

## REFERENCES

- Albert, D. M., & Gamm, D. M. 2015, May 7. Optic nerve. Encyclopedia Britannica.  
<https://www.britannica.com/science/optic-nerve>
- Anderson, R. L., Panje, W. R., & Gross, C. E. 1982. Optic nerve blindness following blunt forehead trauma. *Ophthalmology*, 89(5), 445-455.
- Braugher, J. M., Hall, E. D., Means, E. D., Waters, T. R., & Anderson, D. K. 1987. Evaluation of an intensive methylprednisolone sodium succinate dosing regimen in experimental spinal cord injury. *Journal of neurosurgery*, 67(1), 102-105.
- Bodis-Wollner, I. 1990. Visual Deficits related to dopamine deficiency in experimental animals and Parkinson's disease patients. *Trends Neurosci.* 13, 296-302.
- Chatagner, A., Hüppi, P. S., Leuchter, R. H. V., & Sizonenko, S. 2010. Érythropoïétine et neuroprotection. *Archives de pédiatrie*, 17, S78-S84.
- Chen, B., Zhang, H., Zhai, Q., Li, H., Wang, C., & Wang, Y. 2022. Traumatic optic neuropathy: a review of current studies. *Neurosurgical review*, 45(3), 1895–1913.  
<https://doi.org/10.1007/s10143-021-01717-9>
- Chen HH, Lee MC, Tsai CH, Pan CH, Lin YT, Chen CT. Surgical Decompression or Corticosteroid Treatment of Indirect Traumatic Optic Neuropathy: A Randomized Controlled Trial. *Annals of Plastic Surgery* [Internet]. 2020 Jan 1 [cited 2024 Jan 27];84(1S Suppl 1):S80–3. Available from: <https://pubmed.ncbi.nlm.nih.gov/31800551/>

- Chino, Y.M., Shansky, M.S., and Hamasaki D.I. 1980. Development of receptive field properties of retinal ganglion cells in kittens raised with a convergent squint. *Exp. Brain Res.* 39, 313–320
- Dadeya, S., Vats, P., and Malik, K.P. 2009. Levodopa/carbidopa in the treatment of amblyopia. *J. Pediatr. Ophthalmol. Strabismus* 46, 87–90; quiz 91–82.
- Ding, D. C., Shyu, W. C., & Lin, S. Z. 2011. Mesenchymal stem cells. *Cell transplantation*, 20(1), 5–14. <https://doi.org/10.3727/096368910X>
- Entezari M, Rajavi Z, Sedighi N, Daftarian N, Sanagoo M. High-dose intravenous methylprednisolone in recent traumatic optic neuropathy; a randomized double-masked placebo-controlled clinical trial. *Graefe's Archive for Clinical and Experimental Ophthalmology*. 2007 Jan 31;245(9):1267–71.
- Frederick, J.M., Rayborn, M.E., Laties, A.M., Lam, D.M., and Hollyfield, J.G. 1982. Dopaminergic neurons in the human retina. *J. Comp. Neurol.* 210, 65–79.
- Fritz, J. M., & Cleland, J. 2003. Effectiveness versus efficacy: more than a debate over language. *The Journal of orthopaedic and sports physical therapy*, 33(4), 163–165. <https://doi.org/10.2519/jospt.2003.33.4.163>
- Hall, E. D. 1992. The neuroprotective pharmacology of methylprednisolone. *Journal of neurosurgery*, 76(1), 13-22.
- Hathiram, B. T., Khattar, V. S., Sonawane, H. P., & Watve, P. J. 2010. Traumatic optic neuropathy - our experience. *Indian journal of otolaryngology and head and neck*

surgery: official publication of the Association of Otolaryngologists of India, 62(3), 229–235. <https://doi.org/10.1007/s12070-010-0072-y>

Higgins, J.P.T., Thomas, J., Chandler, J., Cumpston, M., Li, T., Page, M.J., & Welch, V.A. (Eds.). 2023. Cochrane Handbook for Systematic Reviews of Interventions version 6.4 (updated August 2023). Cochrane. [Online]. Available from [www.training.cochrane.org/handbook](http://www.training.cochrane.org/handbook).

Holmes, M. D., & Sires, B. S. 2004. Flash visual evoked potentials predict visual outcome in traumatic optic neuropathy. *Ophthalmic plastic and reconstructive surgery*, 20(5), 342–346. <https://doi.org/10.1097/01.iop.0000134272.55294.4c>

Hosseini Siyanaki, M. R., Azab, M. A., & Lucke-Wold, B. 2023. Traumatic Optic Neuropathy: Update on Management. *Encyclopedia*, 3(1), 88–101. <https://doi.org/10.3390/encyclopedia3010007>

Jackson, R.S. and Gigantelli, J.W. 2022. Traumatic optic neuropathy differential diagnoses, *Traumatic Optic Neuropathy Differential Diagnoses*. Available at: <https://emedicine.medscape.com/article/868129-differential> (Accessed: 23 August 2023).

