

Publications and Presentations

Peer-Reviewed Articles:

Collins, M. W. & **Womble, M. N.** (2017). Concussion: Moving in the right direction. *Journal of Pediatric Surgery*, In Press (invited article).

Sufrinko, A. M., McAllister-Deitrick, J., **Womble, M. N.** & Kontos, A. P. (2016). Do sideline concussion assessments predict subsequent neurocognitive impairment following sport-related concussion (SRC)? *Journal of Athletic Training*, In Press.

Womble, M. N. & Collins, M. W. (2016). Concussions in American football. *The American Journal of Orthopedics*, 45(6), 353-356 (invited article).

Womble, M. N., Reynolds, E., Schatz, P., Shah, K. M., & Kontos, A. P. (2016). Test-retest reliability of computerized neurocognitive testing across in youth ice hockey players. *Archives of Clinical Neuropsychology*, 31, 305-312. doi: 10.1093/arclin/acw011

Kontos, A. P. Sufrinko, A. M., **Womble, M. N.**, & Kegel, N. (2016). Neuropsychological assessment following concussion: An evidence-based review of the role of neuropsychological assessment pre- and post-concussion. *Current Pain and Headache Reports*, 20(6), 38 (invited article). doi: 10.1007/s11916-016-0571-y

Sidiropoulos, C., Rammo, R., Merker, B., Mahajan, A., LeWitt, P., Kaminski, P., **Womble, M. N.**, Zec, A., Taylor, D., Wall, J., & Schwalb, J. M. (2016). Intraoperative MRI for deep brain stimulation lead placement in Parkinson's disease: 1 year motor and neuropsychological outcomes. *Journal of Neurology*. doi: 10.1007/s00415-016-8125-0

Hill, B. D., **Womble, M. N.**, & Rohling, M. L. (2015). Logistic regression function for detection of suspicious performance during baseline evaluations using Concussion Vital Signs. *Applied Neuropsychology: Adult*, 22(3), 233-240. doi: 10.1080/23279095.2014.910215

Womble, M. N., Labbé, E. E., Shelley-Tremblay, J. F., & Norell, P. M. (2014). Regular exercise adoption: Psychosocial factors influencing college students. *The Journal of Sport Behavior*, 37(2), 203-219.

Womble, M. N., Labbé, E. E., Cochran, C. R. (2013). Spirituality and personality: Understanding their relationship to health resilience. *Psychological Reports: Mental & Physical Health*, 112(3), 1-10.

Book Chapters and Other Published Research:

Womble, M. N., Henley, J. R., Fedor, S. A., & Collins, M. W. (2016). Post-traumatic headache and migraine assessment and management following sport-related concussion. In P. A. Arnett (Ed.), *Neuropsychological Perspectives on Sports-Related Concussion* (pp. TBD). Manuscript submitted for publication (invited chapter).

Womble, M. N., McAllister-Deitrick, J., Reynolds, E., Elbin, R., Collins, M., & Kontos, A. P. (2016). *Vestibular and oculomotor symptoms and impairment in adolescent athletes post-concussion: Role of risk factors*. The Pittsburgh Orthopaedic Journal, 27, 145.

Reynolds, E., **Womble, M. N.**, Collins, M. W., Hetherington, H., & Kontos, A. P. (2016). *Diffusion tensor imaging of sport-related concussion at sub-acute and recovered time points*. The Pittsburgh Orthopaedic Journal, 27, 143.

Henley, J. R., McAllister-Deitrick, J., **Womble, M. N.**, Sufrinko, A., French, J., & Kontos, A. P. (2016). *Sideline measures of sport-related concussion: Understanding patterns of impairment and their role in prognosis*. The Pittsburgh Orthopaedic Journal, 27, 142.

Rohling, M. L., Langhinrichsen-Rohling, J., & **Womble, M. N.** (2015). Validity testing during pediatric sports-related concussion evaluations. In M. Kirkwood (Ed.), *Validity testing in child and adolescent assessment: Evaluating exaggeration, feigning, and noncredible effort* (pp. 226-249). New York, NY: Guilford Press (invited chapter).

