

RYAN TIERNEY, PhD

PERSONAL DATA

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PROFESSIONAL PREPARATION

Ph.D. 2004 Kinesiology
Temple University
Dissertation Title: Gender Differences in Head-Neck Segment Dynamic
Stabilization during Head Acceleration

M.Ed. 2000 Kinesiology
Temple University
Master's Project: Effect of Head Position and Football Equipment on
Cervical Spinal Cord Space
NATA Approved Athletic Training Curriculum

A.T.,C. 1996 Athletic Training Certification (#089602684)
National Athletic Trainers' Association

B.S. 1996 Athletic Training
University of Delaware
NATA Approved Athletic Training Curriculum
Undergraduate Thesis: The Cervical Spine Alignment of a Helmeted
Football Player Immobilized on a Backboard

PROFESSIONAL APPOINTMENTS

2013 – present **Associate Professor of Instruction** Department of Kinesiology, Temple
University

2008 – 2013 **Assistant Professor of Instruction** Department of Kinesiology, Temple
University

2002 - 2008 **Instructor/Lecturer** Department of Kinesiology, Temple University

2017 - present **Graduate Program Director**, Department of Kinesiology, Temple
University

2016 - present **Co-Director**, Temple University Concussion Assessment, Research, and
Education Study (TUCARES) project

2013 - present **Director**, Sport Concussion Lab, Department of Kinesiology, Temple University

2005 - 2013 **Director**, Post-Professional Graduate Athletic Training Education Program, Department of Kinesiology, Temple University, Phila., PA.

PUBLICATIONS

ARTICLES IN REFEREED JOURNALS (accepted)

46. Phillips J, Cheever KM, McKeon J, **Tierney RT** (2018). Effect of administration method on NPC scores in healthy, young, adult population. *International Journal of Athletic Therapy ad Training*, (Accepted 3-18), 1-21.
45. McGuire L, Sachs M, Ingram YM, **Tierney RT**. Temporal Changes in Depression Symptoms in Male and Female Collegiate Student-Athletes. *Journal of Clinical Sports Psychology*. (Accepted 8-17).
44. Kawata K, Rubin L, Wesley L, Lee JH, Sim T, Takahagi M, Bellamy A, **Tierney RT**, Langford TD. (January, 2018). Acute changes in plasma total Tau levels are independent of subconcussive head impacts in college football players. *Journal of Neurotrauma*. 35(2):260-266.
43. Caccese J, Buckley T, **Tierney RT**, Glutting J, Rose WC, Kaminski T. Sex differences in head acceleration during purposeful soccer heading. *Journal of Science and Medicine in Sport* (accepted 8-17).
42. Cheever K, McDevitt J, **Tierney RT**, Wright WG. (February, 2018) Concussion recovery phase affects vestibular and oculomotor symptom provocation. *International Journal of Sports Medicine*, 39(2). 141-147.
41. Caccese J, Kaminski T, Buckley T, **Tierney R**, Glutting J, Rose W. Head and Neck Size and Neck Strength Predict Linear and Rotational Acceleration during Purposeful Soccer Heading. *Sports Biomechanics*. (Accepted 7-17).
40. Broglio S, McCrea M, Harezlak J, Katz B, Hainline B, Hack D, McAllister T, CARE Consortium Investigators... **Tierney RT**. (July, 2017). A national study on the effects of concussion in collegiate athletes and U.S. military service academy members: The NCAA-DoD Concussion Assessment, Research and Education (CARE) Consortium structure and methods. *Sports Medicine*. 47(7): 1437-1451.
39. Kawata K, Lee JH, Sim T, Takahagi M, Szwanki V, Bellamy A, Rubin L, **Tierney RT**, Langford TD. (July, 2017). Subconcussive impact-dependent increase in S100B levels in collegiate football players. *Journal of Neurotrauma*, 34(14), 2254-2260.
38. Wright WG, McDevitt J, **Tierney RT**, Haran FJ, Appiah-Kobi K, Dumont A. (July, 2017). Assessing sub-acute mild traumatic brain injury with a portable virtual reality balance device. *Disability and Rehabilitation*. 39(15), 1564-1572.

37. Lindsey J, Cheever K, Phillips J, Mansell JL, **Tierney RT**. (July, 2017). Effect of fatigue on ocular motor assessments. *Athletic Training and Sports Health Care*, 9(4), 177-183.
36. Wright WG, **Tierney RT**, McDevitt J. (April, 2017). Visual-vestibular processing deficits in mild traumatic brain injury. *Journal of Vestibular Research* 27: 27-37. DOI:10.3233/VES-170607
35. Bretzin AC, Mansell JL, McDevitt J, **Tierney RT**. (March 2017) Sex Differences In Anthropometrics and Heading Kinematics Among Division I Soccer Players: A Pilot Study. *Sport Health*, 9(2), 168-173.
34. Cheever K, Kawata K, Galgon A, **Tierney RT**. (Dec., 2016). Cervical injury assessment for concussion evaluation: A review. *Journal of Athletic Training*. 51(12): 1037-1044.
33. Karagiannopoulos C, Sitler MR, Tucker C, Michlovitz S, **Tierney RT**. (Oct., 2016). Responsiveness of the Active Wrist Joint Position Sense Test Following Distal Radius Fracture Intervention. *Journal of Hand Therapy*. 29(4), 474-482.
32. Kawata K, Lui C, Merkel SF, Ramirez S, **Tierney RT**, Langford TD. (Sept, 2016) Blood biomarkers for brain injury: What are we measuring? *Neuroscience Biobehavioral Rev*; 68:460-473. PMID: 27181909
31. Clay H, Mansell JM, **Tierney RT**. (June, 2016). Association between rowing injuries and the functional movement screen in female collegiate division I Rowers. *International Journal of Sports Physical Therapy*. 11(3):345-349. PMID: 27274420
30. Cattano N, Driban J, Sitler M, **Tierney RT**, Barbe M, Mamta M. (March, 2017). Physical activity levels and quality of life relate to collagen turnover and inflammation changes after running. *J Ortho Research*. 35(3), 612-617. PMID: 27035929
29. Madura S, McDevitt J, **Tierney RT**, Mansell, J, & Krynetskiy E.(2016) VGLUT1 polymorphism and Sport Concussion Recovery and Severity. *Brain Injury*. 30(7): 908-13. PMID: 27029226
28. Kawata K, Lee JH, Sim T, Takahagi M, Szwanki V, Bellamy A, Darvish K, Assari S, Henderer J, **Tierney RT**, Langford TD. Association of football subconcussive head impacts with ocular near point of convergence. *JAMA-Ophthalmology*. (accepted 3-16; 5-16 Epub). PMID: 27257799
27. Hwang SJ, Ma L, Kawata K, **Tierney RT**, & Jeka JJ. (2016). Vestibular dysfunction following sub-concussive head impact. *Journal of Neurotrauma*. (accepted and Epub 2-16). PMID: 26885560
26. McDevitt J, Appiah-Kobi K, **Tierney RT**, Wright WG. (2016). Vestibular and Ocular-Motor Assessments May Increase Accuracy of Subacute Concussion Assessment. *International Journal of Sports Medicine* (accepted 1-16; May 2016, Epub). PMID: 27176886
25. Kawata K, **Tierney RT**, Phillips J, Jeka J. (May, 2016). Effect of repetitive sub-concussive head impacts on ocular near point of convergence. *International Journal of Sports Medicine*. 37(5):405-410. PMID: 26859643

24. Cattano NM, Barbe MF, Sitler MR, Balasubramanian E, **Tierney RT**, Driban JB. Biochemical response to moderate running bout in participants with and without an acute knee injury history. *Journal of Athletic Training* (accepted, 10-15; May, 16 Epub). PMID: 27186917
23. McDevitt J, **Tierney RT**, Phillips, J, Torg J, Gaughan J, & Krynetskiy E. (December, 2015) Association between GRIN2A promoter polymorphism and recovery from concussion. *Brain Injury*. 29(13-14) 1674-1681. PMID: 26502998
22. Phillips J, **Tierney R**. (August, 2015). Effect of target type on near point of convergence in an active, healthy, young adult population. *Journal of Eye Movement Research*, 8(3):1-6.
21. Higgins M, Ryan C, Paden A, **Tierney RT**. Comparison of lacrosse and football helmet facemask removal. Proc IMechE, Part P: *Journal of Sports Engineering and Technology*. (accepted 3-15)
20. Dorminy, M, Hoogeveen, A, **Tierney RT**, Higgins M, McDevitt J, & Kretschmar J. (2015). Effect of Soccer Heading Ball Speed on S100B, sideline concussion assessments, and head impact kinematics. *Brain Injury* (accepted 3-15; 5-15 epub). 29:10, 1158-1164. PMID:26004753
19. Cattano NM, Barbe MF, Massicotte VS, Sitler MR, Balasubramanian E, **Tierney R**, Driban JB. (2013). Joint trauma initiates knee osteoarthritis through biochemical and biomechanical processes and interactions. *OA Musculoskeletal Medicine* Online Mar 01;1(1):3.
18. Karagiannopoulos C, Sitler MR, Michlovitz S, **Tierney RT**. (2013). A Descriptive Study on Wrist and Hand Sensori-motor Impairment and Function Following Distal Radius Fracture Intervention. *Journal of Hand Therapy*. Jul-Sep;26(3):204-15. PMID: 23628557
17. Haran FJ, Tierney RT, Wright G, Sitler MR, Keshner E. (2012). Effect of an acute bout of soccer heading on postural control. *International Journal of Sports Medicine*. 34(4); 350-54. PMID:23175178
16. Shultz S, Sitler M, **Tierney RT**, Hillstrom H, & Song J. (2012). Consequences of pediatric obesity on the foot and ankle complex. *Journal of the American Podiatric Medical Association*. 102(1);5-12. PMID: 22232315
15. McDevitt J, **Tierney RT**, Mansell J, Toone N, Higgins M, Mishra A, & Krynetskiy E. (2011). Neuronal structure polymorphisms and concussion in collegiate athletes: A pilot study. *Brain Injury*, 25(11); 1108-1113. PMID: 21902461
14. **Tierney RT**, Mansell JL, Higgins M, McDevitt J, Toone N, Mishra A, Krynetskiy E. (2010). Apolipoprotein E genotype and concussion in college athletes. *Clinical Journal of Sports Medicine*. 20; 464-468. PMID: 21079443
13. Mansell J, **Tierney RT**, Toone N, McDevitt J, Higgins M, Glutting J. (2010). Concussive signs and symptoms following head impacts in collegiate athletes. *Brain Injury*. 24(9); 1070-1074. PMID: 21116008

