

DAFTAR PUSTAKA

- Abdullahi, D., Annuar, A.A., Mohamad, M., Aziz, I., Sanusi, J., 2017. Experimental spinal cord trauma: A review of mechanically induced spinal cord injury in rat models. *Rev. Neurosci.* 28, 15–20. <https://doi.org/10.1515/revneuro-2016-0050>
- Ahuja, C.S., Fehlings, M.G., 2017. Neuroprotection of the Injured Spinal Cord: What Does the Future Hold?, in: Vialle, L.R., Fehlings, M.G., Weidner, N. (Eds.), *AOSpine Masters Series Volume 7 Spinal Cord Injury and Regeneration*. Thieme, New York, pp. 89–106.
- Anderson, A.J., Peterson, S.L., Sontag, C.J., 2013. Animal Models of Spinal Cord Injury, in: Fehlings, M.G., Vaccaro, A.R., Boakye, M., Rossignol, S., Ditunno, J.F., Burns, A.S. (Eds.), *Essentials of Spinal Cord Injury Basic Research to Clinical Practice*. Thieme, New York, pp. 366–377.
- Austin, J.W., Rowland, J.W., Fehlings, M.G., 2013. Pathophysiology of Spinal Cord Injury, in: Fehlings, M.G., Vaccaro, A.R., Boakye, M., Rossignol, S., Ditunno, J.F., Burns, A.S. (Eds.), *Essentials of Spinal Cord Injury Basic Research to Clinical Practice*. New York, pp. 38–55.
- Basso, D.M., Beattie, M.S., Bresnahan, J.C., 1996. Graded histological and locomotor outcomes after spinal cord contusion using the NYU weight-drop device versus transection. *Exp. Neurol.* <https://doi.org/10.1006/exnr.1996.0098>
- Beggs, J.L., Waggener, J.D., 1975. Vasogenic edema in the injured spinal cord: A method of evaluating the extent of blood-brain barrier alteration to horseradish peroxidase. *Exp. Neurol.* 49, 86–96. [https://doi.org/10.1016/0014-4886\(75\)90196-X](https://doi.org/10.1016/0014-4886(75)90196-X)
- Charan, J., Kantharia, N., 2013. How to calculate sample size in animal studies? *J. Pharmacol. Pharmacother.* 4, 303. <https://doi.org/10.4103/0976-500X.119726>
- Chen, Y., 2013. Epidemiology of Traumatic Spinal Cord Injury, in: Fehlings, M.G., Vaccaro, A.R., Boakye, M., Rossignol, S., Ditunno, J.F., Burns, A.S. (Eds.), *Essentials of Spinal Cord Injury Basic Research to Clinical Practice*. New York, pp. 56–64.
- Dahlan, M.S., 2009. Uji Hipotesis Komparatif Variabel Numerik Lebih dari Dua Kelompok, in: *Statistik Untuk Kedokteran Dan Kesehatan*. Salemba Medika.
- Dietrich, W.D., 2013. Research in Spinal Cord Injury: Building an Effective Translational Research Program, in: Fehlings, M.G., Vaccaro, A.R., Boakye, M., Rossignol, S., Ditunno, J.J., Burns, A.S. (Eds.), *Essentials of Spinal Cord Injury Basic Research to Clinical Practice*2. Thieme, New York, pp. 339–347.

