

# MARC F. NORCROSS, PhD, ATC

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## EDUCATION

### **The University of North Carolina at Chapel Hill, Chapel Hill, NC**

Doctor of Philosophy in Human Movement Science, Biomechanics Concentration (May 2011)  
School of Medicine, Division of Allied Health Sciences, Program in Human Movement Science  
*Energetic Analysis of Landing: A Novel Approach to Understanding Anterior Cruciate Ligament Injuries*  
(Chair: J. Troy Blackburn, PhD, ATC)

### **The University of North Carolina at Chapel Hill, Chapel Hill, NC**

Master of Arts in Exercise and Sport Science, Athletic Training Specialization (August 2003)  
College of Arts and Sciences, Department of Exercise and Sport Science  
*Effects of Electrical Stimulating Currents on Pain Perception, Plasma Cortisol, and Plasma  $\beta$ -endorphin in Experimentally Induced DOMS*  
(Chair: Kevin M. Guskiewicz, PhD, ATC)

### **Boston University, Boston, MA**

Bachelor of Science in Athletic Training, *Cum Laude* (May 2001)  
Sargent College of Health and Rehabilitation Sciences, Department of Physical Therapy and Athletic Training (CAAHEP Accredited Athletic Training Program)

## CURRICULUM & ADMINISTRATIVE APPOINTMENTS

### **Athletic Training and Kinesiology (formerly Exercise and Sport Science) Programs, School of Biological and Population Health Sciences, College of Public Health and Human Sciences, Oregon State University**

*Associate Professor (with tenure)*, September 16, 2017 –  
*Director (formerly Coordinator)*, Kinesiology Graduate Program, March 2016 –  
*Assistant Professor*, September 16, 2011 – 2017

### **Department of Exercise and Sport Science, College of Arts and Sciences, The University of North Carolina at Chapel Hill**

*Teaching and Research Assistant* (August 2007 – May 2011)

## OTHER TEACHING & RELATED PROFESSIONAL EXPERIENCE

### **University of California, Los Angeles**

*Assistant Athletic Trainer*, Department of Intercollegiate Athletics (2003-2007)  
*Instructor*, UCLA Extension Program (2004-2007)

### **Loyola Marymount University**

*Lecturer*, Seaver College of Science and Engineering (2005-2007)

## RESEARCH EXPERIENCE

### **Oregon State University**

Director, Sports Injury Prevention Research Group (2018 - present)  
Research Associate, Biomechanics Laboratory (2011 - 2018)

**The University of North Carolina at Chapel Hill**

Research Associate, Neuromuscular Research Laboratory (2007 - 2011)

Research Associate, Sports Medicine Research Laboratory (2007 - 2011)

**SPECIAL HONORS, AWARDS, AND SCHOLARSHIPS**

- 2020 American Kinesiology Association Leadership Institute, *Fellow* (Mentor: Mary Rudisill)
- 2019 College of Public Health and Human Sciences *Dean's Unsung Hero Award*
- 2019 Guest Editor, Special Issue: *The Intersection of Athletic Training and Public Health*, Journal of Athletic Training, February 2019
- 2017 National Athletic Trainers' Association Research & Education Foundation *New Investigator Award Nominee*
- 2013 National Athletic Trainers' Association Research & Education Foundation *Doctoral Dissertation Award Nominee*
- 2013 National Athletic Trainers' Association Research & Education Foundation *Research Mentor Program* (Mentor: Sandra Shultz)
- 2012 National Athletic Trainers' Association Research & Education Foundation *Doctoral Dissertation Award Nominee*
- 2010 University of North Carolina at Chapel Hill Human Movement Science Curriculum *Louis and Eleanor Duquette Scholarship*
- 2008 National Athletic Trainers' Association Research & Education Foundation *Doctoral Scholarship*
- 2008 National Athletic Trainers' Association Research & Education Foundation *Free Communications Doctoral Oral Presentation Finalist*
- 2007 University of North Carolina at Chapel Hill *University Merit Assistantship*
- 2000 Boston University *Schepsis/Zimmer Most Outstanding Student Athletic Trainer*
- 1997-2001 Boston University *University Scholarship Recipient*

**SCHOLARSHIP**

**Refereed Journal Publications (39)**

Chang E, Johnson ST, Pollard CD, Hoffman MA, **Norcross MF**. Anterior cruciate ligament reconstructed females who pass or fail a functional test battery do not exhibit differences in knee joint landing biomechanics asymmetry before and after exercise. *Knee Surgery, Sports Traumatology, Arthroscopy*. [Epub ahead of print-September 2019] doi: 10.1007/s00167-019-05707-9.

Huang YL, Jung J, Mulligan CMS, Oh J, **Norcross MF**. A majority of ACL injuries can be prevented by using injury prevention programs: a systematic review of RCT and Cluster-RCT trials with meta-analysis. *American Journal of Sports Medicine*. [Epub ahead of print-August 2019] doi: 10.1177/0363546519870175.

Li T, Johnson ST, Koester MC, Hommel A, **Norcross MF**. (2019). The impact of high school athletic trainer services on medical payments and utilizations: a microsimulation analysis on medical claims. *Injury Epidemiology*. 6(15). doi:10.1186/s40621-019-0194.

Li T, **Norcross MF**, Johnson ST, Koester MC. (2019). Cost-benefit of hiring athletic trainers in Oregon high schools from 2011 to 2014. *Journal of Athletic Training*. 54(2), 165-169.

Chang E, Johnson ST, Pollard CD, Hoffman MA, **Norcross MF**. (2018). Landing biomechanics in anterior cruciate ligament reconstructed females who pass or fail a functional test battery. *The Knee*. 25(6), 1074-1082.

Pangelinan MM, **Norcross MF**, MacDonald M, Rudisill ME, Wadsworth D, McDonald J. (2018). Development, management, and evaluation of undergraduate experiential learning: Recommendations for best practices. *Kinesiology Review*. 7(4), 339-344.

Pollard CD, **Norcross MF**, Johnson ST, Stone AE, Chang E, Hoffman MA. (2018). A biomechanical comparison of dominant and non-dominant limbs during a side-step cutting task. *Sports Biomechanics*. [Epub ahead of print] doi: 10.1080/14763141.2018.1461236.

Hoffman MA, Doeringer JR, **Norcross MF**, Johnson ST, Chappell PE. (2018). Presynaptic inhibition decreases when estrogen level rises. *Scandinavian Journal of Medicine and Science in Sport*. 28(9), 2009-2015.

Pollard CD, Ter Har JA, Hannigan JJ, **Norcross MF**. (2018). Influence of maximal running shoes on biomechanics before and after a 5K run. *Orthopaedic Journal of Sports Medicine*. 6(6), 2325967118775720.

Hoffman MA, **Norcross MF**, Johnson ST. (2018). The Hoffman reflex is different in men and women. *NeuroReport*. 29(4), 314-316.

Morgan E, Johnson ST, Bovbjerg VE, **Norcross MF**. (2018). Associations between player age and club soccer coaches' perceptions of injury risk and lower extremity injury prevention program use. *International Journal of Sports Science & Coaching*. 13(1), 122-128.

Doeringer JR, Johnson ST, **Norcross MF**, Hoffman MA. (2018). Plyometric exercises from a knee anterior cruciate ligament prevention program on the rate of torque development and vertical jump height. *The Internet Journal of Allied Health Sciences and Practice*. 16(1), Article 6.

Mauntel TC, Cram TR, Frank BS, Begalle RL, **Norcross MF**, Blackburn JT, Padua DA. (2018). Kinematic and neuromuscular relationships between lower extremity clinical movement assessments. *Sports Biomechanics*. 17(2), 273-284.

Johnson ST, **Norcross MF**, Bovbjerg VE, Hoffman MA, Chang E, Koester MC. (2017). Sports-related emergency preparedness in Oregon high schools. *Sports Health: A Multidisciplinary Approach*. 9(2), 181-184.

**Norcross MF**, Johnson ST, Pollard CD, Chang E, Hoffman MA. (2017). Normalization influences group comparisons of knee abduction moment: Could it influence ACL-injury research, too? *Journal of Science and Medicine in Sport*. 20(4), 318-321.

Hoffman MA, Bovbjerg VE, Hannigan KS, Hootman JM, Johnson ST, Kucera KL, **Norcross MF**. (2016). Athletic Training and Public Health Summit. *Journal of Athletic Training*. 51(7), 576-580.

Doeringer JR, Johnson ST, **Norcross MF**, Hoffman MA. (2016). The effects of plyometric training on spinal and supraspinal motor control. *The Internet Journal of Allied Health Sciences and Practice*. 14(3), Article 3.

Cronin B, Johnson ST, Chang E, Pollard CD, **Norcross MF**. (2016). Greater hip extension but not hip abduction explosive strength is associated with lesser hip adduction and knee valgus motion during a single-leg jump-cut. *Orthopaedic Journal of Sports Medicine*. 4(4), 2325967116639578.

**Norcross MF**, Johnson ST, Bovbjerg VE, Koester MC, Hoffman MA. (2016). Factors influencing high school coaches' adoption of injury prevention programs. *Journal of Science and Medicine in Sport*. 19(4), 299-304.  
**Editor's Choice- July 2018**

Johnson ST, Kipp K, **Norcross MF**, Hoffman MA. (2015). Spinal and supraspinal motor control predictors of rate of torque development. *Scandinavian Journal of Medicine and Science in Sport*. 25(5), 623-629.

