

Professor Harvey Levin
PhD, ABPP-CN (Neuropsychology)



Research specialisation: Traumatic brain injury (TBI), including sport-related and non-sports concussion (mild traumatic brain injury).

Experience: Harvey has over 40 years of academic and research experience in the area of neuropsychology; most of his work has been on traumatic brain injury (TBI) including mild TBI and sports related concussion. Prior to joining the Faculty of Baylor College of Medicine in Houston in 1995, he worked at the University of Maryland and the University of Texas Medical Branch where he conducted studies of patients representing a wide spectrum of age and severity. His research has included different modalities of brain imaging and more recently biomarkers analysed from serum. Harvey was Director of a Center of Excellence for TBI Research in the Veterans Affairs Medical Center in Houston. He has also directed numerous NIH supported research projects on TBI, including a project on sports concussion in adolescents.

Research overview: Harvey has training in neuropsychology which encompasses laboratory research and clinical service. He also has training in developmental neuropsychology. His research has included longitudinal investigation of recovery from TBI in children and more recently sports related concussion. He has organized the outcome assessments for large multicentre, observational projects and clinical trials of interventions for TBI. His research has been funded by the National Institutes of Health, the Department of Veterans Affairs, and the Department of Defense. Currently he is collaborating with investigators at Baylor College of Medicine in organizing a research program on concussion in rugby players.

Postgraduate supervision: Harvey has graduated 12 Masters and PhD students as the primary or secondary supervisor. He has also mentored 10 postdoctoral fellows.

Research publications: Harvey has published more than 300 peer-reviewed abstracts, papers, book chapters during his career.

Example publications:

Levin HS, Lippold SC, Goldman A, Handel S, High Jr WM, Eisenberg HM, Zelitt D. Neurobehavioral functioning and magnetic resonance imaging findings in young boxers. *J. Neurosurg.* 67:657-667, 1987.

Wu T, Merkley TL, Wilde EA, Barnes A, Li X, Chu ZD, McCauley SR, Hunter JV, Levin HS. A preliminary report of cerebral white matter microstructural changes associated with adolescent sports concussion acutely and subacutely using diffusion tensor imaging. *Brain Imaging Behav.* 2017 Aug 15.

Newsome MR, Li X, Lin X, Wilde EA, Ott S, Biekman B, Hunter JV, Dash PK, Taylor BA, Levin HS. Functional Connectivity Is Altered in Concussed Adolescent Athletes Despite Medical Clearance to Return to Play: A Preliminary Report. *Front Neurol.* 2016 Jul 25;7:116. PubMed PMID: 27504104

Broglio SP, Kontos AP, Levin H, Schneider K, Wilde EA, Cantu RC, Feddermann-Demont N, Fuller GW, Gagnon I, Gioia GA, Giza C, Griesbach GS, Leddy JJ, Lipton ML, Mayer AR, McAllister TW, McCrea M, McKenzie LB, Putukian M, et al. National Institute of Neurological Disorders and Stroke and Department of Defense Sport-Related Concussion CommonData Elements Version 1.0 Recommendations. *J Neurotrauma.* 2018 10.1089/neu.2018.5643.

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