



DAFTAR PUSTAKA

- Barber, R.D., Harmer, D.W., Coleman, R.A., Clark, B.J., 2005. GAPDH as a housekeeping gene: analysis of GAPDH mRNA expression in a panel of 72 human tissues. *Physiol. Genomics* 21, 389–395.
- Barbosa, J.A., Tiseo, B.C., Barayan, G.A., Rosman, B.M., Torricelli, F.C.M., Passerotti, C.C., Srougi, M., Retik, A.B., Nguyen, H.T., 2013. Development and initial validation of a scoring system to diagnose testicular torsion in children. *J. Urol.* 189, 1859–1864.
- Bartsch, G., Frank, S., Marberger, H., Mikuz, G., 1980. Testicular torsion: late results with special regard to fertility and endocrine function. *J. Urol.* 124, 375–378.
- Beato, M., Truss, M., Chávez, S., 1996. Control of transcription by steroid hormones. *Ann. N. Y. Acad. Sci.* 784, 93–123.
- Bodur, A., Alver, A., Kahraman, C., Altay, D.U., İnce, İ., 2016. Investigation of N-acetylcysteine on contralateral testis tissue injury by experimental testicular torsion: long-term effect. *Am. J. Emerg. Med.* 34, 1069–1074.
- Cankorkmaz, L., Köylüoğlu, G., Ozer, H., Yıldız, E., Sümer, Z., Ozdemir, O., 2009. [The role of apoptosis and protective effect of carnitine in contralateral testicular injury in experimental unilateral testicular torsion]. *Ulus. Travma Ve Acil Cerrahi Derg. Turk. J. Trauma Emerg. Surg.* TJTES 15, 529–534.
- Charan, J., Kantharia, N.D., 2013. How to calculate sample size in animal studies? *J. Pharmacol. Pharmacother.* 4, 303.
- Cheng, S., Gao, W., Xu, X., Fan, H., Wu, Y., Li, F., Zhang, J., Zhu, X., Zhang, Y., 2016. Methylprednisolone sodium succinate reduces BBB disruption and inflammation in a model mouse of intracranial haemorrhage. *Brain Res. Bull.* 127, 226–233.
- Das, A., Banik, N.L., Ray, S.K., 2007. Methylprednisolone and indomethacin inhibit oxidative stress mediated apoptosis in rat C6 glioblastoma cells. *Neurochem. Res.* 32, 1849–1856.
- Datson, N.A., Morsink, M.C., Meijer, O.C., de Kloet, E.R., 2008. Central corticosteroid actions: Search for gene targets. *Eur. J. Pharmacol.* 583, 272–289.
- Diaz, E.C., Kimball, D., Gong, E.M., 2014. Acute scrotal pain in pediatric emergency medicine: Assessment, diagnosis, management, and treatment. *Clin. Pediatr. Emerg. Med.* 15, 248–260.
- Dinc, E., Ayaz, L., Kurt, A.H., 2017. Protective Effect of Combined Caffeic Acid Phenethyl Ester and Bevacizumab Against Hydrogen Peroxide-Induced Oxidative Stress in Human RPE Cells. *Curr. Eye Res.* 1–8.
- Doak, S.H., Zaïr, Z.M., 2012. Real-Time Reverse-Transcription Polymerase Chain Reaction: Technical Considerations for Gene Expression Analysis, in: Genetic Toxicology, Methods in Molecular Biology. Springer, New York, NY, pp. 251–270.
- Drlík, M., Kočvara, R., 2013. Torsion of spermatic cord in children: A review. *J. Pediatr. Urol.* 9, 259–266.



