

CURRICULUM VITAE

Lindsay D. Nelson PhD

Associate Professor
Department of Neurosurgery
Division of Research

OFFICE ADDRESS:

Hub for Collaborative Medicine
8701 Watertown Plank Road
Milwaukee, WI 53226

EDUCATION:

2002 - 2006 B.S., University of Michigan, Ann Arbor, MI
2006 - 2009 M.A., University of Minnesota, Minneapolis, MN
2009 - 2012 Ph.D., Florida State University, Tallahassee, FL

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

09/01/2012 - 08/31/2014 Neuropsychology Fellow, Neurology, Neuropsychology, Medical College of Wisconsin, 9200 West Wisconsin Ave., Milwaukee, WI 53226

FACULTY APPOINTMENTS:

09/01/2014 - Present Assistant Professor, Neurosurgery & Neurology, Medical College of Wisconsin, 8701 West Watertown Plank Road, Milwaukee, WI 53226

HOSPITAL STAFF PRIVILEGES:

11/21/2014 - Present Assistant Professor, Neurology, Neuropsychology, Froedtert & Medical College of Wisconsin

AWARDS AND HONORS:

2002 Michigan Merit Award
2002 Regents Merit Scholarship, University of Michigan
2002 - 2006 Robert C. Byrd Honors Scholarship, One chosen per MI high school per year; based on GPA and ACT score
2003 Margaret S. Huntington Scholarship, University of Michigan Department of Mathematics
2005 College of Literature, Science and Arts Honors Research Grant, University of Michigan
2005 Muenzer Memorial Award in Psychology, University of Michigan
2005 Tanner Memorial Award in Psychology, University of Michigan
2006 - 2008 Graduate School Research Fellowship, University of Minnesota
2007 Student Poster Award, Society for Psychophysiological Research
2007 Student Grant, Association for Psychological Science
2007 Graduate Research Partnership Program Award, University of Minnesota
2008 David Campbell Graduate Research Fellowship, University of Minnesota
2008 - 2009 Trainee, NIMH T32 Institutional Training Grant, University of Minnesota
2014 Post Graduate Scholar Award, Medical College of Wisconsin Dept. of Neurology
2014 Charles D. Jacobus Family Foundation Award for Brain Injury Research

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

2004 - 2012 Association for Psychological Science (Member)
2006 - 2012 Society for Psychophysiological Research (Member)
2008 - 2012 Society for the Scientific Study of Psychopathy (Member)

2010 - Present International Neuropsychological Society (Member)
2011 - 2012 American Psychological Association (Member)
2011 - 2012 National Academy of Clinical Neuropsychology (Member)
2011 - Present American Academy of Clinical Neuropsychology (Member)
2017 - Present National Neurotrauma Society (Member)
2017 - Present Psychoneuroimmunology Research Society (Member)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Journal Review

2010 Biological Psychology
2011 Motivation & Emotion
2012 Addiction Biology
2013 Neuropsychology Review
2014 Annals of Neurology
2015 Medicine & Science in Sports & Exercise
2015 Journal of Personality Disorders
2015 International Journal of Psychophysiology
2015 Applied Neuropsychology: Child
2016 Sports Medicine
2016 Research Quarterly for Exercise and Sport
2016 Assessment
2017 International Journal of Environmental Research & Public Health
2017 Sport, Exercise, & Performance Psychology
2017 Epidemiology & Psychiatric Sciences
2017 Journal of Concussion
2017 Concussion

Ad-Hoc Reviewer

2011 - 2012 Aging, Neuropsychology & Cognition
2014 - 2017 Journal of Athletic Training
2015 - 2017 Journal of the International Neuropsychological Society
2015 - 2017 Pediatrics
2015 - 2017 The Clinical Neuropsychologist
2015 - 2016 Journal of Clinical & Experimental Neuropsychology