**Norcross MF**, Shultz SJ, Weinhold PS, Lewek MD, Padua DA, Blackburn JT. (2015). The influences of sex and posture on joint energetics during drop landings. *Scandinavian Journal of Medicine and Science in Sport*. 25(2), e166-e175.

Chang E, **Norcross MF**, Johnson ST, Kitagawa T, Hoffman MA. (2015). Relationships between explosive and maximal triple extensor muscle performance and vertical jump height. *Journal of Strength and Conditioning Research*. 29(2), 545-551.

Blackburn JT, **Norcross MF**. (2014). The effects of isometric and isotonic training on hamstring musculotendinous stiffness and anterior cruciate ligament loading mechanisms. *Journal of Electromyography and Kinesiology*. 24(1), 98-103.

**Norcross MF**, Lewek MD, Padua DA, Shultz SJ, Weinhold PS, Blackburn JT. (2013). Lower extremity energy absorption and biomechanics during landing. Part I: Sagittal plane energy analyses. *Journal of Athletic Training*. 48(6), 748-756.

**Norcross MF**, Lewek MD, Padua DA, Shultz SJ, Weinhold PS, Blackburn JT. (2013). Lower extremity energy absorption and biomechanics during landing. Part II: Frontal plane energy analyses and inter-planar relationships. *Journal of Athletic Training*. 48(6), 757-763.

Blackburn JT, **Norcross MF**, Cannon LN, Zinder SM. (2013). Hamstring stiffness and landing biomechanics linked to anterior cruciate ligament loading. *Journal of Athletic Training*. 48(6), 764-772.

Frank BS, Bell DR, **Norcross MF**, Blackburn JT, Goerger BM, Padua DA. (2013). The combined influence of trunk and hip biomechanics on ACL loading mechanisms in physically active males and females. *American Journal of Sports Medicine*. 41(11), 2676-2683.

Homan KJ, **Norcross MF**, Goerger BM, Prentice WE, Blackburn JT. (2013). The influence of hip strength on gluteal activity and lower extremity kinematics. *Journal of Electromyography and Kinesiology*. 23(2), 411-415.

Bell DR, Blackburn JT, **Norcross MF**, Ondrak KS, Hudson JD, Hackney AC, Padua DA. (2012). Estrogen and muscle stiffness have a negative relationship in females. *Knee Surgery, Sports Traumatology, Arthroscopy*. 20(2), 361-367.

Bell DR, Blackburn JT, Ondrak KS, Hackney AC, Hudson JD, **Norcross MF**, Padua DA. (2011). The effects of oral contraceptive use on muscle stiffness across the menstrual cycle. *Clinical Journal of Sports Medicine*. 21(6), 467-473.

Blackburn JT, **Norcross MF**, Padua DA. (2011). Influences of hamstring stiffness and strength on anterior knee joint stability. *Clinical Biomechanics*. 26(3), 278-283.

Kuenze CM, Blackburn JT, **Norcross MF**, Zinder SM. (2011). Effects of chronic ankle instability and induced fatigue on ankle stiffness. *Athletic Training & Sports Health Care*. 3(5), 211-217.

Fong C, Blackburn JT, **Norcross MF**, McGrath M, Padua DA. (2011). Restricted ankle dorsiflexion is associated with greater ground reaction forces and less knee flexion during landing. *Journal of Athletic Training*. 46(1), 5-10.

**Norcross MF**, Blackburn JT, Goerger BM, Padua DA. (2010). The association between lower extremity energy absorption and biomechanical factors related to anterior cruciate ligament injury. *Clinical Biomechanics*. 25(10), 1031-1036.

**Norcross MF**, Blackburn JT, Goerger BM. (2010). Reliability and interpretation of single leg stance and maximum voluntary isometric contraction methods of electromyography normalization. *Journal of Electromyography and Kinesiology*. 20(3), 420-425.

East MN, Blackburn JT, DiStefano LJ, Zinder SM, **Norcross MF**. (2010). Effects of fibular repositioning tape on ankle kinematics and muscle activity. *Athletic Training and Sports Health Care*. 2(3), 113-122.

**Norcross MF**, Halverson, SD, Hawkey TJ, Blackburn JT, Padua DA. (2009). Evaluation of the lateral step down test as a clinical assessment of hip musculature strength. *Athletic Training and Sports Health Care*. 1(6), 272-278.

Blackburn JT, Bell DR, **Norcross MF**, Hudson JD, Engstrom LA. (2009) Comparison of hamstring neuromechanical properties between healthy males and females and the influence of musculotendinous stiffness. *Journal of Electromyography and Kinesiology*. (19)5, e362-e369.

Blackburn JT, Bell DR, **Norcross MF**, Hudson JD, Kimsey MH. (2009). Sex comparison of hamstring structural and material properties. *Clinical Biomechanics*. 24(1), 65-70.

### **Manuscripts in Review (2)**

**Norcross MF**, Almog R, Huang YL, Chang E, Hannigan KS, Johnson ST. Greater explosive quadriceps strength is associated with greater knee flexion at initial contact during landing in healthy females. *Journal of Sports Sciences*. Submitted (December 17, 2019).

Hoffman MA, Crowell CB, Hannigan KS, **Norcross MF**, Johnson ST. Adopting a public health lens: One program's story. *Athletic Training Education Journal*. Requested to revise and re-submit (December 2, 2019).

### **Textbooks Edited (1)**

**Norcross MF**, Norcross EC. *Introduction to Injury Management for the Physically Active*. (A customized version of *Introduction to Athletic Training and Emergency Care in Sports* by Debbie I. Craig). Kendall Hunt, 2015.

### **Letters to the Editor (2)**

**Norcross MF**. (2019). Normalization influences knee abduction moment results: Could it influence ACL-injury research, too? Response to Letter to the Editor by Dr. Timothy E. Hewett. *Journal of Science and Medicine in Sport*. 22(8), 864-865.

Koester MC, Johnson ST, **Norcross MF**. (2018). State-Level implementation of health and safety policies to prevent sudden death and catastrophic injuries within secondary school athletics: Letter to the Editor. *Orthopaedic Journal of Sports Medicine*. 6(2), 2325967117752128.

### **Editorial (1)**

Hoffman MA, Johnson ST, **Norcross MF**. (2019). The intersection of athletic training and public health. *Journal of Athletic Training*. 54(2), 121.

### **Invited Articles (1)**

**Norcross MF**, Johnson SJ. (2017). The role of hip extensor strength during cutting. *Lower Extremity Review*. Available at: <http://lermagazine.com/article/the-role-of-hip-extensor-strength-during-cutting>.

### **Refereed Abstract Publications & Presentations (71)**

**Norcross MF**, Aukerman DA, Brown CN, Johnson ST. Incidence, severity, and burden of hip, groin, and thigh muscle injuries in Division I collegiate American football. 2020 International Olympic Committee World Conference on Prevention of Injury & Illness in Sport, Monte Carlo, Monaco. (Accepted).

Johnson ST, Aukerman DA, Brown CN, **Norcross MF**. Injury burden in American football. 2020 International Olympic Committee World Conference on Prevention of Injury & Illness in Sport, Monte Carlo, Monaco. (Accepted).

Johnson ST, Bovbjerg VE, Koester MC, Gehring KT, Marques ML, **Norcross MF**. Barriers and facilitators for developing mandated school athletics emergency action plans. 2020 International Olympic Committee World Conference on Prevention of Injury & Illness in Sport, Monte Carlo, Monaco. (Accepted).

Mulligan CMS, Huang YL, Johnson ST, **Norcross MF**. Relationship between functional hop performance and quadriceps rate of torque development in ACL reconstructed females. Presented at the 2020 ACSM Northwest Annual Meeting, Boise, ID. February 28, 2020.

Kiefel C, Larson M, **Norcross MF**, Duesterdieck-Zellmer K. Utilizing kinesiological surface electromyography to direct equine musculoskeletal rehabilitation. Presented at the 2019 National Veterinary Scholars Symposium, Worcester, MA. July 24-27, 2019.

Huang YL, Mulligan CMS, Jung JH, Oh JK, **Norcross MF**. Assessment of the foundational evidence supporting the efficacy of ACL IPPs: A systematic review. 2019 National Athletic Trainers' Association Clinical Symposia & AT Expo, Las Vegas, NV. Journal of Athletic Training 54(6), S232. Free Communications Doctoral Poster Presentation Finalist

Brown CN, **Norcross MF**. Single-leg landing energetics in individuals with chronic ankle instability. 2019 National Athletic Trainers' Association Clinical Symposia & AT Expo, Las Vegas, NV. Journal of Athletic Training 54(6), S244.

Mulligan CMS, Chang E, Huang YL, Johnson ST, **Norcross MF**. Relationship between functional hop performance and ACL-injury related knee biomechanics in the sagittal plane during a single-leg jump cut. 2019 National Athletic Trainers' Association Clinical Symposia & AT Expo, Las Vegas, NV. Journal of Athletic Training 54(6), S337.

**Norcross MF**, Johnson ST, Koester MC, Bovbjerg VE. Prevention of lower extremity injury in team sports: Are coach-selected practices associated with lesser injury risk? 13<sup>th</sup> World Conference on Injury Prevention and Safety Promotion (2018), Bangkok, Thailand. Injury Prevention 24(2), A231.

**Norcross MF**, Johnson ST, Koester MC, Bovbjerg VE. Variation in ACL injury prevention practices by sport. 13<sup>th</sup> World Conference on Injury Prevention and Safety Promotion (2018), Bangkok, Thailand. Injury Prevention 24(2), A11.