12. Mansell J, **Tierney RT**, Driban J, Higgins M, Clegg S, Kyrnetskiy E, & Mishra A. (2010). Genetic Variation and Individualized Medicine. *Journal of Sport Rehabilitation*. 19; 389-398. PMID:21116008
11. Higgins M, **Tierney RT**, Driban J, Edell S, Watkins R. (2010). Lacrosse equipment and cervical spinal cord space during immobilization: preliminary analysis. *Journal of Athletic Training*. 45(1): 39-43. PMID: 20064046
10. Higgins M, **Tierney RT**, Caswell S, Driban J, Mansell J, & Clegg S. (2009). An *in-vivo* model of functional head impact testing in non-helmeted athletes. Proc IMechE, Part P: *Journal of Sports Engineering and Technology*. 223; 117-123.
9. Shultz S, Sitler M, **Tierney RT**, Hillstrom H, & Song J. (2009). Effects of pediatric obesity on joint kinematics and kinetics during two walking cadences. *Archives of Physical Medicine and Rehabilitation*. 90(12); pp 2146-2154. PMID: 19969183
8. **Tierney RT**, Higgins M, Caswell S, Brady J, McHardy K, Driban J, & Darvish K. (2008). Sex differences in head acceleration during soccer heading with and without headgear. *Journal of Athletic Training*. 43(6); 578-584. PMID:15692324
7. Mansell J, **Tierney RT**, Sitler M.R, Swanik KA, & Stearne D. (2005). Resistance training and head-neck segment dynamic stabilization in male and female collegiate soccer players. *Journal of Athletic Training*. 40(4); 310-319. PMID:16404453
6. Lake AW, Sitler MR, Stearne DJ, Swanik CB, & **Tierney RT**. (2005). Effectiveness of prophylactic hyperextension elbow braces on limiting active and passive elbow extension prephysiological and postphysiological loading. *Journal of Orthopaedic and Sports Physical Therapy*. 35(12); 837-843. PMID: 16848104
5. **Tierney RT**, Sitler MR, Swanik CB, Swanik KA, Higgins M, & Torg JS. (2005). Gender differences in head-neck segment dynamic stabilization during head acceleration. *Medicine and Science in Sport & Exercise*. 37(2); 272-279. PMID:15692324
4. Hart JM, Swanik CB, & **Tierney RT**. (2005). Effects of sport massage on limb girth and discomfort associated with eccentric exercise. *Journal of Athletic Training*. 40(3); 181-185. PMID: 16284638
3. Wiese K, Sitler MR, **Tierney RT**, & Swanik KA. (2004). Effect of glenohumeral joint braces on range of motion. *Journal of Athletic Training*. 39(2); 151-155. PMID: 15173866
2. **Tierney RT**, Mattacola CG, Sitler MR, & Maldjian C. (2002). Effect of head position and football equipment on cervical spinal cord space. *Journal of Athletic Training*. 37(2); 185-189. PMID: 12937433
1. **Tierney RT**, Maldjian C, Mattacola CG, & Sitler MR. (2002). Comparison of spinal stenosis measures in normal subjects. *Journal of Athletic Training*. 37(2); 190-193. PMID: 12937434

In review or preparation

7. McGinnis I, Cobb J, Russ A, Tierney RT. Vestibular rehabilitation for dizziness and imbalance following concussion: A critically appraised topic. *International Journal of Athletic Therapy and Training*. (In review).
6. Cheever K, Wright WG, Sitler M, Tierney RT. Differences in Baseline Cervical Sensorimotor Integration in Collegiate Contact Sport Athletes vs Non-Contact Controls. (in preparation).
5. Patukian M, et al., Summit Participants... **Tierney RT**. Head Injury in Soccer Summit Review. (in preparation).
4. McCrea M, Broglio S, McAllister T, Kudela M, Zhao S, Katz BP, Harezlak J, Nelson L, Meier TB, Marshall SW, Guskiewicz K, CARE Consortium Investigators... **Tierney RT**. Impact of contemporary approaches to concussion management on return to play and risk of repetitive concussion in collegiate football players: Comparative analysis from the NCAA Concussion Study (1999-2001) and CARE Consortium (2014-2016).
3. Mansell JL, Cheever K, Kampa C, Shcaffer M, Phillips J, **Tierney RT**. The association between head impact response and quality of life. *Athletic Training and Sports Health Care*. (in 2nd review).
2. Cheever K, Kawata K, **Tierney RT**. A review of neck pathology and dysfunction: Implications for sport concussion prevention. *Sport Health* (in review).
1. McGuire L, Sachs M, Ingram YM, **Tierney RT**. Depression Symptoms and Neurocognitive Performance Pre- and Post-Concussion in Collegiate Student-Athletes. *Sport Exercise and Performance Psychology*. (in review).

ARTICLES IN NON-REFEREED JOURNALS or PERIODICALS

3. Driban J, **Tierney RT**. (2010). Promoting Our Patients' Long-term Quality of Life. *NATA News*. November, pp 26-27.
2. Mansell JL & **Tierney RT**. (2010). Lost in Translation? *NATA News*. January, pp. 18-21.
1. **Tierney RT**. (2003). Measuring isometric strength in the cervical spine. *Athletic Therapy Today*. 8(3); 56-57.

BOOK CHAPTERS

4. **Tierney RT**, McDevitt J. *Genetics and Sport Concussion*. In S. Roth (ed.), *Rutledge Handbook of Sport and Exercise Systems Genetics* (In preparation).
3. Kawata K, **Tierney RT**, Langford TD. *Blood and Cerebrospinal Fluid Biomarkers*, In B. Haniline (ed.), *Sport Neurology* (In preparation).
2. **Tierney RT**, Driban J, & Scifers J. *Proprioception*. In M. Higgins (ed.), *Therapeutic Exercise*. (2011). pp. 185-212.
1. Driban J, **Tierney RT**. *Tissue Healing*. In M. Higgins (ed.), *Therapeutic Exercise*. (2011). pp. 19-34.

RESEARCH GRANTS

18. Pennsylvania Department of Health. Ramirez S (PI), Langford TD, **Tierney RT (Co-I)**. Mechanisms and treatment strategies to counter addiction susceptibility post-TBI. \$4,000,000. 1/1/17-12/31/19.
17. Pennsylvania CURE Grant. Temple University OVPR Plus-up funding for existing interdisciplinary work. Wright WG (PI), **Tierney RT (Co-I)**. Using MRI to study the neural effects of subconcussion. \$100,000. 9/1/17-8/31/19.
16. Pennsylvania Athletic Trainers Society, Inc. Grant. (5-17). Cheever K, **Tierney RT**, Wright WG. The effect of chronic exposure to head impacts and cervical loads due to contact sport participation on cervical spine sensory and motor function. \$2,500, Funded.
15. National Institutes of Health R01 research grant. Jeka J (PI), Park J (Co-PI), **Tierney RT (Co-Inv)**, Hudson M, Seltzer M. Study assessing the effect of subconcussive head impacts on vestibular function and blood biomarkers. Scored in 6th percentile. \$3,800,000, 2017-2022.
14. Army Research Lab Cooperative Agreement. Masucci M (PI). TBI Arm - Langford TD (Co-PI), **Tierney RT (Co-PI)**. Resources provided to fund projects examining subconcussion and concussion assessments and biomarkers. \$20,000,000 total. TBI Arm direct costs \$2,000,000. 9/1/2016 – 9/30/2018.
13. NCAA and Department of Defense Grand Alliance Concussion Consortium. Langford TD (Co site-PI), **Tierney RT (Co site-PI)**. Study assessing the Natural History of Concussion. \$222,848, 6/1/2016 – 4/30/2019. Funded.
12. Temple University OVPR Seed Grant (8-15). Langford TD, **Tierney RT**, Kawata K. Study assessing blood biomarker for cumulative CNS cell injury. \$25,000, Funded.
11. Pennsylvania Athletic Trainers Society, Inc. Grant. (4-15). Kawata K (PI), **Tierney RT (Co -PI)**, Park J Bellamy A, Takahagi M, Langford TD. Study assessing biomarkers for brain injury. \$5,000, Funded.
10. Department of Defense, Army Rapid Innovation Fund, Broad Agency Announcement (W911NF-12-R-0019) Challenge #7d (*Human – Medical Assessment and Treatment*). Wright G, Haran J, Tucker C, **Tierney RT (Co-Inv)**, Keshner E, & Grace M. Study assessing a Virtual Environment TBI Screen (VETS): A field-deployable diagnostic screening system. \$1,177,142, 9/2013 – 9/2016, Funded.
9. Eastern Athletic Trainers' Association Grant. (2012). McDevitt J, **Tierney RT (Co-PI)**, Krynetskiy E. Study assessing genetic polymorphism and sport concussion. \$4,472, Funded.
8. Pennsylvania Athletic Trainers Society, Inc. Grant. (2012). Bright N, **Tierney RT (Co -PI)**, Krynetskiy E. Study assessing genetic polymorphism and concussion severity. \$3,800, Funded.
7. Mid-Atlantic Athletic Trainers Association Grant. (2011). Higgins M, **Tierney RT**, Dorminy M, Hoogeveen A, McDevitt J, Bright N, Atiemo E, Kropf, E. Study assessing Effect of Ball Speed during Soccer Heading on Head Impact Kinematics and Concussion Assessment Scores. \$1,250, Funded.