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	The DOD/NCAA Grand Alliance: Concussion assessment, research and education (CARE)
Source:	Department of Defense/National Collegiate Athletic Association
Role:	Co-Investigator
PI:	William McAllister, Steven Broglio, Michael McCrea
Dates:	09/15/2014 - 09/14/2017
Direct Funds:	\$5,091,786
Title:	Comprehensive study of acute effects and recovery after concussion: An integrated investigation of head impact sensor technology, blood biomarkers, advanced neuroimaging, genetic testing, and clinical outcome metrics
Source:	Department of Defense
Role:	Co-Investigator

PI:	Michael McCrea
Dates:	09/30/2014 - 09/29/2018
Direct Funds:	\$4,035,579
Title:	Assessing Cerebrovascular Alterations During Recovery After Sports-Related Concussions (SRC)
Source:	Advancing a Healthier Wisconsin (AHW) Research & Education Program
Role:	Co-Investigator
PI:	Yang Wang, MD, PhD
Dates:	02/01/2017 - 01/31/2019
Direct Funds:	\$200,000
Title:	Improving Patient-Centered Outcome Measurement for Patients with Traumatic Brain Injury
Source:	Center for Patient Care and Outcomes Research (PCOR)
Role:	Principal Investigator
Dates:	03/01/2017 - 02/28/2018
Direct Funds:	\$30,000
Title:	Clinical Phenotyping of Mild Traumatic Brain Injury (mTBI)
Source:	National Institute of Neurologic Disorders & Stroke (NINDS)
Role:	Principal Investigator
Dates:	04/01/2017 - 03/31/2019
Direct Funds:	\$100,000

Prior

Peer Review

Title:	Psychometric and neurobiological indicators of impulse control disorders
Source:	National Institute of Mental Health (NIMH)
Role:	Principal Investigator
Dates:	09/08/2010 - 09/07/2011
Direct Funds:	\$33,894
Title:	Predictive value of brief personality measures on recovery course and outcome after mild traumatic brain injury (mTBI)
Source:	MCW CTSI/Advancing a Healthier Wisconsin
Role:	Principal Investigator
Dates:	04/01/2015 - 03/31/2016
Direct Funds:	\$50,000
Title:	Magnetoencephalographic (MEG) biomarkers of concussion
Source:	Advancing a Healthier Wisconsin (AHW) Research & Education Program
Role:	Principal Investigator

Dates:	02/01/2016 - 02/28/2017
Direct Funds:	\$25,000
Title:	Association between post-concussive activity and clinical and neurophysiologic recovery
Source:	CTSI
Role:	Principal Investigator
Dates:	04/01/2016 - 03/31/2017
Direct Funds:	\$50,000
Title:	Predictive value of brief personality measures on recovery course and outcome after mild traumatic brain injury (mTBI): 2016 extension project
Source:	CTSI
Role:	Principal Investigator
Dates:	04/01/2016 - 03/31/2017
Direct Funds:	\$25,000

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

- Nelson, L.D., Updating theories of performance monitoring: The relationship between the brain's response to errors and feedback, Annual Research Day, University of Minnesota Department of Psychology, 03/2007
- Nelson, L.D., Multiple concussions: When should you get your head out of the game?, Medical College of Wisconsin Neuroscience Research Center Brain Awareness Symposium, Milwaukee, WI, 04/2013
- Nelson, L.D., Blurred lines: Assessment for mild traumatic brain injury (mTBI) in non-athletes, Grand Rounds, Department of Neurology, Medical College of Wisconsin, 06/2014
- Nelson, L. D., Predicting individual outcomes from mild traumatic brain injury (mTBI): Personality as a window into neural and clinical recovery, Grand Rounds, Department of Neurosurgery, Medical College of Wisconsin, 06/12/2015
- Nelson, L. D., Individual differences in risk for and recovery from mild traumatic brain injury (mTBI), Department of Psychology Colloquium, Marquette University, 04/14/2016
- Nelson, L. D., Improving outcome measurement for patients with traumatic brain injury, Medical College of Wisconsin's Center for Patient Care Outcomes Research Seminar Series, Milwaukee, WI, 01/27/2017