- Federer, W.T., 1967. *Experimental Design: Theory and Application*. Oxford & IBH Publishing Co., New York.
- Gezici, A.R., Kilic, G., Firat, T., Cancan, S.E., Kukner, A., Ozkan, N., Dagistan, Y., 2017. The therapeutic effects of cyclosporin-A on experimental spinal cord injury. *Biomed. Res.* 28, 3755–3762. <https://doi.org/10.1186/1471-2334-9-42>
- Gillick, J.L., Prasad, S., 2018. Comprehensive Review of Spinal Cord Injury Pharmacology and Recent Medical Advances in Treatment, in: Jallo, J., Vaccaro, A.R. (Eds.), *Neurotrauma and Critical Care of The Spine*. Thieme, New York, pp. 150–156.
- Hagg, T., Benton, R.L., Fassbender, J.M., Whittemore, S.R., 2012. Assessing Microvessels After Spinal Cord Injury, in: Chen, J., Xu, X., Xu, Z.C., Zhang, J.H. (Eds.), *Animal Models of Acute Neurological Injuries II*. Humana Press Springer, New York, pp. 499–520.
- Hawryluk, G.W.J., Nakashima, H., Fehlings, M.G., 2017. Pathophysiology and Treatment of Spinal Cord Injury, in: Winn, R. (Ed.), *Youman & Winn Neurological Surgery*. Elsevier Inc., Philadelphia, PA, pp. 2292–2306.
- Jain, K.K., 2011. *The Handbook of Neuroprotection*, Humana Press. Humana Press. https://doi.org/10.1007/978-1-61779-049-2_1
- Jakeman, L.B., 2012. Assessment of Lesion and Tissue Sparing Volumes Following Spinal Cord Injury, in: Chen, J., Xu, X., Xu, Z.C., Zhang, J.H. (Eds.), *Animal Models of Acute Neurological Injuries II*. Humana Press Springer, New York, pp. 417–442.
- Joshi, M., Fehlings, M.G., 2002. Development and Characterization of a Novel, Graded Model of Clip Compressive Spinal Cord Injury in the Mouse: Part 2. Quantitative Neuroanatomical Assessment and Analysis of the Relationships between Axonal Tracts, Residual Tissue, and Locomotor Recovery. *J. Neurotrauma* 19, 191–203. <https://doi.org/10.1089/08977150252806956>
- Kalkan, E., Keskin, F., Kaya, B., Esen, H., Tosun, M., Kalkan, S.S., Erdi, F., Unlü, A., Avunduk, M.C., Cicek, O., 2011. Effects of iloprost and piracetam in spinal cord ischemia-reperfusion injury in the rabbit. *Spinal Cord* 49, 81–86. <https://doi.org/10.1038/sc.2010.76>
- Keil, U., Scherping, I., Hauptmann, S., Schuessel, K., Eckert, A., Müller, W.E., 2006. Piracetam improves mitochondrial dysfunction following oxidative stress. *Br. J. Pharmacol.* 147, 199–208. <https://doi.org/10.1038/sj.bjp.0706459>
- Lee, B.B., Cripps, R.A., Fitzharris, M., Wing, P.C., 2014. The global map for traumatic spinal cord injury epidemiology: update 2011, global incidence rate. *Spinal Cord* 52, 110–116. <https://doi.org/10.1038/sc.2012.158>
- Liang, D., Bhatta, S., Gerzanich, V., Simard, J.M., 2007. Cytotoxic edema:

mechanisms of pathological cell swelling. *Neurosurg. Focus* 22, 1–9.
<https://doi.org/10.3171/foc.2007.22.5.3>

- Mote, M., Manusubroto, W., Sugiyono, 2018. Pengaruh pemberian Siklosporin-A terhadap perubahan histopatologi nekrosis pada cedera medula spinalis tikus albino galur wistar (*Rattus norvegicus*). Universitas Gadjah Mada.
- Muller, W.E., Eckert, G.P., Eckert, A., 1999. Piracetam: novelty in a unique mode of action. *Pharmacopsychiatry* 32 Suppl 1, 2–9. <https://doi.org/10.1055/s-2007-979230>
- Nakashima, H., Nagoshi, N., Fehlings, M.G., 2017. Pathobiology of Spinal Cord Injury, in: Vialle, L.R., Fehlings, M.G., Weidner, N. (Eds.), *AOSpine Masters Series Volume 7 Spinal Cord Injury and Regeneration*. Thieme, New York, pp. 1–10.
- Numberi, T., Manusubroto, W., Sugiyono, 2018. Pengaruh pemberian ACTH4-10 Pro-Gly-Pro terhadap perubahan histopatologis edema medula spinalis pada tikus albino galur wistar (*Rattus norvegicus*) dengan cedera medula spinalis traumatik. Universitas Gadjah Mada.
- Paliwal, P., Dash, D., Krishnamurthy, S., 2018. Pharmacokinetic Study of Piracetam in Focal Cerebral Ischemic Rats. *Eur. J. Drug Metab. Pharmacokinet.* 43, 205–213. <https://doi.org/10.1007/s13318-017-0435-9>
- Pathan, A.B., 2012. Therapeutic Applications of Citicoline and Piracetam as Fixed Dose Combination. *Asian J. Biomed. Pharm. Sci.* 2, 15–20.
- Schmidt, R., Ghobrial, G.M., Harrop, J.S., 2018. Emerging Therapies for Spinal Cord Injury, in: Jallo, J., Vaccaro, A.R. (Eds.), *Neurotrauma and Critical Care of The Spine*. Thieme, New York, pp. 169–185.
- Shakir, B.A., Jusue-Torres, I., Levene, H.B., 2018. Epidemiology of Spinal Injuries, in: Jallo, J., Vaccaro, A.R. (Eds.), *Neurotrauma and Critical Care of The Spine*. Thieme, New York, pp. 1–7.
- Shakir, B.A., Levene, H.B., 2018. Pathophysiology of Spinal Cord Injury, in: Jallo, J., Vaccaro, A.R. (Eds.), *Neurotrauma and Critical Care of The Spine*. Thieme, New York, pp. 8–11.
- Sharif-Alhoseini, M., Khormali, M., Rezaei, M., Safdarian, M., Hajighadery, A., Khalatbari, M.M., Safdarian, M., Meknatkhah, S., Rezvan, M., Chalangari, M., Derakhshan, P., Rahimi-Movaghar, V., 2017. Animal models of spinal cord injury: a systematic review. *Spinal Cord* 55, 714–721. <https://doi.org/10.1038/sc.2016.187>
- Sharma, H., 2005. Pathophysiology of Blood-Spinal Cord Barrier in Traumatic Injury and Repair. *Curr. Pharm. Des.* 11, 1353–1389. <https://doi.org/10.2174/1381612053507837>
- Siddiqui, A.M., Ahuja, C.S., Tator, C.H., Fehlings, M.G., 2018. Spinal Cord