Johnson ST, **Norcross MF**, Koester MC, Bovbjerg VE. Emergency planning in athletics- Is a policy enough? 13<sup>th</sup> World Conference on Injury Prevention and Safety Promotion (2018), Bangkok, Thailand. Injury Prevention 24(2), A231.

Li T, Johnson S, Koester M, Hommel A, **Norcross M**. Return on investment of high school athletic trainers: Analysis on medical claims. Presented at the 2018 Oregon Public Health Association Annual Meeting & Conference. Corvallis, OR. October 8, 2018.

Li T, **Norcross M**, Johnson S, Hommel A, Koester M. Return on investment of high school athletic trainers: A microsimulation analysis on medical claims. Presented at The 2018 AcademyHealth Annual Research Meeting. Seattle, WA. June 25, 2018.

**Norcross MF**, Johnson ST, Bovbjerg VE. Athletic exposure methodology influences injury risk estimates in collegiate sports. 2018 National Athletic Trainers' Association Clinical Symposia & AT Expo, New Orleans, LA. *Journal of Athletic Training* 53(6), S58.

Huang YL, Johnson ST, **Norcross MF**. Relationships between triple extensor explosive strength and horizontal jump performance. 2018 National Athletic Trainers' Association Clinical Symposia & AT Expo, New Orleans, LA. *Journal of Athletic Training* 53(6), S334.

Johnson ST, **Norcross MF**, Bovbjerg VE, Koester MC. Barriers and facilitators of implementing emergency action plans in Oregon high schools. 2018 National Athletic Trainers' Association Clinical Symposia & AT Expo, New Orleans, LA. *Journal of Athletic Training* 53(6), S216.

Pollard CD, Ter Har J, Hannigan JJ, **Norcross MF**. The influence of maximal running shoes on biomechanics prior to and following a 5k run. 2018 American College of Sports Medicine Annual Meeting, Minneapolis, MN. *Medicine & Science in Sports & Exercise* 50(5), S631.

Li T, **Norcross MF**, Johnson ST. Is expanding high school athletic trainers a cost-effective way for injury control and emergency health services: A medial claims analysis. Presented at the 2017 American Public Health Association Annual Meeting & Expo, Atlanta, GA. November 6, 2017.

Huang YL, Chang E, Johnson ST, Pollard CD, Hoffman MA, **Norcross MF**. Comparison of quadriceps rate of torque development and sagittal plane knee kinematics during two jump tasks between ACL reconstructed and healthy females. 2017 National Athletic Trainers' Association Clinical Symposia & AT Expo, Houston, TX. *Journal of Athletic Training* 52(6), S81.

Chang E, Johnson ST, Pollard CD, Huang YL, Hoffman MA, **Norcross MF**. Sagittal plane knee mechanics in those who pass or fail a functional test battery. 2017 National Athletic Trainers' Association Clinical Symposia & AT Expo, Houston, TX. *Journal of Athletic Training* 52(6), S82.

Bovbjerg VE, Johnson ST, **Norcross MF**, Hoffman MA. Athletic trainers as sporting event first responders. 2016 American Public Health Association Annual Meeting & Expo, Denver, CO.

Stone C, Johnson ST, **Norcross MF**, Hoffman MA. Consistency of H-reflex measures during explosive muscular contraction. 2016 National Athletic Trainers' Association Clinical Symposia & AT Expo, Baltimore, MD. *Journal of Athletic Training* 51(6), S292.

**Norcross MF**, Johnson ST, Bovbjerg VE, Koester MC, Hoffman MA. Coach use of injury prevention program activities during team warm-ups in high school sports. 2015 National Athletic Trainers' Association Clinical Symposia & AT Expo, St. Louis, MO. *Journal of Athletic Training* 50(6), S67.

Johnson ST, **Norcross MF**, Chang E, Bigam JT, Hoffman MA. Emergency action plans in high schools with and without athletic trainers. 2015 National Athletic Trainers' Association Clinical Symposia & AT Expo, St. Louis, MO. *Journal of Athletic Training* 50(6), S106.

Chang E, Johnson ST, Bigam JT, Hoffman MA, **Norcross MF**. Emergency care training requirements and AED availability in Oregon high schools. 2015 National Athletic Trainers' Association Clinical Symposia & AT Expo, St. Louis, MO. *Journal of Athletic Training* 50(6), S108.

**Norcross MF**, Johnson ST, Bovbjerg VE, Koester MC, Hoffman MA. Coach use of injury prevention program activities during team warm-ups in high school sports. Presented at the 2015 Northwest Athletic Trainers' Association Annual Meeting and Clinical Symposium, Spokane, WA, March 28, 2015.

Johnson ST, **Norcross MF**, Chang E, Bigam JT, Hoffman MA. Emergency action plans in high schools with and without athletic trainers. Presented at the 2015 Northwest Athletic Trainers' Association Annual Meeting and Clinical Symposium, Spokane, WA, March 28, 2015.

Chang E, Johnson ST, Bigam JT, Hoffman MA, **Norcross MF**. Emergency care training requirements and AED availability in Oregon high schools. Presented at the 2015 Northwest Athletic Trainers' Association Annual Meeting and Clinical Symposium, Spokane, WA, March 28, 2015.

Johnson ST, **Norcross MF**, Hoffman MA. Hamstrings and quadriceps peak torque and rate of torque development during a time-critical period following ACL-reconstruction. 2014 National Athletic Trainers' Association Clinical Symposia & AT Expo, Indianapolis, IN. *Journal of Athletic Training* 49(3), S123.

Eisenhard JS, **Norcross MF**, Hoffman MA, Johnson ST. The relationship between static and dynamic balance measures. 2014 National Athletic Trainers' Association Clinical Symposia & AT Expo, Indianapolis, IN. *Journal of Athletic Training* 49(3), S195.

Chang E, Kitagawa T, Johnson ST, Hoffman MA, **Norcross MF**. Test-retest reliability and precision of hip, knee and ankle extensor rate of torque development. 2014 National Athletic Trainers' Association Clinical Symposia & AT Expo, Indianapolis, IN. *Journal of Athletic Training* 49(3), S233.

Kitagawa T, Chang E, **Norcross MF**, Hoffman MA, Johnson ST. The relationship between rate of torque development of the triple extensors at different time-critical intervals. 2014 National Athletic Trainers' Clinical Symposia & AT Expo, Indianapolis, IN. *Journal of Athletic Training* 49(3), S214.

Hoffman MA, Doeringer JR, **Norcross MF**, Johnson ST. The effects of estrogen levels on presynaptic inhibition. 2014 National Athletic Trainers' Association Clinical Symposia & AT Expo, Indianapolis, IN. *Journal of Athletic Training* 49(3), S212.

Stone AE, Pollard CD, Johnson ST, Hoffman MA, Chang E, **Norcross MF**. Knee and hip mechanics during side-step cutting: A comparison between dominant and non-dominant limbs. Presented at the 2014 Northwest Biomechanics Symposium, Salem, OR, May 16, 2014.

**Norcross MF**, Johnson ST, Hoffman MA. The prevalence of injury prevention program use by high school teams. 2014 International Olympic Committee World Conference on Prevention of Injury & Illness in Sport, Monte Carlo, Monaco. *British Journal of Sports Medicine* 48(7), 645.

Johnson ST, **Norcross MF**, Pollard CD, Hoffman MA. Relationship of rate of torque development and contractile impulse during time critical periods. Presented at the 2013 American Society of Biomechanics 37th Annual Meeting, Omaha, NE, September 4-7, 2013.

**Norcross MF**, Pollard CD, Johnson ST, Doeringer JR, Hoffman MA. Relationships between ACL-injury related knee mechanics during double-leg jump landings and side-step cuts. 2013 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Las Vegas, NV. *Journal of Athletic Training* 48(3), S226.

Johnson ST, **Norcross MF**, Doeringer JR, Pollard CD, Hoffman MA. Contractile impulse differences between the sexes during time critical periods. 2013 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Las Vegas, NV. *Journal of Athletic Training* 48(3), S186.



**Norcross MF**, Pollard CD, Johnson ST, Hoffman MA. Lower extremity energy absorption during double-leg jump landings is not influenced by limb dominance. 2013 American College of Sports Medicine Annual Meeting, Indianapolis, IN. *Medicine & Science in Sports & Exercise* 45(5), S78-79.

Pollard CD, **Norcross MF**, Johnson ST, Hoffman MA. Knee and hip mechanics during side-step cutting: A comparison between dominant and non-dominant limbs. 2013 American College of Sports Medicine Annual Meeting, Indianapolis, IN. *Medicine & Science in Sports & Exercise* 45(5), S462-463.

**Norcross MF**, Lewek MD, Padua DA, Shultz SJ, Weinhold PS, Blackburn JT. Modifiable biomechanical factors predict total lower extremity initial energy absorption during landing. 2012 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, St. Louis, MO. *Journal of Athletic Training* 47(3), S82.

Cram TR, **Norcross MF**, Padua DA, Begalle R, Halverson SD, Blackburn JT. The relationship between hip muscular stiffness and biomechanical risk factors associated with ACL injury. 2012 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, St. Louis, MO. *Journal of Athletic Training* 47(3), S83.

Homan KJ, **Norcross MF**, Georger BM, Prentice WE, Blackburn JT. The effects of hip strength on gluteal muscle activity and lower extremity kinematics. 2012 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, St. Louis, MO. *Journal of Athletic Training* 47(3), S20-21.

