

## **BAB 6**

### **KESIMPULAN DAN SARAN**

#### **6.1 Kesimpulan**

Berdasarkan kegiatan Praktik Kerja Profesi Apoteker (PKPA) yang dilaksanakan di RSUD Bangil pada bulan April - Mei 2023, dapat disimpulkan bahwa:

- a) Pelayanan kefarmasian di RSUD Bangil telah sesuai dengan Peraturan Menteri Kesehatan Republik Indonesia Nomor 72 Tahun 2016 tentang Standar Pelayanan Kefarmasian di Rumah Sakit.
- b) Peran Apoteker tidak hanya berfokus pada pelaksanaan pelayanan kefarmasian secara klinis seperti KIE resep rawat jalan dan ranap inap serta visite, namun juga berperan dalam Komite Farmasi dan Terapi (KFT), Monitoring Efek Samping Obat (MESO), komite pengendalian infeksi (PPI), sterilisasi sentral (CSSD), dan produksi sediaan steril dan non steril.
- c) Mahasiswa dapat mempelajari berbagai aspek manajerial di berbagai unit pelayanan farmasi di RSUD Bangil yang meliputi pelayanan Rawat Jalan, Rawat Inap, IGD, Kamar Operasi, Hemodialisa, Unit Sterilisasi Pusat (CSSD), Unit Produksi, dan Gudang Farmasi.

#### **6.2 Saran**

Saran yang dapat diberikan untuk PKPA di RSUD Bangil adalah sebagai berikut,

- a) Perlu diberikan pengenalan di awal mengenai apoteker penanggung jawab di masing-masing bidang managerial dan klinis untuk mempermudah mahasiswa dalam melakukan koordinasi di masing-masing bidang tersebut.
- b) Perlu diberikan materi tersendiri terkait SIM Rumah Sakit, supaya mahasiswa dapat lebih memahami kegunaan dan alur SIM RS di setiap unit RSUD Bangil.
- c) Mahasiswa dapat diberikan kesempatan untuk melakukan KIE pada pasien rawat jalan maupun rawat inap terkait penggunaan obat yang diterima oleh pasien.

## DAFTAR PUSTAKA

- Aberg, J.A., Lacy,C.F, Armstrong, L.L, Goldman, M.P, and Lance, L.L., 2009, Drug Information Handbook, 17 edition, Lexi-Comp for the American Pharmacists Association.
- ACOG Practice Bulletin No. 202: Gestational Hypertension and Preeclampsia. *Obstet Gynecol.* 2019 Jan;133(1):1.
- AHFS. AHFS Drug Information, American Society of Health System Pharmacists. Bethesda: American Hospital Formulary Service; 2011.
- Amalia, A., & Tjiptaningrum, A. (2016). Diagnosis dan tatalaksana anemia defisiensi besi. *Jurnal Majority*, 5(5), 166-169.
- Amin, H., & Siddiqui, W. J. (2021). Cardiomegaly. In *StatPearls [internet]*. StatPearls Publishing.
- Amsterdam, E. A., Wenger, N. K., Brindis, R. G., Casey Jr, D. E., Ganiats, T. G., Holmes Jr, D. R., & Weintraub, W. S. (2014). 2014 AHA/ACC guideline for the management of patients with non-ST-elevation acute coronary syndromes: executive summary: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *Circulation*, 130(25), 2354-2394.
- Anderson, J. L., Adams, C. D., Antman, E. M., Bridges, C. R., Califf, R. M., Casey Jr, D. E., & Fesmire, F. M. (2013). ACC/AHA 2007 guidelines for the management of patients with unstable angina/non-ST-elevation myocardial infarction: a report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines. *Journal of the American College of Cardiology*, 50(7), e1-e157.
- Anekar AA, Hendrix JM, Cascella M. 2023. WHO Analgesic Ladder. [Updated 2023 Apr 23]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; Available from: <https://www.ncbi.nlm.nih.gov/books/NBK554435/>
- Braunwald, E. (2013). Unstable angina and non-ST elevation myocardial infarction: epidemiology, pathophysiology, and approach to management. *Circulation*, 108(20\_suppl\_1), III-18.
- Brayfield, A. 2014, Martindale The Complete Drug Reference Thirty-Eighth Edition, Pharmaceutical Press, London.
- British National Formulary, 2022, *British National Formulary 83th Edition*, London, Royal Pharmaceutical Society.

