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# JASON P. MIHALIK, PHD, CAT(C), ATC, FACSM, FNATA

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## **PERSONAL INFORMATION**

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## **EDUCATION**

**The University of North Carolina at Chapel Hill**, Chapel Hill, NC  
*Doctor of Philosophy, Interdisciplinary Curriculum in Human Movement Science, August 2009*  
School of Medicine, Department of Allied Health Sciences  
Member, Royster Society of Fellows  
Dissertation: The study of head impact biomechanics in adolescent and youth minor ice hockey players

**University of Pittsburgh**, Pittsburgh, PA  
*Master of Science, Sports Medicine, December 2004*  
School of Health and Rehabilitation Sciences, Department of Sports Medicine and Nutrition  
Thesis: The relationship between force platform measures and total body center of mass

**Concordia University**, Montreal, Quebec, Canada  
*Bachelor of Science, Exercise Science—Athletic Therapy Specialization, May 2001*  
Faculty of Arts and Science, Department of Exercise Science

## **PROFESSIONAL EXPERIENCE**

**The University of North Carolina at Chapel Hill**, Chapel Hill, NC  
***Department of Exercise and Sport Science, College of Arts and Sciences***  
*Associate Professor*, July 2016 to present  
*Assistant Professor*, July 2010 to June 2016  
*Co-Director, Matthew A. Gfeller Sport-Related TBI Research Center*, July 2011 to present  
*Kenan Junior Faculty Fellow*, July 2010 to June 2013  
*Director, Exercise and Sport Science Cadaver Anatomy Laboratory*, July 2009 to June 2017  
*Visiting Lecturer*, July 2009 to June 2010

***Department of Neurosurgery, School of Medicine***  
*Adjunct Associate Professor*, June 2017 to present

***Department of Allied Health Sciences, School of Medicine***  
*Adjunct Associate Professor*, July 2016 to present  
*Adjunct Assistant Professor*, November 2013 to June 2016

***Division of Occupational Science, Department of Allied Health Sciences, School of Medicine***  
*Adjunct Instructor*, Fall 2007 & 2008 (OCCT 718)

**University of Pittsburgh**, Pittsburgh, PA  
***Department of Sports Medicine, School of Health & Rehabilitation Sciences***

*Graduate Assistant/Athletic Trainer, August 2002 to May 2004*

**Concordia University**, Montreal, Quebec, Canada

**Department of Exercise Science**

*Teaching Assistant, August 2001 to May 2002*

### **HONORS**

- 2020 Fellow, National Athletic Trainers' Association
- 2018 Fellow, American College of Sports Medicine
- 2018 Military Health System Research Symposium Award for Excellence
- 2018 Commencement speaker, Faculty of Applied Health & Community Studies, Sheridan College (Toronto, Ontario, Canada)
- 2016 National winner, Canadian Athletic Therapists Association Writing Award
- 2016 Nominated, New Investigator Award, National Athletic Trainers' Association Research and Education Foundation
- 2015 National winner, Canadian Athletic Therapists Association Writing Award
- 2015 UNC Chancellor's Faculty Entrepreneurship Boot Camp
- 2014 Advancement of Science Award, Neuro-Optometric Rehabilitation Association
- 2014 National winner, Canadian Athletic Therapists Association Writing Award
- 2014 Nominated, New Investigator Award, National Athletic Trainers' Association Research and Education Foundation
- 2013 Nominated, New Investigator Award, National Athletic Trainers' Association Research and Education Foundation
- 2012 Triangle Sports Medicine Community Service Award
- 2012 National winner, Canadian Athletic Therapists Association Writing Award
- 2012 Runner-up, Medical smartphone app of the year, The Appys
- 2011 David H. Perrin Doctoral Dissertation Award Winner, National Athletic Trainers' Association Research and Education Foundation
- 2011 National winner, Canadian Athletic Therapists Association Writing Award
- 2010 Kenan Junior Faculty Fellow, University of North Carolina at Chapel Hill
- 2010 National winner, Canadian Athletic Therapists Association Writing Award
- 2009 First Runner-Up, NATA Kenneth L. Knight Award for the Outstanding Research Manuscript
- 2009 National winner, Canadian Athletic Therapists Association Writing Award
- 2008 Invited attendee, Third Annual National Institutes of Health National Graduate Student Research Festival (Bethesda, MD)
- 2008 Winner, NATA Outstanding Doctoral Student Research Presentation Award (Co-Investigator)
- 2008 National winner, Canadian Athletic Therapists Association Writing Award
- 2007 Winner, NATA Outstanding Doctoral Student Research Poster Award (Principal Investigator)
- 2007 Nominee, NATA Outstanding Masters Student Research Presentation Award (Co-Investigator)
- 2007 National winner, Canadian Athletic Therapists Association Writing Award
- 2007 Winner, Graduate Education Advancement Board Recognition Award, The University of North Carolina at Chapel Hill
- 2006 Winner, NATA Doctoral Student Scholarship Award
- 2006 Winner, NATA Outstanding Master's Student Research Award (Co-Investigator)
- 2006 Nominee, NATA Outstanding Doctoral Student Research Award (Principal Investigator)
- 2006 Nominee, NATA Outstanding Doctoral Student Research Award (Co-Investigator)
- 2006 Nominee for 2 separate studies, NATA Outstanding Master's Student Research Award (Co-Investigator)
- 2006 Finalist, Canadian Athletic Therapists Association Writing Award
- 2006 Award of Distinction, EATA Grad. Student Abstract Research Presentation (Co-Investigator)
- 2005 Finalist, NATA Outstanding Doctoral Student Research Award (Principal Investigator)
- 2005 National winner, Canadian Athletic Therapists Association Writing Award
- 2004 Recipient, Caroline H. and Thomas S. Royster, Jr. 5-year Fellowship, The Graduate School, The University of North Carolina at Chapel Hill

## **BIBLIOGRAPHY & PRODUCTS OF SCHOLARSHIP**

Notes: \*Senior author; †Mentored postdoctoral or graduate trainee; ‡Mentored undergraduate student

### **A. Books and Chapters (10)**

**Mihalik JP**, Lynall RC<sup>†</sup>, & Guskiewicz KM. (2017). Brain injuries. In DJ Casa & RL Stearns (Eds.), *Preventing sudden death in sport and physical activity, 2nd Edition*. (pp. 97-126). Boston, MA: Jones and Bartlett Learning.

Casa DJ, Stearns RL, **Mihalik JP**, & Ganio MS. (2016). The unique challenges of field research. In LE Armstrong & WJ Kraemer (Eds.), *ACSM's research methods for exercise science*. (pp. 163-184). Indianapolis, IN: American College of Sports Medicine.

**Mihalik JP** & Guskiewicz KM. (2015). Brain injuries. In DJ Casa & RL Stearns (Eds.), *Emergency management for sport and physical activity*. (pp. 83-96). Boston, MA: Jones and Bartlett Learning.

**Mihalik JP** & Littleton AC. (2015). What is the value of baseline testing? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 33-37). Thorofare, NJ: Slack, Inc.

**Mihalik JP** & Schmidt JD. (2015). Can protective equipment or strengthening the neck decrease the risk of concussion? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 53-57). Thorofare, NJ: Slack, Inc.

**Mihalik JP** & Lynall RC<sup>†</sup>. (2015). How do head impact indicators work and is there value in recommending that patients purchase them? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 177-181). Thorofare, NJ: Slack, Inc.

Register-Mihalik JK & **Mihalik JP**. (2015). Are there any rehabilitation exercises you can do to help a concussed athlete heal faster? In TC Valovich McLeod (Ed.), *Quick questions in sport-related concussion*. (pp. 141-143). Thorofare, NJ: Slack, Inc.

**Mihalik JP**. (2012). Biomechanics of Sports Concussion. In MW Kirkwood & KO Yeates (Eds.), *Mild traumatic brain injury in children and adolescents: From basic science to clinical management* (pp. 38-52). New York, NY: Guilford Press.

**Mihalik JP** & Guskiewicz KM. (2012). Brain injuries. In DJ Casa (Ed.), *Preventing sudden death in sport and physical activity* (pp. 79-108). Boston, MA: Jones and Bartlett Learning.

Guskiewicz KM & **Mihalik JP**. (2006). The biomechanics and pathomechanics of sport-related concussion: Looking at history to build the future. In S Slobounov & W Sebastianelli (Eds.), *Foundations of sport-related brain injuries* (pp. 65-83). New York, NY: Springer Publishing Company.

### **B. Refereed Papers/Articles in Review**

Removed for online version of CV

### **C. Refereed Papers/Articles (145)**

Roby PR<sup>†</sup>, Ford CB<sup>†</sup>, Wasserman EB<sup>†</sup>, Rodrigo CJ<sup>‡</sup>, DeFreese JD, McCrea M, & **Mihalik JP\***. (2020). Psychological distress differs between female and male college athletes during baseline concussion assessment. *Athletic Training & Sports Health Care*. (In Press).

McCrea MA, Shah A, Duma S, Rowson S, Harezlak J, McAllister TW, Broglio SP, Giza CC, Goldman J, Cameron KL, Houston MN, McGinty G, Jackson JC, Guskiewicz KM, **Mihalik JP**, Brooks MA, Pasquina P, Stemper BD. (2020). Concussion and head impact exposure in college football players: Where are opportunities for prevention? A Concussion Assessment, Research and Education (CARE) Consortium Study. *JAMA Neurology*. (In Press).

Roby PR<sup>†</sup>, Duquette PJ, Kerr ZY, Register-Mihalik JK, Stoner L, & **Mihalik JP**. (2020). Repetitive head impact exposure and cerebrovascular function in adolescent athletes. *Journal of Neurotrauma*. (In Press).

Roby PR<sup>†</sup>, DeCicco JP<sup>‡</sup>, Chandran A, Barczak-Scarboro NE<sup>†</sup>, DeLellis SM, Ford CB<sup>†</sup>, Healy ML, Means GE, Kane SF, Lynch JL, & **Mihalik JP**. (2020). Neurovascular coupling in Special Operations Forces combat Soldiers. *Annals of Biomedical Engineering*. (In Press). DOI: 10.1007/s10439-020-02604-y.

Cools MJ, Northam WT, Boyd M, Alexander A<sup>‡</sup>, **Mihalik JP**, Guskiewicz KM, & Carneiro KA. (2020). Evaluating primary care management of acute sport-related concussion. *International Journal of Athletic Therapy & Training*. (In Press).

Roby PR<sup>†</sup>, Lynall RC<sup>†</sup>, Cools MJ<sup>†</sup>, Marshall SW, Fonseca JC, Stevens JR, & **Mihalik JP\***. (2020). Hyperbaric oxygen therapy to treat acute sport-related traumatic brain injuries: A case series. *International Journal of Athletic Therapy & Training*. (In Press).

**Mihalik JP**, Teel EF<sup>†</sup>, Lynall RC<sup>†</sup>, & Wasserman EB<sup>†</sup>. (2020). Balance Error Scoring System reliability and validity when performed with ice skates. *International Journal of Athletic Training & Therapy*. (In Press). DOI: 10.1123/ijatt.2019-0074.

Barczak-Scarboro NE<sup>†</sup>, Cole WR, DeLellis SM, Means GE, Kane SF, Lynch JH, & **Mihalik JP\***. (2020). Mental health symptoms are associated with mild traumatic brain injury history in active Special Operations Forces (SOF) combat and combat support Soldiers. *Military Medicine*. (In Press). DOI: 10.1093/milmed/usaa167.

Kramer MR<sup>‡</sup>, Teel EF<sup>†</sup>, Wasserman EB<sup>†</sup>, & **Mihalik JP\***. (2020). Effect of protective helmets on vision and sensory performance in healthy males. *Athletic Training & Sports Health Care*. (In Press). DOI: 10.3928/19425864-20200206-01.

