

## References

- Abdelmalik, P.A., Draghic, N. and Ling, G.S.F. (2019) 'Management of moderate and severe traumatic brain injury', *Transfusion*, 59(S2), pp. 1529–1538. Available at: <https://doi.org/10.1111/trf.15171>.
- Alam, A. *et al.* (2020) 'Cellular infiltration in traumatic brain injury', *Journal of Neuroinflammation*. BioMed Central Ltd. Available at: <https://doi.org/10.1186/s12974-020-02005-x>.
- Baudo, G. *et al.* (2024) 'Sex-dependent improvement in traumatic brain injury outcomes after liposomal delivery of dexamethasone in mice', *Bioengineering & Translational Medicine*, 9(4). Available at: <https://doi.org/10.1002/btm2.10647>.
- Chequer de Souza, J. *et al.* (2024) 'Epidemiology and outcomes of brain trauma in rural and urban populations: a systematic review and meta-analysis', *Brain Injury* [Preprint]. Taylor and Francis Ltd. Available at: <https://doi.org/10.1080/02699052.2024.2361641>.
- Freire, M.A.M. *et al.* (2023) 'Cellular and Molecular Pathophysiology of Traumatic Brain Injury: What Have We Learned So Far?', *Biology*. Multidisciplinary Digital Publishing Institute (MDPI). Available at: <https://doi.org/10.3390/biology12081139>.
- Gao, W. *et al.* (2020) 'Neurofilament light chain level in traumatic brain injury: A system review and meta-analysis', *Medicine (United States)*. Lippincott Williams and Wilkins. Available at: <https://doi.org/10.1097/MD.00000000000022363>.
- Hiskens, M.I. *et al.* (2023) 'Epidemiology and management of traumatic brain injury in a regional Queensland Emergency Department', *Australasian Emergency Care*, 26(4), pp. 314–320. Available at: <https://doi.org/10.1016/j.auec.2023.04.001>.
- Howlett, J.R., Nelson, L.D. and Stein, M.B. (2022) 'Mental Health Consequences of Traumatic Brain Injury', *Biological Psychiatry*. Elsevier Inc., pp. 413–420. Available at: <https://doi.org/10.1016/j.biopsych.2021.09.024>.
- Johnson, D.B. and Kelley, B. (2022) *Dexamethasone*, StatPearls Publishing.
- Jones, C. *et al.* (2023) 'PEG hydrogel containing dexamethasone-conjugated hyaluronic acid reduces secondary injury and improves motor function in a rat moderate TBI model', *Experimental Neurology*, 369, p. 114533. Available at: <https://doi.org/10.1016/j.expneurol.2023.114533>.
- Kh and Helmy, A. (2019) 'Recent advances in traumatic brain injury', *Journal of* 1), pp. 2878–2889. Available at: <https://doi.org/10.1007/s00415-019-09541-4>.
- Ki 'Optimizing Mannitol Use in Managing Increased Intracranial Pressure: A Review of Recent Research and Clinical Experiences', *Korean Journal of*



*Neurotrauma*. Korean Neurotraumatology Society, pp. 162–176. Available at: <https://doi.org/10.13004/kjnt.2023.19.e25>.

Komoltsev, I.G. and Gulyaeva, N. V. (2022) ‘Brain Trauma, Glucocorticoids and Neuroinflammation: Dangerous Liaisons for the Hippocampus’, *Biomedicines*. MDPI. Available at: <https://doi.org/10.3390/biomedicines10051139>.

Lefevre-Dognin, C. *et al.* (2021) ‘Definition and epidemiology of mild traumatic brain injury’, *Neurochirurgie*, 67(3), pp. 218–221. Available at: <https://doi.org/10.1016/j.neuchi.2020.02.002>.

LI, H. and YAN, G. (2014) ‘The Clinical Study of Dexamethasone and Mannitol for Acute Severe Cerebrovascular Disease Cerebral Protective Effect.’

Maas, A.I.R. *et al.* (2022) ‘Traumatic brain injury: progress and challenges in prevention, clinical care, and research’, *The Lancet Neurology*. Elsevier Ltd, pp. 1004–1060. Available at: [https://doi.org/10.1016/S1474-4422\(22\)00309-X](https://doi.org/10.1016/S1474-4422(22)00309-X).

