-2018
Regeneration Technologies	2005-2007

EDITORIAL ACTIVITIES

- 2009-2014 Reviewer, American Journal Sports Medicine
 2007-2010 American Association Orthopaedic Surgeons NOW Editorial Advisory Board

INTERNATIONAL ACTIVITIES

- 2006 American Orthopaedic Society for Sports Medicine Traveling Fellowship Program – Orthopaedic Surgeons are selected through a competitive application process to join two other Orthopaedic Surgeons to participate in a program emphasizing early career orthopaedic surgeons.

HONORS

- 2008 Co-author, Excellence in Research Award, Sports Section, American Physical Therapy Association
 2002 Wyeth-Ayerst Resident Reporter Program, AAOS National Meeting

LEGAL WORK

<i>CASE</i>	<i>OUTSIDE EMPLOYER</i>	<i>REPRESENTS</i>
Brown vs Baker MD	Diaz (Miami, FL)	Baker
Reed vs Guttentag MD	McLaughlin (Tampa, FL)	Guttentage
Foody vs The Pep Boys	O'Grady (Jacksonville, FL)	Foody

PUBLICATIONS

a. Books, Sole Author: None

b. Books, Co-Authored: None

c. Books, Edited: None

d. Books, Contributor of Chapter:

Tripp BL and Moser MW. Shoulder Injuries. In: Athletic Training and Sports Medicine an Integrated Approach, 5th Addition. Starkey C, Jones and Bartlett Learning: Burlington, MA, 2013. Pp. 272-351

e. Monographs: None

f. Refereed Publications:

Chmielewski TL, George SZ, Tillman SM, Moser MW, Lentz TA, Indelicato PA, Trumble TN, Shuster JJ, Cicuttini FM, Leeuwenburgh C. Low- Versus High-Intensity Plyometric Exercise During Rehabilitation After Anterior Cruciate Ligament Reconstruction. Am J Sports Med. 2016 Mar;44(3):609-17. doi: 10.1177/0363546515620583. Epub 2016 Jan 21.

George SZ, Wu SS, Wallace MR, Moser MW, Wright TW, Farmer KW, Greenfield WH 3rd, Dai Y, Li H, Fillingim RB. Biopsychosocial influence on shoulder pain: Genetic and psychological combinations are predictive of 12 month post-operative pain and disability outcomes. Arthritis Care Res (Hoboken). 2016 Mar 4. doi: 10.1002/acr.22876.

Herman DC, Jones D, Harrison A, Moser M, Tillman S, Farmer K, Pass A, Clugston JR, Hernandez J, Chmielewski TL. Concussion May Increase the Risk of Subsequent Lower Extremity Musculoskeletal Injury in Collegiate Athletes. *Sports Med.* April 2016

Valencia C, Coronado RA, Simon CB, Wright TW, **Moser MW**, Farmer KW, George SZ. Preoperative physical therapy treatment did not influence postoperative pain and disability outcomes in patients undergoing shoulder arthroscopy: a prospective study. *J Pain Res.* 2016 Jul 6;9:493-502. doi: 10.2147/JPR.S101702. eCollection 2016.

George SZ, Wallace MR, Wu SS, Moser MW, Wright TQ, Farmers KW, Borsa PA, Parr JJ, Greenfield WH 3rd, Dai Y, Li H, Fillingim RB. Biopsychosocial influence on shoulder pain: risk subgroups translated across preclinical and clinical prospective cohorts. *Pain.* 2015 Jan; 156 (1): 148-56. doi: 10.1016/j. pain

Lentz TA, Zeppieri G Jr, George SZ, Tillman SM, Moser MW, Farmer KW, Chmielewski TL. Comparison of Physical Impairment, Functional, and psychosocial Measures Based on Fear of Reinjury/Lack of Confidence and Return-to-Sport Status after ACL Reconstruction. *Am J Sports Med.* 2015 Feb; 43 (2): 345-53. doi: 10.1177/0363546514559707

Simon CB, Coronado RA, Greenfield WH 3rd, Valencia C, Wright TW, Moser MW, Farmer KW, George SZ. Predicting Pain and Disability after Shoulder Arthroscopy: Rotator Cuff Tear Severity and Concomitant Arthroscopic Procedures. *Clin J Pain.* 2015 Jun 18.

Zeppieri G, Lentz TA, Moser MW, and Farmer KW. Changes in Hip Range of Motion and Strength in Collegiate Baseball Pitchers over the Course of a Competitive Season: A Pilot Study. *The International Journal of Sports Physical Therapy.* 2015 Aug; (10)4: pp. 1-9.

Simon CB, Riley JL 3rd, Coronado RA, Valencia C, Wright TW, Moser MW, Farmer KW, George SZ. Older Age as a Prognostic Factor of Attenuated Pain Recovery After Shoulder Arthroscopy *PM R.* 2015 Sep 12. (15) pp: S1934-1482

Samitier G, Marcano AI, Alentorn-Geli E, Cugat R, Farmer KW, **Moser MW**. Failure of Anterior Cruciate Ligament Reconstruction. *Arch Bone Jt Surg.* 2015 Oct;3(4):220-40.