Buttinger JN, **Mihalik JP**, Ledbetter L, Faherty M, Sell TC. (2020). Concussion and lower extremity injury risk following return to activity: A systematic review. *The Duke Orthopaedic Journal*. (In Press).

**Mihalik JP**, Chandran A, Powell JR<sup>†</sup>, Roby PR<sup>†</sup>, Guskiewicz KM, Stemper BD, Shah AS, Rowson S, Duma S, Harezlak J, Rigger LD, Broglio SP, McAllister TW, McCrea M, & CARE Consortium Investigators. (2020). Do head injury biomechanics predict clinical recovery in college American football players? *Annals of Biomedical Engineering*, 48(11), 2555-2565.

Rowson S, Campolettano ET, Duma SM, Stemper B, Shah A, Harezlak J, Rigger L, **Mihalik JP**, Brooks A, Cameron KL, Svoboda SJ, Houston MN, McAllister TW, Broglio SP, & McCrea M. (2020). Concussion risk between individual football players: Survival analysis of recurrent events and non-events. *Annals of Biomedical Engineering*, 48(11), 2626-2638.

**Mihalik JP**, Amalfe SA, Roby PR<sup>†</sup>, Ford CB<sup>†</sup>, Lynall RC<sup>†</sup>, Riegler KE, Teel EF<sup>†</sup>, Wasserman EB<sup>†</sup>, & Putukian M. (2020). Sex and sport differences in college lacrosse and soccer head impact biomechanics. *Medicine & Science in Sports & Exercise*, 52(11), 2349-2356.

Brett BL, Breedlove K, McAllister TW, Broglio SP, McCrea MA, Hoy AM, Hazzard JB, Kelly LA, Port N, Putukian M, Pasquina P, Jackson J, McGinty G, O'Donnell P, Cameron KL, Houston MN, Giza C, Benjamin HJ, Buckley T, Clugston JR, Schmidt JD, Feigenbaum LA, **Mihalik JP**, Guskiewicz K, Anderson S, Master CL, Collins MW, Kontos AP, Chrisman SPD, Brooks MA, Rowson S, Miles CM, Susmarski A, & the CARE Consortium Investigators. (2020). Investigating the range of symptom endorsement at initiation of a graduated return-to-play protocol after concussion and duration of the protocol: A study from the National Collegiate Athletic Association-Department of Defense Concussion, Assessment, Research, and Education (CARE) Consortium. *American Journal of Sports Medicine*, 48(6), 1476-1484.

Lynall RC<sup>†</sup>, Campbell KR<sup>†</sup>, Mauntel TC, Blackburn JT, & **Mihalik JP\***. (2020). Single-legged hop and single-legged squat balance performance in recreational athletes with a history of concussion. *Journal of Athletic Training*, 55(5), 488-493.

DeCicco JP<sup>‡</sup>, Roby PR<sup>†</sup>, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, & **Mihalik JP\***. (2020). The relationship between neurovascular coupling, vision and sensory performance, and concussion history in Special Operations Forces combat soldiers. *The Clinical Neuropsychologist*, 34(6), 1215-1225.

Powell JR<sup>†</sup>, Boltz AJ, DeCicco JP<sup>‡</sup>, Chandran A, DeLellis SM, Healy ML, Kane SF, Lynch JH, Means GE, Hackney AC, & **Mihalik JP\***. (2020). Neuroinflammatory biomarkers associated with mild traumatic brain injury history in Special Operations Forces combat soldiers. *Journal of Head Trauma Rehabilitation*, 35(5), 300-307.

DeFreese JD, Baum MJ<sup>†</sup>, Schmidt JD, Goerger BM, Barczak-Scarboro N<sup>†</sup>, Guskiewicz KM, & **Mihalik JP\***. (2020). Effects of college athlete life stressors on baseline concussion measures. *Journal of Sport Rehabilitation*, 29(7), 976-983.

McCrea M, Broglio SP, McAllister TW, Gill J, Giza CC, Huber D, Harezlak J, Cameron K, McGinty G, Jackson J, Guskiewicz KM, **Mihalik JP**, Brooks A, Duma S, Rowson S, Nelson LD, Pasquina P, Meier TB, & CARE Consortium Investigators. (2020). Association of blood biomarkers with acute sport-related concussion in collegiate athletes: A prospective study from the NCAA and Department of Defense CARE Consortium. *JAMA Network Open*, 3(1), e1919771.

Brett BL, Wu Y-C, Mustafi S, Saykin AJ, Koch KM, Nencka AS, Giza C, Goldman J, Guskiewicz KM, **Mihalik JP**, Duma S, Broglio SP, McAllister TW, McCrea MA, & Meier TB. (2020). The association between persistent white-matter abnormalities and repeat injury after sport-related concussion. *Frontiers in Neurology*, 10(1345), 1-7.

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Pattinson CL, Meier TB, Guedes VA, Lai C, Devoto C, Haight T, Broglio SP, McAllister TW, Giza CC, Huber D, Harezlak J, Cameron K, McGinty G, Jackson J, Guskiewicz KM, **Mihalik JP**, Brooks A, Duma S, Rowson S, Nelson LD, Pasquina P, McCrea M, & Gill JM. (2020). Plasma biomarker concentrations associated with return to sport following sport-related concussion in collegiate athletes: A Concussion Assessment, Research and Education (CARE) Consortium Study. *JAMA Network Open*, 3(8): e2013191.

Campbell KR<sup>†</sup>, Marshall SW, Luck JF, Pinton GF, Stitzel JD, Boone JS<sup>‡</sup>, Guskiewicz KM, & **Mihalik JP\***. (2020). Head Impact Telemetry System's video-based impact detection and location accuracy. *Medicine & Science in Sports & Exercise*, 52(10), 2198-2206.

Northam WT, Cools MJ, Chandran A, Alexander A<sup>‡</sup>, **Mihalik JP**, Guskiewicz KM, & Carneiro KA. (2020). Sports medicine fellowship training improves sport-related concussion evaluation. *Current Sports Medicine Reports*, 19(7), 272-276.

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Rivara FP, Sills AK, Swartz EE, Vavilala MS, & Courson R. (2020). Consensus recommendations on the prehospital care of the injured athlete with a suspected catastrophic cervical spine injury. *Journal of Athletic Training*, 55(6), 563-572.

Stemper BD, Shah AS, **Mihalik JP**, Harezlak J, Rowson R, Duma S, Riggen LD, Brooks A, Cameron KL, Giza CC, Goldman J, Houston MN, Jackson J, McGinty G, Broglio SP, McAllister TW, McCrea M. (2020). Head impact exposure in college football after a reduction in preseason practices. *Medicine & Science in Sports & Exercise*, 52(7), 1629-1638.

Roby PR<sup>†</sup>, Chandran A, Barczak-Scarboro NE<sup>†</sup>, DeLellis SM, Ford CB<sup>†</sup>, Healy ML, Means GE, Kane SF, Lynch JH, & **Mihalik JP\***. (2020). Cerebrovascular reactivity in Special Operations Forces combat soldiers. *Annals of Biomedical Engineering*, 48(6), 1651-1660.

**Mihalik JP**, Wasserman EB<sup>†</sup>, Teel EF<sup>†</sup>, & Marshall SW. (2020). Head impact biomechanics differ between girls and boys youth ice hockey players. *Annals of Biomedical Engineering*, 48(1), 104-111.

Register-Mihalik JK, Guskiewicz KM, Marshall SW, McCulloch KL, **Mihalik JP**, Mrazik M, Murphy I, Naidu D, Ranapurwala SI, Schneider K, Gildner P, McCrea M, & the Active Rehab Study Consortium Investigators. (2019). Methodology and implementation of a randomized controlled trial (RCT) for early post-concussion rehabilitation: The Active Rehab Study. *Frontiers in Neurology*, 10(1176), 1-15.

Stemper BD, Shah AS, Harezlak J, Rowson S, Duma SM, **Mihalik JP**, Riggen LD, Brooks A, Cameron KL, Giza CC, Houston MN, Jackson J, McGinty GT, DiFiori JP, Broglio SP, McAllister TW, & McCrea M. (2019). Repetitive head impact exposure in college football following an NCAA rule change to eliminate two-a-day preseason practices: A study from the NCAA-DoD CARE Consortium. *Annals of Biomedical Engineering*, 47(10), 2073-2085.

Campolettano ET, Rowson S, Duma SM, Stemper B, Shah A, **Mihalik JP**, Harezlak J, Riggen LD, Broglio SP, McAllister TW, & McCrea M. (2019). Factors affecting head impact exposure in college football practices: A multi-institutional study. *Annals of Biomedical Engineering*, 47(10), 2086-2093.

Teel EF<sup>†</sup>, Marshall SW, Appelbaum LG, Battaglini CL, Carneiro KA, Guskiewicz KM, Register-Mihalik JK, & **Mihalik JP\***. (2019). A randomized controlled trial investigating the feasibility and adherence to an aerobic training program in healthy individuals. *Journal of Sports Rehabilitation*, 28(7), 692-698. DOI: 10.1123/jsr.2018-0007.

Talarico MK<sup>†</sup>, Lynall RC<sup>†</sup>, Mauntel TC, Wasserman EB<sup>†</sup>, Padua DA, & **Mihalik JP\***. (2019). Dynamic postural control is influenced by single-leg squat speed and depth under single-task and dual-task paradigms. *Journal of Applied Biomechanics*, 35(4), 1-25.

Klein AP, Tetzlaff JE, Bonis JM, Nelson LD, Mayer AR, Huber DL, Harezlak J, Mathews VP, Ulmer JL, Sinson GP, Nencka AS, Koch KM, Wu YC, Saykin AJ, DiFiori JP, Giza CC, Goldman J, Guskiewicz KM, **Mihalik JP**, Duma SM, Rowson S, Brooks A, Broglio SP, McAllister T, McCrea MA, & Meier TB. (2019). Prevalence of potentially clinically significant magnetic resonance imaging findings in athletes with and without sport-related concussion. *Journal of Neurotrauma*, 36(11), 1776-1785.

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Wang Y, Nencka AS, Meier TB, Guskiewicz KM, **Mihalik JP**, Brooks A, Saykin AJ, Koch KM, Wu Y-C, Nelson LD, McAllister TW, Broglio BP, & McCrea MA. (2019). Cerebral blood flow in acute concussion: preliminary ASL findings from the NCAA-DoD CARE consortium. *Brain Imaging and Behavior*, 13(5), 1375-1385.

Kerr ZY, Campbell KR<sup>†</sup>, Fraser MA, Currie DW, Pierpoint LW, Kaminski TW, & **Mihalik JP\***. (2019). Head impact locations in US high school boys' and girls' soccer concussions, 2012/13-2015/16. *Journal of Neurotrauma*, 36(13), 2073-2082.

Rowson S, Campoletano ET, Duma SM, Stemper B, Shah A, Harezlak J, Rikken LD, **Mihalik JP**, Guskiewicz KM, Giza CC, Brooks A, Cameron KL, Svoboda S, Campbell D, Jackson J, McGinty G, McAllister TW, Broglio SP, & McCrea M. (2019). Accounting for variance in concussion tolerance between individuals: Comparing head accelerations between concussed and physically matched control subjects. *Annals of Biomedical Engineering*, 47(10), 2048-2056.

Lynall RC<sup>†</sup>, Blackburn JT, Guskiewicz KM, Marshall SW, Plummer P, & **Mihalik JP\***. (2019). Functional balance assessment in recreational college-aged individuals with a concussion history. *Journal of Science and Medicine in Sport*, 22(5), 503-508.