National

- Nelson, L. D., A multidimensional approach to studying predictors of recovery from sport-related concussion: What is the relevance of age in recovery?, National Athletic Training Association's Youth Sports Safety Summit, Washington, DC, 03/15/2016

International

- Nelson, L.D., Isolating brain responses to feedback: Improvements using time-frequency analysis, Guest lecture, Department of Psychology, University of Victoria, Canada, 05/2008

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Nelson LD, Patrick CJ, Bernat EM. Operationalizing proneness to externalizing psychopathology as a multivariate psychophysiological phenotype. *Psychophysiology*. 2011 Jan;48(1):64-72. PMID: PMC2965823
2. Bernat EM, Nelson LD, Steele VR, Gehring WJ, Patrick CJ. Externalizing psychopathology and gain-loss feedback in a simulated gambling task: dissociable components of brain response revealed by time-frequency analysis. *J Abnorm Psychol*. 2011 May;120(2):352-64. PMID: PMC3092030

3. Nelson LD, Patrick CJ, Collins P, Lang AR, Bernat EM. Alcohol impairs brain reactivity to explicit loss feedback. *Psychopharmacology (Berl)*. 2011 Nov;218(2):419-28. PMID: PMC6589838
4. Vaidyanathan U, Nelson LD, Patrick CJ. Clarifying domains of internalizing psychopathology using neurophysiology. *Psychol Med*. 2012 Mar;42(3):447-59. PMID: PMC6573029
5. Patrick CJ, Venables NC, Yancey JR, Hicks BM, Nelson LD, Kramer MD. A construct-network approach to bridging diagnostic and physiological domains: application to assessment of externalizing psychopathology. *J Abnorm Psychol*. 2013 Aug;122(3):902-16. PMID: PMC6573023
6. Nelson LD, Janecek JK, McCrea MA. Acute clinical recovery from sport-related concussion. *Neuropsychol Rev*. 2013 Dec;23(4):285-99.
7. Liu Y, Nelson LD, Bernat EM, Gehring WJ. Perceptual properties of feedback stimuli influence the feedback-related negativity in the flanker gambling task. *Psychophysiology*. 2014 Aug;51(8):782-8.
8. Lachlan, K.A. Spence, P.R. Nelson, L.D. Shelton, A.K. Age, gender, and information seeking patterns following an urban bridge collapse *Journal of Emergency Management*. 2010. 8, 47-54
9. Spence, P.R. Nelson, L.D. Lachlan, K.A. Psychological responses and coping strategies after an urban bridge collapse *Traumatology*. 16, 7-15
10. Lachlan, K.A. Spence, P.R. Nelson, L.D. Gender differences in negative psychological responses to crisis news: The case of the I-35W collapse *Communication Research Reports*. 27-38-48
11. Nelson, L.D. Spence, P.R. Lachlan, K.A. Learning from the media in the aftermath of a crisis: Findings from the Minneapolis bridge collapse *Electronic News*. 3(4), 176-192
12. Nelson LD, Strickland C, Krueger RF, Arbisi PA, Patrick CJ. Neurobehavioral Traits as Transdiagnostic Predictors of Clinical Problems. *Assessment*. 2016 Feb;23(1):75-85. PMID: PMC4881426