Johnson, L.N., Gould, T.J., and Krohel, G.B. 1996. Effect of levodopa and carbidopa on recovery of visual function in patients with nonarteritic anterior ischemic optic neuropathy of longer than six months' duration. *Am. J. Ophthalmol.* 121, 77–83

- Karimi, S., Arabi, A., Ansari, I., Shahraki, T., & Safi, S. 2021. A Systematic Literature Review on Traumatic Optic Neuropathy. *Journal of ophthalmology*, 2021, 5553885. <https://doi.org/10.1155/2021/5553885>
- Kashkouli MB, Yousefi S, Nojomi M, Sanjari MS, Pakdel F, Entezari M, et al. Traumatic optic neuropathy treatment trial (TONTT): open label, phase 3, multicenter, semi-experimental trial. *Graefe's Archive for Clinical and Experimental Ophthalmology = Albrecht Von Graefes Archiv Fur Klinische Und Experimentelle Ophthalmologie* [Internet]. 2018 Jan 1;256(1):209–18. Available from: <https://pubmed.ncbi.nlm.nih.gov/28986670/>
- Kim S. Y. 2013. Efficacy versus Effectiveness. *Korean journal of family medicine*, 34(4), 227. <https://doi.org/10.4082/kjfm.2013.34.4.227>
- Kitthaweesin K, Yospaiboon Y. Dexamethasone and methylprednisolone in treatment of indirect traumatic optic neuropathy. *Journal of the Medical Association of Thailand = Chotmailhet Thangphaet* [Internet]. 2001 May 1 [cited 2024 Jan 27];84(5):628–34. Available from: <https://pubmed.ncbi.nlm.nih.gov/11560210/>
- Kumar K V, P., B, S., Ahuja, S., & Kumar S, P. 2022. Traumatic Optic Neuropathy: Analysis of Demographic and Clinical Parameters Over Three Years in a Tertiary Care Hospital in India. *Cureus*, 14(11), e31771. <https://doi.org/10.7759/cureus.31771>

- Lee, S.Y. and Mesfin, F.B. 2023. Blindness - StatPearls - NCBI Bookshelf - National Center for ..., National Library of Medicine. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK448182/> (Accessed: 11 June 2023).
- Lee, V., Ford, R. L., Xing, W., Bunce, C., & Foot, B. 2010. Surveillance of traumatic optic neuropathy in the UK. *Eye (London, England)*, 24(2), 240–250. <https://doi.org/10.1038/eye.2009.79>
- Leguire, L.E., Rogers, G.L., Bremer, D.L, Walson, P.D., and McGregor, M.L. 1993. Levodopa/carbidopa in the treatment of amblyopia. *J. Pediatr. Ophthalmol. Strabismus* 46, 87-90; quiz 91-82
- Levenson, J. H., & Kozarsky, A. 1990. Visual Acuity. In H. K. Walker (Eds.) et. al., *Clinical Methods: The History, Physical, and Laboratory Examinations*. (3rd ed.). Butterworths.
- Levin, L. A., Beck, R. W., Joseph, M. P., Seiff, S., & Kraker, R. 1999. The treatment of traumatic optic neuropathy: the International Optic Nerve Trauma Study. *Ophthalmology*, 106(7), 1268–1277. [https://doi.org/10.1016/s0161-6420\(99\)00707-1](https://doi.org/10.1016/s0161-6420(99)00707-1)
- Li J, Bai X, Guan X, Yuan H, Xu X. Treatment of Optic Canal Decompression Combined with Umbilical Cord Mesenchymal Stem (Stromal) Cells for Indirect Traumatic Optic Neuropathy: A Phase 1 Clinical Trial. *Ophthalmic Research*. 2020 Oct 22;64(3):398–404.

- Lin, J., Hu, W., Wu, Q., Zhang, J., & Yan, W. 2021. An evolving perspective of endoscopic transnasal optic canal decompression for traumatic optic neuropathy in clinic. *Neurosurgical review*, 44(1), 19–27. <https://doi.org/10.1007/s10143-019-01208-y>
- Mahapatra, A. K., & Tandon, D. A. 1993. Traumatic optic neuropathy in children: a prospective study. *Pediatric neurosurgery*, 19(1), 34–39. <https://doi.org/10.1159/000120698>
- Martinez-Perez, R., Albonette-Felicio, T., Hardesty, D. A., Carrau, R. L., & Prevedello, D. M. 2021. Outcome of the surgical decompression for traumatic optic neuropathy: a systematic review and meta-analysis. *Neurosurgical review*, 44(2), 633–641. <https://doi.org/10.1007/s10143-020-01260-z>
- Ocejo A, Correa R. Methylprednisolone. [Updated 2022 Dec 11]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK544340/>
- Oh, H. J., Yeo, D. G., & Hwang, S. C. 2018. Surgical Treatment for Traumatic Optic Neuropathy. *Korean journal of neurotrauma*, 14(2), 55–60. <https://doi.org/10.13004/kjnt.2018.14.2.55>
- Pandey, S., Reddy, G. S., Chug, A., Dixit, A., & Raja, B. S. 2022. Comparison of Surgical Decompression and Steroid Therapy for the Management of Traumatic Optic Neuropathy: A Systematic Review and Meta-Analysis. *Craniomaxillofacial Trauma & Reconstruction*, 0(0). <https://doi.org/10.1177/19433875221142682>

- Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., ... [et al]. 2021. The PRISMA 2020 statement: An updated guideline for reporting systematic reviews. *BMJ*, 372(n71), doi:10.1136/bmj.n71.
- Ramamoorthy, S., & Cidlowski, J. A. 2016. Corticosteroids: Mechanisms of Action in Health and Disease. *Rheumatic diseases clinics of North America*, 42(1), 15–vii. <https://doi.org/10.1016/j.rdc.2015.08.002>
- Razeghinejad MR, Rahat F, Bagheri M. Levodopa-Carbidopa May Improve Vision Loss in Indirect Traumatic Optic Neuropathy. *Journal of Neurotrauma*. 2010 Oct;27(10):1905–9.
- Rossini P. M. 2010. Adverse effects. *La Clinica terapeutica*, 161(1), 89–90.
- Sarkies N. 2004. Traumatic optic neuropathy. *Eye (London, England)*, 18(11), 1122–1125. <https://doi.org/10.1038/sj.eye.6701571>
- Schoener, B., & Borger, J. 2023. Erythropoietin Stimulating Agents. In *StatPearls*. StatPearls Publishing.
- Smith, A. M., & Czyz, C. N. 2023. Neuroanatomy, Cranial Nerve 2 (Optic) [Updated 2022 Nov 7]. In: *StatPearls* [Internet]. Treasure Island (FL): StatPearls Publishing. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK507907/>
- Spector, R. H. 1990. Visual Fields. In H. K. Walker, W. D. Hall, & J. W. Hurst (Eds.), *Clinical Methods: The History, Physical, and Laboratory Examinations* (3rd ed., Chapter 116). Butterworths. <https://www.ncbi.nlm.nih.gov/books/NBK220/>

- Steinsapir, K. D., & Goldberg, R. A. 1994. Traumatic optic neuropathy. Survey of ophthalmology, 38(6), 487–518. [https://doi.org/10.1016/0039-6257\(94\)90145-7](https://doi.org/10.1016/0039-6257(94)90145-7)
- Steinsapir K. D. 2006 Treatment of traumatic optic neuropathy with high-dose corticosteroid. Journal of neuro-ophthalmology: the official journal of the North American Neuro-Ophthalmology Society, 26(1), 65–67. <https://doi.org/10.1097/01.wno.0000204646.94991.68>
- Sung Y, Sang Yup Lee, Park M, Hye Jin Choi, Kang SH, Byung Ihn Choi, et al. Treatment of traumatic optic neuropathy using human placenta-derived mesenchymal stem cells in Asian patients. Regenerative Medicine. 2020 Oct 1;15(10):2163–79.
- Tabatabaei, S. A., Soleimani, M., Alizadeh, M., Movasat, M., Mansoori, M. R., Alami, Z., Foroutan, A., Joshaghani, M., Safari, S., & Goldiz, A. 2011. Predictive value of visual evoked potentials, relative afferent pupillary defect, and orbital fractures in patients with traumatic optic neuropathy. Clinical ophthalmology (Auckland, N.Z.), 5, 1021–1026. <https://doi.org/10.2147/OPTH.S2140>
- Teoli, D., & Bhardwaj, A. 2023. Quality of Life. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing. Updated 2023, March 27. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK536962/>
- Tsai, H. H., Jeng, S. F., Lin, T. S., Kueh, N. S., & Hsieh, C. H. 2005. Predictive value of computed tomography in visual outcome in indirect traumatic optic neuropathy



complicated with periorbital facial bone fracture. Clinical neurology and neurosurgery, 107(3), 200–206. <https://doi.org/10.1016/j.clineuro.2004.07.015>

U.S. National Library of Medicine. 2021. What Are Clinical Trials? Retrieved from <https://www.nih.gov/health-information/nih-clinical-research-trials-you/what-are-clinical-trials>

World Health Organization. 2016. Ethical issues in patient safety research: interpreting existing guidance. Retrieved from <https://apps.who.int/iris/bitstream/handle/10665/252566/WHO-HIS-IER-PSP-2016.2-eng.pdf>

Yu-Wai-Man P. 2015. Traumatic optic neuropathy-Clinical features and management issues. Taiwan journal of ophthalmology, 5(1), 3–8. <https://doi.org/10.1016/j.tjo.2015.01.003>

Yu-Wai-Man, P., & Griffiths, P. G. 2013. Surgery for traumatic optic neuropathy. The Cochrane database of systematic reviews, 6(6), CD005024. <https://doi.org/10.1002/14651858.CD005024.pub3>