Macks, C. *et al.* (2022) ‘Dexamethasone-Loaded Hydrogels Improve Motor and Cognitive Functions in a Rat Mild Traumatic Brain Injury Model’, *International Journal of Molecular Sciences*, 23(19), p. 11153. Available at: <https://doi.org/10.3390/ijms231911153>.

Nagavalli, D. and Nanthagopal, P. (2023) ‘Pharmaceutical Applications for MANNITOL: An Overview’, *International Journal of Pharmaceutical Sciences and Medicine*, 8(6), pp. 103–138. Available at: <https://doi.org/10.47760/ijpsm.2023.v08i06.008>.

Papagianni, M. *et al.* (2018) ‘Treatment with Mannitol is Associated with Increased Risk for In-Hospital Mortality in Patients with Acute Ischemic Stroke and Cerebral Edema’, *American Journal of Cardiovascular Drugs*, 18(5), pp. 397–403. Available at: <https://doi.org/10.1007/s40256-018-0285-0>.

PERDOSSI (2022) *KEPUTUSAN MENTERI KESEHATAN REPUBLIK INDONESIA*.

Poudel, S. *et al.* (2023) ‘Effect of intravenous administration of 20% Mannitol on optic nerve sheath diameter in patients with raised intracranial pressure’, *Journal of Nepalese Society of Critical Care Medicine*, 1(1), pp. 7–12. Available at: <https://doi.org/10.3126/jnsccm.v1i1.52023>.

Prasad, G.L. (2021) ‘Steroids for delayed cerebral edema after traumatic brain injury’, *Surgical Neurology*

p. 46. Available at: [https://doi.org/10.25259/SNI\\_756\\_2020](https://doi.org/10.25259/SNI_756_2020).

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*dexthasone*, [pubchem.ncbi.nlm.nih.gov](https://pubchem.ncbi.nlm.nih.gov).

- Purnomo, A., Permana, K. and Daryanto, B. (2021) 'Acute Kidney Injury Following Mannitol Administration in Traumatic Brain Injury: a Meta-analysis', *Acta Informatica Medica*, 29(4), p. 270. Available at: <https://doi.org/10.5455/aim.2021.29.270-274>.
- Rosyidi, R.M. *et al.* (2019) 'Characteristics and clinical outcome of traumatic brain injury in Lombok, Indonesia', *Interdisciplinary Neurosurgery: Advanced Techniques and Case Management*, 18. Available at: <https://doi.org/10.1016/j.inat.2019.04.015>.
- Sabet, N., Soltani, Z. and Khaksari, M. (2021) 'Multipotential and systemic effects of traumatic brain injury', *Journal of Neuroimmunology*. Elsevier B.V. Available at: <https://doi.org/10.1016/j.jneuroim.2021.577619>.
- Shi, J. *et al.* (2020) 'Hypertonic saline and mannitol in patients with traumatic brain injury: A systematic and meta-analysis', *Medicine (United States)*. Lippincott Williams and Wilkins. Available at: <https://doi.org/10.1097/MD.00000000000021655>.
- Swaminathan, G. *et al.* (2024) 'Revisiting the Classification of Moderate and Mild Traumatic Brain Injury Based on the Admission Glasgow Coma Scale Score', *Indian Journal of Neurotrauma*, 21(01), pp. 043–047. Available at: <https://doi.org/10.1055/s-0043-1768170>.
- Wang, Z. *et al.* (2021) 'Acoustofluidic separation enables early diagnosis of traumatic brain injury based on circulating exosomes', *Microsystems and Nanoengineering*, 7(1). Available at: <https://doi.org/10.1038/s41378-021-00244-3>.
- Yue, J.K. *et al.* (2020) 'The role of blood biomarkers for magnetic resonance imaging diagnosis of traumatic brain injury', *Medicina (Lithuania)*. MDPI AG. Available at: <https://doi.org/10.3390/medicina56020087>.
- Zhang, B. *et al.* (2020) 'Corticosterone Replacement Alleviates Hippocampal Neuronal Apoptosis and Spatial Memory Impairment Induced by Dexamethasone via Promoting Brain Corticosteroid Receptor Rebalance after Traumatic Brain Injury', *Journal of Neurotrauma*, 37(2), pp. 262–272. Available at: <https://doi.org/10.1089/neu.2019.6556>.
- Zima, L. *et al.* (2024) 'The evolving pathophysiology of TBI and the advantages of temporally-guided combination therapies', *Neurochemistry International*, 180, p. 105874. Available at: <https://doi.org/10.1016/j.neuint.2024.105874>.