Lentz TA, George S, Zeppieri G, Moser MW, farmer KW, Tillman S, Chmielewski T. Pain intensity, pain catastrophizing, kinesiophobia and self-reported function in the first year following anterior cruciate ligament reconstruction. *The Journal of Pain.* 2014 April:15(4) pp: S4

Simon C, Coronado R, Greenfield III W, Wright TW, Moser MW, Farmer KW, George S. Shoulder pathology and surgical procedure are not predictive of post-surgical temporal summation of second pain. *The Journal of Pain.* 2014 April:15(4) pp: S5

Dubose D(f), Tillman S, Moser MW, Pass AN, Farmer KW, Herman DC, Clugston JR, and Chmielewski TL. *Paper*. Lower Extremity Strength Changes in Collegiate Football Players Following Concussion. American College of Sports Medicine Annual Meeting. Orlando, FL. May 27, 2014.

Moser MW, Farmer KW, Rossidis G, Perry A, Abbas H, Motamarry I, Lux T, Clugston J, Caban A, Ben-David K. Laparoscopic Hernia Repair with Adductor Tenotomy for Athletic Pubalgia: An established procedure for an obscure entity. *Surgical Endoscopy*. Accepted.

Chmielewski TL, Zeppieri G, Lentz, TA, Tillman SM, **Moser MW**, Indelicato PA, George SZ. Longitudinal Changes in Psychosocial Factors and there Association with Knee Pain and Function after ACL Reconstruction. *PTJ*, Accepted.

Hsieh CJ, Indelicato PA, Moser MW, Vandenborne K, Chmielewski TL. Speed, not magnitude, of knee extensor torque production is associated with self-reported knee function early after anterior cruciate ligament reconstruction. *Knee Surg Sports Traumatol Arthrosc* 2014 Jul 16.

Farmer KW, Uribe JW, **Moser MW**, Conrad BC, Yagnik GP, Wright TW. Glenoid Fracture after Arthroscopic Bankart Repair: Case Series and Biomechanical Analysis. *J Surg Adv Orthop*, 23(3): 155-161, 2014.

Chiemlewski TL, Martin CS, Tillman S, **Moser MW**, Farmer KW, and Lentz TA. Normalization Considerations for Using the Unilateral Seated Shot Put Test in Rehabilitation. *J Orthop Sports Phys Ther* Jul 2014; 44 (7): 518-24.

Valencia C, Fillingim RB, Bishop M, Wu SS, Wright TW, Moser M, Farmer K, George SZ. Investigation of central pain processing in postoperative shoulder pain and disability. *Clin J Pain*. 2014 Sep;30(9):775-86.

Jones D, Tillman SM, Tofte K, Mizner RL, Greenberg S, Moser MW, Farmer KW, Chmielewski TL. Observational ratings of frontal plane knee position are related to the frontal plane projection angle but not the knee abduction angle during a step-down task. *J Orthop Sports Phys Ther*. 2014 Dec; 44 (12): 973-8. doi: 10.2519/jospt.2014.4960

Farmer KW, Kenney N(r), Moser MW, and Conrad B. 2013. Biomechanical Qualities of Small Size Hamstring Grafts: How Small is Too Small?. *Arthroscopy The Journal of Arthroscopic and Related Surgery*. 29/10: e145-e146.

Lentz TA, Zeppieri G Jr, Tillman SM, Indelicato PA, Moser MW, George SZ, Chmielewski TL. Return to preinjury sports participation following anterior cruciate ligament reconstruction: contributions of demographic, knee impairment, and self-report measures. *J Orthop Sports Phys Ther*. 2012 Nov; 42 (11): 893-901. Doi: 10.2519/jospt.2012.4077. 2012 Aug 2.

Chmielewski TL, Trumble TN, Joseph AM, Shuster J, Indelicato PA, Moser MW, Cicuttini FM, Leeuwenburgh C. Urinary CTX-II concentrations are elevated and associated with knee pain and function in subjects with ACL reconstruction. *Osteoarthritis Cartilage*. 2012 Nov; 20 (11): 1294-301 doi: 10.1016/j.joca.2012.07.014 2012 Aug 2.

Zeppieri G Jr, Lentz TA, Atchison JW, Indelicato PA, Moser MW, Vincent KR, George SZ. Preliminary results of patient-defined success criteria for individuals with musculoskeletal pain in outpatient physical therapy settings. *Arch Phys Med Rehabil*. 2012 Mar; 93 (3): 434-40. doi: 10.1016/j.apmr.2011.10.007 2012 Jan 24.

Tighe PJ, Brennan M, Moser M, Boezaart AP, Bihorac A. Primary Payer Status Is Associated with the use of Nerve Block Placement for Ambulatory Orthopedic Surgery. *Regional Anesthesia and Pain Medicine* 2012; 00(00):1-8.

Wright TW, Moser MW, Sahajpal DT. Hook of Hamate Pull Test. *Surgical Technique* 2010; 35A 1887-1889.

Lentz TA, Tillman SM, Indelicato PA, **Moser MW**, George SZ, Chmielewski TL. Factors associated with function after anterior cruciate ligament reconstruction. *Sports Health: A Multi-disciplinary Approach* 2009; 1(1):47-53.

Clark JC¹, Rueff DE¹, Indelicato PA, **Moser MW**. Primary ACL Reconstruction Using Allograft Tissue. *Clin Sports Med*, 28 (2009) 223-244.

Nishinaka N², Tsutsui H², Mihara K², Suzuki K², Makiuchi D², Kon Y², Wright TW, **Moser MW** Gamada K, Sugimoto H, Banks SA. Determination of in-vivo glenohumeral translation using fluoroscopy and shape matching techniques. *J Shoulder Elbow Surg*, 17(2):319-322 2008.

George SZ, Wallace MR, Wright TW, **Moser MW**, Greenfield WH, Sack BK, Herbstman DM, Fillingim RB. Evidence for a biopsychosocial influence on shoulder pain: pain catastrophizing and catechol-o-methyltransferase (COMT) diplotype predict clinical pain ratings. *Pain*, 136(1):53-61 2008.