13. Bernat EM, Nelson LD, Baskin-Sommers AR. Time-frequency theta and delta measures index separable components of feedback processing in a gambling task. *Psychophysiology*. 2015 May;52(5):626-37. PMID: PMC4398588
14. Experiments in producing nonresponse bias (Groves, R.M. Couper, M.P. Presser, S. Tourangeau, R. Acosta, G.P. Nelson, L.) *Public Opinion Quarterly* 2006, 70, 720-736
15. LaRoche AA, Nelson LD, Connelly PK, Walter KD, McCrea MA. Sport-Related Concussion Reporting and State Legislative Effects. *Clin J Sport Med*. 2016 Jan;26(1):33-9. PMID: PMC4609217
16. Nelson LD, Guskiewicz KM, Marshall SW, Hammeke T, Barr W, Randolph C, McCrea MA. Multiple Self-Reported Concussions Are More Prevalent in Athletes With ADHD and Learning Disability. *Clin J Sport Med*. 2016 Mar;26(2):120-7. PMID: PMC6938223
17. Nelson LD, Pfaller AY, Rein LE, McCrea MA. Rates and Predictors of Invalid Baseline Test Performance in High School and Collegiate Athletes for 3 Computerized Neurocognitive Tests: ANAM, Axon Sports, and ImPACT. *Am J Sports Med*. 2015 Aug;43(8):2018-26. PMID: PMC4747101
18. Wang Y, Nelson LD, LaRoche AA, Pfaller AY, Nencka AS, Koch KM, McCrea MA. Cerebral Blood Flow Alterations in Acute Sport-Related Concussion. *J Neurotrauma*. 2016 Jul 01;33(13):1227-36. PMID: PMC4931342
19. Nelson LD. False-Positive Rates of Reliable Change Indices for Concussion Test Batteries: A Monte Carlo Simulation. *J Athl Train*. 2015 Dec;50(12):1319-22. PMID: PMC4741259
20. Nelson LD, LaRoche AA, Pfaller AY, Lerner EB, Hammeke TA, Randolph C, Barr WB, Guskiewicz K, McCrea MA. Prospective, Head-to-Head Study of Three Computerized Neurocognitive Assessment Tools (CNTs): Reliability and Validity for the Assessment of Sport-Related Concussion. *J Int Neuropsychol Soc*. 2016 Jan;22(1):24-37. PMID: PMC4882608
21. Lancaster MA, McCrea MA, Nelson LD. Psychometric properties and normative data for the Brief Symptom Inventory-18 (BSI-18) in high school and collegiate athletes. *Clin Neuropsychol*. 2016 Feb;30(2):338-50. PMID: PMC4878446
22. Nelson LD, Guskiewicz KM, Barr WB, Hammeke TA, Randolph C, Ahn KW, Wang Y, McCrea MA. Age Differences in Recovery After Sport-Related Concussion: A Comparison of High School and Collegiate Athletes. *J Athl Train*. 2016 Feb;51(2):142-52. PMID: PMC4852320
23. Furger RE, Nelson LD, Brooke Lerner E, McCrea MA. Frequency of Factors that Complicate the Identification of Mild Traumatic Brain Injury in Level I Trauma Center Patients. *Concussion*. 2016 Mar;1(2). PMID: PMC4847751
24. Nelson, L.D. Tarima, S. LaRoche, A.A. Hammeke, T.A. Barr, W.B. Guskiewicz, K. Randolph, C. McCrea, M.A. Preinjury somatization symptoms contribute to clinical recovery after sport-related concussion *Neurology*.
25. Lancaster MA, Olson DV, McCrea MA, Nelson LD, LaRoche AA, Muftuler LT. Acute white matter changes following sport-related concussion: A serial diffusion tensor and diffusion kurtosis tensor imaging