- Protective and Regenerative Therapies, in: Jallo, J., Vaccaro, A.R. (Eds.), *Neurotrauma and Critical Care of The Spine*. Thieme, New York, pp. 12–30.
- Simonić, A., Atanacković, D., 1984. Effect of piracetam on motor activity of spinal cord injured rabbits. *Arch. Int. Pharmacodyn. Ther.* 272, 296–303.
- Simonić, A., Atanacković, D., Batistić, B., 1988. The influence of piracetam on the motor activity of rabbits with contused spinal cord. *Scand. J. Rehabil. Med. Suppl.* 17, 125–30.
- Steeves, J.D., 2013. Consideration for the Initiation and Conduct of Spinal Cord Injury Clinical Trials, in: Fehlings, M.G., Vaccaro, A.R., Boakye, M., Rossignol, S., Ditunno, J.J., Burns, A.S. (Eds.), *Essentials of Spinal Cord Injury Basic Research to Clinical Practice*². Thieme, New York, pp. 356–365.
- Syrmos, N., Chatzinasiou, E., Syrmou, E., Syrmos, C., 2011. Aneurysm clip. *Pakistan J. Neurol. Sci.* 6, 44–47.
- Tator, C.H., Fehlings, M.G., 1991. Review of the secondary injury theory of acute spinal cord trauma with emphasis on vascular mechanisms. *J. Neurosurg.* 15–26. <https://doi.org/10.3171/jns.1991.75.1.0015>
- Voda, J., Yamaji, T., Gold, B.G., 2005. Neuroimmunophilin Ligands Improve Functional Recovery and Increase Axonal Growth after Spinal Cord Hemisection in Rats. *J. Neurotrauma* 22, 1150–1161. <https://doi.org/10.1089/neu.2005.22.1150>
- Walker, C.L., Xu, X., 2012. Morphological Assessments Following Spinal Cord Injury, in: Chen, J., Xu, X.-M., Xu, Z.C., Zhang, J.H. (Eds.), *Springer Protocols Handbooks*. Humana Press, Totowa, NJ, pp. 405–416. https://doi.org/10.1007/978-1-61779-782-8_36
- Wang, P.-H., Chen, S.-C., Yang, S.-F., Huang, J.-Y., Liu, J.-W., Chen, S.-Y., Wang, Y.-H., 2019. The Conditions Under Which Piracetam Is Used and the Factors That Can Improve National Institute of Health Stroke Scale Score in Ischemic Stroke Patients and the Importance of Previously Unnoticed Factors From a Hospital-Based Observational Study in Taiwa. *J. Clin. Med.* 8, 122. <https://doi.org/10.3390/jcm8010122>
- Wang, S., Hawryluk, G.W.J., Fehlings, M.G., 2013. Neuroprotective Trials in Spinal Cord Injury, in: Fehlings, M.G., Vaccaro, A.R., Boakye, M., Rossignol, S., Ditunno, J.F., Burns, A.S. (Eds.), *Essentials of Spinal Cord Injury Basic Research to Clinical Practice*. Thieme, New York, pp. 421–430. <https://doi.org/978-1-60406-727-9>
- Winblad, B., 2006. Piracetam: A Review of Pharmacological Properties and Clinical Uses. *CNS Drug Rev.* 11, 169–182. <https://doi.org/10.1111/j.1527-3458.2005.tb00268.x>