

ESSENTIAL ARTICLES OF PM&R

BRAIN INJURY

Authors:

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General (including epidemiology and pathology):

Neurobiological consequences of traumatic brain injury.

McAllister TW. Dialogues in clinical neuroscience 2011;13(3):287.

Neural bases of recovery after brain injury.

Nudo RJ. Journal of communication disorders 2011;44(5):515-520.

Principles of experience-dependent neural plasticity: implications for rehabilitation after brain damage.

Kleim JA, Jones TA. Journal of speech, language, and hearing research 2008;51(1):S225-S239.

The uniform data system for medical rehabilitation report of patients with traumatic brain injury discharged from rehabilitation programs in 2000–2007.

Granger CV, et al. American journal of physical medicine & rehabilitation 2010;89(4):265.

Traumatic brain injury: a disease process, not an event.

Masel BE, DeWitt DS. Journal of neurotrauma 2010;27(8):1529-1540.

Changing patterns in the epidemiology of traumatic brain injury.

Roozenbeek B, Maas A IR, Menon DK. Nature Reviews Neurology 2013;9(4):231-236.

Clinical trials in traumatic brain injury: past experience and current developments.

Maas A IR, Roozenbeek B, Manley GT. Neurotherapeutics 2010;7(1):115-126.

Early management of severe traumatic brain injury.

Rosenfeld JV, et al. The Lancet 2012;380(9847):1088-1098.

Trends in traumatic brain injury in the US and the public health response: 1995–2009.

Coronado VG, et al. Journal of safety research 2012;43(4):299-307.

Aging with traumatic brain injury: cross-sectional follow-up of people receiving inpatient rehabilitation over more than 3 decades.

Sendroy-Terrill M, Whiteneck GG, Brooks CA. Archives of physical medicine and rehabilitation 2010;91(3):489-497.

Does an early onset and continuous chain of rehabilitation improve the long-term functional outcome of patients with severe traumatic brain injury?

Andelic N, et al. Journal of neurotrauma 2012;29(1):66-74.

Biomarkers of mild traumatic brain injury in cerebrospinal fluid and blood.

Zetterberg H, Smith DH, Blennow K. Nature Reviews Neurology 2013;9(4):201-210.

Military:

Blast-related traumatic brain injury.

Rosenfeld JV, McFarlane AC, Bragge P, Armonda RA, Grimes JB, Ling GS. The Lancet Neurology 2013;12(9):882-893.

A review of paroxysmal sympathetic hyperactivity after acquired brain injury.

Perkes I, et al. Annals of neurology 2010;68(2):126-135.

Rehabilitation of traumatic brain injury in active duty military personnel and veterans: Defense and Veterans Brain Injury Center randomized controlled trial of two rehabilitation approaches.

Vanderploeg RD, et al. Archives of physical medicine and rehabilitation 2008;89(12): 2227-2238.

Detection of blast-related traumatic brain injury in US military personnel.

Mac Donald CL, Johnson AM, Cooper D, Nelson EC, Werner NJ, Shimony JS, ... & Brody DL. New England journal of medicine 2011;364(22):2091-2100.

Mild traumatic brain injury in U.S. Soldiers returning from Iraq.

Hoge CW, McGurk D, Thomas JL, Cox AL, Engel CC, Castro CA. N Engl J Med 2008;358(5):453-63.

Cognitive:

Evidence-based cognitive rehabilitation: updated review of the literature from 2003 through 2008.

Cicerone KD, et al. Archives of physical medicine and rehabilitation 2011;92(4): 519-530.

Acute Care Management:

Guidelines for the management of traumatic brain injury, 3rd Edition.

Bratton S, Bullock MR, Carney N, Chesnut R, Ghajar J, Hammond F, Harris O, Hartl R, Maas A, Manley G, Marion D, Nemecek A, Newell D, Rosenthal G, Schouten J,

Servadei F, Shutter L, Stocchetti N, Timmons S, Ullman J, Videtta W, Wilberger J, Wright D. Journal of Neurotrauma 2007;24(Suppl 1):S1-S106.

Disordered Consciousness:

Disorders of consciousness and disordered care. Families, caregivers, and narratives of necessity.

Fins JJ. Archives PMR 2013;94:1934-9.

Diagnostic and prognostic guidelines for the vegetative and minimally conscious States.

Neuropsychol Rehabil 2005;15:166-174.

Longitudinal outcome of patients with disordered consciousness in the NIDRR TBI Model Systems Programs.

J Neurotrauma January 1, 2012;29(1):59-65.

Placebo-controlled trial of amantadine for severe traumatic brain injury.

Giacino JT, Whyte J, Bagiella E, Kalmar K, Khademi A, Childs N, Eifert B, Long D, Katz D, Cho S, Luther M, Yablon S, Hammond F, Nordenbo A, Novak P. New England Journal of Medicine 2012;366(9):819-826.