Moser MW, Jablonski MJ, Horodyski MB, Wright TW. Functional Outcome of Surgically Treated Massive Rotator Cuff Tears: A Comparison of Complete Repair, Partial Repair, and Debridement; *Orthopedics* 30:6 479-82, 6/2007.

Moser MW, Dugas J, Hartzell J¹, Thornton DD. A Hypermobil Wrisberg Variant Lateral Discoid Meniscus seen on MRI. *Clin Orthop Relat Res*. 2007 Mar;456:264-7.

Wilk KE, Reinold MM, Dugas JR, Arrigo CA, Moser MW, Andrews JR: Current Concepts in the Recognition and Treatment of Superior Labral (SLAP) Lesions; *Journal*

¹ Resident

² Post-doc

of Orthopaedic & Sports Medicine Physical Therapy 35:273-291, 2005.

g. Non-refereed Publications: None

h. Bibliographies/Catalogs: None

i. Abstracts:

Storey TF, Freeman JD, Alvi FI, Farmer KW, Moser MW. Posterior Oblique Ligament: A Pitfall for Posterior Horn Medial Meniscal Tears on Magnetic Resonance Imaging (MRI) of the Knee in Patients with Medial Collateral Ligament Injury? Society of Skeletal Radiology, San Diego, 2014. Presented by Troy Storey.

Dominguez J, Tillman S, Conrad B, Moser M, Bishop M, Chmielewski T. Effects of Plyometric Training Intensity on Symmetry of Landing Mechanics During a Drop Vertical Jump Following ACL Reconstruction. APTA Combined Sections Meeting 2014, Las Vegas, Nevada, February 2014. Presented by Jose Dominguez.

Lentz T, Zeppieri G, Moser M, Farmer K, Tillman S, George S, Chmielewski T. Derivation of a Prognostic Test-Item Cluster for Return to Sport Participation Status 1 Year Following ACL Reconstruction. APTA Combined Sections Meeting 2014, Las Vegas, Nevada, February 2014. Presented by Trevor Lentz.

Lentz T, Zeppieri G, Moser M, Farmer K, Tillman S, George S, Chmielewski T. First Year Recovery Patterns Differ Among Return to Sport Status Groups Following ACL Reconstruction. APTA Combined Sections Meeting 2014, Las Vegas, Nevada, February 2014. Presented by Trevor Lentz.

Zeppieri G, Lentz T, Moser M, Zaremski JL, Chmielewski T, Barrett J, Tillman S, and Farmer KW. Pre-Season Shoulder Range of Motion and Relationship to Lower Extremity Injury Throughout The Season in D1 Baseball Pitchers. *Clinical Journal of Sports Medicine*. Abstracted 2013.

Zeppieri G, Moser MW, Farmer KW, George S. Patient Defined Criteria for Successful, Expected, and Desired Outcomes following Outpatient Physical Therapy. APTA Combined Sections Meeting 2013, San Diego, California, January 2013. Presented by Giorgio Zeppieri.

Zeppieri Jr. G, Lentz TA, Atchison JW, Indelicato PA, Moser MW, Vincent KR, George SZ. Preliminary Results of Patient-Defined Success Criteria for Individuals with Musculoskeletal Pain in Outpatient Physical Therapy Settings. *Archives of Physical Medicine and Rehabilitation*. Accepted.

Lentz TA, Tillman SM, Moser MW, Indelicato PA, George SZ, Chmielewski TL. Clinical Factors that Differ Between Return to Sport Status Groups in Patients with ACL Reconstruction. *J Orthop Sports Phys Ther* 2009; 39(1): A102.

Dunn JC, Tillman SM, Lentz TA, Indelicato PA, Moser MW, Chmielewski TL. What

impairments in football players contribute to poor movement patterns during functional movement analysis? *Journal of Athletic Training*, 43 (3), S-136, 2008.

Chmielewski TL, Tillman SM, Dunn JC, Lentz TA, George SZ, Indelicato PA, **Moser MW**. Elevated kinesiophobia in football players is associated with altered movement during a jump-landing task. *Journal of Athletic Training*, 43 (3), S-29, 2008.

Lentz TA, Tillman SM, **Moser MW**, Indelicato PA, George SZ, Chmielewski TL. Identifying Impairments that Predict Function: A Preliminary Step in Developing Return-To-Sport Guidelines for ACL Reconstruction. *J Ortho Sports Phys Ther* 2008, 38(1): A71.

Chmielewski TL, Day T, Tillman SM, **Moser MW**, George SZ: Fear of Reinjury is a Potential Factor in Functional Outcome After Anterior Cruciate Ligament Reconstruction; *Journal Orthopaedics & Sports Medicine Physical Therapy* 37:A74, 2007.

j. Reviews: None

k. Miscellaneous: None

LECUTRES, SPEECHES OR POSTERS PRESENTED AT PROFESSIONAL CONFERENCES/MEETINGS

International Invited Moderator

Concurrent SessionB: Scientific Session – Elbow and Throwing Elbow. American Orthopaedic Society for Sports Medicine. Baltimore, Maryland, July 2012. Moderator.

International Invited Speaker

The Throwing Shoulder Diagnosis and Treatment. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Oslo, Norway, May 2006. Speaker.

Overview of the Thrower’s Shoulder: Theory, Thoughts, and Treatment. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Oslo, Norway, May 2006. Speaker.

The Throwing Shoulder Diagnosis and Treatment. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, London, England, May 2006. Speaker.