Combs PR<sup>†</sup>, Ford CB<sup>†</sup>, Campbell KR<sup>†</sup>, Carneiro KA, & **Mihalik JP\***. (2019). Influence of self-reported fatigue and sex on baseline concussion assessment scores. *Orthopaedic Journal of Sports Medicine*, 7(1), 2325967118817515. DOI: 10.1177/2325967118817515

Vander Vegt CB, Register-Mihalik JK, Ford CB<sup>†</sup>, Rodrigo CJ, Guskiewicz KM, & **Mihalik JP**. (2019). Baseline concussion clinical measures are related to sensory organization and balance. *Medicine & Science in Sports & Exercise*, 51(2), 264-270.

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Assessment, Research and Education (CARE) Consortium. *Brain Imaging and Behavior*, 12(4), 1121-1140.

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**F. Non-Refereed Publications (13)**

Lynall RC, **Mihalik JP**, & Guskiewicz KM. (2019). National Athletic Trainers' Association Official Statement on Head Impact Indicators.

Schmidt JD, Guskiewicz KM, **Mihalik JP**, Blackburn JT, Siegmund GP, & Marshall SW. (2017). In response to: Does visual performance influence head impact severity among high school football athletes? *Clinical Journal of Sports Medicine*, 27(3), e32-e33. (Response to Letter to the Editor)

Lynall RC<sup>†</sup>, Kerr ZY, Parr MS<sup>‡</sup>, Hackney AC, & **Mihalik JP**. (2016). Altitude (if you can call it that) has no bearing on the rates of concussions in athletes. *Journal of Orthopaedic & Sports Physical Therapy*, 46(3), 226-228. (Response to Letter to the Editor)

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**Mihalik JP**. (2011). Concussion: What coaches need to know. *This is AFCA (American Football Coaches Association)*, September issue.

**Mihalik JP** & Budinsky C‡. (2007). Why should we care about evidence-based medicine? *Newsletter of the Canadian Athletic Therapists Association*, November issue, 8-10.

**Mihalik JP**, McCaffrey MA, Rivera EM, Pardini JE, Guskiewicz KM, Collins MW, & Lovell MR. (2007). Effectiveness of mouthguards in reducing neurocognitive deficits following sports-related concussion. *Dental Traumatology*, 23(4), 262-263. (Response to Letter to the Editor)

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**G. Software Development/Authoring (2)**

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**H. Invited Scholarly Presentations (113)**

**Mihalik JP & Lynall RC.** Measuring head impacts: A window into collision sports. *2020 Virtual National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo.* (July 13-16, 2020).

**Mihalik JP.** Role of protective equipment and head impact sensors in reducing concussion injury. *Brain Trust 2020: Best practices in mild TBI and concussion management for all ages*, Bend, OR. (May 2, 2020).

**Mihalik JP.** Concussion: Intersecting sports vision and injury prevention/rehabilitation. *2020 North Carolina Athletic Trainers' Association Annual Symposium*, Wrightsville Beach, NC. (March 7, 2020).

**Mihalik JP.** Concussion: Sports vision, injury rehabilitation, and long-term issues. *2019 South Carolina Athletic Trainers' Association Annual Symposium*, Columbia, SC. (July 10, 2019). [Evidence Based Practice Pre-Conference Course]

**Mihalik JP.** Sensors, necks, and anticipation: Overlapping sport and Special Operations. *2019 South Carolina Athletic Trainers' Association Annual Symposium*, Columbia, SC. (July 11, 2019).

**Mihalik JP.** Head impacts and neck workload: Applications in military, fast jet pilots, and athletes. *2019 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Las Vegas, NV. (June 25, 2019). [National Athletic Trainers' Association Best Practice Forum]

**Mihalik JP.** The effect of traumatic brain injury and combat role in Special Operations Forces (SOF) soldiers. *2019 American College of Sports Medicine Annual Meeting*, Orlando, FL. (May 31, 2019).

**Mihalik JP.** Concussion rehabilitation: Intersecting sports vision and injury prevention/rehabilitation. *2019 College Athletic Trainers' Society Spring Symposium*, Las Vegas, NV. (May 16-18, 2019).

**Mihalik JP.** Preventing sport-related concussion: The role of protective equipment. *Steadman Philippon Research Institute 3rd Annual Injury Prevention Symposium*, Vail, CO. (May 1-3, 2019).

**Mihalik JP.** Intersecting science and sports safety: Can we engineer a safer game? *Southern College Health Association Conference*, Durham, NC. (March 13, 2019). [Keynote Address]

**Mihalik JP.** Concussion: Intersecting sports vision and injury prevention/rehabilitation. *ExerTools' Test and Train the Brain Webinar Series*, [Online]. (December 13, 2018).

**Mihalik JP.** Visual dysfunction post-concussion. *Canadian Academy of Sport and Exercise Medicine (CASEM) Football Injuries Sport Medicine Course*, Edmonton, Alberta, Canada. (November 24, 2018)

**Mihalik JP.** Concussion: Intersecting sports vision and injury prevention/rehabilitation. *2018 International Association of Functional Neurology and Rehabilitation Annual Conference*, Phoenix, AZ. (October 25, 2018).

**Mihalik JP.** Head impact biomechanics: Engineering a safer game. *2018 360NeuroHealth Concussion Summit*, Dallas, TX. (July 28, 2018).

**Mihalik JP.** Enhancing operator performance through baseline and evolution screening. *2018 American College of Sports Medicine Annual Meeting*, Minneapolis, MN. (May 30, 2018).

**Mihalik JP.** Concussion: Intersecting sports vision and injury prevention/rehabilitation. *2018 National Basketball Athletic Trainers Association*, Chicago, IL. (May 17, 2018).

**Mihalik JP.** Intersecting science and sports safety: Can we engineer a safer game? *2018 Southeast Athletic Trainers' Association Clinical Symposium and Member's Meeting*, Atlanta, GA. (March 8, 2018).

**Mihalik JP.** Advancing assessment and diagnostic techniques: Sports vision. *Advances in Athletic Therapy: From head to toe*, Chapel Hill, NC. (March 1, 2018).

**Mihalik JP.** Current trends in concussion management: Biomechanics, vision, and treatment. *2018 Georgia Athletic Trainers' Association Annual Meeting & Symposium*, Macon, GA. (January 19, 2018). [Keynote Address]

**Mihalik JP.** Concussion: Intersecting media, science, and sport safety. *70th Eastern Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Boston, MA. (January 6, 2018). [CATA Exchange Lecture]

**Mihalik JP.** Modern concussion management paradigm: Today's complexities and tomorrow's solutions. *Orthopaedic Summit 2017: Evolving Techniques*, Las Vegas, NV. (December 8, 2017).

**Mihalik JP.** The impact of head impacts in sports. *Orthopaedic Summit 2017: Evolving Techniques*, Las Vegas, NV. (December 8, 2017).

**Mihalik JP.** Can we engineer a safer game? *Wake Forest School of Medicine Clinical and Translational Science Institute Seminar Series*, Winston-Salem, NC. (November 8, 2017).

**Mihalik JP.** Individual player prevention: Anticipation, strength, and concussion history. *Ice Hockey Summit III: Action on Concussion*, Rochester, MN. (September 28, 2017).

**Mihalik JP.** Balance testing in young athletes. *2017 Maine Concussion Summit*, Waterville, ME. (August 4, 2017).

**Mihalik JP.** Ice hockey: Body checking, head contact and sport safety - How impact biomechanics is keeping heads up! *2017 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Houston, TX. (June 29, 2017). [National Athletic Trainers' Association Feature Presentation]

**Mihalik JP & Broglio SP.** Long-term & cumulative effects of concussion: Where's the evidence? *2017 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Houston, TX. (June 29, 2017). [National Athletic Trainers' Association Peer-to-Peer Presentation]

**Mihalik JP.** Concussion biomechanics: Can we engineer player safety? *2017 Hawkins Foundation Sports Medicine Symposium*, Greenville, SC. (June 16, 2017).

**Mihalik JP.** Concussion in sport: From diagnosis to treatment. *9th Collegiate and Professional Sports Dietitians Association Annual Conference*, Scottsdale, AZ. (May 18, 2017).

**Mihalik JP.** Role of sensors in recognition of injury. *Head Injury in Soccer: From Science to the Field*, New York, NY. (April 21, 2017).

**Mihalik JP.** Head trauma research: A multidisciplinary approach. *Sheridan College Athletic Therapy Lecture Series*, Mississauga, Ontario, Canada. (April 6, 2017).

**Mihalik JP.** Concussion: How paranoia and science intersect to improve sports. *North Carolina Central University School of Law*, Durham, NC. (November 2, 2016). [Keynote Address]

**Mihalik JP.** Intersecting sports vision & injury prevention. *2016 Ultimate Concussion Conference*, Hollywood, FL. (October 22, 2016).

**Mihalik JP.** Concussion: The waiting game. *2016 Professional Hockey Players Association Workers' Compensation Panel Meeting*, Montreal, Quebec, Canada. (September 16, 2016).

**Mihalik JP.** Pediatric concussive head trauma: Research and prevention. *2016 Southeastern Pediatric Trauma Conference*, Charlotte, NC. (September 9, 2016).

**Mihalik JP.** Concussion: How paranoia and science intersect to improve sports. *2016 See the Line Conference*, London, Ontario, Canada. (August 10, 2016).

**Mihalik JP.** New diagnostics/devices: Tools, electrophysiology, & imaging. *2016 American Academy of Neurology Sports Concussion Conference*, Chicago, IL. (July 8, 2016).

**Mihalik JP, Clark MD, Kramer MR<sup>‡</sup>, Lynall RC, Rodrigo CJ, & Teel EF.** Modern concussion management paradigm: Today's complexities and tomorrow's solutions. *2016 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Baltimore, MD. (June 22, 2016). [National Athletic Trainers' Association Advance Track Seminar]

**Mihalik JP.** Biomedical challenge to warfighter, veteran and civilian: Diagnosing and treating traumatic brain injury and PTSD. *North Carolina Biotech Center & NC Military Business Center Support to the Warfighter Symposium*, Durham, NC. (June 8, 2016).

**Mihalik JP.** Concussion: Intersecting paranoia, sciences and sports safety. *Canadian Athletic Therapists Association National Conference*, Vancouver, British Columbia, Canada. (May 28, 2016). [Keynote Address].

**Mihalik JP.** Sports-related concussions: Facts vs. myths. *High Point University Athletic Training Symposium*, High Point, NC. (April 4, 2016). [Keynote Address].

**Mihalik JP.** Sport-related concussion: Current trends in engineering sports safety. *Defense Veterans Brain Injury Centers Intrepid Spirit Symposium*, Fort Bragg, NC. (March 30, 2016).

**Mihalik JP.** Concussion biomechanics: Engineering safety in the sports arena and battlefield. *Florida International University Athletic Training Symposium*, Miami, FL. (March 28, 2016). [Keynote Address]

**Mihalik JP & Wasserman EB.** Concussion and winter sports. *Defense and Veterans Brain Injury Center*, Silver Spring, MD. (February 11, 2016).

**Mihalik JP.** Head impact biomechanics: Engineering safe sport. *College Athletic Trainers' Society & National Collegiate Athletic Association Safety in College Football Summit*, Orlando, FL. (February 10, 2016).

Guskiewicz KM & **Mihalik JP.** Concussion: Innovative solutions to a challenging problem in sports and the military. *UNC Tar Heel Tailgate Talk Series*, Chapel Hill, NC. (November 14, 2015).

**Mihalik JP.** Traumatic brain injury management: Intersecting athletics with special operations. *North Carolina Defense Business Association Science & Technology Meeting*, Durham, NC. (November 12, 2015).

