

DAFTAR PUSTAKA

- Akapa, T. S., Obidola, S. W., Philip, F. O. 2014. Loperamid Induced Constipated Wister Rats:Laxative Role Aqueous Extract Acacia ataxacantha Leaves. *World Journal of Pharmacy and Pharmaceutical Sciences*. Vol 3 Isu 12. Pp. 189-199.
- Andrew *et al.*, 2011. The pathofisiology of chronic constipation. *Can J Gastroenterol*. Vol 25 (Suppl B) ; 16B-21B
- Arif, Azalia dan Estuningtyas, Ari. 2012. Obat Lokal. Dalam Sulstiana Gan Gunawan, *Farmakologi dan Terapan Edisi 5*. Jakarta : Balai Penerbit FKUI. Hal 525-531.
- Benyamin, R. *et al.*, 2008. Opioid Complications and Side Effects. *Pain Physician Journal*. Pp. 105-120. ISSN 1533-3159
- Bell, T. J., Panchal, S. J., Miaskowski, C., Bolge, S. C., Milanova, T., & Williamson, R. 2009. The Prevalence, Severity, and Impact of Opioid-Induced Bowel Dysfunction: Results of a US and European Patient Survey (PROBE 1). *Pain Medicine*, 10(1), 35–42
- Berdanier, C. D. 2012. The Gastrointestinal System and Metabolism. *The Laboratory Mouse*. 313–329. doi:10.1016/b978-0-12-382008-2.00013-1.
- Camilleri, M., 2011. Opioid-Induced Constipation:Challenges and Therapeutic Opportunities. *The American Journal of Gastroenterology*. 106(5), pp.835-842.
- Dewoto, Hedi R. 2012. Analgesik Opioid dan Antagonis. Dalam Sulstiana Gan Gunawan, *Farmakologi dan Terapan Edisi 5*. Jakarta : Balai penerbit FKUI. Hal 210-229.
- Galligan, J.J., et al., 2014. Molecullar Physiology of Enteric Opioid Receptors. *HHS Public Access*. Pages 17-21.

- Ganong, William F. 2005. Regulation of Gastrointestinal Function. *Review of Medical Physiology* ed 22
- Garg, K & Tripathi, C.D., 2013. Management of Constipation. *JIMSA* Vol. 26 No. 3. pp.173-175.
- Hardin, J.A., Wallace, L.E., Wong, J.F.K., O'loughlin, E.V., Urbanski, S.J., Gall, D.G., MacNaughton, W.K. and Beck, P.L., 2004. Aquaporin expression is downregulated in a murine model of colitis and in patients with ulcerative colitis, Crohn's disease and infectious colitis. *Cell and Tissue Research*. 318(2), pp.313-323.
- Hofstetter, J., Suckow, M.A. & Hickman, D.L., 2006. Chapter 4 Morphophysiology. *The Laboratory Rat, 2ND EDITION*. *Elsivier* Inc. Pp 103-106.
- Ikarashi, N., Baba, K., Ushiki, T., Kon, R., Mimura, A., Toda, T., Ishii, M., Ochiai, W. and Sugiyama, K., 2011. The laxative effect of bisacodyl is attributable to decreased aquaporin-3 expression in the colon induced by increased PGE2 secretion from macrophages. *American Journal of Physiology-Gastrointestinal and Liver Physiology*, 301(5), pp.G887-G895.
- Ikarashi, N., Mimura, A., Kon, R., et al. 2012. The concomitant use of an osmotic laxative, magnesium sulphate, and a stimulant laxative, bisacodyl, does not enhance the laxative effect. *European Journal of Pharmaceutical Sciences*, Vol. 45 No. 1-2, pp. 73–78.
- Ikarashi, N., Kon, R., & Sugiyama, K. 2016. Aquaporins in the Colon as a New Therapeutic Target in Diarrhea and Constipation. *International Journal of Molecular Sciences*, Vol. 17 No. 7, pp. 1172.
- Ishibashi, K., Hara, S. and Kondo, S., 2009. Aquaporin water channels in mammals. *Clinical and experimental nephrology*, 13(2), pp.107-117.