Treating Elbow Pathology in the Overhead Athlete. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Sint Maartenskliniek, Nijmegen, Holland, May 2006. Speaker.

The Throwing Shoulder Diagnosis and Treatment. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Amsterdam, Holland, May 2006. Speaker.

Valgus Extension Overload in the Overhead Athlete. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Aalst, Belgium, May 2006. Speaker.

The Throwing Shoulder Diagnosis and Treatment. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Lyon, France, May 2006. Speaker.

Treating Elbow Pathology in the Overhead Athlete. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Geneva, Switzerland, May 2006. Speaker.

The Throwing Shoulder Diagnosis and Treatment. American Orthopaedic Society for Sports Medicine Traveling Fellowship Program, Milan, Italy, May 2006. Speaker.

Valgus Extension Overload in the Overhead Athlete. Magellan Society Meeting, Kitzbuhel, Austria, May 2006. Speaker.

International Invited Papers Presented

Age differences in experimental pain sensitivity for pre-operative shoulder patients. IASP World Congress, Milan, Italy, August 2012. Submitted

Biopsychosocial influence on shoulder pain: preliminary findings from a post-operative cohort. IASP World Congress, Milan, Italy, August 2012. Submitted.

Standart Izonkinetik Degerlendirme 30° Diz Fleksiyonundaki Degerleri Yansitir Mi? *Ulusal Spor Hekimligi Kongresi*, Antalya, Turkey, August 2007. Presented by Dr. MaryBeth Horodyski. (Translation: Reassessing Standard Isokinetic Evaluation of the Knee at 30° Flexion)

ACL Rekonstruksiyonu Yapilmis Hastalarin Izokinetik Degerlendirmesi: Kuadriseps Kuvvetlendirme Egzersizlerini Unuttuk Mu? *Ulusal Spor Hekimligi Kongresi*, Antalya, Turkey, August 2007. Presented by Dr. MaryBeth Horodyski (Translation: Isokinetic evaluation for the ACL reconstructed patient: Did we forget strengthening exercises for the Quadriceps?)

Bilateral differences of 3-D motion in ACL deficit and ACL reconstructed knees. The International Society of Biomechanics XXI Congress, Taipei, Taiwan, July 2007. Presented by Dr. Nigel Zheng.

Three Dimensional Knee Joint Motion of ACL Deficit and Reconstructed Knees during Daily Activities. The WACBE 2007 World Congress on Bioengineering, Bangkok, Thailand, July 2007. Presented by Dr. Nigel Zheng.

Rotational laxity of ACL deficit and reconstructed knees. International Symposium on Ligament and Tendons VII, San Diego, California, February 2007. Presented by Dr. Nigel Zheng.

Determination of In-Vivo Glenohumeral Translation during Loaded and Unloaded Arm Elevation. Japan Shoulder Society Meeting, Tokyo, Japan, September 29-30, 2006. Presented by Dr. Nishinaka.

National Invited Organizer and Speaker

Shoulder Instability: Clinical Reasoning Based on Current Research. The Athletic Shoulder and Knee: Returning the Elite Athlete Back to the Sport. Gainesville, Florida, April, 2009. Speaker.

Problem Solving the Athletic Shoulder. The Athletic Shoulder and Knee: Returning the Elite Athlete Back to the Sport. Gainesville, Florida, July, 2007. Speaker.

National Invited Narrator

Surgical Dissection and Anatomical Study of the Shoulder. The Athletic Shoulder and Knee: Returning the Elite Athlete Back to Sport, Orthopaedic and Sports Medicine Institute Arthroscopy Laboratory, Gainesville, Florida, April 2009. Narrator.

Surgical Dissection and Anatomical Study of the Shoulder. The Athletic Shoulder and Knee: Returning the Elite Athlete Back to Sport, Orthopaedic and Sports Medicine Institute Arthroscopy Laboratory, Gainesville, Florida, July 2007. Narrator.

National Invited Moderator

Treatment of Femuroacetabular Impingement. Chicago Hip Faculty Forum. Chicago, Illinois May 2015

Difficult Shoulder. Arthrex Fellows Symposium. Naples, Florida, June 2011. Moderator.

National Invited Speaker

Rotator Cuff Evaluation, Repair & Rehab: Where Are We Now? Physician Assistants in Orthopaedic Surgery. Orlando, Florida, October 2014. Speaker.

AC Joint Injuries: Fix it or Leave it Alone? Physician Assistants in Orthopaedic Surgery. Orlando, Florida, October 2014. Speaker.

Treatment of Posterior Collateral Ligament Injuries. Arthrex Fellows Symposium. Naples, Florida, June 2011. Speaker

Lower Extremity Surgical Issues for the Injured Runner. The Running Medicine Clinic. Gainesville, Florida, February 11-12, 2010. Speaker.

Mechanism and Etiology of Rotator Cuff Tears in Athletes. APTA Team Concepts Meeting, Orlando, Florida, December 4-6, 2008. Speaker.

Socratic Debate: Early (4-6 weeks) vs. Late (10 weeks) Strengthening following Rotator Cuff Repair. APTA Team Concepts Meeting, Orlando, Florida, December 4-6, 2008. Speaker.

Anterior Instability; Non-Operative or Operative Treatment for First Time Dislocators. APTA Team Concepts Meeting, Orlando, Florida, December 4-6, 2008. Speaker.

Management of Massive Rotator Cuff Tears. Teton Hand Meeting, Jackson Hole, Wyoming,

January 2008. Speaker.