**Mihalik JP.** Seeing is believing: Assessing vision following concussion. *North Carolina Athletic Trainers' Association Symposium*, Salisbury, NC. (July 11, 2015).

**Mihalik JP.** Vision assessment following concussion: What's on the horizon? *2015 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, St. Louis, MO. (June 25, 2015). [National Athletic Trainers' Association Feature Presentation]

**Mihalik JP.** Repetitive head impacts and telemetry monitoring: State of the science. *National Summit on Sports Concussion*, Los Angeles, CA. (June 5, 2015).

**Mihalik JP.** Concussion biomechanics: A vision for engineering safe sport. *Concordia University 2015 Department of Exercise Science Lecture Series*, Montreal, Quebec, Canada. (March 27, 2015).

**Mihalik JP.** Head impact biomechanics: Engineering safe sport. *Virginia Tech Symposium on Head Acceleration Measurement Sensors*, Blacksburg, VA. (March 10, 2015).

**Mihalik JP.** Concussions: A call for youth sport safety. *2015 Youth Sport Safety Governing Bodies Meeting*, New York, NY. (January 22-23, 2015).

**Mihalik JP.** Traumatic brain injury management: Intersecting athletics with special operations. *2014 Special Operations Medical Association's Scientific Assembly and Exhibition*, Tampa, FL. (December 11, 2014).

**Mihalik JP.** Update on concussion and chronic traumatic encephalopathy. *World Federation of Athletic Training & Therapy World Congress*, Dublin, Ireland. (September 4-6, 2014).

**Mihalik JP.** Head impact biomechanics in youth ice hockey: A case for injury prevention. *2014 Hit Count Symposium*, Boston, MA. (July 15, 2014).

**Mihalik JP.** Protective headgear: Current technologies & materials, and its relation to injury prevention. *2014 National Athletic Trainers' Association Clinical Symposia & Athletic Training Expo*, Indianapolis, IN. (June 27, 2014). [National Athletic Trainers' Association J&J Keynote Feature Presentation]

**Mihalik JP.** Chronic traumatic encephalopathy: Clinical sequelae of multiple traumatic brain injuries. *Mid-Atlantic Athletic Trainers' Association Student Symposium*, Virginia Beach, VA. (May 10, 2014).

**Mihalik JP.** A vision for change: Translating clinical concussion research. *5<sup>th</sup> Annual Zeigler Research Forum*, University of Vermont, Burlington, VT. (May 1, 2014). [Keynote Address].

**Mihalik JP.** Postconcussion rehabilitation and alternative treatments: When rest alone does not seem to be working. *4<sup>th</sup> Annual First Coast Sports Injury Symposium*, Jacksonville, FL. (April 12, 2014).

**Mihalik JP.** A vision of concussions: What they are, traditional treatment, and the implications for innovation. *Neuro-Optometric Rehabilitation Association General Conference*, Cary, NC. (April 5-6, 2014).

**Mihalik JP.** A vision for change: Translating clinical concussion research. *Substance Abuse & Violence Initiative/Center for Brain, Biology, and Behavior Seminar*, University of Nebraska, Lincoln, NE. (March 31, 2014) [Keynote Address].

**Mihalik JP.** Neurocognitive testing: Is it necessary? *TEAMWORK: Management of Concussion in the Youth/Recreational Athlete*, Asheville, NC. (March 1, 2014).

**Mihalik JP.** Sex inequality in concussion research and assessment. *Female Athletes and Injury: Prevention, Treatment and Recovery*, Greensboro, NC. (October 24-25, 2013).

**Mihalik JP.** A scientist and hockey coach perspective of concussion prevention. *Mayo Clinic Sports Medicine Center Ice Hockey Summit II: Action on Concussion*, Rochester, MN. (October 8-9, 2013).

**Mihalik JP.** Concussion: A problem for the ages. *University of Connecticut Grand Rounds*, Storrs, CT. (September 13, 2013).

**Mihalik JP.** Concussion: The spectrum of injury. *Western North Carolina Concussion and Injury Prevention Symposium*, Asheville, NC. (August 16, 2013).

**Mihalik JP.** Concussion research: Past, present, and future directions. *Nationwide Children's Hospital Clinical and Translational Series*, Columbus, OH. (July 23, 2013).

**Mihalik JP.** Concussion management: Heads up! *2013 American Orthopaedic Society for Sports Medicine Annual Meeting*, Chicago, IL. (July 13, 2013).

**Mihalik JP.** What to do when rest alone does not work? Alternative approaches to concussion management. [National Athletic Trainers' Association Minicourse] *2013 National Athletic Trainers' Association Annual Meeting & Clinical Symposia*, Las Vegas, NV. (June 24, 2013).

**Mihalik JP.** Research digest: A rapid fire approach. *SafeKids Childhood Injury Prevention Conference*, Washington, DC. (June 21, 2013).

**Mihalik JP.** Alternative strategies to treat concussion: A look at the evidence. *Charlotte Sports Medicine Symposium*, Charlotte, NC. (June 8, 2013).

**Mihalik JP.** Front matter: Setting the stage for clinical research. *Second Matthew Gfeller Sport-Related Neurotrauma Symposium*, Chapel Hill, NC. (March 8-9, 2013).

**Mihalik JP.** A laboratory evaluation of bull riding helmets and facemasks. *Justin Rodeo Sports Medicine Conference*, Las Vegas, NV. (December 10, 2012).

**Mihalik JP.** Innovations in brain injury: Is there an app for that? *Brain Injury Association of North Carolina and Wake AHEC Present Traumatic Brain Injury 2012*, Cary, NC. (October 26, 2012).

**Mihalik JP.** Alternative treatment of concussions. *Athletic Trainers Society of New Jersey's Sports Safety Summit*, New Brunswick, NJ. (August 1, 2012).

**Mihalik JP.** Concussion management: Adolescents to college aged athletes. *Fourth Annual Sports Medicine Care Continuum: Keeping the Athlete's Care at Heart*, Nashville, TN. (July 14, 2012). [Keynote address].

**Mihalik JP.** Spine stabilization on unstable surfaces: Challenges of spine stabilization in ice hockey. [National Athletic Trainers' Association Feature Presentation] *2012 National Athletic Trainers' Association Annual Meeting & Clinical Symposia*, St. Louis, MO. (June 29, 2012).

**Mihalik JP.** Concussion management: A focus on rehabilitation and treatment. *Big 12 Conference Medical Aspects of Sport*, Dallas, TX. (May 4, 2012).

**Mihalik JP.** Head impact biomechanics and helmet testing. *Big 12 Conference Medical Aspects of Sport*, Dallas, TX. (May 4, 2012).

**Mihalik JP.** Student-athlete safety: The team approach. *North Carolina Athletic Trainers' Association Symposium*, Wilmington, NC. (March 16, 2012). [Keynote address].

**Mihalik JP.** The "team" approach to player safety: The hockey network. *Play Smart: Concussion Prevention in Youth and Interscholastic Hockey*, South Shore Hospital, Randolph, MA. (January 23, 2012). [Keynote address].

**Mihalik JP.** Concussion rehabilitation: What we know now! *South Atlantic Conference Athletic Trainers Meeting*, Salisbury, NC. (July 23, 2011).

**Mihalik JP.** Biomechanics of concussion. *Athletic Trainers Society of New Jersey's Concussion Summit*, Plainsboro, NJ. (July 17, 2011).

**Mihalik JP.** The hockey helmet: The last stand against concussion prevention? [National Athletic Trainers' Association Feature Presentation] *2011 National Athletic Trainers' Association Annual Meeting & Clinical Symposia*, New Orleans, LA. (June 19-22, 2011).

Swartz EE, **Mihalik JP**, & Decoster LC. Neutral alignment in the cervical spine during acute cervical spine injury management. *2011 American College of Sports Medicine Annual Meeting*, Denver, CO. (May 31-June 4, 2011).

**Mihalik JP.** Sport-related concussion: A problem for the ages? *Canadian Athletic Therapists Association National Conference*, Banff, Alberta, Canada. (May 25-28, 2011).

**Mihalik JP.** Biomechanics of sport-related traumatic brain injuries. *Inaugural Matthew Gfeller Sport-Related Neurotrauma Symposium*, Chapel Hill, NC. (April 29-30, 2011).

Guskiewicz KM, **Mihalik JP**, & Register-Mihalik JK. Concussion in collegiate sports: The evolution and implications of new policies and educational initiatives. *2011 College Sport Research Institute Conference*, Chapel Hill, NC. (April 20-21, 2011).

**Mihalik JP.** Concussions, law and amateur sports: Implications of emerging medical science for the regulation of student athlete safety. *Collegiate Sports Law Symposium: The Business of Amateur Sports*, Los Angeles, CA. (April 8, 2011).

**Mihalik JP.** Preparing youth for high velocity sports. *27<sup>th</sup> Annual Sports, Cardiovascular, and Wellness Nutrition (SCAN) Symposium*, Chicago, IL. (March 11, 2011).

**Mihalik JP.** Neck strength, anticipation, activation and its relationships to proneness to concussion: Gender differences? *Ice Hockey Summit: Action on Concussion*, Mayo Clinic, Rochester, MN. (October 19-20, 2010).

**Mihalik JP.** Putting our heads together: A call for action. *Blow by Blow: Sport Concussion Management*, Toronto, Ontario, Canada. (August 31, 2010). [Keynote address].

**Mihalik JP.** Concussion rehabilitation: A new spin on return-to-play management. *2010 National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, Philadelphia, PA. (June 22-25, 2010).

**Mihalik JP.** Head injury biomechanics. *2010 American College of Sports Medicine Annual Meeting*, Baltimore, MD. (June 1-5, 2010).

**Mihalik JP.** Current state of concussion research. *Seventh Annual Sports Related Conference on Concussion and Spine Injury*, Boston, MA. (May 12, 2010).

**Mihalik JP.** (2009). Dying to play: An overview of concussion in sports. *American Medical Athletic Association 18<sup>th</sup> Annual Sports Medicine Symposium at the Marine Corps Marathon*, Arlington, VA. (October 23-24, 2009).

Guskiewicz KM, Broglio SP, & **Mihalik JP.** (2009). Sport-related concussion: Navigating the latest research findings & clinical recommendations. *National Athletic Trainers' Association Annual Meeting and Clinical Symposium*, San Antonio, TX. (June 17-21, 2009).