**Norcross MF**, Blackburn JT. The influence of analysis epoch on knee kinetics related to anterior cruciate ligament injury. 2012 American College of Sports Medicine Annual Meeting, San Francisco, CA. *Medicine & Science in Sports & Exercise* 44(5), S716.

Blackburn JT, **Norcross MF**. The influence of influence of hamstring musculotendinous stiffness on biomechanical mechanisms of anterior cruciate ligament loading. 2012 American College of Sports Medicine Annual Meeting, San Francisco, CA. *Medicine & Science in Sports & Exercise* 44(5), S453.

**Norcross MF**, Lewek MD, Padua DA, Shultz SJ, Weinhold PS, Blackburn JT. The influences of knee flexion angle at initial contact and sex on knee kinetics. 2012 ACL Research Retreat VI, Greensboro, NC. *Journal of Athletic Training* 47(5), e7.

Blackburn JT, **Norcross MF**. The effects of isometric and isotonic training on hamstring musculotendinous stiffness: Implications for ACL loading. 2012 ACL Research Retreat VI, Greensboro, NC. *Journal of Athletic Training* 47(5), e8.

Frank BS, Bell DR, **Norcross MF**, Goerger BM, Blackburn JT, Padua DA. Lumbopelvic hip complex neuromuscular control is associated with triplanar knee loading. 2012 ACL Research Retreat VI, Greensboro, NC. *Journal of Athletic Training* 47(5), e6.

**Norcross MF**, Blackburn JT, Lewek MD, Padua DA, Shultz SJ, Weinhold PS. Landing biomechanics differ between high and low energy absorption groups. 2011 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, New Orleans, LA. *Journal of Athletic Training* 46(3), S176.

Blackburn JT, **Norcross MF**. Sex comparison of the effects of contractile effort on hamstring stiffness and anterior tibial translation. 2011 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, New Orleans, LA. *Journal of Athletic Training* 46(3), S170.

Frank BS, Bell DR, **Norcross MF**, Goerger BM, Blackburn JT, Padua DA. Trunk position is associated with combined knee loading during an athletic cutting task. 2011 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, New Orleans, LA. *Journal of Athletic Training* 46(3), S122. **Free Communications Doctoral Poster Presentation Finalist**

Frank BS, Goerger BM, Bell DR, **Norcross MF**, Padua DA, Blackburn JT. Trunk neuromuscular control is associated with ACL loading mechanisms during an athletic cutting task. 2011 American College of Sports Medicine Annual Meeting, Denver, CO. *Medicine & Science in Sports & Exercise* 43(5), S806.

**Norcross MF**, Blackburn JT, Goerger BM, Padua DA. Individual joint contributions to lower extremity energy absorption do not differ between sexes exhibiting similar joint positions at ground contact. 2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Philadelphia, PA. *Journal of Athletic Training* 45(3), S105-106.

Blackburn JT, **Norcross MF**, Padua DA. An *in vivo* method for estimating ACL strain via motion capture. 2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Philadelphia, PA. *Journal of Athletic Training* 45(3), S88.

Fong C-M, Blackburn JT, **Norcross MF**, McGrath M, Padua DA. The influence of ankle dorsiflexion range of motion on landing biomechanics. 2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Philadelphia, PA. *Journal of Athletic Training* 45(3), S24.

Zinder SM, Fong C-M, Blackburn JT, **Norcross MF**, Enrique D, Padua DA. The effects of ankle bracing on sagittal and frontal plane landing kinematics at the knee and ankle. 2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Philadelphia, PA. *Journal of Athletic Training* 45(3), S25.

Kuenze CM, Zinder SM, Blackburn JT, **Norcross MF**. The effects of functional ankle instability and induced fatigue on ankle stiffness. 2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Philadelphia, PA. *Journal of Athletic Training* 45(3), S108.

**Norcross MF**, Blackburn JT, Goerger BM, Padua DA. Lower extremity energy absorption during landing in subjects with different peak impact forces. 2010 American College of Sports Medicine Annual Meeting, Baltimore, MD. *Medicine & Science in Sports & Exercise* 42(5), S152.

Bell DR, Blackburn JT, **Norcross MF**, Padua DA. There is no relationship between lower extremity and knee flexor stiffness. 2010 American College of Sports Medicine Annual Meeting, Baltimore, MD. *Medicine & Science in Sports & Exercise* 42(5), S403.

Blackburn JT, **Norcross MF**, Padua, DA. The relationship between hamstring properties and anterior knee joint stability. 2010 ACL Research Retreat V, Greensboro, NC. *Journal of Athletic Training* 45(5), 526.

**Norcross MF**, Goerger BM, Blackburn JT, Padua DA. Interpretation of gluteal muscle activity during a functional task differs depending upon the normalization method utilized. 2009 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, San Antonio, TX. *Journal of Athletic Training* 44(3), S114-115.

Goerger BM, **Norcross MF**, Blackburn JT, Padua DA. Trunk motion influences frontal plane knee kinematics and kinetics during a single leg squat. 2009 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, San Antonio, TX. *Journal of Athletic Training* 44(3), S68.

Bell DR, Blackburn JT, **Norcross MF**, Ondrak KS, Hudson JD, Hackney AC, Padua DA. Correlations between muscle properties and reproductive hormones. 2009 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, San Antonio, TX. *Journal of Athletic Training* 44(3), S75.

Hudson JH, Blackburn JT, Bell DR, Ondrak KS, **Norcross MF**, Padua DA, Hackney AC. The effect of oral contraceptive use on muscle properties across the menstrual cycle. 2009 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, San Antonio, TX. *Journal of Athletic Training* 44(3), S76.

**Norcross MF**, Goerger BM, Blackburn JT, Padua DA. Reliability of single leg stance and MVC methods of electromyography normalization in the lower extremity. 2009 American College of Sports Medicine Annual Meeting, Seattle, WA. *Medicine & Science in Sports & Exercise* 41(5), S353-354.

Goerger BM, **Norcross MF**, Blackburn JT, Padua DA. Lower extremity kinematics of a double leg jump landing task and overhead squat are correlated. 2009 American College of Sports Medicine Annual Meeting, Seattle, WA. *Medicine & Science in Sports & Exercise* 41(5), S53.

Bell DR, Blackburn JT, **Norcross MF**, Ondrak KS, Hackney AC, Padua DA. The effect of reproductive hormones on muscle properties across the menstrual cycle. 2009 American College of Sports Medicine Annual Meeting, Seattle, WA. *Medicine & Science in Sports & Exercise* 41(5), S56.

**Norcross MF**, Bell DR, Hudson JD, Engstrom LA, Blackburn JT. Sex comparison of electromechanical delay and rate of force production in the hamstrings. 2008 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, St. Louis, MO. *Journal of Athletic Training* 43(3), S11. **Free Communications Doctoral Oral Presentation Finalist**

Blackburn JT, Bell DR, **Norcross MF**, Hudson JD, Kimsey MH. Comparison of hamstring musculotendinous stiffness and material properties between males and females. 2008 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, St. Louis, MO. *Journal of Athletic Training* 43(3), S12.

Bell DR, Blackburn JT, Ondrak KS, **Norcross MF**, Hudson JD, Padua DA, Hackney AC. Vertical leg and knee flexor stiffness do not change across the menstrual cycle. 2008 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, St. Louis, MO. *Journal of Athletic Training* 43(3), S119.

**Norcross MF**, Guskiewicz KM, Hackney AA, Hooker DN, Prentice WE. The effects of electrical stimulating currents on pain perception, plasma cortisol, and plasma  $\beta$ -endorphin for DOMS. 2004 National Athletic Trainers' Association Annual Meeting and Clinical Symposium, Baltimore, MD. *Journal of Athletic Training* 39(2), S48.

#### **Peer-Reviewed Invited Symposia and Workshop Presentations (6)**

**Norcross MF**, Donaldson A. Variety is the spice of life!: How to design and implement an effective lower extremity injury prevention program in your setting using evidence-based principles. 2020 International Olympic Committee World Conference on Prevention of Injury & Illness in Sport, Monte Carlo, Monaco. (Accepted).

**Norcross MF**. Maximizing cost-containment and improving efficiency: How athletic training practice fits an evolving healthcare model. Part of symposium entitled "Moving beyond cost-savings: How aligning with the Triple Aim of Healthcare can demonstrate the full value of athletic trainers to stakeholders" with Lam K and Johnson ST. National Athletic Trainers' Association Annual Meeting and Clinical Symposium: Feature Presentation, Las Vegas, NV. June 26, 2019.

**Norcross MF**, Johnson ST. Explosive strength training for injury prevention- It's a hip thing to do! 2017 International Olympic Committee World Conference on Prevention of Injury & Illness in Sport, Monte Carlo, Monaco. March 17, 2017.

**Norcross MF**. How to build a better bridge? Strategies for translating research to practice. Part of symposium entitled "Integration of athletic training and public health: From the care of a patient to a population" with Hoffman MA, Bovbjerg VE, and Johnson ST. National Athletic Trainers' Association Annual Meeting and Clinical Symposium: Feature Presentation, Baltimore, MD. June 23, 2016.

**Norcross MF**, Johnson ST, Hoffman MA. Improving the effectiveness of injury prevention in the secondary school setting through coach cooperation. Northwest Athletic Trainers' Association Annual Meeting and Clinical Symposium: Feature Presentation, Spokane, WA. March 28, 2015.