Management of the Distal Biceps Rupture. Teton Hand Meeting, Jackson Hole, Wyoming, January 2008. Speaker.

The Anatomy of the Shoulder Dissection. 25th Annual Injuries in Baseball Course. Birmingham, Alabama, January 25-28, 2007. Speaker.

Evaluation of Shoulder Instability. 4th Annual Teton Hand and Upper Extremity Conference, Jackson Hole, Wyoming, January 3-6, 2007. Speaker.

UCL Reconstruction. 4th Annual Teton Hand and Upper Extremity Conference, Jackson Hole, Wyoming, January 3-6, 2007. Speaker.

Radiographic Evaluation of the Elbow. 4th Annual Teton Hand and Upper Extremity Conference, Jackson Hole, Wyoming, January 3-6, 2007. Speaker.

Functional Anatomy of the Rotator Cuff. American Physical Therapy Association Team Concepts Course, Las Vegas, Nevada, December 2004. Speaker.

Diagnosis and Physical Exam of the Rotator Cuff. American Physical Therapy Association Team Concepts Course, Las Vegas, Nevada, December 2004. Speaker.

The Role of Instability in Rotator Cuff Pathology. American Physical Therapy Association Team Concepts Course, Las Vegas, Nevada, December 2004. Speaker.

Socratic Debate: Open Versus Closed Rotator Cuff Repair. American Physical Therapy Association Team Concepts Course, Las Vegas, Nevada, December 2004. Speaker.

Evaluation and Treatment of Medial Sided Elbow Pathology in Overhead Athletes. 9th Annual Notre Dame Orthopedic Symposium, South Bend, Indiana, October 2004. Speaker.

National Invited Papers Presented

Pre-season Shoulder Range of Motion and Relationship to Lower Extremity Injury throughout the season in Division I Baseball Pitchers. American Medical Society for Sports Medicine, San Diego, CA, April 2013. Presented by Dr. Jason Zaremski.

Activity Following ACL Reconstruction: What Do Patients Fear? American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 2012. Presented by Trevor Lentz.

Effect of Plyometric Exercise Intensity on Knee Function and Articular Cartilage Biomarkers in Patients with ACL Reconstruction. American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 2012. Presented by Stephen George.

Psychosocial factors following ACL reconstruction: Do they contribute to knee impairments?

American Physical Therapy Association Combined Sections Meeting, Chicago, IL, February 2012. Presented by Trevor Lentz.

Comparison of quadriceps strength and voluntary activation between limbs after traumatic meniscal tear. American Physical Therapy Association Combined Sections Meeting. New Orleans, Louisiana, February 2011. Presented by Terri Chmielewski.

Patient Defined Success Criteria in Outpatient Physical Therapy Settings. American Physical Therapy Association Combined Sections Meeting, New Orleans, Louisiana, February 2011. Presented by Stephen George.

Evaluation of a Model-Based Gait Retraining Method for Knee Osteoarthritis Rehabilitation. Gait and Clinical Movement Analysis Society Conference, Bethesda, Maryland, April 2011. Presented by Dr. BJ Fregly.

Fear of Re-injury/Low Confidence 1 Year after ACL Reconstruction: High Prevalence and Altered Self-ratings. 2011 APTA Combined Sports Medicine Meeting, New Orleans, Louisiana, February 2011. Presented by Trevor Lentz.

Scapular Movement in Asymptomatic Shoulder – In Vivo Kinematic Analysis of the Shoulder Using Model-Based 3D-to-2D Registration. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, California, March 2-5, 2008. Presented by Dr. Scott Banks.

Determination of In-Vivo Acromiohumeral Interval during Loaded and Unloaded Arm Evaluation. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, California, March 2-5, 2008. Presented by Dr. Scott Banks.

The Glenoid Bare Spot: An Ontologic Hypothesis Based on Measured In vivo Glenohumeral Translations. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, California, March 2008. Presented by Dr. Scott Banks.

Three-dimensional Stability of Rotational Axes in ACL-Reconstructed Knees during Daily Activities. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, California, March 2008. Presented by Nigel Zheng.

3D Joint Loading of ACL Deficient and Reconstructed Knees during Daily Activities. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, California, March 2008. Presented by Nigel Zheng.

Identifying Impairments that Predict Function: A Preliminary Step in Developing Return-To-Play Guideline for ACL Reconstruction. CSM, Nashville, Tennessee, February 2008. Presented by Trevor Lentz.

Biopsychosocial Fracture's Influence on Shoulder Pain. Annual American Association Orthopaedic Society, San Francisco, California, March 2008. Presenter.

3-D Joint Motion of ACL Deficit and Reconstructed Knees during Daily Activities. The American Society of Biomechanics Annual Meeting, Stanford, California, August 2007. Presented by Dr. Nigel Zheng.

Three dimensional knee joint motion of ACL deficit and reconstructed knees. Orthopaedic Research Society 53rd Annual Meeting, San Diego, California, February 2007. Presented by Dr. Nigel Zheng.

Determination of In-Vivo Glenohumeral Translation During Loaded and Unloaded Arm Evaluation. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007. Presented by Dr. Scott Banks.

The influence of Hand-Held Weight on the Scapulohumeral Rhythm. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007. Presented by Dr. Scott Banks.

National Invited Poster Presentations

Zeppieri G, Davis K, Moser MW, Farmer KW, George S. The Relationship Between Psychosocial Risk Factors And Playing Time Lost Due To Musculoskeletal Dysfunction In College Softball Athletes: A Pilot Study. Sports Physical Therapy: Biomechanics for CSM 2017 in San Antonio, TX

Zaremski JL, McClelland JI, Vincent HK, Vincent KR, Herman DC, Smith MS, Prine BR, Farmer KW, Moser MW, Horodyski MB. Sports-Related Elbow Ulnar Collateral Ligament Injury in the 21st Century. *Br J Sports Med* 2017;**51**:4 412. doi:10.1136/bjsports-2016-097372.324.