- Mihalik JP.** (2009). Concussion evaluation and return-to-play decision-making. *Canadian Athletic Therapists Association National Conference*, Vancouver, British Columbia. (May 30, 2009).
- Mihalik JP.** (2009). Postconcussion return-to-play decisions: An emphasis on athlete rehabilitation. [Invited Workshop]. *Canadian Athletic Therapists Association National Conference*, Vancouver, British Columbia. (May 28, 2009).
- Mihalik JP.** (2009). Current trends in concussion management: An evidence-based approach to the “hidden epidemic.” *New Hampshire Athletic Trainers’ Association Annual Meeting*, Bow, NH. (May 17, 2009).
- Mihalik JP.** (2009). Head impacts in youth ice hockey: Translating biomechanics research to safer play. [Invited faculty]. *2009 London Hockey Concussion Summit*, London, Ontario, Canada. (January 17-18, 2009).
- Mihalik JP.** (2008). One size does not fit all: Using evidence to develop concussion assessment protocols. [National Athletic Trainers’ Association Education Council Continuing Education Committee featured symposium] *2008 National Athletic Trainers’ Association Annual Meeting and Clinical Symposium*, St. Louis, MO. (June 17-21, 2008).
- Mihalik JP & Guskiewicz KM.** (2008). Relationship between neuropsychological testing and other clinical measures of concussion. [Featured Science Session: Neuropsychological assessment of the concussed athlete: Only one piece of the concussion puzzle] *2008 American College of Sports Medicine Annual Meeting*, Indianapolis, IN. (May 28-31, 2008).
- Mihalik JP.** Clinical approach and research initiatives: Understanding sports-related concussion. *2008 Mid-Atlantic Athletic Trainers’ Association Symposium*, Virginia Beach, VA. (May 16-18, 2008).
- Mihalik JP.** Neuropsychological testing: What is it and how can you use it? *2007 National Athletic Trainers’ Association Annual Meeting and Clinical Symposium*, Anaheim, CA. (June 26-30, 2007).
- Mihalik JP.** Minor traumatic brain injury in pediatric and adolescent athletes: Is it worth the headache? *Third International Meeting on Minor Traumatic Brain Injuries in Sports*, St. Moritz, Switzerland. (March 12-17, 2007).
- Guskiewicz KM & **Mihalik JP.** Real time analysis of impacts in youth hockey. *Third International Meeting on Minor Traumatic Brain Injuries in Sports*, St. Moritz, Switzerland. (March 12-17, 2007).
- Mihalik JP.** Clinical approach and research initiatives: Managing sports-related concussion. *North Carolina Athletic Trainers’ Association Annual Meeting and Clinical Symposium*, Raleigh, NC. (March 2-4, 2007).
- Mihalik JP.** Postural stability assessment following mild head injury. *2006 National Athletic Trainers’ Association Annual Meeting and Clinical Symposium*, Atlanta, GA. (June 14-18, 2006).
- Mihalik JP.** Current concepts in the management of sports-related concussion. *2006 Canadian Athletic Therapists Association Annual Conference*, Ottawa, ON, Canada. (May 24-27, 2006).
- Mihalik JP & Guskiewicz KM.** Concussion assessment and return to play guidelines. *11<sup>th</sup> Annual Triangle Sports Medicine Symposium*, Raleigh, NC. (December 10, 2005).
- Mihalik JP.** Traumatic facial injury in a high school soccer player. *University of Pittsburgh Medical Center 6<sup>th</sup> Annual Current Issues in Athletic Training*, Pittsburgh, PA. (March 27, 2005).



## **TEACHING ACTIVITIES**

### **A. Curricular Experience – Undergraduate**

EXSS 175 — Human Anatomy

Spring 2006 (116 students)

EXSS 188 — Emergency Care

Summer 2008 (15 students)

EXSS 273 — Research Methods in Exercise and Sport Science

Fall 2010 (58 students), Spring 2011 (45), Maymester 2011 (25), Fall 2011 (53),  
Spring 2012 (42), Maymester 2012 (20), Fall 2012 (63), Spring 2013 (52), Maymester 2013 (20),  
Spring 2014 (55)

EXSS 275L — Human Anatomy Cadaver Laboratory

Fall 2004 (13 students), Summer 2006 (11), Summer 2007 (7), Summer 2008 (6)

EXSS 380 — Neuromuscular Control & Learning

Spring 2010 (54 students)

EXSS 385 — Biomechanics of Sports

Fall 2010 (47 students), Fall 2011 (50), Fall 2012 (51), Fall 2013 (54), Fall 2014 (54), Fall 2015  
(56), Fall 2016 (52), Fall 2017 (52), Fall 2018 (46), Fall 2019 (50), Fall 2020 (43)

EXSS 396 — Independent Study

Spring 2012 (1 student), Fall 2014 (1)

EXSS 693H/694H — Senior Honors Thesis

See Honors thesis advising and committee membership in Sections H and I

### **B. Curricular Experience – Graduate**

BMME 993 — Master's Research and Thesis (Biomedical Engineering)

See Graduate thesis advising and committee membership in Sections F and G

EXSS 700 — Applied Statistics and Research Methods in Exercise and Sport Science

Fall 2015 (10 students), Fall 2016 (11), Fall 2017 (10), Fall 2018 (11), Fall 2019 (12)

EXSS 705 — Applied Statistics and Research Methods Laboratory

Spring 2014 (9 students)

EXSS 705 — Research Design and Methods Laboratory

Fall 2020 (33 students)

EXSS 738 — Laboratory Techniques in Sports Medicine

Spring 2010 (9 students)

EXSS 993 — Master's Research and Thesis

See Graduate thesis advising and committee membership in Sections F and G

### **C. Curricular Experience – Doctoral**

IHMS 870 — Doctoral Development Seminar

Fall 2013 (10 students), Fall 2015 (13), Spring 2016 (12), Fall 2016 (18), Fall 2017 (12),  
Fall 2018 (10)

HMSC 877 — Independent Study in Human Movement Science  
Fall 2013 (1 student), Fall 2014 (1), Fall 2015 (1), Spring 2018 (2), Fall 2018 (1)

EXSS 890 — Special Topics: Advanced Statistics and Programming with SAS/Matlab  
Spring 2012 (2 students), Fall 2013 (1), Spring 2017 (3)

IHMS 994 — Doctoral Research and Dissertation  
See Doctoral dissertation advising and committee membership in Sections D and E

**D. Doctoral Dissertation Committees – Advisor (5)**

*Interdisciplinary Curriculum in Human Movement Science at UNC-Chapel Hill, unless otherwise specified*

Barczak-Scarboro NE. Combat-related stressors on Special Operations Forces combat Soldiers' resilience and mental health. December 2020. (Anticipated).

Roby (Combs) PR. The effect of repetitive head impact exposure on cerebrovascular function in high school athletes. May 2020.

Campbell KR. A biofidelic evaluation of the Head Impact Telemetry System on measuring head impact location and frequency through laboratory and on-field assessments. August 2019.

Teel EF. The effect of an active rehabilitation protocol on concussion recovery time. May 2017.

Lynall RC. Functional movement deficits following sport-related concussion. August 2016.

**E. Doctoral Dissertation Committees – Member (9)**

*Interdisciplinary Curriculum in Human Movement Science at UNC-Chapel Hill, unless otherwise specified*

Vander Vegt CB. Physiological correlates of working memory behavior and cognitive efficiency: Implications for concussion management. May 2020.

Dobney D. Exercise for concussion management in youth: Clinician use, evaluation, timing, and safety. *School of Physical and Occupational Therapy, Faculty of Medicine, McGill University*. April 2018. [External Reviewer]

Clark MD. The role of repetitive head trauma in early cognitive decline and frontolimbic connectivity. December 2017.

Fraser MA. The associations between sport-related concussion, football seasons played, head impact biomechanics, and neurobehavioral measures in high school and collegiate athletes. December 2016.

Littleton AC. The effects of physical and cognitive activity levels post-concussion on recovery. August 2015.

Allison M. Head injury biomechanics in youth hockey players: Enhancing data analysis for a helmet-based accelerometer system. *Department of Bioengineering, University of Pennsylvania*. May 2015.

Kerr ZY. Measurement of the validity and reliability of self-reported recall of concussion history: Factors associated with recall and disclosure in former athletes. *Department of Epidemiology, UNC-Chapel Hill*. May 2014.

Valdez D. The effect of immediate and delayed feedback on knowledge and performance development in Athletic Therapy students during a simulated cardiac emergency. *Department of Medical Science, University of Calgary*. December 2013. [External Reviewer]

Schmidt JD. The influence of the cervical musculature, visual performance, and anticipation on head impact severity in high school and collegiate. August 2013.

**F. Master's Thesis Committees – Advisor (15)**

*Department of Exercise and Sport Science at UNC-Chapel Hill, unless otherwise specified*

Sledge H. The correlation between head impact biomechanics and physical load in Division 1 collegiate football players. May 2021. (Anticipated).

Booth M. Do subconcussive impacts cause balance deficits in athletes? May 2020.

Kruse MN. Effects of head impact biomechanics on visual performance in collegiate football players: A concussion perspective. May 2019.

Gagnon-Joseph P. Effects of head impact biomechanics on visual-motor performance over the course of a college football season. August 2018.

Ford JM. Movement assessment as a predictor of head impact biomechanics. May 2017.

Lennon AR. Concurrent validity of three commercially available head impact monitoring systems. May 2015.

Smith LM. The association between optimism and psychological health factors in collegiate athletes. May 2015.

Stucker JC. Head acceleration and dehydration in soccer. May 2015.

Talarico MK. The effect of concussion on dynamic postural control of a single leg squat. *Department of Biomedical Engineering, UNC-Chapel Hill*. May 2015.

Gilrein TE. Reliability of visual performance assessments and the effect of concussion on visual measures. May 2014.

Lenhardt CS. The effect of shoulder pad removal technique and equipment removal training on cervical spine motion, time, and difficulty. May 2014.

Harpham JA. A study of visual and sensory performance, collision anticipation, and head impact biomechanics in college football players. May 2013.

Lengas E. The effect of sleep quality and sleep quantity on concussion assessment. May 2012.

Baum MJ. The influence of psychological distress on baseline concussion measures. May 2012.

Ocwieja KE. The effect of play type and field location of impact on biomechanical measures of impact severity. May 2011.

**G. Master's Thesis Committees – Member (32)**

*Department of Exercise and Sport Science at UNC-Chapel Hill, unless otherwise specified*

Minyard KA. Effects of concussion history on clinical and technology-based eye tracking measures. May 2021. (Anticipated).

Pazuchanics B. Static and dynamic postural control deficits in patients with a history of concussion. May 2021. (Anticipated).

Clapp AS. Association between IMU based accelerometry on the tibia and vertical ground reaction force during drop landing. August 2020. (Anticipated).

VanDeMark LH. Differences in postural control responses to levels of visual occlusion in individuals with chronic ankle instability. May 2019.

White JL. Can an integrative corrective exercise intervention mitigate range of motion changes post high intensity exercise in female athletes? August 2018.

Kostogiannes V. Relationships among lower extremity movement quality, visual performance, and head impact biomechanics in high school football players. May 2018.

Mackrell CM. Somatosensory function in individuals with and without a history of concussion. August 2017.

Davis MP. The effect of men's lacrosse equipment on chest compression and ventilation delivery. December 2016.

Kingsley PN. The effect of demographics on head impact biomechanics in youth football players. *Department of Physical Education, University of South Carolina*, May 2015.

Pierce AF. The effect of knowledge of concussion and aggression on head impact biomechanics across sexes in youth ice hockey players. August 2013.

Doran A. A content analysis of NCAA Division I track & field teams' Twitter usage: Defining best practices in social media marketing. May 2013.

Ingriselli JM. Neurocognitive and balance performance following a dual-task training intervention in healthy collegiate recreational athletes. May 2012.

Palanjian S. A study to identify the potential factors that influence students to attend college football games at UNC. May 2012.

Fratarcangeli D. The head of the issue: An exploratory study of the perceptions and the composition of NCAA Division I concussion management plans. May 2012.

Lynall RC. Comparing neurologic testing to balance and equilibrium during post-concussion recovery. *School of Kinesiology and Recreation, Illinois State University*, May 2012.

Littleton AC. The effects of attention deficit hyperactivity disorder (ADHD) and stimulant medication on clinical measures of concussion. May 2011.

Kallman AL. Influence of estrogen on cytokine response to prolonged treadmill running. May 2011.

Allen EB. The effect of lacrosse helmet fit on cervical spine movement during a prone log roll. May 2010.

Askey L. The effects of the Full90 headband on neurocognitive function and balance performance following an acute bout of soccer heading. May 2010.

Friedline A. Effects of weight-cutting tactics on clinical concussion measures in Division I collegiate wrestlers. May 2010.

Sumrall AZ. Dehydration, core body, wet bulb globe, and in helmet temperature are predictors of impact magnitude. May 2010.

Gysland SM. The cumulative effect of subconcussive impacts on clinical measures of concussion in Division I collegiate football players. May 2009.