**Norcross MF.** Looking past the *P*-value: The clinician's guide to critically evaluating research design and statistics. National Athletic Trainers' Association Annual Meeting and Clinical Symposium: Special Topic, Las Vegas, NV. June 27, 2013.

### **Invited Presentations (11)**

**Norcross MF.** ACL injury prevention programs: Adopting an approach that fits your setting. OACA, OSAA, OADA, OATS & OAOA Coaches Symposium, Wilsonville, OR. August 17, 2019.

**Norcross MF, Johnson ST, Scaffidi C.** Scaling up student-athlete exposure tracking using *PacTrac*. (Preliminary Report). Pac-12 Student-Athlete Health Conference, Las Vegas, NV. May 10, 2019.

**Norcross MF, Johnson ST.** How much is enough? Enhancing the precision of team injury estimates using detailed athlete exposure information. (Final Report). Pac-12 Student-Athlete Health Conference, Las Vegas, NV. May 5, 2017.

**Norcross MF, Johnson ST.** How much is enough? Enhancing the precision of team injury estimates using detailed athlete exposure information. (Preliminary Report). Pac-12 Student-Athlete Health Conference, Las Vegas, NV. April 29, 2016.

**Norcross MF.** Improving the effectiveness of injury prevention in the secondary school setting through coach cooperation. The Center Foundation, Bend, OR, June 16, 2015.

**Norcross MF.** Sports Injuries/Sports Healthcare Careers. Oregon State University 4-H Summer Conference, Corvallis, OR. June 27, 2014.

**Norcross MF.** From sideline to byline...and the quest to get back there again. Oregon State University Exercise and Sport Science Graduate Seminar Series, Corvallis, OR. April 20, 2012.

**Norcross MF.** ACL Injury and the Adolescent Athlete. Lebanon Health Career Ladder, Lebanon, OR. February 25, 2012.

**Norcross MF.** From sideline to byline...and the quest to get back there again. University of Oregon Department of Human Physiology Seminar Series, Eugene, OR. October 21, 2011.

**Norcross MF.** Evaluation of Groin Injuries: A Practical Approach to a Complex Problem. 2007 National Athletic Trainers' Association Annual Meeting and Clinical Symposium: Student Symposium, Anaheim, CA.

**Norcross MF.** Accelerated Rehabilitation Following a Lateral Meniscal Repair in a Male Collegiate Soccer Player. 2002 University of North Carolina Sports Medicine Conference, Chapel Hill, NC.

### **GRANTS & FUNDING**

#### **FUNDED RESEARCH PROPOSALS (≈\$636k in total awards from 16 funded proposals)**

##### **External Sources**

2018-2020 **Norcross MF, Johnson ST, Scaffidi C.**  
Scaling up Student-Athlete Exposure Tracking using *PacTrac*  
Pac-12 Student-Athlete Health and Well-Being Grant Program  
Role: Principal Investigator  
Amount: \$369,910 (Awarded July 2018)

2018- 2020 Huang, Y, **Norcross MF**.

The influence of rate of torque development and arthroscopic muscle inhibition on knee landing mechanics during different landing tasks in ACL reconstructed females

National Athletic Trainers' Association Research and Education Foundation

Role: Co-Principal Investigator/ Faculty Advisor

Amount: \$2,500 (*Awarded July 2018*)

2016- 2017 Li T, **Norcross MF**, Johnson ST.

Evaluation of potential impact of high-school Athletic Trainers

Oregon School Activities Association Foundation

Role: Co-Investigator

Amount: \$3,765 (*Completed*)

2016-2017 **Norcross MF**, Johnson ST, Bovbjerg VE.

How much is enough? Enhancing the precision of team injury estimates using detailed athlete exposure information

Pac-12 Student-Athlete Health and Well-Being Grant Program

Role: Principal Investigator

Amount: \$148,327 (*Completed*)

2015- 2017 Chang E, **Norcross MF**.

Evaluating the usefulness of a functional test battery for discriminating return to full activity in females with anterior cruciate ligament reconstruction

National Athletic Trainers' Association Research and Education Foundation

Role: Co-Principal Investigator/ Faculty Advisor

Amount: \$2,220 (*Completed*)

2014-2015 **Norcross MF**, Johnson ST, Bovbjerg VE, Hoffman MA.

The influence of coach warm-up practices on Oregon high school student-athlete injury risk

John C. Erkkila, M.D. Endowment for Health and Human Performance- Good Samaritan Hospital Foundation

Role: Principal Investigator

Amount: \$19,795 (*Completed*)

2014-2015 Johnson ST, **Norcross MF**, Hoffman MA.

Improving rapid torque production and functional performance with bodyweight training

John C. Erkkila, M.D. Endowment for Health and Human Performance- Good Samaritan Hospital Foundation

Role: Co-Investigator

Amount: \$19,880 (*Completed*)

2013- 2014 **Norcross MF**, Bovbjerg VE, Johnson ST, Hoffman MA.

Improving the effectiveness of high school injury prevention through cooperation

Oregon School Activities Association Foundation

Role: Principal Investigator

Amount: \$10,125 (*Completed*)

2010- 2012 **Norcross MF**, Blackburn JT.

The identification of biomechanical predictors of lower extremity energy absorption

National Athletic Trainers' Association Research and Education Foundation

Role: Principal Investigator

Amount: \$2,500 (*Completed*)

2002-2003 **Norcross MF**, Guskiewicz KM.

The effects of electrical stimulating currents on pain perception, plasma cortisol, and plasma  $\beta$ -endorphin for DOMS

National Athletic Trainers' Association Research and Education Foundation

Role: Principal Investigator

Amount: \$1,000 (*Completed*)

2002-2003 **Norcross MF**, Guskiewicz KM.

The effects of electrical stimulating currents on pain perception, plasma cortisol, and plasma  $\beta$ -endorphin for DOMS

District III Athletic Trainers' Association

Role: Principal Investigator

Amount: \$2,000 (*Completed*)

### **Institutional**

2019 Duesterdieck-Zellmer K, Semevolos S, Larson M, **Norcross MF**.

Kinesiological surface electromyography in horses – optimization of technique to determine muscle activation and movement patterns in equine athletes

Oregon State University Carlson College of Veterinary Medicine

Role: Co-Investigator

Amount: \$10,000 (*Awarded April 2019*)

2017 **Norcross MF**, Pavol MJ, Brown CN.

Three-dimensional motion capture system replacement

Oregon State University Research Office

Role: Principal Investigator

Amount: \$37,700 (*Completed*)

2012 Curren MI, **Norcross MF**.

The influences of sex and task on ACL-related landing biomechanics.

Oregon State University Undergraduate Research, Innovation, Scholarship & Creativity: START Award Program

Role: Co-Principal Investigator/ Faculty Advisor

Amount: \$1,000 (*Completed*)

2012 Pollard CP, **Norcross MF**, Hoffman MA, Johnson ST.

Potential neuromuscular mechanisms of non-contact anterior cruciate ligament injury

Oregon State University- Cascades Campus: Circle of Excellence Research Collaboration

Role: Co-Investigator

Amount: \$5,000 (*Completed*)

2002-2003 **Norcross MF**, Guskiewicz KM.

The effects of electrical stimulating currents on pain perception, plasma cortisol, and plasma  $\beta$ -endorphin for DOMS

University of North Carolina at Chapel Hill: Smith Grant Program

Role: Principal Investigator

Amount: \$150 (*Completed*)

## PROPOSALS IN REVIEW

### External Sources

2019-2020 **Norcross MF**  
Pac-12 Research Development Director  
Pac-12 Student-Athlete Health and Well-Being Grant Program  
Role: Principal Investigator  
Amount: \$51,482 (*Submitted December 2019*)

## UNFUNDED RESEARCH PROPOSALS

### External Sources

2019-2020 Larionov V, Kokenyesi RS, Larionov S, **Norcross MF**.  
Individualized precision wellness assessment system  
National Science Foundation- Small Business Innovation Research Program Phase I (SBIR)  
Role: Core Team Member/ Principal Investigator on OSU Sub-Contract  
Amount: \$37,135 (OSU Sub-Contract) (*Submitted December 2018*)

2018-2021 Michener LA, Karduna AR, Karim R, **Norcross MF**.  
Identifying predictors of injuries and developing risk profiles in Pac-12 baseball and softball players  
Pac-12 Student-Athlete Health and Well-Being Grant Program  
Role: Co-Investigator/ Principal Investigator on OSU Sub-Contract  
Amount: \$94,236 (Sub-Contract); \$1,002,038 (Total) (*Submitted October 2017*)

2017-2020 Michener LA, Karduna AR, Karim R, **Norcross MF**, Plummer HA.  
Identifying predictors of injuries and developing risk profiles in Pac-12 baseball and softball players  
Pac-12 Student-Athlete Health and Well-Being Grant Program  
Role: Co-Investigator/ Principal Investigator on OSU Sub-Contract  
Amount: \$72,569 (Sub-Contract); \$689,390 (Total) (*Submitted October 2016; Invited for Re-submission*)

2014-2015 **Norcross MF**, Johnson ST, Bovbjerg VE, Hoffman MA.  
Enhancing lower extremity injury prevention by improving implementation effectiveness  
National Athletic Trainers' Association Research and Education Foundation  
Role: Principal Investigator  
Amount: \$22,974 (*Submitted February 2014; Invited for Re-submission*)

2013- 2014 **Norcross MF**, Bovbjerg VE, Johnson ST, Hoffman MA.  
Improving the effectiveness of high school injury prevention through cooperation  
John C. Erkkila, M.D. Endowment for Health and Human Performance- Good Samaritan Hospital Foundation  
Role: Principal Investigator  
Amount: \$19,992 (*Submitted February 2013*)

2013- 2018 **Norcross MF**, Pollard CD, Bovbjerg VE, Aukerman DA.  
ACL-injury prevention by targeting factors associated with high-risk landings  
National Institutes of Health- Research Project Grant Program (R01)  
Role: Principal Investigator  
Amount: \$1,573,992 (*Submitted October 2012*)

2012- 2017 **Norcross MF**, Pollard CD, Bovbjerg VE, Aukerman DA.  
ACL-injury prevention by targeting factors associated with high-risk landings  
National Institutes of Health- Directors' Early Independence Award Program (DP5)  
Role: Principal Investigator  
Amount: \$1,611,537 (*Submitted January 2012*)

### **Institutional**

2013-2014 **Norcross MF**, Bovbjerg VE, Johnson ST, Hoffman MA.