Storey TF, Freeman JD, Alvi FI, Farmer KW, Moser MW. Posterior Oblique Ligament: A Pitfall for Posterior Horn Medial Meniscal Tears on Magnetic Resonance Imaging (MRI) of the Knee in Patients with Medial Collateral Ligament Injury? Society of Skeletal Radiology, San Diego, 2014. Presented by Troy Storey.

Lentz TA, George SZ, Zeppieri G, Moser MW, Farmer KW, Tillman SM, Chmielewski TL. Pain Intensity, Pain Catastrophizing, Kinesiophobia and Self-Reported Function in the First Year Following ACL Reconstruction. American Pain Society Annual Meeting. April 30-May 1 2014. Tampa, Florida.

Dominguez J, Tillman S, Conrad B, Moser M, Bishop M, Chmielewski T. Effects of Plyometric Training Intensity on Symmetry of Landing Mechanics During a Drop Vertical Jump Following ACL Reconstruction. APTA Combined Sections Meeting 2014, Las Vegas, Nevada, February 2014. Presented by Jose Dominguez.

Lentz T, Zeppieri G, Moser M, Farmer K, Tillman S, George S, Chmielewski T. Derivation of a Prognostic Test-Item Cluster for Return to Sport Participation Status 1 Year Following ACL

Reconstruction. APTA Combined Sections Meeting 2014, Las Vegas, Nevada, February 2014. Presented by Trevor Lentz.

Lentz T, Zeppieri G, Moser M, Farmer K, Tillman S, George S, Chmielewski T. First Year Recovery Patterns Differ Among Return to Sport Status Groups Following ACL Reconstruction. APTA Combined Sections Meeting 2014, Las Vegas, Nevada, February 2014. Presented by Trevor Lentz.

Changes in Lower Extremity Biomechanics During Single-Limb Forward Land Following Concussion in Collegiate Football Players. National Athletic Trainers Association, Las Vegas, NV, June 2013. Presented by Dominique DuBose.

Zaremski J, Farmer KW, Moser MW, Zeppieri G, Lentz TA, Chmielewski T, Barrett J. Adaptions of Hip Range of Motion and Relationship to Workload in Division I Collegiate Baseball Pitchers. American Medical Society for Sports Medicine 22nd Annual Meeting. April 17- 21, 2013. San Diego, CA.

Zeppieri G, Lentz T, Moser M, Zaremski JL, Chmielewski T, Barrett J, Tillman S, Farmer K. Pre-season Shoulder Range of Motion and Relationship to Lower Extremity Injury throughout the season in Division I Baseball Pitchers. AMSSM 22nd Annual Meeting. April 17-21, 2013. San Diego, CA.

Zeppieri G, Moser MW, Farmer KW, George S. Patient Defined Criteria for Successful, Expected, and Desired Outcomes following Outpatient Physical Therapy. APTA Combined Sections Meeting 2013, San Diego, California, January 2013. Presented by Giorgio Zeppieri.

Association of Psychosocial Factors and Knee Pain with Knee Function from Pre to Post Meniscectomy. APTA Combined Sections Meeting 2013, San Diego, California, January 2013. Presented by Chao-Jung Hsieh.

Chmielewski TL, Trumble TN, Joseph AM, Shuster J, Indelicato PA, Moser MW, Cicuttini FM, Leeuwenburgh C. Urinary CTX-II concentrations are elevated and associated with knee pain and function in subjects with ACL reconstruction. Osteoarthritis Cartilage. 2012 Nov

Development of a Clinical Prediction Rule for Return to Sport Status One Year following Anterior Cruciate Ligament Reconstruction. American Orthopaedic Surgeon Sports Medicine, Providence, Rhode Island, July 2010. Presented by Trevor Lentz.

Tibial fixation of bone-patella tendon-bone grafts in ACL reconstruction by bovine screws tested using simulated gait-a cadaver study. Orthopaedic Research Society 53rd Annual Meeting, San Diego, California, February 2007. Presented by Dr. Nigel Zheng.

Evidence for biopsychosocial influence on shoulder pain. 26th Annual Scientific Meeting of the American Pain Society, Washington, DC, May 2-5, 2007. Presented by Dr. Steven George.

Regional Invited Organizer and Speaker

Treatment of Elbow Pathology in Throwing Athletes. Florida Orthopaedic Society Meeting, Orlando, Florida, May 18-20, 2007. Speaker.

Regional Invited Speaker

Portal Placement and Diagnostic Hip Arthroscopy. Naples Hip Arthroscopy Course, Naples, FL, January 2017. Speaker.

Fundamentals of Hip Arthroscopy. Naples Sea Pearl Hip Lab, Naples, FL, January 2017. Speaker.

Surgical Treatment of Rotator Cuff Tears. Naples Physician Assistant Course, Naples, FL, May 2016. Speaker.

Modern Techniques of ACL Reconstruction. Naples Physician Assistant Course, Naples, FL, May 2016. Speaker.

Treatment of Anterior Shoulder Instability. Naples Physician Assistant Course, Naples, FL, November 2015. Speaker.

Current Treatment of PCL Injuries. Naples Physician Assistant Course, Naples, FL, November 2015. Speaker.