- Brunton LL, Dandan RH, Knollmann BC, 2018. Goodman and Gilman's The pharmacological basis of therapeutics. 13th Ed. New York: McGraw Hill; p. 355-85.
- Chaparro, C. M., & Suchdev, P. S. (2019). Anemia epidemiology, pathophysiology, and etiology in low-and middle-income countries. *Annals of the new York Academy of Sciences*, 1450(1), 15-31.
- Chuang, Y. C., Shaw, H. M., Chen, C. C., Pan, H. J., Lai, W. C., & Huang, H. L. (2014). Short-term glutamine supplementation decreases lung inflammation and the receptor for advanced glycation end-products expression in direct acute lung injury in mice. *BMC Pulmonary Medicine*, 14(1), 1-9.
- Clark, M. A. *et al.* 2012, Lippincott's Illustrated Reviews: Pharmacology, Baltimore: Wolters Kluwer.
- Crump, J. A. (2019). Progress in typhoid fever epidemiology. *Clinical Infectious Diseases*, 68(Supplement\_1), S4-S9.
- DeLoughery, T. G. (2014). Microcytic anemia. *New England Journal of Medicine*, 371(14), 1324-1331.
- Dewi, N. L. P. R. (2019). Hypertrophic Cardiomyopathy. *Cermin Dunia Kedokteran*, 46(12), 738-741.
- DiMarco JP, Gersh BJ, Opie LH. Antiarrhythmic drugs and strategy. In Opie Drug of the Heart(Sixth Edition). WB Saunders: Philadelphia, 2005;p.236-42.
- DiPiro, J. T. *et al.*, 2020. Pharmacotherapy A Pathophysiologic Approach. 11<sup>th</sup> edition McGraw-Hill Education Companies, Inggris.
- Farida, Y., Putri, V. W., Hanafi, M., & Herdianti, N. S. (2020). Profil Pasien dan Penggunaan Antibiotik pada Kasus Community-Acquired Pneumonia Rawat Inap di Rumah Sakit Akademik Wilayah Sukoharjo. *JPSCR: Journal of Pharmaceutical Science and Clinical Research*, 5(2), 151-164.
- Galán JE. *Salmonella Typhimurium* and inflammation: a pathogen-centric affair. *Nat Rev Microbiol*. 2021 Nov;19(11):716-725. doi: 10.1038/s41579-021-00561-4. Epub 2021 May 19. PMID: 34012042; PMCID: PMC9350856.
- Grieb P. 2014. Neuroprotective properties of citicoline: facts, doubts and unresolved issues. *CNS Drugs*. 28(3):185-93. doi: 10.1007/s40263-014-0144-8. PMID: 24504829; PMCID: PMC3933742.
- Grondman, I., Pirvu, A., Riza, A., Ioana, M., & Netea, M. G. (2020). Biomarkers of inflammation and the etiology of sepsis. *Biochemical Society Transactions*, 48(1), 1-14.