Improving the effectiveness of high school injury prevention through cooperation

Oregon State University Research Office: General Research Fund Spring 2013

Role: Principal Investigator

Amount: \$10,000 (*Submitted February 2013*)

2012-2013 **Norcross MF**, Hoffman MA, Johnson ST.

School-based lower extremity injury prevention: A pilot study to determine implementation feasibility

Oregon State University Research Office: General Research Fund Fall 2012

Role: Principal Investigator

Amount: \$4,440 (*Submitted October 2012*)

### **CURRICULUM EXPERIENCE**

#### **Oregon State University**

##### **Teaching Experience**

Tissue Injury and Repair (undergraduate)

Therapeutic Modalities (graduate)

Therapeutic Modalities (undergraduate)

Research Methods in Neuromechanics/Motor Control (graduate)

Upper Extremity Orthopedic Assessment (undergraduate)

Care and Prevention of Athletic Injuries (undergraduate)

Introduction to Allied Health Professions (undergraduate)

##### **Research Mentorship Experience**

###### ***Doctoral Dissertation Committees***

###### **Chair**

Mulligan C, Hannigan KS, Johnson ST, Osei-Kofi N, **Norcross MF**. *College of Public Health and Human Sciences (Kinesiology)*, 2021 (Anticipated).

Huang Y, Hannigan KS, Johnson ST, Pollard CD, Bovbjerg VE, **Norcross MF**. The influence of quadriceps rate of torque development and arthrogenic muscle inhibition on knee landing mechanics during different landing tasks in ACL reconstructed females. *College of Public Health and Human Sciences (Kinesiology)*, 2019.

Chang E, Hannigan KS, Hoffman MA, Johnson ST, Pavol MJ, Pollard CD, Kincl LD, **Norcross MF**. Evaluating the usefulness of a functional test battery for determining return to full activity in females with anterior cruciate ligament reconstruction. *College of Public Health and Human Sciences (Kinesiology)*, 2016.

###### **Committee Member**

Ter Har J, Hannigan KS, Johnson ST, **Norcross MF**, Elliott K, Pollard CD. *College of Public Health and Human Sciences (Kinesiology)*, 2021 (Anticipated).

Stierwalt H, Newsom S, **Norcross MF**, Odden M, Robinson M. *College of Public Health and Human Sciences (Kinesiology)*, 2020 (Anticipated).

Haberly G, Hoffman MA, **Norcross MF**, Penry J, Duesterdieck K, Pavol MJ. *College of Public Health and Human Sciences (Kinesiology)*, 2020 (Anticipated).



Stutzenberger LR, Hagen TM, **Norcross MF**, Pollard CP, Kim J, Crowell CB. Biomechanical demands and postural control during exercises commonly performed by older adults in falls prevention programs. *College of Public Health and Human Sciences (Kinesiology)*, 2019.

Doeringer JR, Hannigan KS, Johnson ST, **Norcross MF**, Pavol MJ, Hoffman MA. Effects of plyometrics on neuromuscular control. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2013.

#### **Graduate Council Representative**

Buniya M, Higgins C, **Norcross MF**, Scott MH, Simpson BG, Barbosa AB. Seismic performance and loss assessment of reinforced concrete buildings using state-of-the-art performance-based seismic engineering standards and guidelines. *College of Engineering (Civil Engineering)*, 2019 (Anticipated).

Mahadavifar V, Barbosa A, Gupta R, Muszynski L, **Norcross MF**, Sinha. Structural performance of hybrid CLT for seismic applications. *College of Forestry (Wood Science) and College of Engineering (Civil Engineering)*, 2017.

Islam MR, Brown S, Macuga K, **Norcross MF**, Wang H, Hurwitz DS. Safety and efficiency benefits of traffic signal countdown timers: A simulator study. *College of Engineering (Civil Engineering)*, 2014.

Santha R, Ashford SA, Gillins DT, **Norcross MF**, Schultz RJ, Olsen MJ. Analysis of spatial data from terrain models for landslide predictive mapping. *College of Engineering (Civil Engineering)*, 2014.

Azadbakht M, Barbosa AR, Olsen MJ, **Norcross MF**, Scott MH, Yim SC. Tsunami and hurricane wave loads on bridge superstructures. *College of Engineering (Civil Engineering)*, 2013.

#### ***Master's Thesis Committees***

##### **Chair**

Arakawa L, Johnson ST, Penry J, Schuna J, Elliott K, **Norcross MF**. Assessing between-day and inter-rater reliability of a 3-minute running test for determining critical speed. *College of Public Health and Human Sciences (Kinesiology)*, 2018.

Pollard A, Hannigan KS, Johnson ST, Odden MC, **Norcross MF**. The effect of exercise on the biomechanical determinants of knee energy absorption during single-leg jump-cuts. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2015.

Cronin B, Bovbjerg VE, Johnson ST, Pollard CD, **Norcross MF**. The influence of hip abduction, extension, and external rotation rate of torque development on frontal-plane biomechanics during single leg jump-cuts. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2015.

##### **Committee Member**

Miller S, Hoffman MA, **Norcross MF**, Thompson R, Johnson ST. The effect of internal and external focus of attention on rate of torque development. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2020 (Anticipated).

Welch JD, Burns LD, Johnson ST, **Norcross MF**, Hoffman MA. What frequency of whole body vibration maximizes muscular strength and vertical jump height? *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2016.

Stone C, Hoffman MA, **Norcross MF**, Valentine BA, Johnson ST. Spinal motor control adaptations to explosive strength training. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2015.

Kitagawa T, Hoffman MA, Kincl LD, **Norcross MF**, Johnson ST. The difference between rate of torque development of the triple extensors at different time periods. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2013.

Haberly G, Gunter KB, McKenzie EC, **Norcross MF**, Pavol MJ. Hip loading during the squat exercise. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2013.

Eisenhard J, Hoffman MA, **Norcross MF**, Kincl LD, Johnson ST. A comparison of two different balance programs. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2013.

Doran ER, Harding AK, Hunter-Zaworski KM, **Norcross MF**, Turner RT, Winters KM, Pavol MJ. Effects of combining of upper and lower body resistance training on lumbar loading. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2013.

### **Graduate Council Representative**

Copeland P, Hommel D, Norcross MF, Thompson W, Wolf A. Tourist vulnerability and community risk to a Cascadia subduction zone rupture in Newport, Oregon. *College of Earth, Ocean, and Atmospheric Sciences (Geography)*, 2020 (Anticipated).

Bird J, Adesope O, Evans M, **Norcross MF**, Pitterson N, Brown S. Tool of engagement measurement to propel academic success of students. *College of Engineering (Civil Engineering)*, 2017.

Walker K, Muszynski L, **Norcross MF**, Sinha A, Gupta R, Miller TH. Use of virtual sensors in the determination of natural frequencies of timber structures. *College of Forestry (Wood Science) and College of Engineering (Civil Engineering)*, 2015.

Anderson D, Boston K, Hernandez S, **Norcross MF**, Hunter-Zaworski KM. Improving safety of the platform-train-interface through operational and technical mitigation strategies. *College of Engineering (Civil Engineering)*, 2015.

Neill JM, Bell CA, **Norcross MF**, Olsen MJ, Hurwitz DS. Evaluation of alternative information signs in Oregon. *College of Engineering (Civil Engineering)*, 2014.

Mathey MM, Bassil NV, Mehlenbacher S, **Norcross MF**, Finn CE. Phenotyping diverse strawberry (*Fragaria* spp.) germplasm for aid in marker-assisted breeding and marker-trait association for proposed *Rpf1* SSR marker for red stele (*Phytophthora fragariae*) resistance. *College of Agricultural Sciences (Horticulture)*, 2013.

Tuss HJ, Hunter-Zaworski KM, **Norcross MF**, Wang H, Hurwitz DS. Improved pedestrian safety at signalized intersections operating the flashing yellow arrow. *College of Engineering (Civil, Construction, and Environmental Engineering)*, 2012.

Moore D, Dixon K, **Norcross MF**, Wang H, Hurwitz DS. Fuzzy logic for improved dilemma zone identification: A simulator study. *College of Engineering (Civil, Construction, and Environmental Engineering)*, 2012.

Bornasal FB, Dixon K, **Norcross MF**, Plaza D, Hunter-Zaworski KM. Transportation network connectivity, facilities encouraging walkability, and crime. *College of Engineering (Civil, Construction, and Environmental Engineering)*, 2012.