6. Pennsylvania Athletic Trainers Society, Inc. Grant. (2010). Mansell J, **Tierney RT (Co -PI)** Study assessing APOE genotype and concussion in high school athletes. \$5,000, Funded.

5. Pennsylvania Athletic Trainers Society, Inc. Grant. (2007). **Tierney RT (PI)**, Co-investigators: Mansell J, Driban J, Higgins M, & Brown M. Study assessing the effect of soccer heading on brain injury protein marker concentration. \$4,996, Funded.

4. National Athletic Trainers' Association Research and Education Foundation Master's Research Grant, Markis E, **Tierney RT.** (2006). Study assessing gender differences in head acceleration and dynamic stabilization during soccer heading in high school athletes. \$999, Funded (Faculty Advisor).

3. Mid-Atlantic Athletic Trainers Association Grant. (2005). Caswell S., **Tierney RT (Co-PI)**, Higgins M, Sitler MR, Brady J. McHardy K. Study assessing gender differences in head acceleration and dynamic stabilization during soccer heading with and without headgear. \$1,500, Funded.

2. Eastern Athletic Trainers' Association Grant. (2005). **Tierney RT (PI)**, Higgins M, Sitler MR, Caswell S, Brady J, McHardy K. Study assessing gender differences in head acceleration and dynamic stabilization during soccer heading with and without headgear. \$3,997, Funded.

1. Pennsylvania Athletic Trainers Society, Inc. Grant. (2005). **Tierney RT (PI)**, Higgins M, Sitler MR, Caswell S, Brady J, McHardy K. Study assessing gender differences in head acceleration and dynamic stabilization during soccer heading with and without headgear. \$2,348, Funded.

SERVICE/TRAINING GRANTS

Temple University Graduate Athletic Training Program Outreach Grants (2005-2013). **Tierney RT (PI)**. Grants provided clinical experience for graduate students and funds to help implement research projects. \$1,159,690, (Indirect costs = \$194,986), Funded.

PROFESSIONAL PRESENTATIONS

131. **Tierney RT.** Incorporating vestibular assessment and therapy into your concussion management program. Lab Leader - Higgins M. Lab Assistants - Mansell J, McDevitt J, Russ A, Thomas S. National Athletic Trainers' Association. June 2018 2-hour learning lab.

130. Phillips JM, Wright WG, Sitler MR, **Tierney RT.** Diagnostic Accuracy of Ocular Tests for Assessing Concussion Deficits. National Athletic Trainer's Association Conference. June, 2018. Poster Presentation.

129. Cheever KM, **Tierney RT**, Sitler MR, Wright WG. Differences in Baseline Cervical Sensory-Motor Integration in Collegiate Contact Sport Athletes vs Non-Contact Controls. National Athletic Trainer's Association Conference. June, 2018. Poster Presentation.

128. McGinnis I, Cobb J, **Tierney RT**, Russ A. Vestibular Rehabilitation for Dizziness and Imbalance. National Athletic Trainer's Association Conference. June, 2018. Rapid Fire Presentation.

127. **Tierney RT**, Mansell J. Utilizing ocular motor assessments in the management of concussed athletes. Pennsylvania Athletic Trainer's Society Conference. June, 2018. Evidenced based practice lecture.
126. Robinson M, McGinnis I, Marchetto J, Tierney RT, Wright WG. Dual-task effect of cognition and postural control in healthy and subconcussed individuals: Preliminary results. College of Public Health Research Day, April 2018. Poster presentation.
125. Coy S, Cheever K, McGinnis I, Cobb J, Wright WG, Mansell J, **Tierney RT**. Normative Values for the Vestibular/Ocular Motor Screen (VOMS) in a Healthy Collegiate Population. College of Public Health Research Day, April 2018. Poster presentation.
124. Bistline J, Cheever K, McGinnis I, Cobb J, Wright WG, Mansell J, **Tierney RT**. Sex Differences in Ocular-Motor Function Among Collegiate Club Rugby Players. College of Public Health Research Day, April 2018. Poster presentation.
123. Ratka J, Cheever K, Mansell J, **Tierney RT**. The Effects of Fatigue on Vestibular Ocular Motor Screening Performance. College of Public Health Research Day, April 2018. Poster presentation.
122. **Tierney RT** & Phillips J. Concussion Assessments. Pennsylvania Athletic Trainers' Society Student Symposium. March, 2018. Breakout session.
121. Buckley T, **Tierney RT**, Cameron K. The Concussion Assessment, Research and Education (CARE) Consortium: Implications for Athletic Training Clinical Practice. Eastern Athletic Trainers' Association. January, 2018. Lecture.
120. McGinnis I, Cobb J, **Tierney RT**, Russ A. Vestibular Rehabilitation for Dizziness and Imbalance. Eastern Athletic Trainer's Association Conference. January, 2018. Poster presentation.
119. **Tierney RT**. Concussion. New Jersey State Police training. December, 2017. Invited lecture.
118. McGinnis I, Cobb J, **Tierney RT**, Russ A. Vestibular Rehabilitation for Dizziness and Imbalance. Pennsylvania Athletic Trainer's Society Conference. June, 2017. Poster presentation, Award finalist!
117. Cheever KM, Pagnotta K, **Tierney RT**. Certified Athletic Trainers' Use of Cervical Testing to Differentiate Symptomology Following a Suspected Concussion. NATA annual meeting. June, 2017. Oral presentation.
116. Cheever KM, McDevitt J, **Tierney RT**, Wright WG. Effects of Concussion Recovery Phase on Symptom Provocation using Vestibular and Ocular-motor Assessments. ACSM annual meeting. June 2017. Oral presentation.
115. Ruiz M, Halvorson K, Vanderline F, Robins B, Mansell J, Wright WG, **Tierney RT**. The effect of Virtual Reality Oculomotor Training on Visual Performance. College of Public Health Research Day, April 2017. Poster presentation. Meritorious Poster Award!

114. Halvorson K, Ruiz M, Robins B, Vanderline F, Mansell J, Wright WG, **Tierney RT**. Effect of clinic-based oculomotor training on oculomotor performance in a healthy population. College of Public Health Research Day, April 2017. Poster presentation.
113. Lee J, Cheever K, Wright WG, **Tierney RT**. Normative data for BESS and SOT in collegiate population. College of Public Health Research Day, April 2017. Post presentation.
112. **Tierney RT**. Purposeful Heading in Football (Soccer); What do we know?: Evidence for or against soccer headgear. USA Soccer Summit. Head Injury in Soccer: From Science to the Field. April, 2017. Invited lecture/panelist.
111. **Tierney RT**. Controlled head impact testing to aid in concussion management. American Athletic Conference Student Athlete Wellness Symposium. March 2017. Invited Lecture.
110. **Tierney RT**. Vestibular Ocular-Motor Screening (VOMS) for concussion management. Bucks County PA Comprehensive Concussion Education Team meeting. January 2017. Invited Lecture.
109. **Tierney RT**, Langford TD, Borchardt D. The role of subconcussion research in advancing clinical decision-making. Eastern Athletic Trainers' Association. January 2017. Invited Lecture.
108. Cheever K, Pagnotta K, **Tierney RT**. Certified Athletic Trainers use of Cervical Testing to Differentiate Symptomology Following a Suspected Concussion. Eastern Athletic Trainers' Association. January 2017. Poster Presentation (Winner!).
107. Wright WG, **Tierney RT**, McDevitt J. Visual-Vestibular processing deficits in a subacute mild traumatic brain injury. Society for Neuroscience, November, 2016.
106. Cabán CT, Jackson K, Pinson CL, Dos Santos FV, Jeka J, **Tierney RT**, Kelly EM, & Hudson MB. Subconcussive head impact results in a unique circulating exosomal MicroRNA signature. Mid-Atlantic Regional Chapter of the American College of Sports Medicine. Nov 4, 2016.
105. Caccese J, Buckley T, **Tierney RT**, Rose WC, Arbogast KB, Glutting JJ, Kaminski TW. Higher head accelerations observed in female athletes than in male athletes across age. 5th International Consensus Conference on Concussion in Sport. October, 2016.
104. Caccese J, Buckley T, **Tierney RT**, Rose WC, Arbogast KB, Glutting JJ, Kaminski TW. Head and neck size and neck strength minimize the head acceleration during repeated head impacts. 5th International Consensus Conference on Concussion in Sport. October, 2016.
103. Wright WG, McDevitt J, Haran FJ, **Tierney RT**. Assessing subacute mild traumatic brain injury with a portable field-deployable virtual reality balance device. Military Health System Research Symposium, August, 2016.
102. **Tierney RT**, Mansell J. Utilizing ocular motor assessments in the management of concussed athletes. Maryland Athletic Trainer's Associations Conference. June, 2016. Evidenced based practice lecture.