- study. *Hum Brain Mapp.* 2016 Nov;37(11):3821-3834. PMID: PMC6867350
26. Chin EY, Nelson LD, Barr WB, McCrory P, McCrea MA. Reliability and Validity of the Sport Concussion Assessment Tool-3 (SCAT3) in High School and Collegiate Athletes. *Am J Sports Med.* 2016 Sep;44(9):2276-85.
 27. Nelson LD, Tarima S, LaRoche AA, Hammeke TA, Barr WB, Guskiewicz K, Randolph C, McCrea MA. Preinjury somatization symptoms contribute to clinical recovery after sport-related concussion. *Neurology.* 2016 May 17;86(20):1856-63. PMID: PMC4873681
 28. Nelson LD, Loman MM, LaRoche AA, Furger RE, McCrea MA. Baseline Performance and Psychometric Properties of the Child Sport Concussion Assessment Tool 3 (Child-SCAT3) in 5- to 13-year-old Athletes. *Clin J Sport Med.* 2017 Jul;27(4):381-387. PMID: PMC5237625
 29. Pfaller AY, Nelson LD, Apps JN, Walter KD, McCrea MA. Frequency and Outcomes of a Symptom-Free Waiting Period After Sport-Related Concussion. *Am J Sports Med.* 2016 Nov;44(11):2941-2946. PMID: PMC6589833
 30. Venables NC, Hicks BM, Yancey JR, Kramer MD, Nelson LD, Strickland CM, Krueger RF, Iacono WG, Patrick CJ. Evidence of a prominent genetic basis for associations between psychoneurometric traits and common mental disorders. *Int J Psychophysiol.* 2017 May;115:4-12. PMID: PMC5364073
 31. Nelson LD, Furger RE, Gikas P, Lerner EB, Barr WB, Hammeke TA, Randolph C, Guskiewicz K, McCrea MA. Prospective, Head-to-Head Study of Three Computerized Neurocognitive Assessment Tools Part 2: Utility for Assessment of Mild Traumatic Brain Injury in Emergency Department Patients. *J Int Neuropsychol Soc.* 2017 Apr;23(4):293-303. PMID: PMC6637940
 32. McCrea MA, Nelson LD, Guskiewicz K. Diagnosis and Management of Acute Concussion. *Phys Med Rehabil Clin N Am.* 2017 May;28(2):271-286.
 33. Nelson LD, Ranson J, Ferguson AR, Giacino J, Okonkwo DO, Valadka A, Manley G, McCrea M. Validating Multidimensional Outcome Assessment Using the TBI Common Data Elements: An Analysis of the TRACK-TBI Pilot Sample. *J Neurotrauma.* 2017 Jun 08;34(22):3158-72. PMID: PMC5678361
 34. McCrea MA, Asken B, Nelson LD. Neuropsychological Screening of Sport-Related Concussion. *Neurol Clin.* 2017 Aug;35(3):487-500.
 35. Meier TB, Nelson LD, Huber DL, Bazarian JJ, Hayes RL, McCrea MA. Prospective Assessment of Acute Blood Markers of Brain Injury in Sport-Related Concussion. *J Neurotrauma.* 2017 Nov 15;34(22):3134-3142. PMID: PMC5678359
 36. Fehr SD, Nelson LD, Scharer KR, Traudt EA, Veenstra JM, Tarima SS, Liu XC, Walter KD. Risk Factors for Prolonged Symptoms of Mild Traumatic Brain Injury: A Pediatric Sports Concussion Clinic Cohort. *Clin J Sport Med.* 2019 Jan;29(1):11-17.
 37. Nelson LD, Furger RE, Ranson J, Tarima S, Hammeke TA, Randolph C, Barr WB, Guskiewicz K, Olsen CM, Lerner EB, McCrea MA. Acute Clinical Predictors of Symptom Recovery in Emergency Department Patients with Uncomplicated Mild Traumatic Brain Injury or Non-Traumatic Brain Injuries. *J Neurotrauma.* 2018 Jan 15;35(2):249-259. PMID: PMC5784791
 38. Lancaster MA, Meier TB, Olson DV, McCrea MA, Nelson LD, Muftuler LT. Chronic differences in white matter integrity following sport-related concussion as measured by diffusion MRI: 6-Month follow-up. *Hum Brain Mapp.* 2018 Nov;39(11):4276-4289. PMID: PMC6179912
 39. Nelson LD, Kramer MD, Patrick CJ, McCrea MA. Modeling the Structure of Acute Sport-Related Concussion Symptoms: A Bifactor Approach. *J Int Neuropsychol Soc.* 2018 Sep;24(8):793-804. PMID: PMC6589835
 40. McCuddy WT, España LY, Nelson LD, Birn RM, Mayer AR, Meier TB. Association of acute depressive symptoms and functional connectivity of emotional processing regions following sport-related concussion. *Neuroimage Clin.* 2018;19:434-442. PMID: PMC6029562
 41. Wang Y, Nencka AS, Meier TB, Guskiewicz K, Mihalik JP, Alison Brooks M, Saykin AJ, Koch KM, Wu YC, Nelson LD, McAllister TW, Broglio SP, McCrea MA. Cerebral blood flow in acute concussion: preliminary ASL findings from the NCAA-DoD CARE consortium. *Brain Imaging Behav.* 2019 Oct;13(5):1375-1385. PMID: PMC7232645
 42. 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. Prevalence of Potentially Clinically Significant Magnetic Resonance Imaging Findings in Athletes with and without Sport-Related Concussion. *J Neurotrauma.* 2019 Jun;36(11):1776-1785. PMID: PMC6551984
 43. Geier TJ, Hunt JC, Nelson LD, Brasel KJ, deRoon-Cassini TA. Detecting PTSD in a traumatically injured