### ***Master's Final Examination/Non-Thesis Committees***

#### **Chair**

McMillan N, Hannigan KS, Hoffman MA, **Norcross MF**. A comparison of clinical outcomes and post-operative complications following epiphyseal-sparing and transphyseal ACL reconstruction in skeletally immature individuals. *College of Public Health and Human Sciences (Athletic Training)*, 2019.

Okhovat N, Hoffman MA, Norcross EC, **Norcross MF**. The effects of cryotherapy and transcutaneous electrical nerve stimulation on quadriceps arthrogenic muscle inhibition. *College of Public Health and Human Sciences (Athletic Training)*, 2019.

Stiller CR M, Crowell CB, Hannigan KS, **Norcross MF**. The effects of Kinesio Tape on neuromuscular facilitation in an injured population. *College of Public Health and Human Sciences (Athletic Training)*, 2018.

McCall-O'Dell M, Hannigan KS, Norcross EC, **Norcross MF**. An overview of Active Release Technique and its utilization within the clinical setting. *College of Public Health and Human Sciences (Athletic Training)*, 2018.

#### **Committee Member**

Antolin SK, Crowell CB, **Norcross MF**, Johnson ST. Implementation and dissemination strategies for lower extremity injury prevention programs. *College of Public Health and Human Sciences (Athletic Training)*, 2019.

Walters T, Hoffman MA, **Norcross MF**, Crowell CB. Effects of the Santa Monica PEP and FIFA 11+ programs on lower extremity injury occurrence rates in collegiate and high School, male and female soccer players. *College of Public Health and Human Sciences (Athletic Training)*, 2019.

Marques M, Bovbjerg VE, **Norcross MF**, Johnson ST. Facilitators aiding in the development of sports-related emergency action plans in Oregon high schools. *College of Public Health and Human Sciences (Athletic Training)*, 2018.

Fullerton K, Bovbjerg VE, **Norcross MF**, Johnson ST. Barriers in development and implementation of emergency action plans in Oregon high schools. *College of Public Health and Human Sciences (Athletic Training)*, 2018.

### ***Undergraduate Honors Thesis Committees***

#### **Chair**

Morgan EA, Bovbjerg VE, Johnson ST, **Norcross MF**. The influence of player age on club soccer coaches' perceptions of injury risk and lower extremity injury prevention program use. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2016.

Almog R, Hannigan KS, Johnson ST, **Norcross MF**. The influence of knee extension rate of torque development on sagittal plane knee biomechanics during landing. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2015.

Wile D, Hannigan KS, Johnson ST, **Norcross MF**. Sex differences in triple extensor rate of torque development may explain variance in vertical jump performance. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2015.

Weilbrenner JM, Johnson ST, Hoffman MA, **Norcross MF**. The influence of external focus of attention feedback on ACL injury related landing biomechanics. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2014.

Curren MI, Johnson ST, Hoffman MA, **Norcross MF**. The influences of sex and task on ACL-related landing biomechanics. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2013. **Honorable Mention Presentation, 2013 OSU Celebrating Undergraduate Excellence Event**

### **Committee Member**

Gilbert KC, Gnacinski S, **Norcross MF**, Massey W. Psychological effects of sport injury on an NCAA Division I student athlete: A qualitative study. *College of Public Health and Human Sciences (Kinesiology)*, 2019.

Kiff AB, Crowell CB, **Norcross MF**, Johnson ST. Effects of focus of attention on rate of torque development in the knee extensors. *College of Public Health and Human Sciences (Kinesiology)*, 2017.

Asplund C, Hoffman MA, **Norcross MF**, Johnson ST. The effects of exhaustive exercise on ACL injury risk. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2016.

Wright J, Hoffman MA, **Norcross MF**, Johnson ST. Relationship between rate of torque development and contractile impulse in three muscle groups. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2016.

Sherman KN, **Norcross MF**, Kim M, Ebbeck V. Physical therapy adherence: An initial examination of self-compassion as reported by patients and practitioners. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2016.

Oenning ML, Hoffman MA, **Norcross MF**, Johnson ST. The effects of a bodyweight only training program on physical self-perceptions. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2015.

Zorn JM, Hannigan KS, **Norcross MF**, Pavol MJ. Hip loading while performing forward and side lunges. *College of Public Health and Human Sciences (Exercise and Sport Science)*, 2014.

Masterson CE, Johnson ST, **Norcross MF**, Wilcox AR. The grief cycle: An integration of the psychological and physiological stages of recovery from a lower extremity stress fracture in NCAA Division I female distance runners. *College of Liberal Arts (French)*, 2013.

### **Undergraduate Research Awards Program**

Nelson WF (Researcher), **Norcross MF**. Development of a method to quantitatively measure arthrogenic muscle inhibition in the peroneals. *College of Public Health and Human Sciences*, 2017. (Faculty Mentor)

Heitzhausen S (Researcher), **Norcross MF**. Evaluating the usefulness of a functional test battery for determining return to full activity in females with anterior cruciate ligament reconstruction. *College of Public Health and Human Sciences*, 2016. (Faculty Mentor)

Correia MK (Researcher), **Norcross MF**. The influences of rapid torque production and functional exercise on ACL-injury related landing biomechanics. *College of Public Health and Human Sciences*, 2015. (Faculty Mentor)

Morgan EA (Researcher), **Norcross MF**. Oregon high school coaches' awareness, use, and attitudes toward lower extremity injury prevention programs. *College of Public Health and Human Sciences*, 2014. (Faculty Mentor)

Coupe A (Researcher), Choi Y (Apprentice), **Norcross MF**. A comparison of neural profiles and lower extremity energy absorption in healthy and ACL-reconstructed populations. *College of Public Health and Human Sciences*, 2012. (Faculty Mentor)

## **The University of North Carolina at Chapel Hill**

### **Teaching Experience**

Human Cadaver Anatomy Laboratory (undergraduate)  
Emergency Care of Athletic Injuries and Illnesses (undergraduate)  
Evaluation of Athletic Injuries (undergraduate Teaching Assistant)  
Biomechanics of Sport (undergraduate Teaching Assistant)  
Therapeutic Modalities (undergraduate Teaching Assistant)

### **Research Mentorship Experience**

#### ***Master's Thesis Committees***

#### **Committee Member**

Cram T, Padua DA, **Norcross MF**, Begalle R, Halverson D, Blackburn JT. The relationship between hip muscular stiffness and biomechanical risk factors associated with ACL injury. *Department of Exercise & Sport Science*, 2011.

Homan KJ, Prentice WE, **Norcross MF**, Goerger BM, Blackburn JT. The effects of hip muscle strength and electromyographic activity on landing biomechanics. *Department of Exercise & Sport Science*, 2011.

Peck MJ, Zinder SM, **Norcross MF**, Blackburn JT. Balance training performed after exertion versus before exertion. *Department of Exercise & Sport Science*, 2010.

Frank BS, Blackburn JT, Bell DR, **Norcross MF**, Padua DA. The relationship between dynamic trunk stability and lower extremity and trunk biomechanics during an unanticipated cutting task. *Department of Exercise & Sport Science*, 2010.

Fong C-M, Padua DA, **Norcross MF**, McGrath ML, Blackburn JT. The influence of ankle plantarflexor stiffness and extensibility on lower extremity biomechanics during a jump landing. *Department of Exercise & Sport Science*, 2009.

Kuenze CM, Blackburn JT, **Norcross MF**, Harrington SE, Zinder SM. The effects of functional ankle instability and induced fatigue on ankle stiffness. *Department of Exercise & Sport Science*, 2009.

East MN, Zinder SM, DiStefano LJ, **Norcross MF**, Blackburn JT. The acute effects of fibular repositioning tape. *Department of Exercise & Sport Science*, 2008.

***Recipient, EXSS Outstanding Graduate Student Research Award***

***Undergraduate Honors Thesis Committees***

**Committee Member**

Cannon LN, Zinder SM, **Norcross MF**, Blackburn JT. The influence of hamstring stiffness on landing biomechanics. *Department of Exercise & Sport Science*, 2011.

**University of California, Los Angeles**

**Teaching Experience**

Prevention, Recognition, and Care of Athletic Injuries (UCLA Extension Program)  
Advanced Athletic Training: Evaluation of Athletic Injuries (UCLA Extension Program)

**Loyola Marymount University**

**Teaching Experience**

Rehabilitation of Athletic Injuries (undergraduate)

**UNIVERSITY SERVICE/ COMMITTEE WORK**

**Oregon State University**

Faculty Senate Graduate Council, *Member* (2018 – 2021)

Faculty-Student Mentor Program, *Faculty Mentor* (2018 – 2019)

University Graduate Laurels Block Grant Program, *Reviewer* (2018)

Commencement, *Undergraduate Column Marshal, College of Public Health and Human Sciences* (2017 and 2018)

Commencement, *Undergraduate Marshal, College of Public Health and Human Sciences* (2011 – 2015)

Faculty Senate Student Recognition and Awards Committee, *Member* (2015 – 2017)

**College of Public Health and Human Sciences**

CPHHS Dean's Cabinet, *Member (elected)* (September 2019 – )

College Promotion and Tenure Committee, *Member (elected)* (October 2017 – )

CPHHS Graduate Fellowship Selection Committee, *Member* (March 2017 – )

School of Biological and Population Health Sciences Curriculum Committee, *Member* (March 2016 – March 2018)

Kinesiology Program, Faculty Search Committee, Clinical Assistant Professor of Kinesiology/Athletic Training, *Member* (December 2015 – May 2016)