101. Lindsey J, Cheever KM, Mansell JM, **Tierney RT**. Effect of fatigue on ocular motor assessments. National Athletic Trainers' Association. June, 2016.
100. Kawata K, Lee JH, Sim T, Takahagi M, Szwanki V, Bellamy A, Darvish K, Assari S, Henderer J, **Tierney RT**, Langford TD. Association of football subconcussive head impacts with ocular near point of convergence. National Athletic Trainers' Association. June, 2016.
99. Bretzin A Mansell JM, **Tierney RT**. Effect of sex and anthropometrics on head impact kinematics during soccer heading. National Athletic Trainers' Association. June, 2016.
98. McDevitt JK, Appiah-Kubi KO, **Tierney RT**, Wright WG. Vestibular and Oculomotor Assessments May Increase Accuracy of Subacute Concussion Assessment. National Athletic Trainers' Association. June, 2016.
97. McDevitt JK, Hayes D, **Tierney RT**, Phillips J, Gaughan JP, Krynetskiy E. Single CNS Voltage-gated Calcium Channel Gene Variation and Prolonged Recovery Following Sport-related Concussion. American Orthopaedic Society for Sports Medicine. March, 2016. Oral Presentation.
96. Madura S, McDevitt JK, **Tierney RT**, Mansell JL, Hayes DJ, Krynetskiy E. *VGLUT1* Genetic Variation Association to Sport-Related Concussions. National Athletic Trainers' Association. June, 2015. Oral Presentation. *Graduate Student Award Winner*.
95. Cattano NM, Driban JB, Barbe MF, Amin M, **Tierney R**, & Sitler MR: Biomarker Response After an Acute Running Bout in Participants with and without an Acute Knee Injury History. National Athletic Trainers' Association. June, 2015. Thematic Poster Presentation.
94. Phillips JM, **Tierney RT**. Effect of Target Type on Ocular Near Point of Convergence in a Healthy, Active Collegiate Population. National Athletic Trainers' Association. June, 2015. Poster Presentation.
93. Kawata K, **Tierney RT**, Phillips J, Jeka J Effect of sub-concussive impacts from soccer heading on ocular near point of convergence. National Athletic Trainers' Association. June, 2015. Oral Presentation.
92. Hayes DJ, McDevitt JK, **Tierney RT**, Mansell JL. Calcium Channel, Voltage-Dependent, R Type Alpha 1E Subunit Polymorphisms in Concussed Athletes. National Athletic Trainers' Association. June, 2015. Poster Presentation.
91. Ma L, Kawata K, Hwang SJ, Moore LB, **Tierney R**, & Jeka JJ. Increased upper trunk velocity during walking after mild head impact. *International Society for Posture and Gait Research World Congress*. June 2015. Seville, Spain.
90. **Tierney RT**. Genetics and Sport Concussion. Temple University Concussion Conference. June, 2015. Oral Presentation.
89. Mansell J, **Tierney RT**. Utilizing ocular motor assessments in the management of concussed athletes. Temple University Concussion Conference. June, 2015. Evidenced based practice lecture.

88. Mansell J, **Tierney RT**. Utilizing ocular motor assessments in the management of concussed athletes. Pennsylvania Athletic Trainer's Society Conference. June, 2015. Evidenced based practice lecture.
87. Mansell J, **Tierney RT**. Utilizing ocular motor assessments in the management of concussed athletes. Mid-Atlantic Athletic Trainer's Associations Conference. May, 2015. Evidenced based practice lecture.
86. Fettrow T, Vanderlinde dos Santos F, Rathore R, Ma L, Cheever K, Kawata K, Hwang SJ, **Tierney RT**, Jeka J. Vestibular function after kicking a soccer ball – Control study. College of Public Health Research Day. April, 2015. Poster Presentation.
85. Ma L, Hwang SJ, Moore L, **Tierney RT**, Jeka J. Mild head impacts induce immediate increase in trunk motion during treadmill walking. College of Public Health Research Day. April, 2015. Poster Presentation.
84. Bretzin A, Mansell J, McDevitt, **Tierney RT**. Effect of sex and anthropometrics on head impact kinematics during soccer heading. College of Public Health Research Day. April, 2015. Poster Presentation.
83. Clay H, Mansell J, **Tierney RT**. Association between rowing injuries and the functional movement screen in female collegiate Division I rowers. College of Public Health Research Day. April, 2015. Poster Presentation.
82. Kawata K, **Tierney RT**, Phillips J, Jeka J. Effect of sub-concussive impacts from soccer heading on ocular near point of convergence. College of Public Health Research Day. April, 2015. Poster Presentation. *Meritorious Award Winner*.
81. Anson E, Hwang S, **Tierney R**, Carey J, Jeka J. An app to measure the cost of visual acuity on a walking task. APTA Combined Sections Meeting, February 2015, Indianapolis, IN. Poster Presentation.
80. Hayes DJ, McDevitt JK, **Tierney RT**, Mansell JL. Calcium Channel, Voltage-Dependent, R Type Alpha 1E Subunit Polymorphisms in Concussed Athletes. Eastern Athletic Trainers' Association. January 2015. Poster Presentation.
79. Schaffer ML, Phillips JM, Kampa CJ, Mansell JL, **Tierney RT**. Effect of Head Impact Response on Neurocognitive Performance. Eastern Athletic Trainers' Association. January 2015. Poster Presentation.
78. Madura S, McDevitt JK, **Tierney RT**, Mansell JL, Hayes DJ, Krynetskiy E. *VGLUT1* Genetic Variation Association to Sport-Related Concussions. Eastern Athletic Trainers' Association. January 2015. Poster Presentation. *Graduate Award Finalist*.
77. Phillips JM, **Tierney RT**. Effect of Target Type on Ocular Near Point of Convergence in a Healthy, Active Collegiate Population. Eastern Athletic Trainers' Association. January, 2015. Poster Presentation.

76. Cattano NM, Driban JB, Barbe MF, Amin M, **Tierney R**, & Sitler MR: Biomarker Response After an Acute Running Bout in Participants with and without an Acute Knee Injury History. Eastern Athletic Trainers' Association. January 2015. *Graduate Award Winner*.
75. **Tierney RT**, Kawata K, Phillips J, Jeka J Effect of sub-concussive impacts from soccer heading on ocular near point of convergence. Eastern Athletic Trainers' Association. January 2015. Poster Presentation.
74. Jeka JJ, Hwang SJ, Agada P, Moore L, **Tierney R**. Sub-concussive head impact affects multisensory processing for upright standing. 44th annual meeting of the Society for Neuroscience, November 2014. Washington, DC. Poster presentation.
73. Hwang S, Kawata K, Ma L, Lee H, Moore LB, Agada P, Thompson E, Krynetskiy E, Park J, **Tierney RT**, Jeka J. Vestibular-Cognitive-Postural Effects and a Biomarker Signature from Sub-Concussive Head Impact. 44th annual meeting of the Society for Neuroscience, Washington, DC. November 2014. Poster presentation.
72. McDevitt J, **Tierney RT**, Phillips J, Torg J, Krynetskiy E. N-Methyl-D-aspartic acid Receptor Subunit NR2A Repeat Polymorphism and Sport Concussion. America Academy of Sports Medicine July, 2014. San Francisco, CA. Oral presentation.
71. **Tierney RT**, Kawata K, Phillips J, Jeka J. Effect of sub-concussive impacts from soccer heading on near point of convergence. American Academy of Neurology Sport Concussion Conference. July 2014. Chicago, IL. Poster presentation.
70. **Tierney RT**. Current concepts in Concussion Management. Pennsylvania Athletic Trainers' Society. June 2014, Gettysburg, PA. 3 hr minicourse.
69. McDevitt J, **Tierney RT**, Phillips J, Torg J, Krynetskiy E. N-Methyl-D-aspartic acid Receptor Subunit NR2A Repeat Polymorphism and Sport Concussion. Genomics at Temple: Research at the interface of Data and Computation. May, 2014.
68. McDevitt J, **Tierney RT**, Phillips J, Torg J, Krynetskiy E. N-Methyl-D-aspartic acid Receptor Subunit NR2A Repeat Polymorphism and Sport Concussion. Eastern Athletic Trainers' Association. January 2014. Oral presentation. *Grant Award Winner*.
67. **Tierney RT**. Current topics in concussion research. West Chester University CEU Conference: Current topics in sports medicine. November, 2013.
66. **Tierney RT**. Incorporating vestibular assessment and therapy into your concussion management program. Lab Leader - Higgins M. Lab Assistants –, Mansell J, McDevitt J, Leonard M, Greicar M. National Athletic Trainers' Association. June 2013, Las Vegas, NV. 2 hour learning lab.
65. Ryan C, Paden A, **Tierney RT**, McDevitt J, Higgins M. Facemask removal of commonly worn lacrosse helmets. National Athletic Trainers' Association. June 2013, Las Vegas, NV. Oral presentation.