- population: The diagnostic utility of the PTSD Checklist for DSM-5. *Depress Anxiety*. 2019 Feb;36(2):170-178. PMID: PMC6373876
44. Zahniser E, Nelson LD, Dikmen SS, Machamer JE, Stein MB, Yuh E, Manley GT, Temkin NR, TRACK-TBI Investigators. The Temporal Relationship of Mental Health Problems and Functional Limitations following mTBI: A TRACK-TBI and TED Study. *J Neurotrauma*. 2019 Jun;36(11):1786-1793. PMID: PMC6551992
 45. Nawarawong NN, Slaker M, Muelbl M, Shah AS, Chiariello R, Nelson LD, Budde MD, Stemper BD, Olsen CM. Repeated blast model of mild traumatic brain injury alters oxycodone self-administration and drug seeking. *Eur J Neurosci*. 2019 Aug;50(3):2101-2112. PMID: PMC6814147
 46. Kaushal M, España LY, Nencka AS, Wang Y, Nelson LD, McCrea MA, Meier TB. Resting-state functional connectivity after concussion is associated with clinical recovery. *Hum Brain Mapp*. 2019 Mar;40(4):1211-1220. PMID: PMC6365215
 47. Dikmen S, Machamer J, Manley GT, Yuh EL, Nelson LD, Temkin NR, TRACK-TBI Investigators. Functional Status Examination versus Glasgow Outcome Scale Extended as Outcome Measures in Traumatic Brain Injuries: How Do They Compare? *J Neurotrauma*. 2019 Aug 15;36(16):2423-2429. PMID: PMC6661915
 48. Stein MB, Jain S, Giacino JT, Levin H, Dikmen S, Nelson LD, Vassar MJ, Okonkwo DO, Diaz-Arrastia R, Robertson CS, Mukherjee P, McCrea M, Mac Donald CL, Yue JK, Yuh E, Sun X, Campbell-Sills L, Temkin N, Manley GT, TRACK-TBI Investigators, Adeoye O, Badjatia N, Boase K, Bodien Y, Bullock MR, Chesnut R, Corrigan JD, Crawford K, Diaz-Arrastia R, Dikmen S, Duhaime AC, Ellenbogen R, Feeser VR, Ferguson A, Foreman B, Gardner R, Gaudette E, Giacino JT, Gonzalez L, Gopinath S, Gullapalli R, Hemphill JC, Hotz G, Jain S, Korley F, Kramer J, Kreitzer N, Levin H, Lindsell C, Machamer J, Madden C, Martin A, McAllister T, McCrea M, Merchant R, Mukherjee P, Nelson LD, Noel F, Okonkwo DO, Palacios E, Perl D, Puccio A, Rabinowitz M, Robertson CS, Rosand J, Sander A, Sattris G, Schnyer D, Seabury S, Sherer M, Stein MB, Taylor S, Toga A, Temkin N, Valadka A, Vassar MJ, Vespa P, Wang K, Yue JK, Yuh E, Zafonte R. Risk of Posttraumatic Stress Disorder and Major Depression in Civilian Patients After Mild Traumatic Brain Injury: A TRACK-TBI Study. *JAMA Psychiatry*. 2019 Mar 01;76(3):249-258. PMID: PMC6439818