Toler JD. Alternative techniques to gain emergency airway access. May 2009.

Ross LM. Procedural reaction time and balance performance during a dual or single task in healthy collegiate students. May 2008.

Beard JR. Cervical spine motion in college ice hockey players during a log roll technique. May 2007.

Fox ZG. The effect of aerobic and anaerobic exercise protocols on postural control. May 2007.

Kontos D. Validity, practice effects, and age discrimination of ImpACT and traditional paper-pencil neuropsychological tests. May 2007.

Conner LE. The relationship between humeral rotation and scapular tipping. May 2006.

Libby JJ. The comparison of complex and compound training programs on volleyball players. May 2006.

McCaffrey MA. Balance and neurocognitive performance in collegiate football players following high-magnitude head impacts. May 2006.

Lynch SS. The effects of an exercise intervention on forward head and rounded shoulder postures in elite swimmers. May 2005.

Patel AV. The effects of dehydration on symptomatology, neuropsychological performance, and postural stability. May 2005.

**H. Undergraduate Honors Thesis Committees – Advisor (10)**

*Department of Exercise and Sport Science at UNC-Chapel Hill, unless otherwise specified*

Castellano AK. The relationship between pituitary volume and IGF-1 blood serum biomarker levels in combat soldiers with mild traumatic brain injury history. *Department of Biomedical Engineering, UNC-Chapel Hill*. May 2020.

Madhavaram A. Posttraumatic migraine characteristics predict extended recovery following sport-related concussion in high school athletes. May 2020.

DeCicco JP. The relationship between neurophysiological and clinical visual function assessments in Special Operations Forces personnel. *Department of Psychology & Neuroscience, UNC-Chapel Hill*. May 2019.

Lee S. Test-retest reliability of the King-Devick and Developmental Eye Movement tests. May 2018.

Morrisroe KA. The effect of headgear on visual and sensory performance outcomes in female lacrosse players. May 2017.

Kramer MR. Effect of athletic headgear on vision and sensory. May 2016.

Ikoma M. Reliability of neurocognitive measures among high and low cognitive performers. May 2014.

Asken BM. A comparison of various clinical measures of visual performance in healthy participants. May 2013.

Moise KF. The effects of anticipation and player involvement in body collision on head impact biomechanics in college football players. May 2012.

Brody NG. The reliability of three Nintendo Wii balance games: A dual-task approach to measuring postural control. May 2011.

**I. Undergraduate Honors Thesis Committees – Member (6)**

*Department of Exercise and Sport Science at UNC-Chapel Hill, unless otherwise specified*

Yang K. Pupillary response as a physiological indication of neural resource utilization in those with and without a concussion history. May 2019.

Cabell GH. The test-retest reliability and exercise-driven changes of UCH-L1 in healthy, recreationally active college students. May 2016.

Champagne A. A study of the effects of football exposure and concussion history on cerebral white matter integrity and structural connectivity in retired National Football League and college football players. May 2015.

Pratson LF. An in-vivo biomechanical study of collegiate football players: The inter-instrument reliability of the X2Impact mouthpiece and the Head Impact Telemetry System. May 2012.

Hemp KA. Sex differences on common neurocognitive tests in competitive soccer players. May 2011.

Gonzalez JA. An examination of the effects of mental fatigue on grip strength. May 2010.

**GRANTS**

**A. Federal Grants/Contracts**

**A1. Pending/In Review (3)**

03/01/21 – 02/29/24      Giovanello K (PI)

REU Site: Carolina Neuroinformatics Summer Undergraduate Research Experience (CANi SURE) at UNC Chapel Hill

National Science Foundation

Role: Co-Investigator (0%)

DC: \$386,227                      F&A: \$76,993                      Total: \$463,220

07/01/21 – 06/30/26      Stitzel JD & Mihalik JP (MPI)

A precision head motion measurement tool applied and integrated with neurocognition in sport: youth hockey

National Institutes of Health

1R01NS119907-01A1 (39<sup>th</sup> percentile; resubmitted Nov 2020)

Role: Co-Principal Investigator (MPI) (20%)

DC: \$2,876,518 (sub \$1,141,740)              F&A: \$927,260 (\$391,740)              Total: \$3,803,778 (\$1,141,740)

09/01/20 – 08/31/25 Pinton G (PI)  
 Shear shock wave propagation in the brain: high frame-rate ultrasound imaging, characterization, and simulations  
National Institutes of Health-National Institute of Neurological Disorders and Stroke (NIH-NINDS)  
 2R01NS091195-06 (40<sup>th</sup> percentile; competitive renewal resubmission Oct 2020)  
 Role: Co-Investigator (5.4%)  
 DC: \$2,552,648 F&A: \$1,173,749 Total: \$3,726,397

**A2. Current (6)**

01/01/21 – 12/31/23 Register-Mihalik JK (PI)  
 A pragmatic rehabilitation intervention to supplement progressive return to activity following mild traumatic brain injury in Service Members (SMs): The Active Rehab Study  
Congressionally Directed Medical Research Programs/Clinical and Rehabilitative Medicine Research Program (CDMRP/JPC-8/CRM RP)  
 W81XWH-19-CTRR-CTA  
 Role: Co-Investigator (11.25%)  
 DC: \$2,325,532 F&A: \$802,291 Total: \$3,127,823

01/27/20 – 01/26/22 **Mihalik JP** (PI)  
 The Assessing & Tracking Tactical (ATTAC) Forces Initiative  
Department of Defense/United States Special Operations Command  
 W81XWH-18-S-SOC1  
 Role: Principal Investigator (20%)  
 DC: \$886,887 F&A: \$375,141 Total: \$1,262,028

09/15/18 – 08/31/20 **Mihalik JP** (PI)  
 CARE 2.0: A prospective, longitudinal study of the intermediate and cumulative effects of concussion and repetitive head impact exposure in NCAA student-athletes and U.S. Military Service Academy members  
Department of Defense & National Collegiate Athletic Association (Prime: Medical College of Wisconsin)  
 Role: Site Principal Investigator (15%)  
 DC: \$573,636 F&A: \$142,021 Total: \$715,657 (UNC subaward)

11/01/18 – 10/30/20 **Mihalik JP** (PI)  
 Human head impact dose concussion risk functions and sensor-based military-specific environmental monitoring system  
Congressionally Directed Medical Research Programs BAA for Extramural Medical Research (CDMRP)  
 W81XWH-17-1-0019  
 Role: Co-Investigator (6%)  
 DC: \$16,296 F&A: \$9,044 Total: \$25,340 (UNC subaward)

09/01/17 – 09/31/20 Kerr ZY & Register-Mihalik JK (Co-PI)  
 Popular opinion leaders as sports concussion prevention strategy in middle schools  
Centers for Disease Control and Prevention  
 5U01CE002885  
 Role: Co-Investigator (8%)  
 DC: \$1,072,364 F&A: \$577,532 Total: \$1,649,896

05/01/18 – 08/31/20 **Mihalik JP** (PI)  
 CARE 2.0: A prospective, longitudinal study of the intermediate and cumulative effects of concussion and repetitive head impact exposure in NCAA student-athletes and U.S. Military Service Academy members  
Department of Defense & National Collegiate Athletic Association (Prime: University of Michigan)  
 Role: Site Principal Investigator (10%)  
 DC: \$188,460 F&A: \$49,000 Total: \$237,459 (UNC subaward)

**A3. Completed (14)**

04/01/15 – 03/31/20 Pinton G (PI)  
 Shear shock wave propagation in the brain: High frame-rate ultrasound imaging, characterization, and simulations

National Institutes of Health-National Institute of Neurological Disorders and Stroke (NIH-NINDS)

5R01NS091195-01-02

Role: Co-Investigator (5%)

DC: \$1,250,000 F&A: \$535,796 Total: \$1,785,796

10/01/18 – 09/30/19 Mihalik JP (PI)

Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach

United States Army Special Operations Command

H92456-19-P-0046

Role: Principal Investigator (7.5%)

DC: \$142,122 F&A: \$78,878 Total: \$221,000

01/01/19 – 03/31/20 Mihalik JP (PI)

Acclimatizing warfighters through actionable research (AWARE)

Uniformed Services University (Prime: Department of Defense United States Special Operations Command/Henry M. Jackson Foundation)

HU0001-15-2-0053

Role: Site Principal Investigator (20%)

DC: \$236,432 F&A: \$136,567 Total: \$449,999 (UNC subaward)

08/01/14 – 07/31/19 Marshall SW (PI)

UNC Injury Prevention Research Center (Project 2: Innovative behavior modification strategies to reduce mild traumatic brain injury risk in high school football athletes)

Centers for Disease Control and Prevention (CDC)

2R49CE002479-01

Role: Co-Investigator; Project 2 Co-Principal Investigator (11%)

Total Award: \$4,499,000 to UNC Injury Prevention Research Center

DC: \$495,652 F&A: \$142,330 Total: \$637,982 (Project 2)

04/26/18 – 04/25/19 Mihalik JP (PI)

Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach

United States Army Special Operations Command

H92236-18-P-5295

Role: Principal Investigator (1%)

DC: \$85,347 F&A: \$47,368 Total: \$132,715

11/01/14 – 05/31/18 Mihalik JP & Guskiewicz KM (Co-PI)

NCAA-DOD Grand Alliance: Advanced Research Core (ARC)

Department of Defense & National Collegiate Athletic Association (Prime: Medical College of Wisconsin)

W81XWH-14-2-0151 (Prime Award #)

Role: Site Co-Principal Investigator (5%)

DC: \$599,328 F&A: \$149,074 Total: \$748,402 (UNC subaward)

08/01/14 – 04/30/18 Mihalik JP & Guskiewicz KM (Co-PI)

NCAA-DOD Grand Alliance: Concussion Assessment, Research and Education (CARE) Consortium

Department of Defense & National Collegiate Athletic Association (Prime: University of Michigan)

W81XWH-14-2-0151 (Prime Award #)

Role: Site Co-Principal Investigator (5%)

DC: \$394,300 F&A: \$102,518 Total: \$496,819 (UNC subaward)



11/14/17 – 12/31/17 **Mihalik JP (PI)**  
 Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach (Testing)  
United States Army Special Operations Command  
 H92236-18-P-5066  
 Role: Principal Investigator (1%)  
 DC: \$12,058                      F&A: \$6,692                      Total: \$18,750

08/08/17 – 10/31/17 **Mihalik JP (PI)**  
 Special Operations Evo Pro Initiative: A pilot study  
United States Army Special Operations Command  
 H92236-17-P-5459  
 Role: Principal Investigator (1%)  
 DC: \$11,575                      F&A: \$6,425                      Total: \$18,000

06/01/16 – 05/31/17 **Mihalik JP (PI)**  
 Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach (Testing)  
United States Army Special Operations Command  
 H92236-17-P-5041  
 Role: Principal Investigator (1%)  
 DC: \$63,947                      F&A: \$33,253                      Total: \$97,200

07/31/16 – 07/30/17 **Mihalik JP (PI)**  
 Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach  
United States Army Special Operations Command  
 H92236-16-P-5411  
 Role: Principal Investigator (32%)  
 DC: \$169,279                      F&A: \$80,245                      Total: \$249,524

07/01/14 – 06/30/15 **Mihalik JP (PI)**  
 Tracking Neurological Function in Warrior-Athletes: A Multidisciplinary Approach  
United States Army Special Operations Command—Defense Advanced Research Projects Agency  
 H92236-14-P-5193  
 Role: Principal Investigator (5%)  
 DC: \$380,980                      F&A: \$155,408                      Total: \$536,388