64. McDevitt JK, Bright NL, **Tierney RT**, & Komaroff E. Concussion Occurrence and Perception Survey for Athletes (COPSA). National Athletic Trainers' Association. June 2013, Las Vegas, NV. Oral presentation.
63. Hoogeveen AM, **Tierney RT**, McDevitt JK, Dorminy ML, Higgins M. Effect of Ball Speed During Soccer Heading on Concussion Assessment Scores. National Athletic Trainers' Association Annual Convention. June, 2013. Las Vegas, NV. Poster presentation.
62. Russ AC, Yingling VR, Stearne D, Anastasio SM, **Tierney RT**, Moffit DM. Sex, Hormones, and Use of Contraceptives on Neuromuscular Function. National Athletic Trainers' Association Annual Convention. June, 2013. Las Vegas, NV. Poster presentation.
61. Butcher L, **Tierney RT**. Psychological considerations in sport concussion return to play. Keystone Health Promotion Conference. June, 2013. Harrisburg, PA.
60. **Tierney RT**. Sport concussion pathomechanics and recognition. Keystone Health Promotion Conference. June, 2013. Harrisburg, PA.
59. Bright N, **Tierney RT**, Phillips J, McDevitt J, Krynetskiy E. N-Methyl-d-Aspartic Acid receptor Subunit NR2B polymorphism and Sport Concussion. Pennsylvania Athletic Trainers' Society Annual Convention. June, 2013. Wilkes Barre, PA. Oral Presentation.
58. McDevitt JK, Bright NL, **Tierney RT**, Komaroff E. Concussion Occurrence and Perception Survey for Athletes (COPSA). Eastern Athletic Trainers' Association. January 2013, Buffalo, NY. Oral presentation. *Graduate Student Award Winner.*
57. Ryan C, Paden A, **Tierney RT**, McDevitt J, Higgins M. Facemask removal of commonly worn lacrosse helmets. Eastern Athletic Trainers' Association. January 2013, Buffalo, NY. Poster presentation. *Graduate Student Award Winner.*
56. Thomas S, Driban J, **Tierney RT**. Basic Science Research- Where's the Clinical Relevance: Genetic markers and sport concussion. National Athletic Trainers' Association Annual Convention. June, 2012. St Louis, MO.
55. **Tierney RT**, McDevitt J. What secondary school personnel should know about sport concussion. Keystone Health Promotion Conference. June, 2012. Harrisburg, PA.
54. McDevitt J, **Tierney RT**, Mansell JL, Higgins M, Toone N, Mishra A, Krynetskiy E. Neuronal Structural Protein Polymorphisms and MTBI in College Athletes. February, 2012. Temple Pharmacy School, Philadelphia, PA. Poster presentation. *Award winner.*
53. **Tierney RT**, Mansell JL, Higgins M, McDevitt J, Bright, N, Gaughan, J, Mishra A, Krynetskiy E. Apolipoprotein E Polymorphisms and Concussion in College Athletes. Mid Atlantic Region Conference, American College of Sports Medicine. November 2010. Harrisburg, PA. Oral presentation.

52. **Tierney RT**. Genotype, Athletic Injury and Performance. National Athletic Trainers' Association Annual Convention. June, 2010. Philadelphia, PA. Workshop lecture.
51. **Tierney RT**, Torg, J. Translational Research and Athletic Neurotrauma. 11th Annual Philadelphia Sports Medicine Congress. June, 2010. Philadelphia, PA.
50. **Tierney RT**, Mansell JL. Genotype and Athletic Injury. Pennsylvania Athletic Trainers Society. June, 2010. Harrisburg, PA. Invited lecture.
49. Mansell J, **Tierney RT**, Driban J, Higgins M, Clegg S, Kyrnetskiy E, Mishra A. Translational Research Model to Assess the Role of Genetics in Concussion. Pennsylvania Athletic Trainers Society Convention. June, 2010. Harrisburg, PA. Poster Presentation.
48. Fingler J, **Tierney RT**, Stearne D, Torg J. Gender Differences in Landing Kinetics from Different Landing Heights. Pennsylvania Athletic Trainers Society Convention. June, 2010. Harrisburg, PA. Poster Presentation.
47. Mansell J, **Tierney RT**, Driban J, Higgins M, Clegg S, Kyrnetskiy E, Mishra A. Translational Research Model to Assess the Role of Genetics in Concussion. National Athletic Trainers' Association Annual Convention. June, 2010. Philadelphia, PA. Oral Presentation.
46. McDevitt J, **Tierney RT**, Mansell JL, Higgins M, Toone N, Mishra A, Krynetskiy E. Neuronal Structural Protein Polymorphisms and MTBI in College Athletes. National Athletic Trainers' Association Annual Convention. June, 2010. Philadelphia, PA. Oral presentation.
45. Haran J, **Tierney RT**, Sitler M, Keshner E, Wright G. Alterations in Postural Control Following an Acute Bout of Soccer Heading. National Athletic Trainers' Association Annual Convention. June, 2010. Philadelphia, PA. Poster presentation.
44. McDevitt J, **Tierney RT**, Mansell JL, Higgins M, Toone N, Mishra A, Krynetskiy E. Neuronal Structural Protein Polymorphisms and MTBI in College Athletes. Eastern Athletic Trainers' Association. January 2010. Boston, MA. Poster presentation. *Graduate Student Award Winner*.
43. **Tierney RT**. How to Play, Stay, and Return to the Field. Temple University School of Medicine Pediatric Novemberfest. November, 2009. Atlantic, NJ. Invited lecture.
42. **Tierney RT**. Concussion Prevention Strategies. Pennsylvania Athletic Trainers Society. June 2009. Johnstown, PA. Invited lecture.
41. **Tierney RT**. Genetics and Athletic Injury. National Athletic Trainers' Association. June 2009. San Antonio, TX. Workshop lecture.
40. **Tierney RT**, Mansell JL, Higgins M, McDevitt J, Toone N, Mishra A, Krynetskiy E. Apolipoprotein E Polymorphisms and Concussion in College Athletes. National Athletic Trainers' Association. June 2009. San Antonio, TX. Oral presentation.

39. Mansell JL, **Tierney RT**, Higgins M, McDevitt J, Toone N, Glutting J. Concussion signs and symptoms following head impacts in college athletes with a previous concussion. National Athletic Trainers' Association. June 2009. San Antonio, TX. Poster presentation.
38. Stearne D, Sato N, Sitler M, **Tierney RT**. Relationship of Foot Type and Fatigue to Hip Neuromuscular Control and Lower Extremity Kinetics. National Athletic Trainers' Association. June 2009. San Antonio, TX. Oral presentation.
37. Sato N, Stearne D, Sitler M, **Tierney RT**. Relationship of Foot Type and Fatigue to Hip Neuromuscular Control and Lower Extremity Kinetics. Eastern Athletic Trainers' Association. *Masters Student Research Poster Award*. January 2009. Boston, MA. Poster presentation.
36. Myles A, Haran, FJ, **Tierney RT**. Assessment of postural control following an acute bout of soccer heading. Eastern Athletic Trainers' Association. *Masters Student Research Poster Award Finalist*. January 2009. Boston, MA. Poster presentation.
35. Shultz SP, Sitler MR, **Tierney RT**, Hilstrom H, Sung J. Frontal plane joint biomechanics in overweight and normal weight children during self selected and fast walking speeds. The Obesity Society Annual Scientific Meeting. October 2008. Poster presentation.
34. Shultz SP, Sitler MR, **Tierney RT**, Hilstrom H, Sung J. Structural integrity of the longitudinal arch in overweight children compared to normal weight children. The Obesity Society Annual Scientific Meeting. October 2008. Poster presentation.
33. Shultz SP, Sitler MR, **Tierney RT**, Hilstrom H, Sung J. Sagittal plane joint biomechanics in overweight and normal weight children during self selected and fast walking speeds. The Obesity Society Annual Scientific Meeting. October 2008. Poster presentation.
32. Moffit DM, Sitler MR, Russ AC, **Tierney RT**. Acoustic perturbation influences on neuromuscular hamstring/quadriceps coactivation and functional stability. National Athletic Trainers' Association. June 2008. Oral presentation.
31. Markis EA, **Tierney RT**, Driban J, Higgins M. Evaluation of head impact acceleration during soccer heading in high school athletes. National Athletic Trainers' Association. June 2008. Oral presentation.
30. Russ AC, Sitler MR, Moffit DM, & **Tierney RT**. Effects of an acoustic perturbation influences on neuromuscular activation and functional stability in the ankle during a functional activity. National Athletic Trainers' Association. June 2008. Poster presentation.
29. Higgins M, Caswell S, **Tierney RT**. Towson University Academy of Scholars, April, 2008. Topic: Emergency care of the cervical-spine injured lacrosse athlete. Invited expert discussant.
28. **Tierney RT**. Temple University Athletic Training Research. Pennsylvania Athletic Trainers' Society Student Symposium. February, 2008. Invited Presentation.

