

- e-1. Oliver JM, Jones MT, Kirk KM, et al. Serum Neurofilament Light in American Football Athletes over the Course of a Season. *Journal of Neurotrauma*. 2016;33(19):1784-1789. doi:10.1089/neu.2015.4295
- e-2. Shahim P, Tegner Y, Marklund N, Blennow K, Zetterberg H. Neurofilament light and tau as blood biomarkers for sports-related concussion. *Neurology*. 2018;90(20):e1780-e1788. doi:10.1212/WNL.0000000000005518
- e-3. Van Meter T, Mirshahi N, Frank Peacock W, et al. Biomarker signatures indicate Aldolase C, neurogranin, and synuclein beta are correlated with concussion history in mild TBI. *Neurology*. 2018;91(23 Supplement 1):S13.2-S13. doi:10.1212/01.wnl.0000550674.85597.e3
- e-4. Shetty T, Cogsil T, Dalal A, et al. High-Sensitivity C-Reactive Protein: Retrospective Study of Potential Blood Biomarker of Inflammation in Acute Mild Traumatic Brain Injury. *Journal of Head Trauma Rehabilitation*. 2019;34(3):E28-E36. doi:10.1097/HTR.0000000000000450
- e-5. Oris C, Pereira B, Durif J, et al. The Biomarker S100B and Mild Traumatic Brain Injury: A Meta-analysis. *Pediatrics*. 2018;141(6):e20180037. doi:10.1542/peds.2018-0037
- e-6. Di Pietro V, Ragusa M, Davies D, et al. MicroRNAs as Novel Biomarkers for the Diagnosis and Prognosis of Mild and Severe Traumatic Brain Injury. *Journal of Neurotrauma*. 2017;34(11):1948-1956. doi:10.1089/neu.2016.4857
- e-7. Yakoub KM, O'Halloran P, Davies DJ, et al. Study of Concussion in Rugby Union through MicroRNAs (SCRUM): a study protocol of a prospective, observational cohort study. *BMJ Open*. 2018;8(11):e024245. doi:10.1136/bmjopen-2018-024245
- e-8. King D, Hume PA, Brughelli M, Gissane C. Instrumented Mouthguard Acceleration Analyses for Head Impacts in Amateur Rugby Union Players Over a Season of Matches. *Am J Sports Med*. 2015;43(3):614-624. doi:10.1177/0363546514560876
- e-9. O'Connor KL, Rowson S, Duma SM, Broglio SP. Head-Impact–Measurement Devices: A Systematic Review. *Journal of Athletic Training*. 2017;52(3):206-227. doi:10.4085/1062-6050.52.2.05
- e-10. Bayley MT, Tate R, Douglas JM, et al. INCOG Guidelines for Cognitive Rehabilitation Following Traumatic Brain Injury: Methods and Overview. *Journal of Head Trauma Rehabilitation*. 2014;29(4):290-306. doi:10.1097/HTR.0000000000000070
- e-11. Collins MW, Kontos AP, Okonkwo DO, et al. Statements of Agreement From the Targeted Evaluation and Active Management (TEAM) Approaches to Treating Concussion Meeting Held in Pittsburgh, October 15-16, 2015. *Neurosurgery*. 2016;79(6):912-929. doi:10.1227/NEU.0000000000001447
- e-12. Gibson S, Nigrovic LE, O'Brien M, Meehan WP. The effect of recommending cognitive rest on recovery from sport-related concussion. *Brain Injury*. 2013;27(7-8):839-842. doi:10.3109/02699052.2013.775494
- e-13. Thomas DG, Apps JN, Hoffmann RG, McCrea M, Hammeke T. Benefits of Strict Rest After Acute Concussion: A Randomized Controlled Trial. *Pediatrics*. 2015;135(2):213-223. doi:10.1542/peds.2014-0966
- e-14. Buckley TA, Munkasy BA, Clouse BP. Acute Cognitive and Physical Rest May Not Improve Concussion Recovery Time. *Journal of Head Trauma Rehabilitation*. 2016;31(4):233-241. doi:10.1097/HTR.0000000000000165
- e-15. Leddy JJ, Haider MN, Ellis MJ, et al. Early Subthreshold Aerobic Exercise for Sport-Related Concussion: A Randomized Clinical Trial. *JAMA Pediatr*. 2019;173(4):319. doi:10.1001/jamapediatrics.2018.4397
- e-16. Schneider KJ, Leddy JJ, Guskiewicz KM, et al. Rest and treatment/rehabilitation following sport-related concussion: a systematic review. *Br J Sports Med*. 2017;51(12):930-934. doi:10.1136/bjsports-2016-097475