- Joshi, M. dan Deshpande, J.D., 2010. Polymerase Chain Reaction: Methods, Principles and Application. *International Journal of Biomedical Research*, Vol. 1, No. 5, pp.81-97
- Kakino, M., *et al.* 2010. Laxative Effects of Agarwood on Low Fiber Diet Induced Constipation in Rats. *Biomedical Central Complementary and Alternative Medicine*. Jepang : Gifu Pharmaceutical University.
- King, L. S., & Agre, P. (1996). Pathophysiology of the Aquaporin Water Channels. *Annual Review of Physiology*, 58(1), 619-648.
- Kon, R., Ikarashi, N., Hayakawa, A., *et al.* 2015. Morphine-Induced Constipation Develops With Increased Aquaporin-3 Expression in the Colon via Increased Serotonin Secretion. *Toxicological Sciences*, Vol. 145 No. 2, pp. 337–347.
- Kumar, L., Baker, C., Emmanuel, A. 2014. Opioid-Induced Constipation Pathophysiology, Clinical, Consequences, Management. *Gastroenterology Research and Practice*: 141737.
- Manabe, N., *et al.*, 2009. Effect of bisacodyl on ascending colon emptying and overall colonic transit in healthy volunteers. *Alimentary Pharmacology and Therapeutics*, Vol. 30 pp. 930-936.
- McQuaid, Kenneth R. 2013. Obat yang Digunakan dalam Terapi Penyakit Saluran Cerna. Dalam B.G. Katzung, *Farmakologi Dasar & Klinik edisi 12*. Diterjemahkan oleh Brahm U. Pendit. Jakarta : Penerbit buku Kedokteran EGC. Hal 1240-1242.
- Mori, T., Shibasaki, Y., Matsumoto, K., Shibasaki, M., Hasegawa, M., Wang, E., Suzuki, T. (2013). Mechanisms That Underlie μ -Opioid Receptor Agonist-Induced Constipation: Differential Involvement of μ -Opioid Receptor Sites and Responsible Regions. *Journal of Pharmacology and Experimental Therapeutics*, 347(1), 91–99. doi:10.1124/jpet.113.204313

- National Institute of Diabetes and Digestive and Kidney Disease. 2013. National Digestive Disease Information Clearinghouse : Constipation. *NIH Publication* No. 13–2754.
- NHS. 2018. Primary Care Constipation Guidelines. *Lanachire Medicines Management Group*.
- Ross, R., Gabra, B.H. Dewey, W.L., Akbarali, H.I. 2008. Morphine Tolerance in the Mouse Ileum and Colon. *J Pharmacol Exp Ther*, Vol. 327 No. 2, pp. 561-572
- Rumman, A., Gallinger, Z. R., & Liu, L. W. C. 2016. Opioid induced constipation in cancer patients: pathophysiology, diagnosis and treatment. *Expert Review of Quality of life in Cancer Care*. 1(1), 25-35
- Schumacher, P.M., Basbaum, P.A., & Way, M.W., 2013. Analgesik Opioid dan Antagonisnya. Dalam B.G. Katzung, *Farmakologi Dasar & Klinik edisi 12*. Diterjemahkan oleh Brahm U. Pendit. Jakarta: Penerbit buku Kedokteran EGC. Hal 609-629
- Shengtao Liao^a, Li Gan^b, Lin Lv^a, Zhechuan Mei. 2019. The regulatory roles of aquaporins in the digestive system. *Genes & Diseases Journal*. Journal homepage: <http://ees.elsevier.com/gendis/default.asp>
- Siswandono, dan Bambang Soekarjo. 2000. *Kimia Medisinal Edisi II*. Surabaya : Airlangga University Press. Hal 283-287
- Suo, H., Zhao, X., & Qian, Y., 2014. Therapeutic Effect of Activated Carbon Induced Constipation Mice with Lactobacillus fermentum Suo on Treatment. *International Journal of Molecular Sciences*, pp. 21875-21895

- Susan. 2019. The Anatomy of the Large Intestine. *Lower Gastrointestinal Tract Surgery* : Vol.1, Laparoscopic procedures, pp. 27-89
- Thi, M.M., Spray, D.C. and Hanani, M., 2008. Aquaporin 4 water channels in enteric neurons. *Journal of neuroscience research*, 86(2), pp.448-456
- Tuteja, A. K., Biskupiak, J., Stoddard, G. J., & Lipman, A. G. 2010. Opioid-induced bowel disorders and narcotic bowel syndrome in patients with chronic non-cancer pain. *Neurogastroenterology & Motility*, 22(4), 424–e96
- Villars, P., Dodd, M., West, C., et al. 2007. Differences in the prevalence and severity of side effects based on type of analgesic prescription in patients with chronic cancer pain. *J Pain Symptom Manag*, Vol. 33 No. 1, pp. 67–77
- Widihadiningtyas, M., 2015. Studi Perbandingan Efektivitas Penggunaan Laktulosa dan Bisakodil pada Konstipasi yang Diinduksi Morfin. *Skripsi*.
Surabaya: Fakultas Farmasi Universitas Airlangga.
- WHO. 2015. Paliative Care : Symptoms Management and End-of-Life Care. *Integrated Management of Adolescent and Adult Illness*, pp. 1-26
- Yusuf, Z.K., 2010. Polymerase Chain Reaction (PCR). *Saintek*, Vol. 5 No. 6,
hal. 1-6.
- Zainuddin, M., 2014. *Metodologi Penelitian Kefarmasian dan Kesehatan. Edisi ke-2*, Surabaya: Airlangga University Press, hal. 99-120.
- Zhu, C., Chen, Z., & Jiang, Z. 2016. Expression, Distribution and Role of Aquaporin Water Channels in Human and Animal Stomach and Intestines. *International Journal of Molecular Sciences*, 17(9), 1399