27. Higgins M, **Tierney RT**, Driban J, Edell S, Watkins R. Effect of lacrosse equipment on cervical space available for the spinal cord. Eastern Athletic Trainers' Association. January 2008.
26. Kaminski T, Guskiewicz K, **Tierney RT**, Patukian M. Heading in the right direction? An in-depth analysis of head safety in sport including the safety of purposeful heading in soccer and concussion in American football. American College of Sports Medicine. June, 2007. Oral Presentation, Panel Discussion.
25. **Tierney RT**, Higgins M, Caswell S, Brady J, McHardy K, Driban J, Darvish K. Gender Differences in Head and Neck Kinematics and Dynamic Stabilization during Soccer Heading With and Without Soccer Headgear. Eastern Athletic Trainers' Association. January 2007. *Research Grant Award Oral Presentation*.
24. **Tierney RT**, Higgins MJ, Caswell SV, Brady JL, McHardy K, Driban JB. Gender Differences in Head Acceleration during Soccer Heading Wearing Soccer Headgear. National Athletic Trainers' Association Annual Convention. June 2007. Oral Presentation.
23. Higgins MJ, **Tierney RT**, Caswell SV, Brady JL, McHardy K, Driban JB. An Intraoral Mouthpiece is a Reliable Technique for Measuring Head Acceleration during Soccer Heading. National Athletic Trainers' Association Annual Convention. June 2007. Oral Presentation.
22. Wilbar KL, Foulke KW, **Tierney RT**, Driban JB, Higgins MJ, Shultz SP. Effect of Plyometric Neck Muscle Training on Head-Neck Segment Kinematics and Dynamic Stabilization During Soccer Heading. National Athletic Trainers' Association Annual Convention. June 2007. Oral Presentation.
21. Natale J, Swanik KA, **Tierney RT**, Thomas SJ. The Effect of Shoulder Plyometric Training on Scapular Upward Rotation. National Athletic Trainers' Association Annual Convention. June 2007. Oral Presentation.
20. Stearne D, Davis KF, Sitler MR, **Tierney RT**. Gender Differences in Hip Strength, Muscle Activation, and Dynamic Stability during a Functional Landing task National Athletic Trainers' Association Annual Convention. June 2007. Poster Presentation.
19. Benjamin L, Sitler M, Moffit D, **Tierney RT**. Relationships among Neuropsychological and Neuromuscular Factors in Physically Active Healthy Males. National Athletic Trainers' Association Annual Convention. June 2007. Oral Presentation.
18. Fath P, Swanik KA, Thomas SJ, Huxel K, **Tierney RT**. The Effects of Scapular Fatigue on Glenohumeral and Elbow Kinematics during Overhead Throwing in Collegiate Baseball Players. National Athletic Trainers' Association Annual Convention. June 2007. Oral Presentation.
17. Higgins M, **Tierney RT**, Caswell S, Brady J, McHardy K, Driban J. Reliability of an Intraoral Mouthpiece Accelerometer When Measuring Head Acceleration during Soccer Heading. Eastern Athletic Trainers' Association Annual Convention. January 2007. Poster Presentation.

16. Stearne D, Sitler MR, **Tierney RT**, Covassin TM, Davis KF, Swanik CB. Gender Differences on Neuromuscular Control of the Hip: Implications for Knee Joint Stability and Non-Contact Anterior Cruciate Ligament Injury. Eastern Athletic Trainers' Association Annual Convention. January 2007. *Graduate Student Research Award Oral Presentation.*
15. Benjamin L, Sitler MR, Moffit D, **Tierney RT**. Relationships among Neuropsychological and Neuromuscular Factors in Physically Active Healthy Males. Eastern Athletic Trainers' Association Annual Convention. January 2007. *Graduate Student Research Award Poster Presentation.*
14. Wilbar K, Foulke K, **Tierney RT**, Driban J, Higgins M, Shultz S. Effect of Plyometric Neck Muscle Training on Head and Neck Kinematics and Dynamic Stabilization during Soccer Heading – A Pilot Study. Eastern Athletic Trainers' Association. January 2007. Poster Presentation.
13. Stearne D, Sitler MR, **Tierney RT**, Covassin TM, Davis KF, Swanik CB. Gender Differences on Neuromuscular Control of the Hip: Implications for Knee Joint Stability and Non-Contact Anterior Cruciate Ligament Injury. National Athletic Trainers' Association Annual Convention. June 2006. Oral Presentation.
12. **Tierney RT**, Higgins M, Caswell S, Brady J, McHardy K, Driban J, Sitler M. Gender Differences in Head and Neck Kinematics and Dynamic Stabilization During Soccer Heading With and Without Soccer Headgear. Pennsylvania Athletic Trainers' Society Annual Convention. June 2006. *Research Grant Award Oral Presentation.*
11. Mansell J, **Tierney RT**, Sitler MR, Swanik KA, Stearne D. Effect of Resistance Training on Head-Neck Segment Dynamic Stabilization in Male and Female Intercollegiate Soccer Players. National Athletic Trainers' Association Annual Convention. June 2005. Poster Presentation. *Student Research Award Finalist.*
10. **Tierney RT**, Mansell J, Sitler MR, Swanik KA, Stearne D. Effect of Resistance Training on Head-Neck Segment Dynamic Stabilization in Male and Female Intercollegiate Soccer Players. 6th Annual Philadelphia Sports Medicine Congress. June 2005. Oral Presentation.
9. Swanik CB, Swanik KA, Huxel KC, **Tierney RT**, Hamstra KL, Hillstrom HJ. Drop Jumps from an Unknown Height: A Gender Comparison of EMG and Kinematics for Non-contact Injury Mechanisms. American Academy of Orthopedic Surgeons. February 2005. Poster Presentation. *1st place award in the Sports Medicine/Arthroscopy section.*
8. **Tierney RT**, Sitler MR, Swanik CB, Swanik KA, Higgins M, Torg JS. Gender Differences in Head-Neck Segment Dynamic Stabilization During Head Acceleration. National Athletic Trainers' Association Annual Convention. June 2004. Oral Presentation.
7. Sitler MR, **Tierney RT**, Swanik CB, Swanik KA, Higgins M, Torg JS. Force Application and Direction Effect Head-Neck Segment Acceleration. National Athletic Trainers' Association Annual Convention. June 2004. Poster Presentation.

6. **Tierney RT**, Mattacola CG, Sitler MR, Maldjian C. Comparison of Cervical Stenosis Measures in Normal Subjects. National Athletic Trainers' Association Annual Convention. June 2001. Oral Presentation.
5. **Tierney RT**, Mattacola CG, Sitler MR, Maldjian C. Comparison of Cervical Stenosis Measures in Normal Subjects. Temple University Educational Research Association. May 2001. Oral Presentation.
4. Cherubini J, Hamstra K, **Tierney RT**. Relationship Between H-Reflex, Muscle Stiffness, & Psychological Factors. Northeastern Atlantic Sports Psychology Conference. March 2001. Oral Presentation.
3. **Tierney RT**, Mattacola CG, Sitler MR, Maldjian C. Effect of Head Position and Football Equipment on Cervical Spinal Cord Space. National Athletic Trainers' Association Annual Convention. June 2000. Oral Presentation.
2. **Tierney RT**, Mattacola CG, Sitler MR, Maldjian C. Effect of Head Position and Football Equipment on Cervical Spinal Cord Space. Temple University Educational Research Association. May 2000. Oral Presentation.
1. **Tierney RT**, Mattacola CG, Sitler MR, Maldjian C. Effect of Head Position and Football Equipment on Cervical Spinal Cord Space. Southeastern Athletic Trainers' Association. March 2000. Poster Presentation.

PUBLISHED ABSTRACTS

32. Mansell JL, **Tierney RT**, Driban J, Higgins M, Clegg S, Mishra A, Krynetskiy E. (2010). Model to assess factors underlying variable responses to head impact. *J Athl Train*, 45(3), S-30.
31. McDevitt J, **Tierney RT**, Mansell J, Driban J, Higgins M, Toone N, Mishra A, Krynetskiy E. (2010). Neuronal structural protein polymorphism and concussion in college athletes. *J Athl Train*, 45(3), S-31.
30. Haran FJ, **Tierney RT**, Wright WG, Keshner EA, Sitler MR. (2010). Alterations in postural control following an acute bout of soccer heading. *J Athl Train*, 45(3), S-93.
29. **Tierney RT**, Mansell JL, Higgins M, McDevitt J, Toone N, Mishra A, Krynetskiy E. (2009). Apolipoprotein E polymorphisms and concussion in college athletes. *J Athl Train*, 44(3), S-46.
28. Mansell JL, **Tierney RT**, Higgins M, McDevitt J, Toone N, Glutting J. (2009). Concussion signs and symptoms following head impacts in college athletes with a previous concussion. *J Athl Train*, 44(3), S-92.
27. Stearne D, Sato N, Sitler M, **Tierney RT**. (2009). Relationship of foot type and fatigue to hip neuromuscular Control and Lower Extremity Kinetics. *J Athl Train*, 44(3), S-64.
26. Moffit DM, Sitler MR, Russ AC, **Tierney RT**. (2008). Acoustic perturbation influences on neuromuscular hamstring/quadriceps coactivation and functional stability. *J Athl Train*. 43(3), S-13.