- e-17. Majerske CW, Mihalik JP, Ren D, et al. Concussion in Sports: Postconcussive Activity Levels, Symptoms, and Neurocognitive Performance. *Journal of Athletic Training*. 2008;43(3):265-274. doi:10.4085/1062-6050-43.3.265
- e-18. von Bastian CC, Belleville S, Udale RC, Reinhartz A, Essounni M, Strobach T. Mechanisms underlying training-induced cognitive change. *Nat Rev Psychol*. 2022;1(1):30-41. doi:10.1038/s44159-021-00001-3
- e-19. Wilson BA. Neuropsychological Rehabilitation. *Annu Rev Clin Psychol*. 2008;4(1):141-162. doi:10.1146/annurev.clinpsy.4.022007.141212
- e-20. Keshavan MS, Vinogradov S, Rumsey J, Sherrill J, Wagner A. Cognitive Training in Mental Disorders: Update and Future Directions. *AJP*. 2014;171(5):510-522. doi:10.1176/appi.ajp.2013.13081075
- e-21. Young WB. Transfer of Strength and Power Training to Sports Performance. *International Journal of Sports Physiology and Performance*. 2006;1(2):74-83. doi:10.1123/ijsp.1.2.74
- e-22. Fleck SJ, Falkel JE. Value of Resistance Training for the Reduction of Sports Injuries: *Sports Medicine*. 1986;3(1):61-68. doi:10.2165/00007256-198603010-00006
- e-23. Walton CC, Keegan RJ, Martin M, Hallock H. The Potential Role for Cognitive Training in Sport: More Research Needed. *Front Psychol*. 2018;9:1121. doi:10.3389/fpsyg.2018.01121
- e-24. Lampit A, Hallock H, Valenzuela M. Computerized Cognitive Training in Cognitively Healthy Older Adults: A Systematic Review and Meta-Analysis of Effect Modifiers. Gandy S, ed. *PLoS Med*. 2014;11(11):e1001756. doi:10.1371/journal.pmed.1001756
- e-25. Soveri A, Antfolk J, Karlsson L, Salo B, Laine M. Working memory training revisited: A multi-level meta-analysis of n-back training studies. *Psychon Bull Rev*. 2017;24(4):1077-1096. doi:10.3758/s13423-016-1217-0
- e-26. Hallock H, Collins D, Lampit A, Deol K, Fleming J, Valenzuela M. Cognitive Training for Post-Acute Traumatic Brain Injury: A Systematic Review and Meta-Analysis. *Front Hum Neurosci*. 2016;10. doi:10.3389/fnhum.2016.00537
- e-27. Fernández López R, Antolí A. Computer-based cognitive interventions in acquired brain injury: A systematic review and meta-analysis of randomized controlled trials. Muñoz-Moreno JA, ed. *PLoS ONE*. 2020;15(7):e0235510. doi:10.1371/journal.pone.0235510
- e-28. Hill NTM, Mowszowski L, Naismith SL, Chadwick VL, Valenzuela M, Lampit A. Computerized Cognitive Training in Older Adults With Mild Cognitive Impairment or Dementia: A Systematic Review and Meta-Analysis. *AJP*. 2017;174(4):329-340. doi:10.1176/appi.ajp.2016.16030360
- e-29. Lampit A, Heine J, Finke C, et al. Computerized Cognitive Training in Multiple Sclerosis: A Systematic Review and Meta-analysis. *Neurorehabil Neural Repair*. 2019;33(9):695-706. doi:10.1177/1545968319860490
- e-30. Simons DJ, Boot WR, Charness N, et al. Do “Brain-Training” Programs Work? *Psychol Sci Public Interest*. 2016;17(3):103-186. doi:10.1177/1529100616661983
- e-31. Basak C, Qin S, O’Connell MA. Differential effects of cognitive training modules in healthy aging and mild cognitive impairment: A comprehensive meta-analysis of randomized controlled trials. *Psychology and Aging*. 2020;35(2):220-249. doi:10.1037/pag0000442
- e-32. Ball K, Berch DB, Helmers KF, et al. Effects of Cognitive Training Interventions With Older Adults: A Randomized Controlled Trial. *JAMA*. 2002;288(18):2271. doi:10.1001/jama.288.18.2271
- e-33. Nguyen L, Murphy K, Andrews G. Cognitive and neural plasticity in old age: A systematic review of evidence from executive functions cognitive training. *Ageing Research Reviews*. 2019;53:100912. doi:10.1016/j.arr.2019.100912

- e-34. Romeas T, Guldner A, Faubert J. 3D-Multiple Object Tracking training task improves passing decision-making accuracy in soccer players. *Psychology of Sport and Exercise*. 2016;22:1-9. doi:10.1016/j.psychsport.2015.06.002
- e-35. Hirao T, Masaki H. Modulation of Spatial Attentional Allocation by Computer-Based Cognitive Training during Lacrosse Shooting Performance. *Front Psychol*. 2018;8:2271. doi:10.3389/fpsyg.2017.02271
- e-36. Vlisides PE, Keage HAD, Lampit A. Can Cognitive Training Improve Perioperative Brain Health?: *Anesthesia & Analgesia*. 2020;130(3):583-585. doi:10.1213/ANE.0000000000004543
- e-37. Stern Y, Arenaza-Urquijo EM, Bartrés-Faz D, et al. Whitepaper: Defining and investigating cognitive reserve, brain reserve, and brain maintenance. *Alzheimer's & Dementia*. 2020;16(9):1305-1311. doi:10.1016/j.jalz.2018.07.219
- e-38. Sumowski JF, Chiaravalloti N, Krch D, Paxton J, DeLuca J. Education Attenuates the Negative Impact of Traumatic Brain Injury on Cognitive Status. *Archives of Physical Medicine and Rehabilitation*. 2013;94(12):2562-2564. doi:10.1016/j.apmr.2013.07.023
- e-39. Schneider EB, Sur S, Raymont V, et al. Functional recovery after moderate/severe traumatic brain injury: A role for cognitive reserve? *Neurology*. 2014;82(18):1636-1642. doi:10.1212/WNL.0000000000000379
- e-40. Ledbetter C, Moore AL, Mitchell T. Cognitive Effects of ThinkRx Cognitive Rehabilitation Training for Eleven Soldiers with Brain Injury: A Retrospective Chart Review. *Front Psychol*. 2017;8:825. doi:10.3389/fpsyg.2017.00825
- e-41. Lebowitz MS, Dams-O'Connor K, Cantor JB. Feasibility of computerized brain plasticity-based cognitive training after traumatic brain injury. *JRRD*. 2012;49(10):1547. doi:10.1682/JRRD.2011.07.0133