- Ellati, R.T., Kavoussi, P.K., Turner, T.T., Lysiak, J.J., 2009. Twist and Shout: A Clinical and Experimental Review of Testicular Torsion. *Korean J. Urol.* 50, 1159.
- Ellis, H., Mahadevan, V., 2014. Scrotum, testis and epididymis. *Surg. - Oxf. Int. Ed.* 32, e9–e16.
- Emir, M., Ozisik, K., Cagli, K., Ozisik, P., Tuncer, S., Bakuy, V., Yildirim, E., Kilinc, K., Gol, K., 2005. Beneficial effect of methylprednisolone on cardiac myocytes in a rat model of severe brain injury. *Tohoku J. Exp. Med.* 207, 119–124.
- Farrell Jr., R.E., 2010. Chapter 18 - RT-PCR: A Science and an Art Form, in: RNA Methodologies (4th Edition). *Academic Press, San Diego*, pp. 385–448.
- Favorito, L.A., Cavalcante, A.G., Costa, W.S., 2004. Anatomic aspects of epididymis and tunica vaginalis in patients with testicular torsion. *Int. Braz J Urol Off. J. Braz. Soc. Urol.* 30, 420–424.
- Fouad, A.A., Qutub, H.O., Jresat, I., 2017. Dose-dependent protective effect of baicalin against testicular torsion–detorsion in rats. *Andrologia* 49.
- Freeman, W.M., Walker, S.J., Vrana, K.E., 1999. Quantitative RT-PCR: pitfalls and potential. *BioTechniques* 26, 112–122, 124–125.
- Gatti, J.M., Murphy, J.P., 2007. Current management of the acute scrotum. *Semin. Pediatr. Surg.* 16, 58–63.
- Gürocak, S., Yilmaz, A., Alp, E., Üre, I., Sözen, S., Menevşe, S., Menevşe, A., Bozkırli, I., 2011. Inflammation and oxidative stress in testicular torsion: do they deserve intensive treatment to save both guilty and innocent testes? *Urology* 78, 164–169.
- Hall, J.E., 2010. Guyton and Hall Textbook of Medical Physiology E-Book. *Elsevier Health Sciences*.
- Hongmei, Z., 2012. Extrinsic and Intrinsic Apoptosis Signal Pathway Review.
- Kale, J., Osterlund, E.J., Andrews, D.W., 2017. BCL-2 family proteins: changing partners in the dance towards death. *Cell Death Differ.*
- Kieslinger, M., Woldman, I., Moriggl, R., Hofmann, J., Marine, J.C., Ihle, J.N., Beug, H., Decker, T., 2000. Antiapoptotic activity of Stat5 required during terminal stages of myeloid differentiation. *Genes Dev.* 14, 232–244.
- KjÆve, J., Ingebrigtsen, T., NÆss, L., BjertnÆs, L., Vaage, J., 1996. Methylprednisolone Attenuates Airway and Vascular Responses Induced by Reactive Oxygen Species in Isolated, Plasma-Perfused Rat Lungs. *Free Radic. Res.* 25, 407–414.
- Lee, J.-M., Yan, P., Xiao, Q., Chen, S., Lee, K.-Y., Hsu, C.Y., Xu, J., 2008. Methylprednisolone protects oligodendrocytes but not neurons following spinal cord injury. *J. Neurosci. Off. J. Soc. Neurosci.* 28, 3141–3149.
- Lorenzini, F., Tambara Filho, R., Gomes, R.P.X., Martino-Andrade, A.J., Erdmann, T.R., Matias, J.E.F., 2012. Long-term effects of the testicular torsion on the spermatogenesis of the contralateral testis and the preventive value of the twisted testis orchiopexy. *Acta Cir. Bras.* 27, 388–395.
- Lu, G.-B., Niu, F.-W., Zhang, Y.-C., Du, L., Liang, Z.-Y., Gao, Y., Yan, T.-Z., Nie, Z.-K., Gao, K., 2016. Methylprednisolone promotes recovery of neurological function after spinal cord injury: association with Wnt/β-catenin signaling pathway activation. *Neural Regen. Res.* 11, 1816–1823.