07/01/13 – 09/30/14 **Guskiewicz KM (PI)**  
 The utility of the Display Enhanced Testing for Concussion Technology (DETECT) in the screening and  
 management of potential concussion injuries  
Department of Defense/Army Research Office (Emory University subcontract)  
 Role: Co-Investigator (0%)  
 Total Award: \$1,500,000 to Emory University (Co-PIs: Espinoza T & Phelps S)  
 DC: \$58,289                      F&A: \$28,586                      Total: \$86,875 (UNC subaward)

07/01/12 – 06/30/14 **Mihalik JP (PI)**  
 Scientific assessment support for the SOTF enhanced traumatic brain injury surveillance program.  
United States Army Special Operations Command  
 H92236-12-P-5253  
 Role: Principal Investigator (0%)  
 DC: \$139,200                      F&A: \$0                      Total: \$139,200

**B. Non-Federal Extramural Funding****B1. Pending/In Review (0)**

None

**B2. Current (2)**

01/01/19 – 12/31/23 Guskiewicz KM (PI)

Mechanisms of a potential treatment for repetitive concussions and Chronic Traumatic Encephalopathy  
National Football League Scientific Advisory Board (Prime: Boston Children's Hospital)

Role: Site Co-Investigator (15%)

DC: \$4,251,868 F&amp;A: \$422,186 Total: \$4,674,054 (UNC subaward)

07/11/16 – 05/30/21 Register-Mihalik JK (PI)

Management and treatment of sport-related concussion: Early multidimensional rehabilitation versus enhanced graded exercise

National Football League Foundation

Role: Co-Investigator (5%)

DC: \$2,442,809 F&amp;A: \$157,148 Total: \$2,599,997

**B3. Completed (19)**

07/01/13 – 06/30/19 Guskiewicz KM, McCrea M, &amp; Mihalik JP (Co-PI)

A prospective, longitudinal study of head impact exposure, neurologic health and brain imaging biomarkers in former NCAA athletes: 15-year follow-up of the original NCAA concussion study

National Collegiate Athletic Association

Role: Site Principal Investigator (4%)

Total Award: \$800,000 to Medical College of Wisconsin (PI: McCrea)

DC: \$140,641 F&amp;A: \$14,064 Total: \$154,705

07/01/16 – 06/30/17 Teel EF (PI)

The effect of ACTIVE training on clinical and physiological outcomes in healthy and concussed college-aged participants

National Athletic Trainers' Association Doctoral Research Grant

Role: Co-Investigator (0%)

DC: \$2,440 F&amp;A: \$0 Total: \$2,440

07/01/16 – 06/30/17 Teel EF (PI)

The effect of ACTIVE training on healthy and concussed participants

American College of Sports Medicine Clinical Sports Medicine Endowment

Role: Co-Investigator (0%)

DC: \$5,000 F&amp;A: \$0 Total: \$5,000

10/01/15 – 04/30/17 Bass CR (PI)

Evaluation of head impact sensor systems in the lacrosse environment

US Lacrosse

383-8736 (Duke University Award #)

Role: Co-Investigator (0%)

Total Award: \$34,983 to Duke University (PI: Bass CR)

DC: \$6,450 F&amp;A: \$645 Total: \$7,095

07/01/15 – 06/30/16 Lynall RC (PI)

Tandem gait deficits following sport-related traumatic brain injury

American College of Sports Medicine Foundation

Role: Co-Investigator (0%)

DC: \$4,995 F&amp;A: \$0 Total: \$4,995

03/01/14 – 07/31/16 Putukian M & **Mihalik JP** (Co-PI)

The effect of head impact biomechanics on short- and long-term neurological status in collegiate men's and women's lacrosse and soccer players

National Operating Committee on Standards for Athletic Equipment

00002174 (Princeton Award #)

Role: UNC Principal Investigator (11%)

Total Award: \$369,600 to Princeton University (PI: Putukian M)

DC: \$143,715 F&A: \$19,874 Total: \$163,589 (UNC subaward)

10/18/13 – 10/31/16 Guskiewicz KM & **Mihalik JP** (Co-PI)

On-Field Monitoring and Recording of Head Impacts Sustained by NFL Players

National Football League

Role: Co-Principal Investigator (11%)

DC: \$465,111 F&A: \$33,104 Total: \$498,215

12/01/11 – 06/30/12 **Mihalik JP** (PI)

A laboratory evaluation of bull riding helmets and facemasks

J. Pat Evans Research Foundation

Role: Principal Investigator (0%)

DC: \$14,940 F&A: \$0 Total: \$14,940

07/01/12 – 12/31/13 Swartz EE (PI)

Football helmet, facemask, and shoulder pad designs: Implications for acute airway and cardiovascular care in medical emergencies

National Football League Charities

Role: Co-Investigator (11%)

Total Award: \$62,521 to University of New Hampshire

DC: \$13,114 F&A: \$0 Total: \$13,114 (UNC subaward)

03/01/12 – 02/28/14 **Mihalik JP** (PI)

The effect of hyperbaric oxygen therapy on recovery time of sport-related traumatic brain injuries: A double blind randomized clinical trial

National Operating Committee on Standards for Athletic Equipment

Role: Principal Investigator (20%)

DC: \$166,066 F&A: \$31,045 Total: \$197,111

03/01/12 – 02/28/13 Register-Mihalik JK (PI)

Understanding the influence of concussion education on knowledge, attitudes, and behaviors concerning concussion among youth athletes, coaches, and parents

National Operating Committee on Standards for Athletic Equipment

Role: Co-Investigator (2%)

DC: \$60,888 F&A: \$11,636 Total: \$72,524

02/01/11 – 06/30/14 **Mihalik JP** (PI)

Exploring the gender divide: A multi-faceted study of head impact biomechanics, neurocognitive function, and cervical muscle strength

National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Role: Principal Investigator (25%)

DC: \$309,270 F&A: \$29,697 Total: \$338,967

08/01/11 – 12/31/12 Swartz EE (PI)

Football facemask, helmet, and shoulder pad equipment designs: Effects on acute airway and cardiovascular care in medical emergencies

Eastern Athletic Trainers' Association

Role: Co-Investigator (0%)

Total Award: \$7,986 to University of New Hampshire  
 DC: \$0 F&A: \$0 Total: \$0

10/01/10 – 09/30/11 Ocwieja KE & **Mihalik JP** (Co-PI)  
 The effect of play type and closing distance on the biomechanics of head impact severity  
National Athletic Trainers' Association Research and Education Foundation  
 Role: Co-Principal Investigator (0%)  
 DC: \$999 F&A: \$0 Total: \$999

03/01/09 – 02/28/12 Guskiewicz KM & **Mihalik JP** (Co-PI)  
 Prospective investigation of sport-related concussion: relationship between biomechanical,  
 neuroanatomical, and clinical factors  
National Operating Committee on Standards for Athletic Equipment (NOCSAE)  
 Role: Co-Principal Investigator (20%)  
 DC: \$236,475 F&A: \$39,558 Total: \$276,033

01/01/08 – 12/31/09 Guskiewicz KM & **Mihalik JP** (Co-PI)  
 Prospective evaluation of head impacts in youth ice hockey: Part II  
National Operating Committee on Standards for Athletic Equipment (NOCSAE)  
 Role: Co-Principal Investigator (50%)  
 DC: \$136,384 F&A: \$22,877 Total: \$159,261

06/01/09 – 05/31/10 **Mihalik JP** (PI)  
 An investigation of head impact biomechanics in the context of body and ambient temperature  
Canadian Athletic Therapists Association (CATA)  
 Role: Principal Investigator (0%)  
 DC: \$1,480 F&A: \$0 Total: \$1,480

06/15/06 – 11/30/08 Montelpare WJ & Guskiewicz KM (Co-PI)  
 A Prospective Analysis of Head Impacts Sustained in Bantam-Aged Minor Hockey Players  
Ontario Neurotrauma Foundation (ONF)  
 2005-PREV-BANT-387  
 Role: Co-Investigator (50%)  
 Total Award: \$215,960 CDN to Lakehead University (PI: Montelpare WJ)  
 DC: \$101,339 F&A: \$0 Total: \$101,339

06/01/06 – 05/31/07 **Mihalik JP** (PI)  
 Effectiveness of Cervical Spine Stabilization in Collegiate Ice Hockey Players  
Canadian Athletic Therapists Association (CATA)  
 Role: Principal Investigator (0%)  
 DC: \$1,154 F&A: \$0 Total: \$1,154

### **C. Intramural Funding**

#### **C1. Pending/In Review (0)**

None

#### **C2. Current (0)**

None

#### **C3. Completed (6)**

10/01/18 – 09/30/19 Cools MJ (PI)  
 IGF-1 levels compared with cognitive performance in military cohort

North Carolina Translational & Clinical Sciences Institute 2K Award

Role: Co-Investigator (0%)

DC: \$2,000                      F&amp;A: \$0                      Total: \$2,000

05/15/16 – 08/15/16      Teel EF (PI)

The effect of ACTIVE training on clinical and physiological outcomes in healthy and concussed college-aged participants

UNC-CH Graduate School Summer Fellowship

Role: Co-Investigator (0%)

DC: \$4,000                      F&amp;A: \$0                      Total: \$4,000

01/01/15 – 12/31/15      **Mihalik JP (PI)**

Acute tandem gait deficits following sport-related traumatic brain injury in high school athletes

UNC-Chapel Hill Junior Faculty Development Award

Role: Principal Investigator (0%)

DC: \$7,500                      F&amp;A: \$0                      Total: \$7,500

07/01/14 – 06/30/15      **Mihalik JP (PI)**

Third Matthew Gfeller Sport-Related Neurotrauma Symposium

Arts & Sciences Grants for Interdisciplinary Initiatives

Role: Principal Investigator (0%)

DC: \$4,500                      F&amp;A: \$0                      Total: \$4,500

03/01/11 – 02/28/12      Register-Mihalik JK (PI)

Refining a dual-task rehabilitation progress for mild traumatic brain injury

The North Carolina Translational and Clinical Sciences Institute

Role: Co-Investigator (0%)

DC: \$10,000                      F&amp;A: \$0                      Total: \$10,000

07/01/03 – 06/30/04      **Mihalik JP (PI)**

Postural Control Strategies Observed in Patients with Mild Head Injury

School of Health and Rehabilitation Sciences Research Development Fund

Role: Principal Investigator (0%)

DC: \$952                      F&amp;A: \$0                      Total: \$952

**PROFESSIONAL SERVICE****A. Leadership and Service to Profession***North Carolina Center for Optimizing Military Performance (NC-COMP)*

Steering Committee, August 2020 – Present

*Canadian Athletic Therapists Association*

Ombudsperson, June 2017 – Present

Vice-President, June 2013 – May 2015

Board of Directors, July 2010 – May 2016

Chair, Continuing Education Task Force, January 2013 – May 2017

International Relations Committee—CATA Liaison to the NATA, May 2012 – May 2015

Chair, By-Law Task Force, May 2011 – May 2012

Program Accreditation Committee, October 2007 – May 2012

*Canadian Concussion Collaborative*

Core Member, March 2015 – March 2018

*Concussion and Head Injuries in Sports Working Group (Canadian Intergovernmental Group)*  
Member, March 2016 – March 2018

*Canadian Standards Association (CSA)*  
Technical Committee on Hockey Equipment, September 2016 – Present

*J. Pat Evans Research Foundation*  
Research Committee Chair, July 2009 – Present

*Mayo Clinic Sports Medicine Center Ice Hockey Summit II: Action on Concussion*  
Steering Committee, September 2012 – Present