 49. Ranson J, Magnus BE, Temkin N, Dikmen S, Giacino JT, Okonkwo DO, Valadka AB, Manley GT, Nelson LD, TRACK-TBI Investigators. Diagnosing the GOSE: Structural and Psychometric Properties Using Item Response Theory, a TRACK-TBI Pilot Study. *J Neurotrauma*. 2019 Sep 01;36(17):2493-2505. PMID: PMC6709724
 50. Nelson LD, Temkin NR, Dikmen S, Barber J, Giacino JT, Yuh E, Levin HS, McCrea MA, Stein MB, Mukherjee P, Okonkwo DO, Robertson CS, Diaz-Arrastia R, Manley GT, and the TRACK-TBI Investigators, Adeoye O, Badjatia N, Boase K, Bodien Y, Bullock MR, Chesnut R, Corrigan JD, Crawford K, Duhaime AC, Ellenbogen R, Feeser VR, Ferguson A, Foreman B, Gardner R, Gaudette E, Gonzalez L, Gopinath S, Gullapalli R, Hemphill JC, Hotz G, Jain S, Korley F, Kramer J, Kreitzer N, Lindsell C, Machamer J, Madden C, Martin A, McAllister T, Merchant R, Noel F, Palacios E, Perl D, Puccio A, Rabinowitz M, Rosand J, Sander A, Sattris G, Schnyer D, Seabury S, Sherer M, Taylor S, Toga A, Valadka A, Vassar MJ, Vespa P, Wang K, Yue JK, Zafonte R. Recovery After Mild Traumatic Brain Injury in Patients Presenting to US Level I Trauma Centers: A Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) Study. *JAMA Neurol*. 2019 Sep 01;76(9):1049-1059. PMID: PMC6547159
 51. Nitta ME, Savitz J, Nelson LD, Teague TK, Hoelzle JB, McCrea MA, Meier TB. Acute elevation of serum inflammatory markers predicts symptom recovery after concussion. *Neurology*. 2019 Jul 30;93(5):e497-e507. PMID: PMC6693429
 52. Brett BL, Huber DL, Wild A, Nelson LD, McCrea MA. Age of First Exposure to American Football and Behavioral, Cognitive, Psychological, and Physical Outcomes in High School and Collegiate Football Players. *Sports Health*. 2019;11(4):332-342. PMID: PMC6600580
 53. Eckner JT, Wang J, Nelson LD, Bancroft R, Pohorence M, He X, Broglio SP, Giza CC, Guskiewicz KM, Kutcher JS, McCrea M. Effect of Routine Sport Participation on Short-Term Clinical Neurological Outcomes: A Comparison of Non-Contact, Contact, and Collision Sport Athletes. *Sports Med*. 2020 May;50(5):1027-1038.
 54. King JA, McCrea MA, Nelson LD. Frequency of Primary Neck Pain in Mild Traumatic Brain Injury/Concussion Patients. *Arch Phys Med Rehabil*. 2020 Jan;101(1):89-94. PMID: PMC6930963
 55. Yue JK, Yuh EL, Korley FK, Winkler EA, Sun X, Puffer RC, Deng H, Choy W, Chandra A, Taylor SR, Ferguson AR, Huie JR, Rabinowitz M, Puccio AM, Mukherjee P, Vassar MJ, Wang KKW, Diaz-