Treatment of Multi-Ligament Knee Injuries. Naples Sports Medicine Fellow Forum, Naples, FL, June 2015. Speaker.

Current Trends in Rotator Cuff Repair. Naples Physician Assistant Course, Naples, FL, April 2015. Speaker.

Current Trends in ACL Reconstruction. Naples Physician Assistant Course, Naples, FL, April 2015. Speaker.

Treatment of Hip Labral Tears. Naples Hip Arthroscopy, Naples, FL, January 2015. Speaker.

Surgical Treatment of Shoulder Instability. Naples Physician Assistant Course, Naples, FL, November 2014. Speaker.

Hip Assessment and Surgical Management. Athletic Trainer's Association of Florida Annual Meeting, Orlando, Florida, July 2014. Speaker.

Diagnostic Hip Arthroscopy and Partial Placement. Naples Hip Arthroscopy, Naples, FL, June 2014. Speaker

Multiligament Injuries. 5th Annual Sports Medicine Fellowship Completion Forum. Arthrex, Inc., Naples, Florida, May 2014. Speaker

Current Trends in Hip Labral Repair. Naples Hip Lab, Naples, FL, May 2014. Speaker.

Surgical Treatment of Rotator Cuff Repair. Naples Physician Assistant Course, Naples, FL, January 2014. Speaker.

Treatment of Femuroacetabular Impingement. Naples Hip Arthroscopy Course, Naples, FL, October 2013. Speaker.

Treatment of Femuroacetabular Impingement. Naples Hip Arthroscopy Course, Naples, FL, September 2013. Speaker.

Diagnosing and Treating Hip Labral Tears. Naples Hip Arthroscopy Course, Naples, FL, August 2013. Speaker.

Diagnostic Hip Arthroscopy. Naples Hip Arthroscopy Course, Naples, FL, April 2013. Speaker.

Update on Allograft Use in Knee Ligament Reconstruction. Southern At The SEC. Nashville, TN, March 2013. Speaker.

Treatment of Femuroacetabular Impingement. Naples Hip Arthroscopy Course, Naples, FL, January 2013. Speaker.

Diagnostic Hip Arthroscopy and Labral Repair. Naples Hip Arthroscopy Course, Naples, FL, September 2012. Speaker.

Treatment of Hip Labral Tears. Naples Hip Arthroscopy Course, Naples, FL, April 2012. Speaker.

Diagnostic Hip Arthroscopy and Partial Placement. Naples Hip Arthroscopy, Naples, FL, February 2012. Speaker.

Management of Anterior Shoulder Instability. Southeast Shoulder Surgeons Symposium, Naples, Florida, May 2009. Speaker.

Treatment of Superior/Posterior Labral Tears. SEC Physicians' Annual Meeting, Tampa, Florida, March 2009. Speaker.

Treatment of Lower Extremity Injuries in Running Athletes. Gainesville Sports Organizing Committee Five Points of Life Marathon Conference, Gainesville, FL, February 2006. Presentation.

Treatment of the Throwing Athlete's Shoulder and Elbow. University of Florida and Shands Baseball Seminar, Gainesville, FL, January 2006. Presentation.

Regional Lab Instructor

Lab Tutor for Pediatric ACL Reconstruction. Naples January SDL Faculty Support, Naples, FL, January 2017.

Lab Instructor for Knee/Shoulder Procedures. Naples Physician Assistant Course, Naples, FL, June 2016.

Lab Instructor: All Reconstruction and Shoulder Instability. Sports Medicine Fellowship Forum, Naples, FL, June 2016.

Lab Instructor of Shoulder and Knee Procedures. Naples Sports Medicine Fellows, Naples, FL, May 2014

Lab Instructor: Basic Shoulder and Knee Arthroscopy. Naples Sports Medicine Fellowship Forum, Naples, FL, June 2012.

Lab Instructor: All Reconstruction and Shoulder Labral Repair. Knee & Shoulder Lab – UF Surgical Skills Lab, FL, February 2012.

Local Lab Instructor

Lab Instructor on ACL Surgical Techniques. Team1 ACL Reconstruction, Gainesville, FL, June 2014.

Lab Instructor: Shoulder Labral Tears. Shoulder Lab at Gainesville Lab, Gainesville, FL, January 2013.

Local Invited Speaker and Lectures

Rotator Cuff Repair. University of Florida, Graduate Athletic Training Program, Gainesville, Florida, September 23, 2014. Lecture.

Anatomical and Surgical Considerations of the Shoulder. University of Florida, Gainesville, Florida, July 2014. Lecture

Treatment of Hip Injuries. University of Florida, Athletic Training Students. Gainesville, Florida, April 2011. Presentation

Orthopaedic Question & Answer Session. University of Florida, Orthopaedic Interest Group, Gainesville, Florida, April 28, 2009.

Common ACL Surgery Techniques. University of Florida, Athletic Training Program, Gainesville, Florida, February 27, 2007. Presentation.

Treatment of Knee Osteoarthritis in the Young Patient. Pfizer Round Table, Gainesville, Florida, March 2006. Presentation.

Understanding and treating rotator cuff disorders. Oak Hammock Conference, Gainesville, Florida, March 2006. Presentation.

History and Physical of Knee Injuries. University of Florida, Gainesville, Florida, January 2006. Lecture.

Evaluation of Acute Upper Extremity Injuries. University of Florida, Gainesville, Florida, September 2005. Lecture.

The Athletic Shoulder Returning to Sports. The Athletic Shoulder and Knee Seminar, Gainesville, Florida, August 2005. Speaker.