- Hartanto, D. (2021). Diagnosis dan Tatalaksana Demam Tifoid pada Dewasa. *Cermin Dunia Kedokteran*, 48(1), 5-7.
- Huri, M., Di Tommaso, M., Seravalli, V., 2023. Amniotic Fluid Disorders: From Prenatal Management to Neonatal Outcomes. *MDPI Children*, (10) 561, p. 1-15.
- Jarczak, D., Kluge, S., & Nierhaus, A. (2021). Sepsis—pathophysiology and therapeutic concepts. *Frontiers in medicine*, 8, 628302.
- Jasiecka A, Maślanka T, Jaroszewski JJ. Pharmacological characteristics of metamizole. *Pol J Vet Sci*. 2014;17(1):207-14. doi: 10.2478/pjvs-2014-0030. PMID: 24724493.
- Jung E, Romero R, Yeo L, Gomez-Lopez N, Chaemsathong P, Jaovisidha A, Gotsch F, Erez O., 2022. The etiology of preeclampsia, *Am J Obstet Gynecol*.
- Jung, B., Martinez, M., Claessens, Y. E., Darmon, M., Klouche, K., Lautrette, A., ... & Société Française de Médecine d'Urgence (SFMU). (2019). Diagnosis and management of metabolic acidosis: guidelines from a French expert panel. *Annals of intensive care*, 9, 1-17.
- Kementerian Kesehatan Republik Indonesia. 2018. Peraturan Menteri Kesehatan Republik Indonesia Nomor 47 Tahun 2018 Tentang Pelayanan Kegawatdaruratan. Jakarta, Kementerian Kesehatan Republik Indonesia.
- Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/MENKES/394/2019 Tentang Pedoman Nasional Pelayanan Kedokteran Tata Laksana Stroke.
- Keputusan Menteri Kesehatan Republik Indonesia Nomor HK.01.07/MENKES/675/2019 Tentang Pedoman Nasional Pelayanan Kedokteran Tata Laksana Sindroma Koroner Akut.
- Katzung BG, Masters SB, Trevor AJ, editor. *Basic and Clinical Pharmacology*. Ed 11. San Francisco: Lange, 2009
- Kudaravalli P, John S. 2022. Sucralfate. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; diakses pada 6 Juni 2023  
<https://www.ncbi.nlm.nih.gov/books/NBK551527/>
- Kusbaryanto. 2010. Peningkatan Mutu Rumah Sakit dengan Akreditas. *Mutiara Medika*. 10(1):86-80.
- Lee PM, Gerriets V. Nitrates. [Updated 2022 Jul 11]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from:  
<https://www.ncbi.nlm.nih.gov/books/NBK545149/>
- Libby, P. (2012). Myocardial infarction. *Circulation*, 125(7), 780-788.

- Lorenz-Guertin, J. M., Bambino, M. J., Das, S., Weintraub, S. T., and Jacob, T. C. 2019, Diazepam Accelerates GABAAR Synaptic Exchange and Alters Intracellular Trafficking, *Frontiers in Cellular Neuroscience*, **13**: 1-1.
- Menteri Kesehatan Republik Indonesia, 2017, Pedoman Nasional Pelayanan Kedokteran Tatalaksana Sepsis, Jakarta, Menteri Kesehatan Republik Indonesia.
- Menteri Kesehatan RI. 2022> Peraturan Menteri Kesehatan RI Nomor 8 Tahun 2022 tentang Perubahan Atas Peraturan Menteri Kesehatan Nomor 14 Tahun 2021 Tentang Standar Kegiatan Usaha dan Produk pada Penyelenggaraan Perizinan Berusaha Berbasis Risiko Sektor Kesehatan.
- Myrtha, R., 2015. Penatalaksanaan Tekanan Darah Pada Pre-eklampsia, *Cermin Dunia Kedokteran*, 42:(4), hal. 262-266
- Nelwan, R. H. H. (2012). Tata laksana terkini demam tifoid. *Continuing Medical Education*, 39(4), 247-250.
- Oldfield, C. J., Duhamel, T. A., & Dhalla, N. S. (2020). Mechanisms for the transition from physiological to pathological cardiac hypertrophy. *Canadian Journal of Physiology and Pharmacology*, 98(2), 74-84.
- Orelio, C. C., Heus, P., Kroese-van Dieren, J. J., Spijker, R., van Munster, B. C., & Hooft, L. (2021). Reducing Inappropriate Proton Pump Inhibitors Use for Stress Ulcer Prophylaxis in Hospitalized Patients: Systematic Review of De-Implementation Studies. *Journal of general internal medicine*, 36(7), 2065–2073.
- Peraturan Menteri Kesehatan Republik Indonesia. 2016. Permenkes RI No.72 Tahun 2016 Tentang Standar Pelayanan kefaramasian di Rumah Sakit.
- Peraturan Pemerintah 2021. Peraturan Pemerintah Nomor 47 Tahun 2021 Tentang Penyelenggaraan Bidang Perumahsakitan. *Pemerintah Republik Indonesia*.
- PERDOSSI, 2016. Panduan Praktik Klinis Neurologi, Perhimpunan Dokter Spesialis Saraf Indonesia.
- Perhimpunan Dokter Paru Indonesia, 2021, *Panduan Umum Praktik Klinis Penyakit Paru dan Pernapasan*, Jakarta, Perhimpunan Dokter Paru Indonesia
- PERKENI, 2021, Pedoman Pengelolaan Dislipidemia di Indonesia, Perkumpulan Endokrinologi Indonesia, Jakarta.
- PERKENI, 2021, Pengelolaan dan Pencegahan Diabetes Melitus Tipe 2 di Indonesia, Perkumpulan Endokrinologi Indonesia, Jakarta.
- PERKI, 2015, Panduan Praktik Klinis (PPK) dan Clinical Pathway (CP) Penyakit Jantung dan Pembuluh Darah, Perhimpunan Dokter Spesialis Kardiovaskular Indonesia