- Arrastia R, Okonkwo DO, Jain S, Manley GT, TRACK-TBI Investigators. Association between plasma GFAP concentrations and MRI abnormalities in patients with CT-negative traumatic brain injury in the TRACK-TBI cohort: a prospective multicentre study. *Lancet Neurol*. 2019 Oct;18(10):953-961.
56. Huber DL, Thomas DG, Danduran M, Meier TB, McCrea MA, Nelson LD. Quantifying Activity Levels After Sport-Related Concussion Using Actigraph and Mobile (mHealth) Technologies. *J Athl Train*. 2019 Sep;54(9):929-938. PMID: PMC6795103
57. Seabury SA, Gaudette É, Goldman DP, Markowitz AJ, Brooks J, McCrea MA, Okonkwo DO, Manley GT, TRACK-TBI Investigators, Adeoye O, Badjatia N, Boase K, Bodien Y, Bullock MR, Chesnut R, Corrigan JD, Crawford K, Diaz-Arrastia R, Dikmen S, Duhaime AC, Ellenbogen R, Feeser VR, Ferguson A, Foreman B, Gardner R, Giacino J, Gonzalez L, Gopinath S, Gullapalli R, Hemphill JC, Hotz G, Jain S, Korley F, Kramer J, Kreitzer N, Levin H, Lindsell C, Machamer J, Madden C, Martin A, McAllister T, Merchant R, Mukherjee P, Nelson L, Noel F, Palacios E, Perl D, Puccio A, Rabinowitz M, Robertson C, Rosand J, Sander A, Satris G, Schnyer D, Sherer M, Stein M, Taylor S, Temkin N, Toga A, Valadka A, Vassar M, Vespa P, Wang K, Yue J, Yuh E, Zafonte R. Assessment of Follow-up Care After Emergency Department Presentation for Mild Traumatic Brain Injury and Concussion: Results From the TRACK-TBI Study. *JAMA Netw Open*. 2018 May 18;1(1):e180210. PMID: PMC6324305
58. Bernat EM, Nelson LD, Holroyd CB, Gehring WJ, Patrick CJ. Separating cognitive processes with principal components analysis of EEG time-frequency distributions *Proceedings of SPIE - The International Society for Optical Engineering*. 2008;7074.
59. Groves RM, Couper MP, Presser S, Singer E, Tourangeau R, Acosta GP, Nelson L. Experiments in producing nonresponse bias *Public Opinion Quarterly*. 2006;70(5):720-736.
60. McCrea M, Broglio SP, McAllister TW, Gill J, Giza CC, Huber DL, Harezlak J, Cameron KL, Houston MN, McGinty G, Jackson JC, Guskiewicz K, Mihalik J, Brooks MA, Duma S, Rowson S, Nelson LD, Pasquina P, Meier TB, CARE Consortium Investigators, Foroud T, Katz BP, Saykin AJ, Campbell DE, Svoboda SJ, Goldman J, DiFiori J. Association of Blood Biomarkers With Acute Sport-Related Concussion in Collegiate Athletes: Findings From the NCAA and Department of Defense CARE Consortium. *JAMA Netw Open*. 2020 Jan 03;3(1):e1919771. PMID: PMC6991302
61. Nelson LD, Levin HS, McCrea MA. The Term Mild in Mild Traumatic Surgery and the Representation of Outcomes-Reply. *JAMA Neurol*. 2019 Dec 30.
62. Nelson LD, Brett BL, Magnus BE, Balsis S, McCrea MA, Manley GT, Temkin N, Dikmen S. Functional Status Examination Yields Higher Measurement Precision of Functional Limitations after Traumatic Injury than the Glasgow Outcome Scale-Extended: A Preliminary Study. *J Neurotrauma*. 2020 Feb 15;37(4):675-679. PMID: PMC7045351
63. Meier TB, Nitta ME, Teague TK, Nelson LD, McCrea MA, Savitz J. Prospective study of the effects of sport-related concussion on serum kynurenine pathway metabolites. *Brain Behav Immun*. 2020 Jul;87:715-724. PMID: PMC7316609
64. Nelson LD, Levin HS, McCrea MA. The Term Traumatic in Mild Traumatic Brain Injury and the Misrepresentation of Outcomes-Reply. *JAMA Neurol*. 2020 Feb 01;77(2):264-265.
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