Womble, M. N., Reynolds, E., Shah, K. M., Schatz, P., and Kontos, A. P. (2015). *Reliability of ImPACT across a hockey season: Role of sex and age*. The Pittsburgh Orthopaedic Journal, 26, 147.

Labbé, E. E., **Womble, M. N.**, & Shenesey, J. W. (2012). Evaluating the relationship between mindfulness and resilience. In C. A. Stark & D. C. Bonner (Eds.), *Handbook on spirituality: Belief systems, societal impact and roles in coping* (pp. 303-312). Hauppauge, NY: Nova Science Publishers, Inc. (invited chapter).

Invited Presentations:

Womble, M. N. (2016, June). *Applying targeted treatments to concussion clinical profiles: A case study*. Presented at the Emerging Frontiers in Concussion conference, Pittsburgh, Pennsylvania.

Womble, M. N. (2016, May). *Sport-related concussion: In-season evaluation and management*. Presented at the Inaugural Capital City Sports Medicine Summit, Washington, D.C.

Womble, M. N. (2016, February). *Evaluation and management of sport-related concussion*. Presented to physicians, nurses, school administrators, athletic directors, athletic trainers and coaches in Columbus, Indiana.

Womble, M. N. (2016, February). *Concussion: The information you should know*. Presented to the general public in Columbus, Indiana.

Reynolds, E. & **Womble, M. N.** (2015, November). *Diffusion tensor imaging of sport-related concussion at sub-acute and recovered time points*. Paper presented at the 35th annual meeting of the National Academy of Neuropsychology, Austin, Texas.

Womble, M. N. (2015, September). *Evidence based evaluation and management of sport-related concussion*. Presented to the Orthopaedic Surgery Department at the University of Pittsburgh Medical Center Grand Rounds, Pittsburgh, Pennsylvania.

Womble, M. N. (2015, June). *The influence of age and sex of test-retest reliability of ImPACT in youth ice hockey players*. Presented at the University of Pittsburgh Medical Center Grand Rounds, Pittsburgh, Pennsylvania.

Johnson, E., **Womble, M. N.**, & Anselmo, K. (2015, April). *Trajectory approach for conceptualization and treatment of concussion*. Presentation given to the Alderson Broaddus University athletic training department, Pittsburgh, Pennsylvania.

Womble, M. N. (2015, February). *Assessment, conceptualization and treatment of concussion*. Presentation given to the James Madison University athletic training alumni, Pittsburgh, Pennsylvania.

Womble, M. N. & Custer, A. (2015, February). *Assessment, conceptualization and treatment of concussion*. Presentation given to athletic training students at the University of Pittsburgh, Pittsburgh, Pennsylvania.

Womble, M. N. (2013, July). *ImPACT administration and interpretation guidelines for baseline testing*. Presentation given to the Henry Ford Division of Sports Medicine and the University of Detroit Mercy Division of Sports Medicine, Detroit, Michigan.

Poster Presentations:

Henley, J. R., **Womble, M. N.**, Sufrinko, A. M., Reynolds, E. & Kontos, A. P. (2016, October). *Convergence insufficiency is related to acute neurocognitive impairment but not clearance following sport-related concussion*. Poster will be presented at the 36th annual meeting of the National Academy of Neuropsychology, Seattle, Washington.

Womble, M. N., Henley, J. R., Sufrinko, A. M., & Kontos, A. P. (2016, April). *Sport-related concussion and convergence abnormalities: What is the relationship to computerized neurocognitive data?*
Poster presented at the 4th annual Sport Concussion Symposium and Meeting of the Sports Neuropsychology Society, Houston, Texas.

Sufrinko, A. M., **Womble, M. N.**, Henley, J. R., McAllister-Deitrick, J., French, J., & Kontos, A. P. (2016, February). *Sideline measures of sport-related concussion: Understanding their prognostic utility and mutual relationship*. Poster presented at the 2016 Big Sky Athletic Training Sports Medicine Conference meeting, Big Sky, Montana.

Reynolds, E., Henry, L. C., **Womble, M. N.**, Collins, M. W., Hetherington, H., & Kontos, A. P. (2015, November). *Diffusion tensor imaging of sport-related concussion at sub-acute and recovered time points*. Poster presented at the 35th annual meeting of the National Academy of Neuropsychology, Austin, Texas.