Kinesiology Program, MPH in Physical Activity Development Committee, *Member* (February 2015 – February 2016)

Athletic Training Program, Master of Athletic Training Program Development Committee, *Chair* (January 2013 – December 2015)

Exercise and Sport Science Program, Faculty Search Committee (4 positions), *Member*  
(October 2013 – April 2014)

Exercise and Sport Science Program, EXSS Implementation Committee, *Member*  
(January – November 2013)

Exercise and Sport Science Program, EXSS Strategic Planning Task Force, *Member*  
(September – December 2012)

## **PROFESSIONAL SERVICE**

### **National Athletic Trainers' Association Research and Education Foundation**

Research Committee, *Chair-Elect* (July 1, 2019 – )  
*Member* (July 1, 2014 – June 30, 2019)

Ad-Hoc Grant Reviewer (2013 and 2014 RFP Cycles)

### **Oregon School Activities Association**

Sports Medicine Advisory Committee, *Member* (September 2016 – )

### **Pac-12 Student-Athlete Health and Well-Being Grant Program**

Proposal Review Committee, *Member* (2019 and 2020 RFP Cycles)

### **Athletic Training & Public Health Summit**

Organizing Committee, *Member* (September 2014 – August 2015)

### **Northwest Athletic Trainers' Association**

Free Communications Committee, *Member* (August 2014 – March 2018)

### **Guest Editor**

Special Issue of the *Journal of Athletic Training* entitled *The Intersection of Athletic Training and Public Health*, Volume 54, Number 2, February 2019.

### **Ad-Hoc Manuscript Reviewer**

*Adapted Physical Activity Quarterly*  
*American Journal of Sports Medicine*  
*Athletic Training Education Journal*  
*Clinical Biomechanics*  
*Current Sports Medicine Reports*  
*European Journal of Applied Physiology*  
*Gait & Posture*  
*Injury Prevention*  
*International Journal of Sports Science & Coaching*  
*Journal of Applied Biomechanics*  
*Journal of Athletic Training*  
*Journal of Biomechanics*  
*Journal of Electromyography & Kinesiology*  
*Journal of Science and Medicine in Sport*

*Journal of Sport and Health Science*  
*Journal of Sports Sciences*  
*Journal of Strength and Conditioning Research*  
*Journal of Zhejiang University SCIENCE B*  
*Medicine & Science in Sports & Exercise*  
*PLOS ONE*  
*Research Quarterly in Exercise and Sport*  
*Research in Sports Medicine*  
*Scandinavian Journal of Medicine and Science in Sports*  
*Sports*  
*Sports Biomechanics*  
*Sports Health: A Multidisciplinary Approach*  
*SpringerPlus*  
*The Knee*

## **ATHLETIC TRAINING CLINICAL EXPERIENCE**

### **University of California, Los Angeles**

Assistant Athletic Trainer (2003 – 2007)

Men's Soccer, Men's and Women's Track and Field, and Men's Tennis

### **The University of North Carolina at Chapel Hill**

Graduate Assistant Certified Athletic Trainer (2001 – 2003)

Men's Soccer and Wrestling

### **Boston University**

Student Athletic Trainer (1997 – 2001)

## **CERTIFICATIONS AND PROFESSIONAL ORGANIZATIONS**

### **National Athletic Trainers' Association Board of Certification, Inc.**

Certified Athletic Trainer (ATC): 060102062

### **National Athletic Trainers' Association**

Membership Number: 983501

### **Oregon Health Licensing Agency- Athletic Trainer Registration Board**

Number: AT-AT-10169825

### **National Plan & Provider Enumeration System**

National Provider Identifier (NPI): 1528096393

## **SELECTED MEDIA COVERAGE/APPEARANCES**

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Johnson ST, Norcross MF, Bovbjerg VE, Hoffman MA, Chang E, Koester MC. Sports-related emergency preparedness in Oregon high schools. *Sports Health: A Multidisciplinary Approach*. doi: 10.1177/1941738116686782. (Published online ahead of print January 27, 2017)

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EurekAlert: [https://www.eurekalert.org/pub\\_releases/2017-03/osu-soh032317.php](https://www.eurekalert.org/pub_releases/2017-03/osu-soh032317.php)

Medical Express: <https://medicalxpress.com/news/2017-03-oregon-high-schools-lacking-athletic.html>

BioPortfolio: <http://www.bioportfolio.com/news/article/3073566/Study-Oregon-high-schools-lacking-best-practices-for-athletic-emergencies.html>

sNEWSi: <http://snewsi.com/id/17151251024/Study-Oregon-high-schools-lacking-best-practices-for-athletic-emergencies>

MyNews: <https://my-news-site.com/news/173468/study-oregon-high-schools-lacking-best-practices-for-athletic-emergencies>

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Norcross MF, Johnson ST, Bovbjerg VE, Koester MC, Hoffman MA. (2016) Factors influencing high school coaches' adoption of injury prevention programs. *Journal of Science and Medicine in Sport*. 19(4), 299-304.

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Reuters: <http://www.reuters.com/article/2015/04/08/us-teens-coaches-injury-prevention-idUSKBN0MZ1W720150408>

Huffington Post: [http://www.huffingtonpost.com/2015/04/09/high-school-coaches-injury-prevention\\_n\\_7026766.html](http://www.huffingtonpost.com/2015/04/09/high-school-coaches-injury-prevention_n_7026766.html)



Fox News: <http://www.foxnews.com/health/2015/04/08/injury-prevention-programs-unpopular-with-high-school-coaches/>

News Medical: <http://www.news-medical.net/news/20150416/OSU-study-finds-that-injury-prevention-programs-are-not-being-used-in-high-schools.aspx>

dailyRxNews: <http://www.dailyrxnews.com/injury-prevention-programs-may-be-underused-high-school-sports>

Science Daily: <http://www.sciencedaily.com/releases/2015/04/150415103316.htm>

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**Norcross MF**, Lewek MD, Padua DA, Shultz SJ, Weinhold PS, Blackburn JT. (2013). Lower extremity energy absorption and biomechanics during landing. Part I: Sagittal plane energy analyses. *Journal of Athletic Training*. 48(6), 748-756.

**Norcross MF**, Lewek MD, Padua DA, Shultz SJ, Weinhold PS, Blackburn JT. (2013). Lower extremity energy absorption and biomechanics during landing. Part II: Frontal plane energy analyses and inter-planar relationships. *Journal of Athletic Training*. 48(6), 757-763.

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Men's Health News: <http://news.menshealth.com/are-you-landing-all-wrong/2013/09/14/>

Women's Health Magazine: <http://blog.womenshealthmag.com/scoop/acl-injury/>

Huffington Post: [http://www.huffingtonpost.com/2013/09/06/women-acl-tear-risk-land-knock-kneed-jump\\_n\\_3868865.html](http://www.huffingtonpost.com/2013/09/06/women-acl-tear-risk-land-knock-kneed-jump_n_3868865.html)

Portland Business Journal: <http://www.bizjournals.com/portland/blog/health-care-inc/2013/09/women-watch-your-posture-when-you-jump.html>

Oregonian: [http://www.oregonlive.com/health/index.ssf/2013/09/knee\\_ligament\\_tears\\_among\\_wome.html](http://www.oregonlive.com/health/index.ssf/2013/09/knee_ligament_tears_among_wome.html)

KVAL: <http://www.kval.com/news/tech/ACL-injuries-may-be-prevented-by-different-landing-strategy-222199061.html>

Medical Daily: <http://www.medicaldaily.com/women-may-prevent-acl-injuries-different-landing-technique-why-are-women-more-risk-men-255356>

News Medical: <http://www.news-medical.net/news/20130904/Combination-of-body-type-landing-techniques-may-be-responsible-for-ACL-injuries.aspx>

Eurasia Review: <http://www.eurasiareview.com/04092013-acl-injuries-may-be-prevented-by-different-landing-strategy/>

Science Daily: <http://www.sciencedaily.com/releases/2013/09/130903141354.htm>

Corvallis Gazette-Times: [http://www.gazettetimes.com/news/local/osu-study-different-landings-could-prevent-acl-injuries/article\\_84ffac96-14bc-11e3-8c44-0019bb2963f4.html](http://www.gazettetimes.com/news/local/osu-study-different-landings-could-prevent-acl-injuries/article_84ffac96-14bc-11e3-8c44-0019bb2963f4.html)

KMTR: <http://www.kmtr.com/news/local/ACL-injuries-may-be-prevented-by-different-landing-strategy-222199061.html>

Albany Tribune: <http://www.albanytribune.com/03092013-acl-injuries-may-be-prevented-by-different-landing-strategy/>

Health Canal: <http://www.healthcanal.com/bones-muscles/42505-acl-injuries-may-be-prevented-by-different-landing-strategy.html>

Medical Express: <http://medicalxpress.com/news/2013-09-acl-injuries-strategy.html>

Science Codex: [http://www.sciencecodex.com/acl\\_injuries\\_may\\_be\\_prevented\\_by\\_different\\_landing\\_strategy-118616](http://www.sciencecodex.com/acl_injuries_may_be_prevented_by_different_landing_strategy-118616)

Philly Magazine: <http://blogs.phillymag.com/bewellphilly/2013/09/04/study-acl-injuries-women-preventable/>

Healio: <http://www.healio.com/orthopedics/sports-medicine/news/online/%7B6bb18f3e-052d-4588-8a55-93d92ca03fe7%7D/studies-find-women-could-prevent-acl-injury-through-changing-landing-strategy>