*National Athletic Trainers' Association*  
Spine Injury in Sports Group: Developing evidence-based recommendations for the prehospital care of the spine-injured athlete, 2018 – Present  
Inter-Association Task Force for Appropriate Care of the Spine-Injured Athlete, 2015-2018  
Position Statement: Head Contact in Collision Sports, 2014 – Present  
Inter-Association Task Force for Preventing Sudden Death in Secondary School Athletics Programs, 2013  
Inter-Association Task Force for Preventing Sudden Death in Collegiate Conditioning Sessions, 2012

## **B. Research service**

### *Journal editorial board*

Journal of Athletic Training  
Associate Editor, August 2018 – Present  
Editorial Board, April 2015 – July 2018  
Athletic Training and Sports Health Care  
Editorial Board, May 2008 – December 2018  
*ISRN Emergency Medicine*, April 2011 – September 2013  
*Frontiers in Sports Neurology*, April 2011 – September 2013

### *Journal peer reviewer*

American Journal of Preventive Medicine  
American Journal of Sports Medicine  
Annals of Biomedical Engineering  
ASTM Special Technical Publications  
British Journal of Sports Medicine  
Clinical Journal of Sports Medicine  
Critical Care Medicine  
Gait & Posture  
International Journal of Sport Communication  
International Journal of Sports Medicine  
Journal of Athletic Training  
Journal of Special Operations Medicine  
Journal of Sport Rehabilitation  
Journal of the ASTM International  
Medicine & Science in Sports & Exercise  
Military Medicine  
Neurosurgery  
Pediatrics  
Physician and Sportsmedicine, The  
Physiology & Behavior

*Grant reviewer*

Congressionally Directed Medical Research Program Psychological Health and Traumatic Brain Injury Research Program  
J. Pat Evans Research Foundation  
National Athletic Trainers' Association Research and Education Foundation  
National Operating Committee on Standards for Athletic Equipment (NOCSAE)  
Natural Sciences and Engineering Research Council of Canada (NSERC)  
United States Army Medical Research and Materiel Command Broad Agency Announcement for Extramural Medical Research - Combat Casualty Care

**C. Within UNC-Chapel Hill**

*Center/Laboratory leadership*

Co-Director, Matthew Gfeller Sport-Related Traumatic Brain Injury Research Center, 2011 –  
Director, Exercise and Sport Science Cadaver Anatomy Laboratory, 2010 – 2017

*Departmental service*

Chair, Search committee, 2018 – 2019  
Facilities Committee, 2010 – Present  
Blyth Lecture Committee, 2011 – 2016  
Search Committee, Sport epidemiology faculty position, 2015 – 2016  
Search Committee, Sport Administration Lecturer/Adviser, 2013 – 2014  
Co-Chair, HMSC Director Search Committee, 2013  
Chair Nomination Committee, Exercise and Sport Science, 2012 – 2013  
Co-Chair, Ronald W. Hyatt Scholarship Committee, 2013  
Search Committee, Sport epidemiology faculty position, 2012 – 2013  
Program Chair, Matthew Gfeller Sport-Related Neurotrauma Symposium, 2010 – Present  
Evaluator, Comprehensive Examinations, 2009 – Present  
Patrick Earey Award Selection Committee, 2011 – 2013  
Scholar Athlete Award Selection Committee, 2012 – 2013

*University service*

College of Arts & Sciences Conflict of Interest Committee  
Chair, June 2018 – Present  
Member, July 2012 – May 2018  
University Conflict of Interest Advisory Committee  
October 2020 – present  
Foreign Influence Working Group, July 2019 – Present  
Executive Advisory Committee, Neuroscience Major, 2017 – Present  
User Advisory Committee, Biomedical Research Imaging Center, 2015 – Present  
Psychology and Neuroscience User Group for Phase III Science Complex Planning, 2017 –  
Curriculum Committee, The Shuford Program in Entrepreneurship, October 2017 – Present  
Faculty Information Technology Advisory Panel (FITAP), 2014 – Present  
Graduate School Impact Awards Selection Committee, 2012  
Faculty Council, Runner-Up, Arts & Sciences Non-Tenured, 2011  
Graduate Student Representative to the Associate Vice Chancellor for University Relations  
(Carolina Engagement Council), 2007 – 2009

**D. Community engagement**

*Invited presentations (16)*

**Mihalik JP.** College Athlete Safety Panel. *Sixth Annual College Sport Research Institute Conference on College Sport*, Chapel Hill, NC. (April 18, 2013).

**Mihalik JP.** Head games and Athletic Therapy. *Sheridan College*, Brampton, Ontario, Canada. (October 18, 2012).

**Mihalik JP.** Heads up on concussions. *Randolph Hospital Medical Series*, Asheboro, NC. (August 28 & September 18, 2012).

**Mihalik JP.** Finding an academic position. *Career Symposium for Graduate Students and Postdoctoral Research Fellows*, UNC-Chapel Hill, NC. (November 5, 2011).

**Mihalik JP.** Preparing youth for high velocity sports. *Rawlings Football ProtectEd Event*, St. Louis, MO. (August 6, 2011).

**Mihalik JP.** Advanced concussion management: Frontiers of research, and selected case studies. *Carolina Family Practice and Sports Medicine*, Raleigh, NC. (July 16, 2011).

**Mihalik JP.** Head injuries. *The Game Plan for Sports*, Chapel Hill, NC. (September 30, 2010).

**Mihalik JP.** Now that's using your head: The latest breakthroughs in concussion research. *WakeMed SportFit CME2010*, Raleigh, NC. (June 19, 2010).

**Mihalik JP.** Concussion in youth ice hockey: A coach's perspective. *2010 USA Hockey Level IV Coaching Certification Course*, Durham, NC. (May 13, 2010).

**Mihalik JP.** Head injury biomechanics. *2010 University of North Carolina Athletic Training Symposium*, Chapel Hill, NC. (February 27, 2010).

**Mihalik JP.** (2009). Current trends in concussion management: Driving the future of pediatric concussion research. *WakeMed Pediatric Grand Rounds*, Raleigh, NC. (February 18, 2009).

**Mihalik JP.** Sports-related concussion: Bridging the gap between research and clinical practice. *NATA Seminar at the 2007 National Sportscasters and Sportswriters Association Annual Awards Program*, Salisbury, NC. (April 28-29, 2007).

**Mihalik JP & Guskiewicz KM.** Kinesiology of the lower extremity. *The University of North Carolina Orthopaedic Residency Program Lecture Series*. Chapel Hill, NC. (May 11, 2006).

**Mihalik JP.** Current concepts in the management of sports-related head injuries. *The Western Pennsylvania Hospital Family Practice Residency Program Lecture Series*. Pittsburgh, PA. (June 21, 2004).

**Mihalik JP.** Orthopaedic and Sports Medicine Seminar. *Dunbar Medical Lecture Series*. Mississauga, ON, Canada. (Summer 2003).

**Mihalik JP.** Orthopaedic and Sports Medicine Seminar. *Dunbar Medical Lecture Series*. Mississauga, ON, Canada. (Summer 2002).

#### **E. Selected media appearances**

Concussion care on the front lines

UNC.edu

URL: <https://www.unc.edu/discover/concussion-care-on-the-frontlines/>

October 16, 2019 (Online)

UNC brain trauma symposium brings together researchers, clinicians

Chapelboro.com



URL: <https://chapelboro.com/news/unc/unc-brain-trauma-symposium-brings-together-researchers-clinicians>  
March 11, 2019 (Print - Online)

Recent high school football injuries reignite debate about safety  
ABC11 News  
URL: <http://abc11.com/2545409/>  
October 17, 2017 (Television)

Why parents shouldn't clear kids from concussions  
USA Today  
URL: <http://www.usatoday.com/story/sports/columnist/nancy-armour/2017/02/28/north-carolina-parents-concussion-house-bill-116/98544558/>  
March 1, 2017 (Print – National newspaper)

Not all concussion monitors work effectively, researchers say  
CBS News (WNCN Raleigh affiliate)  
URL: <http://wncn.com/2017/02/20/not-all-concussion-monitors-work-effectively-researchers-say/>  
February 20, 2017 (Television)

Preventing pediatric trauma is the focus of new congressional caucus  
Time Warner Cable News NY1  
URL: <http://www.ny1.com/nyc/all-boroughs/news/2016/09/21/preventing-pediatric-trauma-is-the-focus-of-new-congressional-caucus.html>  
September 22, 2016 (Television)

Surge in ER visits for injuries, concussions from soccer  
WRAL News  
URL: <http://www.wral.com/surge-in-er-visits-for-injuries-concussions-from-soccer/16006832/>  
September 12, 2016 (Television)

I-Team: How dangerous is football for teens?  
ABC11 Eyewitness News  
URL: <http://abc11.com/sports/i-team-how-dangerous-is-football-for-teens/1200974/>  
February 15, 2016 (Television)

Football and the brain  
CBS 60 Minutes  
URL: <http://www.cbsnews.com/news/football-and-the-brain-nfl-60-minutes/>  
November 15, 2015 (Television)

Concussion research at UNC  
Time Warner Cable News  
URL:  
<http://mms.tveyes.com/transcript.asp?StationID=8165&DateTime=11/14/2015%209:28:13%20PM&playclip=true>  
November 14, 2015 (Television)

UNC youth ice hockey concussion research  
Carolina Hurricanes Pre-Game Show on Fox Sports Carolinas  
March 1-2, 2014 (Television—2-part series)

Concussion study  
Football Saturdays on Raycom Sports  
URL: <http://raycomsports.com/football-saturdays-in-the-south/>  
August 3, 2013 (Television)

UNC leads way in concussion research

WRAL News

URL: <http://www.wralsportsfan.com/a-concussion-will-give-you-a-headache-/12109687/>

February 14, 2013 (Television and online)

Concussion? There's an app for that

UNC Spotlight Feature

URL: <http://www.unc.edu/spotlight/concussion-app>

March 5, 2012 (Posted to www.unc.edu as Spotlight Feature)

Youth hockey aims to curb concussion risk

Raleigh News & Observer

URL: <http://www.newsobserver.com/2011/12/19/1719682/youth-hockey-aims-to-curb-concussion.html>

December 19, 2011 (Print and Online media)

Experts say helmets are not cure-all

ESPN NFL

URL: <http://sports.espn.go.com/nfl/news/story?id=6685511>

June 20, 2011 (Online media)

App for mobile phones helps diagnose concussions

Fox News

URL: <http://www.foxnews.com/health/2011/06/03/app-for-mobile-phones-helps-diagnose-concussions/>

June 3, 2011 (Online)

Expert discusses advances in concussion research

National Collegiate Athletic Association News

URL: <http://www.ncaa.org/wps/wcm/connect/public/ncaa/resources/latest+news/2011/february/expert+discusses+advances+in+concussion+research>

February 8, 2011 (Online)

At the Mayo Clinic: Women's hockey, a most dangerous sport

New York Times Slap Shot: News from the hockey world

URL: <http://slapshot.blogs.nytimes.com/2010/10/19/at-the-mayo-clinic-womens-hockey-a-most-dangerous-game/>

October 19, 2010 (Online blog)

Bracing for blow may ward off brain injury

Paging Dr. Gupta

URL: <http://pagingdrgupta.blogs.cnn.com/2010/05/17/bracing-for-blow-may-ward-off-brain-injury>

May 17, 2010 (Online blog)

'Keep head up' hockey advice gains proof

CBC News

URL: <http://www.cbc.ca/m/rich/health/story/2010/05/16/hockey-boys-helmet-head-injury.html>

May 17, 2010 (Print media)

Offensive play: How different are dogfighting and football?

The New Yorker

URL: [http://www.newyorker.com/reporting/2009/10/19/091019fa\\_fact\\_gladwell](http://www.newyorker.com/reporting/2009/10/19/091019fa_fact_gladwell)

October 19, 2009 (Print media)