Womble, M. N., Reynolds, E., Elbin, R., Collins, M. W., & Kontos, A. P. (2015, November). *Risk factors for post-concussion vestibular and oculomotor symptoms and impairment in adolescent athletes*. Poster presented at the 35th annual meeting of the National Academy of Neuropsychology, Austin, Texas.

Kontos, A.P., **Womble, M. N.**, Elbin, R. J., Schatz, P., Reynolds, E., & Shah, K. M. (2015, August). *Reliability of a computerized neurocognitive test across a season: Role of sex and age*. Poster presented at the 123rd annual meeting of the American Psychological Association, Toronto, Canada.

Womble, M. N., Reynolds, E., Schatz, P., Shah, K. M., & Kontos, A. P. (2015, May). *Influence of age and sex on test-retest reliability of ImPACT in youth ice hockey players*. Poster presented at the 3rd annual Sport Concussion Symposium and Meeting of the Sports Neuropsychology Society, Atlanta, Georgia.

Womble, M. N. (2014, November). *Sport-related concussion: Examination of baseline and post-injury testing and procedures*. Poster presented and awarded the NAN Outstanding Dissertation Award at the 34th annual meeting of the National Academy of Neuropsychology, Fajardo, Puerto Rico.

Russ, K., Hill, B. D., Fields, K., Pastuszak, J., & **Womble, M. N.** (2014, November). *Marking neuropathology: Comparing cognitive intra-individual variability in concussed and healthy student athletes*. Poster presented at the 34th annual meeting of the National Academy of Neuropsychology, Fajardo, Puerto Rico.

Russ, K., Hill, B. D., Fields, K., **Womble, M. N.**, & Rohling, M. L. (2014, February). *The reliability of cognitive consistency: Cognitive intra-individual variability across two testing sessions*. Poster presented at the 42nd annual meeting of the International Neuropsychological Society, Seattle, Washington.

Womble, M. N., Hill, B. D., Boettcher, A., Kline, J., & Corley, E. R. (2013, February). *Association between experimental measures of working memory ability and Concussion Vital Signs domains*. Poster presented at the 41st annual meeting of the International Neuropsychological Society, Waikola, Hawaii.

Hill, B. D., Boettcher, A., Cary, B., Kline, J., & **Womble, M. N.** (2013, February). *Much ado about norming: A comparison of the Heaton demographically adjusted norms and Mitrushina meta-norms*. Poster presented at the 41st annual meeting of the International Neuropsychological Society, Waikola, Hawaii.

Hill, B. D., Boettcher, A., Kline, J., Hoadley, R., & **Womble, M. N.** (2013, February). *Positive linear relationship between traumatic brain injury severity and intra-individual variability across a neuropsychological battery*. Poster presented at the 41st annual meeting of the International Neuropsychological Society, Waikola, Hawaii.

Womble, M. N., Rohling, M. L., Hill, B. D., & Corley, E. R. (2012, November). *Group size effects for baseline and post-injury sports-related concussion assessment*. Poster presented at the 32nd annual conference of the National Academy of Neuropsychology, Nashville, TN.

Womble, M. N., Rohling, M. L., Hill, B. D., & Corley, E. R. (2012, November). *Understanding change on ImPACT and CVS following a sports-related concussion*. Poster presented at the 32nd annual conference of the National Academy of Neuropsychology, Nashville, TN.

Hill, B. D., Rohling, M. L., Wang, B., **Womble, M. N.**, Gervais, R., & Greiffenstein, M. (2012, November). *Sensitivity and specificity of three symptom validity tests using a Bayesian latent class model for effort as a gold standard criterion*. Poster presented at the 32nd annual conference of the National Academy of Neuropsychology, Nashville, TN.

Drayer, K., Rohling, M. L., Ploetz, D. M., **Womble, M. N.**, & Hill, B. D. (2012, November). *Validating a new memory measure: An experimental memory task*. Poster presented at the 32nd annual conference of the National Academy of Neuropsychology, Nashville, TN.

Chavers, D., Labbé, E. E., **Womble, M. N.**, & Wilson, K. (2012, February). *Personality and depression: Does religiosity or spirituality matter?* Paper presented at the 58th annual conference of the Southeastern Psychological Association, New Orleans, LA.

