

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Berdasarkan hasil penelitian dari 4 jurnal terkait efektivitas laktulosa pada pasien sirosis hati disertai ensefalopati hepatis, dapat disimpulkan bahwa:

1. Penggunaan laktulosa dosis 20-30 g p.o/NGT atau 200 g rektal dalam 24 jam efektif menurunkan *grade* keparahan HE pada skor HESA.
2. Laktulosa dengan dosis 20-30 g p.o/NGT atau 200 g rektal dalam 24 jam memberikan efek samping mual namun tidak signifikan.

5.2 Saran

1. Perlu dilakukan penelitian lebih lanjut mengenai kecepatan efek laktulosa terhadap skor HESA dibandingkan dengan PEG atau terapi lainnya.
2. Perlu dilaksanakan kajian pustaka dengan memperluas database yang digunakan sehingga jurnal ilmiah yang digunakan dapat semakin banyak untuk mendapatkan kesimpulan yang lebih objektif mengenai efektivitas laktulosa dibandingkan terapi lainnya.

DAFTAR PUSTAKA

- Adnan dan Lolita. 2020, Analisis Efektivitas Penggunaan Antibiotika pada Pasien Sirosis Hepatis dengan Komplikasi Spontaneous Bacterial Peritonitis di Salah Satu Rumah Sakit di Yogyakarta, *Jurnal Insan Farmasi Indonesia*, **3(1)**: 1-8.
- Aithal, P.G., Palaniyappan, N., China, L., Harmala, S., Macken, L., Ryan, M.J., Wilkes, A.E., Moore, K., Leithead, A.J., Hayes, C.P., O'Brien, J.A. and Verma, S. 2021, Guidelines on the management of ascites in cirrhosis, *Guidelines*, **70(9)**: 11-13.
- Ardiana, I.W.S. dan Mariadi, I.K. 2019, Hubungan Antara Klasifikasi Child-Torcoffe-Pugh dengan Derajat Varises Esofagus pada Pasien Sirosis Hati di Rumah Sakit Umum Pusat Sanglah, *Jurnal Medika Udayana*, **8(11)**: 1-8.
- Budhiarta, D.M.F. 2017, Penatalaksaan dan Edukasi pasien Sirosis Hati dengan Varises Esofagus di RSUP Sanglah Denpasar tahun 2014. *Intisari Sains Medis*, **8(1)**: 19-23.
- Chen, G., Cheung, R. and Tom, J.W. 2017, Hepatitis: Sedation and Anesthesia Implications. *American Dental Society of Anesthesiology*, 64: 106-118.
- Cordoba, J. 2011, New assessment of hepatic encephalopathy, *Journal of Hepatology*, 54 : 1030–1040.
- Daniella, D. dan Kristianti, M.O. 2018. Diagnosis dan Tatalaksana Non-Cirrhotic Portal Hypertension, *CKD-271*, **45(12)**: 1-3.
- Dellatore, P., Cheung, M., Mahpour, N.Y., Tawardros, A. And Rustgi., V.K. 2020, Clinical Manifestations of Hepatic Encephalopathy. *Article In Press*.
- Dipiro, J.T., Yee, G. C., Haines, L., Nolin, T. D., and Ellingrod, V. 2020, ‘Portal Hypertension and Cirrhosis’. In : Sease, J.M. and Wilder, A.G. *Pharmacotherapy A Pathophysiologic Approach*, 11 th ed., McGraw Hill., United States.
- Elvira, D. Diagnosis dan Tatalaksana Hepatopulmonary Syndrome, *MKA*, **38(1)**: 57-65.
- Gluud, L.L., Dam, G., Les, I., Marchesini, G., Borre, M., Aagaard, M.K. dan Vilstrup, H. 2017, Branched-chain Amino Acids for People