Zolpidem and restoration of consciousness.

Whyte J, et al. American Journal of Physical Medicine & Rehabilitation 2014;93(2):101-113.

Headache:

Natural history of headache after traumatic brain injury.

Hoffman JM, et al. Journal of neurotrauma 2011;28(9):1719-1725.

Fatigue:

Fatigue and sleep disturbance following traumatic brain injury—their nature, causes, and potential treatments.

Ponsford JL, et al. The Journal of head trauma rehabilitation 2012;27(3):224-233.

Seizures:

A randomized, double-blind study of phenytoin for the prevention of post-traumatic seizures.

Temkin NR, Dikmen SS, Wilensky AJ, Keihm J, Chabal S, Winn R. N Engl J Med 1990;323:497-502. August 23, 1990 DOI: 10.1056/NEJM199008233230801.

Readmissions:**Readmission to acute care hospital during inpatient rehabilitation for traumatic brain injury.**

Hammond FM, Horn SD, Smout RJ, Beaulieu CL, Ryser DK, Sommerfeld, T. Arch Phys Med Rehabil 2015;96(8Suppl3):S293-303.

Rehospitalization during the first 9-months following inpatient rehabilitation for traumatic brain injury.

Hammond FM, Horn SD, Smout RJ, Seel RT, Beaulieu CL, Corrigan JD, Cullen N, Sommerfeld T, Brandstater ME. Arch Phys Med Rehabil 2015;96(8Suppl3):S330-339.

Agitation, Irritability & Aggression:**Treatment of agitation following traumatic brain injury: A review of the literature.**

Fleminger S, Greenwood RJ, Oliver DL. Cochrane Database Syst Rev Oct 2006;18(4):CD003299.

Amantadine irritability multisite study group. Amantadine effect on perceptions of irritability after traumatic brain injury: Results of the amantadine irritability multisite study (AIMS).

Hammond FM, Sherer M, Malec JF, Zafonte RD, Whitney M, Bell K, Dikmen S, Bogner J, Mysiw J, Pershad R. J Neurotrauma March 2015;
<http://www.ncbi.nlm.nih.gov/pubmed/25774566>

Predictors of agitated behavior during inpatient rehabilitation for traumatic brain injury.

Bogner J, Barrett RS, Hammond FM, Horn SD, Corrigan JD, Rosenthal J, Beaulieu CL, Waszkiewicz M, Shea T, Reddin CJ, Cullen N, Giuffrida CG, Young J, Garmoe W. Archives of Physical Medicine and Rehabilitation 2015;96(8):S274-S281.

Medications use for TBI patients during acute inpatient rehabilitation.

Hammond FM, Barrett RS, Cullen N, Shea T, McAlister TW, Kaelin D, Corrigan JD, Ryser DK, Horn SD. Arch Phys Med Rehabil 2015;96(8Suppl3):S2256-273.

Depression:**Rates of major depressive disorder and clinical outcomes following traumatic brain injury.**

Bombardier CH, Fann JR, Temkin NR, Esselman PC, Barber J, Dikmen SS. JAMA 2010;303(19):1938-1945.

Venous Thromboembolism:

Effectiveness and safety of prophylactic anticoagulation for prevention of symptomatic venous thromboembolism during rehabilitation in patients with traumatic brain injury: A Traumatic Brain Injury Model Systems study.

TBI Model System Investigators (Carlisle M, Nicewander D, Yablon S, Brown A, Brunner R, Burke D, Chae H, Englander J, Flanagan S, Hammond F, Khademi A, Lombard L, Meythaler J, Mysiw J, Zafonte R, Diaz-Arrastia R). J Trauma 2010;68:916-923.

Sports:

Traumatic brain injury: Revisiting the AAN guidelines on sport-related concussion.

McCrory P. Nature Reviews Neurology 2013;9(7):361-362.

Executive summary of concussion guidelines step 1: systematic review of prevalent indicators.

Carney N, et al. Neurosurgery 2014;75:S1-S2.; Carney N, et al. Concussion guidelines step 1: systematic review of prevalent indicators. Neurosurgery 2014;75: S3-S15.

Current recommendations for the diagnosis and treatment of concussion in sport: a comparison of three new guidelines.

West TA, Marion DW. Journal of Neurotrauma 2014;31(2):159-168.

The clinical spectrum of sport-related traumatic brain injury.

Jordan BD. Nature Reviews Neurology 2013;9(4):222-230.

Imaging:

A review of magnetic resonance imaging and diffusion tensor imaging findings in mild traumatic brain injury.

Shenton ME, et al. Brain imaging and behavior 2012;6(2):137-192.

Neuropathology of mild traumatic brain injury: Relationship to neuroimaging findings.

Bigler ED, Maxwell WL. Brain Imaging and Behavior 2012;6(2):108-136.