Wilson, K., Labbé, E. E., **Womble, M. N.**, Chavers, D., McMahon, H. G., & Shelley-Tremblay, J. F. (2012, February). *Resilience and health characteristics in the Hispanic population*. Poster presented at the 58th annual conference of Southeastern Psychological Association, New Orleans, LA.

Rohling, M. L., Hill, B. D., Ploetz, D. M., **Womble, M. N.**, & Shenese, J. W. (2011, November). *Embedded validity measures for computerized neuropsychological batteries*. Poster presented at the 31st annual conference of the National Academy of Neuropsychology conference, Marco Island, FL.

Labbé, E. E., **Womble, M. N.**, Chavers, D., Shenese, J. W., & Wilson, K. (2011, November). *Exploring the relationship between mindfulness, spirituality, religiosity and personality*. Poster presented at the 45th annual conference of the Association for Behavioral and Cognitive Therapy conference, Toronto, Canada.

Glusman, M., Rohling, M. L., Hill, B. D., Ploetz, D. M., **Womble, M. N.**, & Shenese, J. W. (2011, October). *You can't fake this: Embedded validity measures for a computerized cognitive test battery*. Poster presented at the 13th annual Undergraduate Symposium hosted by the University of South Alabama University Committee on Undergraduate Research, Mobile, AL.

Womble, M. N., Hill, B. D., Ploetz, D. M., Shenese, J. W., & Pella, R. D. (2011, June). *Application of a Mittenberg-type formula for identifying non-credible performance on the WJ-III*. Poster presented at the 9th annual meeting of the American Academy of Clinical Neuropsychology conference, Washington, DC.

Ploetz, D. M., Rohling, M. L., **Womble, M. N.**, Drayer, K., & Lankey, M. (2011, June). *Eye tracking measures and response accuracy as measures of detection of feigning*. Poster presented at the 9th annual meeting of the American Academy of Clinical Neuropsychology conference, Washington, DC.

Womble, M. N., Labbé, E. E., Shelley-Tremblay, J. F., & Norell, P. M. (2011, August). *Regular exercise adoption: Evaluating psychosocial factors influencing college students*. Poster presented at the 119th annual convention of the American Psychological Association, Washington, DC.

Labbé, E. E., **Womble, M. N.**, Shenese, J. W., Wilson, K., Chavers, D., & Williams, R. (2011, March). *Validation of a biopsychosocial resilience scale: The resilience questionnaire*. Poster presented at the 57th annual convention of the Southeastern Psychological Association, Jacksonville, FL.

Womble, M. N., Rohling, M. L., Gervais, R., & Greiffenstein, M. (2010, October). *A known groups analysis of the Test of Memory and Malinger: Validation of diagnostic decision rules*. Poster presented at the 30th annual conference of the National Academy of Neuropsychology, Vancouver, British Columbia.

Ploetz, D. M., Rohling, M. L., Lankey, M., & **Womble, M. N.** (2010, October). *You can't hide your lyin' eyes: Eye-tracking measures and feigning*. Poster presented at the 30th annual conference of the National Academy of Neuropsychology, Vancouver, British Columbia.

Womble, M. N., & Labbé, E. E. (2010, March). *Mindfulness: A prescription for better health?* Poster presented at the 8th annual Mid-Year Conference on Religion and Spirituality (Hosted by Division 36 of the APA), Columbia, MD.

Labbé, E. E., Shenese, J. W., & **Womble, M. N.** (2010, March). *Resilience: What doesn't kill you makes you...stronger?* Poster presented at the 56th annual convention of the Southeastern Psychological Association, Chattanooga, TN.

Womble, M. N., Cochran, C. R., & Labbé, E. E. (2009, March). *Spirituality, personality, and health: Understanding the relationship.* Poster presented at the 16th annual research forum of the University of South Alabama's Research Council, Mobile, AL.

Womble, M. N., Cochran, C. R., & Labbé, E. E. (2009, March) *Spirituality, personality, and health: Understanding the relationship.* Poster presented at the 55th annual convention of the Southeastern Psychological Association, New Orleans, LA.