- with Hepatic Encephalopathy, *Cochrane Database of Systematic Reviews*, **5(5)**: 1-67.
- Guyton, A.C., and Hall, J.E. 2016, ‘The Liver as Organ, in : Guyton,A.C., and Hall, J.E. *Textbook of Medical Physiology*, 13 th ed., Elsevier Saunders Inc., Philadelphia, pp. 322-325.
- Gunarathne, L.S., Rajapaksha, H., Shackel, N., Angus., P.W. and Herath, C.B. 2020, Cirrhotic portal hypertension: From pathophysiology to novel therapeutics, *World J Gastroenterol*, **26(40)**: 6111-6140.
- Hadjihambi, A., Arias, N., Sheikh, M. and Jalan, R. 2018. Hepatic encephalopathy : a critical current review, *Hepatol Int*, **12(1)**: 136-147.
- Hasan, I dan Araminta, A.P. 2014. *Ensefalopati Hepatik: Apa, Mengapa dan Bagaimana?*, Medicinus, Fakultas Kedokteran Universitas Indonesia/RSUPN Cipto Mangunkusumo, Tangerang.
- Kornerup, L.S., Gluud, L.L., Vilstrup, H. And Dam, G. 2018, Update on the Therapeutic Management of Hepatic Encephalopathy, *Current Gastroenterol Reports*, **20(21)**: 1-6.
- Leise, M.D., Poterucha, J.J., Kamath, P.S. and Kim, W.R. 2014, Management of Hepatic Encephalopathy in the Hospital, *Mayo Clin Proc*, **89(2)**: 241-253.
- Lovena, A., Miro, S. Dan Efrida. 2017, Karakteristik Pasien Sirosis Hepatis di RSUP Dr. M. Djamil Padang, *Jurnal Kesehatan Andalas*, **6(1)**: 5-12.
- Maghfirah, D., Abubakar, A. dan Yusuf, F. Penatalaksanaan Asites pada Sirosis Hati. *Jurnal Kedokteran Nanggroe Medika*, **1(3)**: 47-58.
- Montagnese, S., Russo, F.P., Amodio, P., Burra, P., Gasbarrini, A., Loguerio, C., Marchesini, G., Merli, M., Ponziani, F.R., Riggio, O. and Scarpignato, C. 2018, Hepatic encephalopathy 2018: A clinical practice guideline by the Italian Association for the Study of the Liver (AISF). Editrice Gastroenterologica Italiana. Elsevier.
- Naderian, M., Akbari, H., Saeedi, M. and Sohrabpour, A.A. Polyethylene Glycol and Lactulose versus Lactulose Alone in the Treatment of Hepatic Encephalopathy in Patients with Cirrhosis: A Non-Inferiority Randomized Controlled Trial, *Middle East Journal of Digestive Diseases*, **9(1)**: 12-19.

- Pratama, H. 2015, Sindrom Hepatorenal, *CKD-224*, **42(1)**: 30-34.
- Prio, P. dan Wibowo, A. 2017, Ensefalopati Hepatik pada Pasien Sirosis Hepatik, *J Medula Unila*, **7(2)**: 90-94.
- Rahimi, R.S., Singal, A.G., Cuthbert, J.A. and Rockey, D.C. 2014, Lactulose vs Polyethylene Glycol 3350-Electrolyte Solution for Treatment of Overt Hepatic Encephalopathy: The HELP Randomized Clinical Trial, *JAMA Intern Med*, **174(11)**: 1727-1733.
- Raja, W., Jan, R., Sebastian., B., Mathai, S.K. and Ashfaq. 2019, To Compare The Effect of Polyethylene Glycol vs Lactulose in The Treatment of Overt Hepatic Encephalopathy. *International Journal of Advanced Research*, **7(4)**: 721-735.
- Shehata, H., Elfert, A., Abdin, A., Soliman, S., Elkhouly, R., Hawash, N. and Soliman, H. 2018, Randomized controlled trial of polyethylene glycol versus lactulose for the treatment of overt hepatic encephalopathy. *European Journal of Gastroenterology & Hepatology*, **30(12)**: 1476-1481.
- Surawheera, D., Sundaram, V. and Saab, S. 2016, Evaluation and Management of Hepatic Encephalopathy: Current Status and Future Directions, *Gut and Liver*, **10(4)**: 509-519.
- Sweetman, S. C. 2009, The 36th edition of Martindale: *The Complete Drug Reference*. London, England, UK: Pharmaceutical Press pp. 1738-1739.
- Xu, X. Y., Ding, H.G., Li, W.G., Jia, J.D., Wei, L., Duan, Z.P., Ling-Hu, N.Q., Zhuang, H., Chinese Society of Hepatology, Chinese Medical Association. 2019, Chinese guidelines on management of hepatic encephalopathy in cirrhosis, *World J Gastroenterol*, **25(36)**:5403-5422.