- Ma, L.-J., Zhang, J.-J., Wu, H.-T., 2009. [Effects of high dose methylprednisolone on cell apoptosis and Bcl-2 expression after acute spinal cord injuries in rats]. *Zhongguo Gu Shang China J. Orthop. Traumatol.* 22, 692–693.
- McIlwain, D.R., Berger, T., Mak, T.W., 2015. Caspase Functions in Cell Death and Disease. *Cold Spring Harb. Perspect. Biol.* 7.
- Melmed, S., 2016. Williams Textbook of Endocrinology. *Elsevier Health Sciences*.
- Mertoğlu, C., Senel, U., Cayli, S., Tas, U., Küskü Kiraz, Z., Özyurt, H., 2016. Protective role of methylprednisolone and heparin in ischaemic-reperfusion injury of the rat testicle. *Andrologia* 48, 737–744.
- Mogilner, J.G., Elenberg, Y., Lurie, M., Shiloni, E., Coran, A.G., Sukhotnik, I., 2006. Effect of dexamethasone on germ cell apoptosis in the contralateral testis after testicular ischemia–reperfusion injury in the rat. *Fertil. Steril.* 85, 1111–1117.
- Moore, K.L., Dalley, A.F., Agur, A.M.R., 2013. Clinically Oriented Anatomy. Lippincott Williams & Wilkins.
- Rabinowitz, R., Hulbert, W.C., Mevorach, R.A., 2014. Pediatric Urology for the Primary Care Physician. Springer.
- Sharp, V.J., Kieran, K., Arlen, A.M., 2013. Testicular Torsion: Diagnosis, Evaluation, and Management. *Am. Fam. Physician* 88, 835–840.
- Shimizu, S., Tsounapi, P., Dimitriadis, F., Higashi, Y., Shimizu, T., Saito, M., 2016. Testicular torsion-detorsion and potential therapeutic treatments: A possible role for ischemic postconditioning. *Int. J. Urol. Off. J. Jpn. Urol. Assoc.* 23, 454–463.
- Sloka, J.S., Stefanelli, M., 2005. The mechanism of action of methylprednisolone in the treatment of multiple sclerosis. *Mult. Scler. Hounds Mills Basingstoke Engl.* 11, 425–432.
- Snodgrass, W.T., Baker, L.A., Bush, N.C., 2013. Testicular Torsion, in: Pediatric Urology. Springer, New York, NY, pp. 89–102.
- Sun, Y., Du, Y.-J., Zhao, H., Zhang, G.-X., Sun, N., Li, X.-J., 2016. Protective effects of ulinastatin and methylprednisolone against radiation-induced lung injury in mice. *J. Radiat. Res. (Tokyo)* 57, 505–511.
- Tait, S.W.G., Green, D.R., 2010. Mitochondria and cell death: outer membrane permeabilization and beyond. *Nat. Rev. Mol. Cell Biol.* 11, 621–632.
- van der Velden, V.H., 1998. Glucocorticoids: mechanisms of action and anti-inflammatory potential in asthma. *Mediators Inflamm.* 7, 229–237.
- Williamson, R.C., 1976. Torsion of the testis and allied conditions. *Br. J. Surg.* 63, 465–476.
- Xia, F., Cao, J.S., Zhan, L.Y., Xia, Z.Y., Xia, Z.Y., Huang, H.B., 2003. Effect of methylprednisolone on reperfusion injury in severe uncontrolled hemorrhagic shock. *Chin. J. Traumatol. Zhonghua Chuang Shang Za Zhi* 6, 359–362.
- Xu, J., Chen, S., Chen, H., Xiao, Q., Hsu, C.Y., Michael, D., Bao, J., 2009. STAT5 Mediates Anti-Apoptotic Effects of Methylprednisolone on Oligodendrocytes. *J. Neurosci. Off. J. Soc. Neurosci.* 29, 2022–2026.
- Yildirim, E., Ozisik, K., Ozisik, P., Emir, M., Yildirim, E., Misirlioglu, M., Tuncer, S., Kilinc, K., 2006. Apoptosis-related gene bcl-2 in lung tissue after experimental traumatic brain injury in rats. *Heart Lung Circ.* 15, 124–129.



UNIVERSITAS
GADJAH MADA

EKSPRESI mRNA GEN Bcl-2 PADA TORSI TESTIS IPSILATERAL TIKUS JANTAN WISTAR DENGAN PEMERIAN TERAPI

OBAT METHYLPREDNISOLONE

RACHMADIAN AKMAL, dr. Nungki Anggorowati, Sp.PA.,Ph.D; dr. Didik Setyo Heriyanto, Sp.PA.,Ph.D

Universitas Gadjah Mada, 2017 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Zhao, L.C., Lautz, T.B., Meeks, J.J., Maizels, M., 2011. Pediatric testicular torsion epidemiology using a national database: incidence, risk of orchietomy and possible measures toward improving the quality of care. *J. Urol.* 186, 2009–2013.

Zhu, H., He, J., Liu, J., Zhang, X., Yang, F., Liu, P., Wang, S., 2017. Alpha 1-antitrypsin ameliorates ventilator-induced lung injury in rats by inhibiting inflammatory responses and apoptosis. *Exp. Biol. Med. Maywood NJ* 1535370217740852.