Management of Shoulder Instability in Athletes. University of Florida, Gainesville, Florida, March 2005. Lecture.

General Principles of the Orthopaedic History and Physical Exam. University of Florida, Gainesville, Florida, January 2005. Lecture.

Treatment of Shoulder Instability in Athletes. University of Florida, Gainesville, Florida, November 2004. Lecture.

Evaluation and Management of On-Field Neck Injuries. University of Florida, Gainesville, Florida, September 2004. Lecture.

Evaluation of Acute Upper Extremity Injuries. University of Florida, Gainesville, Florida, September 2004. Lecture.

CONTRACTS AND GRANTS**a. Funded Externally**

1. Name of Funding Agency: Omega
2. Project Title: Omega Residential Program – Arthroscopy Training
3. Role: Principal Investigator
4. Effective Dates: 07/01/09-06/30/10
5. Direct Costs: \$4,975
6. Indirect Costs: N/A
7. Total Award: \$4,975

1. Name of Funding Agency: NIH-NIAMS
2. Project Title: Biosychosocial influence on shoulder pain
3. Role: Co-Investigator
4. Effective Dates: 7/1/08 – 4/30/13
5. Direct Costs: \$1,292,831
6. Indirect Costs: \$1,123,675
7. Total Award: \$2,416,506

1. Name of Funding Agency: NIH K01 HD052713
2. Project Title: Muscle Weakness and Post-Traumatic Knee OA
3. Role: Co-Investigator
4. Effective Dates: 09/30/2007 – 08/31/2012
5. Direct Costs: \$109,010
6. Indirect Costs: \$94,747
7. Total Award: \$203,757

1. Name of Funding Agency: Omeros Corporation
2. Project Title: Double-Blind, Multicenter Phase 3 Study Comparing the Efficacy and Safety of OMS103HP with Vehicle in Patients Undergoing Autograft ACL Reconstruction
3. Role: Principal Investigator
4. Effective Dates: 04/14/2005 – 04/22/2009
5. Direct Costs: \$139,345
6. Indirect Costs: \$46,448
7. Total Award: \$185,793

1. Name of Funding Agency: Omeros Corporation
2. Project Title: Double-Blind, Multicenter Phase 3 Study Comparing the Efficacy and Safety of OMS103HP with Vehicle in Patients Undergoing Allograft ACL Reconstruction
3. Role: Co-Investigator
4. Effective Dates: 01/18/2005 – 01/07/2009
5. Direct Costs: \$167,830
6. Indirect Costs: \$55,943
7. Total Award: \$223,773

1. Name of Funding Agency: NIH - NICHD
2. Project Title: Real-Time Model-Based Gait Retraining for Knee Osteoarthritis Rehabilitation
3. Role: Co-Investigator
4. Effective Dates: 09/12/2007 – 08/31/2009
5. Direct Costs: \$203,754
6. Indirect Costs: \$177,095
7. Total Award: \$380,849

1. Name of Funding Agency: NFL Charities
2. Project Title: The Effect of Plyometric Exercise Intensity on Function & Articular Cartilage Metabolism after ACL Reconstruction
3. Role: Co-Investigator
4. Effective Dates: 07/01/2007 – 06/30/2009
5. Direct Costs: \$112,500
6. Indirect Costs: \$12,500
7. Total Award: \$125,000

b. Funded Internally – None

c. Submitted, Pending Decision – None

d. Submitted but Not Funded

1. Date of Submission: 4/27/2009
2. Project Title: Personalized Orthopaedics Using Dynamic Quantitative Imaging and Treatment Planning
3. Amount of Proposal: \$1,000,000
4. Name of Funding Agency: NIH
5. Role: Co-Investigator
6. Status: Not funded

1. Date of Submission: 02/23/2006
2. Project Title: In Vivo Shoulder Kinematics Using a Single-Plane Shape-Matching Technique: Comparison of Shoulder Kinematics Associated with Normal Shoulder and Rotator Cuff Tear
3. Amount of Proposal: \$50,000
4. Name of Funding Agency: Pfizer in SCOPE Orthopedic Fellowship Awards
5. Role: Clinical Mentor
6. Status: Not funded

1. Date of Submission: 10/24/2005
2. Project Title: Quadriceps Strength and Meniscectomy Outcomes
3. Amount of Proposal: \$218,250
4. Name of Funding Agency: National Institutes of Health - NIAMS
5. Role: Co-Principal Investigator
6. Status: Not funded

1. Date of Submission: 10/01/2005
2. Project Title: Quadriceps Weakness and the Development of Post-Traumatic Knee OA
3. Amount of Proposal: \$100,000
4. Name of Funding Agency: Orthopaedic Research and Education Foundation
5. Role: Co-Principal Investigator
6. Status: Not funded

1. Date of Submission: 09/15/2005
2. Project Title: Posterior Capsular Contracture of the Shoulder: Does it lead to Impingement and SLAP Tears?
3. Amount of Proposal: Attendance at Young Clinical Investigators Workshop Program (\$0)
4. Name of Funding Agency: US Bone and Joint Decade - Young Clinical Investigators Workshop Program
5. Role: Principal Investigator
6. Status: Not funded

1. Date of Submission: 09/01/2005
2. Project Title: Reduced Quadriceps Strength Contribute to OA Post-Meniscectomy
3. Amount of Proposal: \$106,894
4. Name of Funding Agency: Arthritis Foundation
5. Role: Co-Principal Investigator
6. Status: Not funded

PATENTS AND COPYRIGHTS PENDING:

Shoulder labral anchor delivery system. US Provisional Application # 60/883,633, January 5, 2007.