25. Markis EA, **Tierney RT**, Driban J, Higgins M. (2008). Evaluation of head impact acceleration during soccer heading in high school athletes. *J Athl Train.* 43(3), S-32.
24. Russ AC, Sitler MR, Moffit DM, **Tierney RT**. (2008). Effects of an acoustic perturbation influences on neuromuscular activation and functional stability in the ankle during a functional activity. *J Athl Train.* 43(3), S-107.
23. **Tierney RT**, Higgins, M, Caswell SV, Brady JL, McHardy K, Driban JB. (2007). Gender differences in head acceleration during soccer heading wearing soccer headgear. *J Athl Train.* 42(2), S-27.
22. Higgins MJ, **Tierney RT**, Caswell SV, Brady JL, McHardy K, Driban JB. (2007). An intraoral mouthpiece is a reliable technique for measuring head acceleration during soccer heading. *J Athl Train.* 42(2), S-28.
21. Wilbar KL, Foulke KW, **Tierney RT**, Driban,JB, Higgins MJ, Shultz SP. (2007). Effect of plyometric neck muscle training on head-neck segment kinematics and dynamic stabilization during soccer heading. *J Athl Train.* 42(2), S-27.
20. Natale J, Swanik KA, **Tierney RT**, Thomas SJ. (2007). The Effect of shoulder plyometric training on scapular upward rotation. *J Athl Train.* 42(2), S-18.
19. Stearne D, Davis KF, Sitler, MR, **Tierney RT**. (2007). Gender Differences in hip strength, muscle activation, and dynamic stability during a functional landing task. *J Athl Train.* 42(2), S-103.
18. Benjamin L, Sitler M, Moffit D, **Tierney RT**. (2007). Relationships among neuropsychological and neuromuscular factors in physically active healthy males. *J Athl Train.* 42(2), S-64.
17. Fath P, Swanik KA, Thomas SJ, Huxel K, **Tierney RT**. (2007). The effects of scapular fatigue on glenohumeral and elbow kinematics during overhead throwing in collegiate baseball players. *J Athl Train.* 42(2), S-9.
16. Stearne D, Sitler, MR, **Tierney RT**, Covassin TM, Davis KF, Swanik CB. (2006). Gender differences on neuromuscular control of the hip: Implications for knee joint stability and non-contact anterior cruciate ligament injury. *J Athl Train.* 41(2), S-68.
15. Mansell J, **Tierney RT**, Sitler MR, Swanik KA, Stearne D. (2005). Effect of resistance training on head-neck segment dynamic stabilization in male and female intercollegiate soccer players. *J Athl Train.* 40(2); S-100.
14. **Tierney RT**, Sitler MR, Swanik CB, Swanik KA, Higgins M, Torg JS. (2004). Gender differences in head-neck segment dynamic stabilization during head acceleration. *J Athl Train.* 39(2); S-20.
13. Sitler MR, **Tierney RT**, Swanik CB, Swanik KA, Higgins M, Torg JS. (2004). Force Application and Direction Effect Head-Neck Segment Acceleration. *J Athl Train.* 39(2); S-118.

12. Swanik CB, Swanik, KA, Huxel KC, Hamstra KL, **Tierney RT**, Hilstrom HJ. (2004). Gender Differences in Drop Jumps from Unknown Heights: An EMG and Kinematic Analysis. *J Athl Train*. 39(2); S-14.
11. Wingate N, Swanik, CB, **Tierney RT**. (2003). Effect of Various Audio Disturbances on Postural Stability. *J Athl Train*. 38(2); S-105.
10. Weise K, Sitler M, **Tierney RT**, Swanik, K. (2003). Effectiveness of Glenohumeral Joint Stability Braces on Limiting Active and Passive Ranges of Motion in College Football Players. *J Athl Train*. 38(2); S-88.
9. Stabilito N, Swanik CB, Swanik KA, **Tierney RT**. (2003). Effect of Plyometrics on Muscle Performance in Adolescent Female Athletes. *J Athl Train*, 38(2), S-85.
8. Swanik CB, Swanik KA, Huxel, KC, **Tierney RT**, Hamstra KL, Hilstrom HJ. (2003). EMG and Kinematic Analysis of Drop Jumps from an Unknown Height: A Mechanism for Non-contact Injuries. *J Athl Train*, 38(2), S-18.
7. Cherubini JM, **Tierney RT**, Hamstra KL, Huxel KC, Swanik CB. (2002). The Relationship among Anxiety, Coping Resources, Mood States, and Muscle Tone. In Association for the *Advancement of Applied Sport Psychology - Conference Proceedings*, p. 56. Denton, TX: Ron Jon Publishing, Inc.
6. Hamstra K, Swanik CB, **Tierney RT**, Cherubini J, Huxel K. (2002). Relationship Between Muscle Tone and Dynamic Restraint in the Physically Active. *J Athl Train*, 37(2), S-41.
5. Lamelle-Sharp A, Swanik CB, Swanik KA, **Tierney RT**. (2002). Effect of Variable Joint Loads Knee Joint Position Sense. *J Athl Train*, 37(2), S-29.
4. Purington D, **Tierney RT**, Swanik CB, Swanik KA. (2002). Gender Differences in Elbow Strength and Kinematics During Gymnastics Tumbling Maneuvers. *J Athl Train*, 37(2), S-20.
3. **Tierney RT**, Maldjian C, Mattacola CG, Sitler MR. (2001). Comparison of Spinal Stenosis Measures in Normal Subjects. *J Athl Train*, 36(2), S-27.
2. Cherubini J, Hamstra K, **Tierney RT**. (2001). Relationship Among H-Reflex, Muscle Stiffness, and Psychological Factors. The Third Annual Northeast Atlantic Sport Psychology Conference: Conference Abstracts (1st Ed.).
1. **Tierney RT**, Mattacola CG, Sitler MR, Maldjian C. (2000). Effect of Head Position and Football Equipment on Cervical Spinal Cord Space. *J Athl Train*, 35(2), S-27.

COMMITTEE MEMBER

DOCTORAL (* = committee chair)

20. Thompson E (August 18). Improving walking in individuals with Parkinson's Disease through wearable technology.

19. Cheever KM* (August, 2018). Effect of exposure to contact sport participation on cervical spine sensorimotor performance.
18. Wilson B (2016). Effects of voluntary exercise preconditioning on left ventricular systolic function and cardiac autophagy in angiotensin II-induced hypertensive mice.
17. Kawata K* (2016). Effect of subconcussive head impacts on blood markers in collegiate football players.
16. Caccese JB. (June, 2016; University of Delaware) Head Acceleration Across Youth, High School, and Collegiate Soccer Players.
15. Lee H (2016). Exercise-induced myonuclear accretion: Implications for muscle hypertrophy and mitochondrial remodeling following resistance exercise training.
14. Phillips J* (2016). Clinical Usefulness of Ocular Tests for Diagnosing Concussions.
13. Agresta C (2015). The Influence of Functional Muscle Synergies on Kinematics and Kinetics during Running.
12. Cattano NM (January, 2015). Biomarker Response after an Acute Running Bout in Participants With and Without an Acute Knee Injury History.
11. Karagiannopoulos C (January, 2015). Responsiveness of the Active Wrist Joint Position Sense Test as Influenced by Pain Status Following Distal Radius Fracture Intervention.
10. McGuire L (2014). Temporal Changes in Depression and neurocognitive performance in collegiate student-athletes: A Repeated Measures Evaluation Pre- and Post-Concussion Injury.
9. Bright N* (August, 2013). N-Methyl-d-Aspartic Acid receptor Subunit NR2B polymorphism and Sport Concussion.
8. McDevitt J* (2013). N-Methyl-d-Aspartic Acid receptor Subunit NR2A polymorphism and Sport Concussion.
7. Russ AC (2012). Hormones, and Use of Contraceptives on Muscle Strength, Stiffness, and Activation.
6. Mansell JL* (2012). APOE Genotype and Head Impact Response in High School Athletes.
5. Haran J* (2009). Alterations in Postural Control Following an Acute Bout of Soccer Heading.
4. Moffit D (2008). Neuropsychological Influences on Non-Contact Anterior Cruciate Ligament Injury.
3. Shultz S (2008). Lower Extremity Biomechanical Assessment of Overweight and Normal Weight Children during Normal and Fast Walking.

2. Helmsley K (2007). Neuromuscular and Psychological Influences on Range of Motion Recovery Rate in Anterior Cruciate Ligament Reconstruction Rehabilitation Patients.

1. Stearne D (2006). Gender Differences in Hip Dynamic Stabilization: Implications for Non-Contact Anterior Cruciate Ligament Injury.

MASTERS (* = committee chair)

52. Coy*. Normative Values for the Vestibular/Ocular Motor Screen (VOMS) in a Healthy Collegiate Population.

51. Bistline J* (2018). Sex Differences in Ocular-Motor Function Among Collegiate Club Rugby Players.

50. Ratka J* (2018). The Effects of Fatigue on Vestibular Ocular Motor Screening Performance.

49. Lee J*(2017). SOT and BESS normative data in college aged population.

48. Ruiz M*(2017). Effect of VR based ocular motor training on visual performance.

47. Halvorson K* (2017). Effect of clinic-based ocular motor training on visual performance.

46. Lindsey J* (2016). Effect of fatigue on ocular motor assessments.

45. Bretzin A (2015). Effect of sex and anthropometrics on head impact kinematics during soccer heading.

44. Senif D (2015). Effect of neurocognitive training on ImPACT performance.

43. Clay H (2015). Association between rowing injuries and the functional movement screen in female collegiate Division I rowers.

42. Kampa C* (2014). Head impact response and quality of life.

41. Schaffer M* (2014). Head impact response and neurocognitive performance over a season.

40. Hayes DJ* (2014). Calcium Channel Voltage-Dependent R Type Alpha 1E Subunit Polymorphism and Sport Concussion Recovery and Severity.

39. Madura S* (2014). VGLUT1 polymorphism and Sport Concussion Recovery and Severity.

38. Price T* (2013). Relationship between BESS and dynamic visual acuity.

37. Neri S* (2013). Evidence practice paper: Is protective equipment effective in reducing concussion risk or severity.

36. Maskery M (2013). Injury epidemiology in collegiate club sports.
35. Kawata K (2013). Endurance exercise training without cognitive intervention is not sufficient to induce mitochondrial biogenesis in mouse brain.
34. Bordignon S* (2013). Dynamic visual acuity in a healthy college age population.
33. Anastacio S (2013). Effect of hormones on Hip Muscle Activation.
32. Dorminy M* (2012). Effect of soccer heading ball speed on head kinematics and brain injury protein marker.
31. Hoogeveen A* (2012). Effect of soccer heading ball speed on head kinematics and concussion sideline tests.
30. Oxenford M (2012). Pilot study: CA-MRSA can survive on artificial turf surface under environmental conditions.
29. Paden A* (2012). Comparison of lacrosse and football helmet facemask removal.
28. Reiger J (2012). The effect of short-term high-impact jumping on bone metabolism in oral contraceptive users.
27. Ryan C* (2012). Facemask removal of commonly worn lacrosse helmets.
26. Woodman H* (2011). Effect of soccer heading on concussion sideline tests in youth soccer players.
25. Cicia K* (2011). Effect of age on head impact acceleration during soccer heading.
24. Castellanos K (2010). Effect of an Acoustic Startle on Neck Muscle Activity During Soccer Heading.
23. Cintron R* (2010). APOE Promoter Genotype and Concussion in Collegiate Athletes.
22. Fingler J* (2010). Gender Differences in Landing Kinetics from Two Heights.
21. Harris K (2010). Osteoarthritis in an Athletic Population: A Systematic Review.
20. Kishimoto K (2010). Effect of Jump Training on Bone Formation Proteins.
19. Phillips J* (2010). APOE E4 Genotype and Concussion in Collegiate Athletes.
18. Poulos J* (2010). The Neuropsychological Impact of Sports-Related Concussion: A Meta-Analysis. Evidence Based Practice Paper.
17. Robinson L. (2010) Evidence Based Practice Paper on Meniscal Evaluation Techniques.

16. Butler T (2009). The Effect of Delayed Puberty on the Growth Plate.
15. Jenkin M (2009). Clinical Usefulness of the Ottawa Ankle Rules for Detecting Fractures of the Ankle and Mid-foot.
14. McDevitt J* (2009). Neuronal Structural Protein Polymorphisms and MTBI in College Athletes.
13. Myles A* (2009). Assessment of Postural Control Following an Acute Bout of Soccer Heading.
12. Rigsby R (2009). Assessment of Certified Athletic Trainers Use of Shoulder Stability Index tests.
11. Toone N* (2009). Glial Fibrillary Acidic Protein Polymorphism and Concussion in Collegiate Athletes.
10. Clegg S* (2008). Effect of Soccer Heading on Brain Injury Protein Marker Serum Levels.
9. Leopanto C (2008). Pilot Study Assessing Articular Cartilage from Multiple Regions of Late Stage Osteoarthritic Knees.
8. Sato N (2008). Relationship of Foot Type and Fatigue to Hip Neuromuscular Control and Lower Extremity Kinetics.
7. Foulke K* (2007). Effect of Plyometric Training on Head-Neck Segment Dynamic Stabilization during Soccer Heading.
6. Markis E* (2007). Gender Differences in Head-Neck Segment Kinematics and Dynamic Stabilization during Heading in High School Soccer Players.
5. Wilbar K* (2007). Effect of Plyometric Training on Head-Neck Segment Kinematics during Soccer Heading.
4. Brady J* (2006). Gender Differences in Head-Neck Segment Kinematics and Dynamic Stabilization during Soccer Heading.
3. Fath P (2006). The effects of scapular fatigue on gleno-humeral and elbow kinematics during overhead throwing in collegiate baseball players.
2. McHardy K* (2006). Effect of Headgear on Head Impact Acceleration During Soccer Heading.
1. Natale J (2006). Effect of Plyometric Training on Scapular Kinematics during Gleno-humeral Abduction.

MEDIA INTERVIEWS

5. Temple joins NCAA-DOD Grand Alliance Concussion Study. (2016)
http://www.philly.com/philly/health/20160310_Temple_Penn_picked_to_join_30M_concussion_study.html
4. WHYY RadioTimes with Marty Moss-Coane. Sport Concussion. (December, 2015).
<http://whyy.org/cms/radiotimes/2015/12/23/the-new-film-concussion-the-latest-research-on-concussions/>
3. Is there a Concussion Gene? CNN. (2011).
<http://www.cnn.com/video/#/video/health/2011/09/20/hm-concussion-gene.cnn>
2. Looking for a genetic link to concussions. WHYY. (2011).
<http://www.newsworks.org/index.php/homepage-feature/item/24544-looking-for-a-genetic-link-to-concussions>
1. Commentary on Michael Vick throwing mechanics. Fox News Philadelphia TV. November 16, 2010.

TEACHING

Temple University

Undergraduate

KIN1180	Computer Applications in Kinesiology
KIN1223	Anatomy and Physiology I Lecture and Lab
KIN1442	Basic Techniques in Athletic Training
KIN1444	Movement Injuries: Care and Prevention
KIN3202	Biomechanics of Physical Activity Lecture and Lab
KIN3343	Head, Neck, and Spine
KIN4282	Independent Study in Kinesiology
KIN4808	Sport Concussion (Online)

Graduate

KIN5202	Biomechanics of Skeletal Tissue
KIN5808	Advanced Sport Concussion (Hybrid/Online)
KIN8300	Seminar in Athletic Training
KIN8344	Orthopedics in Athletic Training/Sports Medicine
KIN8346	Practicum in Athletic Training
KIN8347	Practicum in Athletic Training
KIN8348	Laboratory Techniques in Athletic Training Research
KIN8349	Cadaver Anatomy
KIN9785	Internship in Kinesiology
PHTH8502/3	Human Gross Anatomy 1 & 2
KIN9882	Independent Research in Kinesiology
KIN9901	Research Methods
KIN9994	Preliminary Exam Preparation
KIN9995	Masters' Research in Kinesiology
KIN9996	Masters' Thesis in Kinesiology
KIN9998	Dissertation Proposal in Kinesiology

KIN9999 Dissertation in Kinesiology

ATHLETIC TRAINING EXPERIENCE

2005 – 2014 **Athletic Trainer**, Philadelphia School District, Philadelphia, PA.
2001 - 2002 **Head Athletic Trainer**, Girard College High School, Phila, PA.
2000 - 2002 **Athletic Trainer**, Scholastic Hockey League, Bucks County, PA.
1996 - 1997 **Head Athletic Trainer**, Harry S. Truman High School, Bristol, PA.
1995 - 1996 **Head Student Athletic Trainer**, University of Delaware, Newark, DE.

ORGANIZATIONS AND CERTIFICATIONS

2008-present Delaware Certified Athletic Trainer-L (J3-0000323)
1997-present Pennsylvania Certified Athletic Trainer-L (RT001689B)
1997-present Eastern Athletic Trainers' Association
1996-present NATA Certified Athletic Trainer (#089602684)
1996-present American Red Cross, CPR/AED for Professional Rescuer

TEMPLE UNIVERSITY SERVICE

2017- **Member:** CPH Sabbatical/Grant Review Committee
2016 **Member:** CPH Building Steering Committee
2014- **Member:** CPH Salary Advisory Committee
2010-2013, 2014-15 **Member:** CHPSW Student Appeals and Grievances Committee
2010-2013, 2014 **Member:** CHPSW Research, Study Leaves and Awards Committee
2014 **Member:** CPH Teaching Excellence Committee
2009-2013, 2014 **Member:** Faculty Senate
2008-2013 **Member/Chair:** CHPSW Research Day Convention Committee
2007-2013 **Member:** CHPSW Promotion and Tenure Committee
2004-present **Member/Chair:** Department of Kinesiology Awards Committee
1999-2000 **Co-Chair/Chair:** Teaching Matters Conference

PROFESSIONAL SERVICE

2016 (August) **External Reviewer:** Tenure and Promotion
2015-present **Editorial Board Member:** Athletic Training & Sports Health Care
2015-present **Commission for the Accreditation of Athletic Training Education (CAATE)**
Site Reviewer: Professional, Post-Professional, and Residency Athletic
Training Education programs
2015 **Conference Committee Organizer:** Temple University Brain Preparedness
Conference
2015 **Conference Committee Member:** Temple University Concussion Conference
2009-2014 **Post Professional Education Site Reviewer:** NATA Post-Professional
Educational Review Committee
2010-present **Research Committee:** Pennsylvania Athletic Trainers' Society
2009-present **Research Committee:** Eastern Athletic Trainers' Association
Research to Reality Subcommittee Chair (2009-2010)
Grant Subcommittee Chair (2011- 2014)
External Reviewer: NATAREF Free Communication Abstracts
External Reviewer: NATAREF Research Grants

Moderator: NATA Annual Convention Free Communications

COMMUNITY SERVICE

December, 2017
August, 2012
September, 2011
March, 2011
March, 2011
2010-2011

Concussion education: NJ State Police
Concussion education: Lecture to District 12 high school personnel. One of 24 speakers throughout Pennsylvania. Sponsored by PA Department of Health.
Business Leader: Group leader for Junior Achievement of Delaware event
Concussion education: Lecture to parents/coaches at EPYSA.
Concussion education: Lecture to parents/coaches at NJYSA.
Concussion education: Free physical day for SDPH high school athletes.

AWARDS

1996
1994
1993

Degree with Distinction: University of Delaware
Golden Key National Honor Society: University of Delaware
College Book Award for Academic Excellence: University of Delaware