- PERKI, 2019, Panduan Evaluasi dan Tatalaksana Angina Pektoris Stabil, Perhimpunan Dokter Spesialis Kardiovaskular Indonesia
- Perkumpulan Obstetri Ginekologi (POGI) & Himpunan Kedokteran Feto Maternal (HKFM).
2016. Pedoman Nasional Pelayanan Kedokteran (PNPK): Tata Laksana Komplikasi Kehamilan. Indonesia: *POGI & HKFM*, 1-17
- Ray, B., & Raha, A. (2021). Typhoid and enteric fevers in intensive care unit. Indian Journal of Critical Care Medicine: Peer-reviewed, Official Publication of Indian Society of Critical Care Medicine, 25(Suppl 2), S144.
- Sanoski, V. 2015, *Davis's Drug Guides for Nurses*, 14<sup>th</sup> ed, FA Davis Company, Philadelphia.
- Sarna, A., Porwal, A., Ramesh, S., Agrawal, P. K., Acharya, R., Johnston, R., ... & Saxena, R. (2020). Characterisation of the types of anaemia prevalent among children and adolescents aged 1–19 years in India: a population-based study. *The Lancet Child & Adolescent Health*, 4(7), 515-525.
- Shon NN, Yarbrough T, Shah AD. 2022. Aluminum Hydroxide. StatPearls Publishing; diakses pada 6 Juni 2023 <https://www.ncbi.nlm.nih.gov/books/NBK546669/>
- Song, S., & Li, G. (2018). The cardiomyopathy of iron deficiency anaemia. *CARDIOLOGY*.
- Stern, A., Skalsky, K., Avni, T., Carrara, E., Leibovici, L., & Paul, M. (2017). Corticosteroids for pneumonia. *The Cochrane database of systematic reviews*, 12(12).
- Sujana, K. S., & Maulida, M. (2021). Efektivitas N-Acetylsistein pada Pasien COVID 19. *Cermin Dunia Kedokteran*, 48(7), 416-418.
- Sweetman, S. C., 2014, Martindale 38<sup>th</sup> The Complete Drug Reference, Chicago: Pharmaceutical Press
- Tantry, U. S., Kereiakes, D. J., & Gurbel, P. A. (2011). Clopidogrel and Proton Pump Inhibitors. *JACC: Cardiovascular Interventions*, 4(4), 365–380.
- Thygesen, K., Alpert, J. S., Jaffe, A. S., Chaitman, B. R., Bax, J. J., Morrow, D. A., & White, H. D. (2018). Fourth universal definition of myocardial infarction (2018). *Journal of the American College of Cardiology*, 72(18), 2231-2264.
- Ticona, J. H., Zaccone, V. M., & McFarlane, I. M. (2021). Community-acquired pneumonia: A focused review. *Am J Med Case Rep*, 9(1), 45-52.
- Tinawi, M. (2021). Pathophysiology, Evaluation and Management of Metabolic Acidosis. *Archives of Clinical and Biomedical Research*, 5(1), 85-109.
- Torloni MR, Siaulys M, Riera R, Cabrera Martimbiano AL, Leite Pacheco R, et al., 2021. Timing of oxytocin administration to prevent post-partum hemorrhage in women delivered by cesarean section: A systematic review and metanalysis. *PLOS ONE*, 16(6).

- Wu Y, Li F, Wang Y, Hu T, Gao H. 2021. Standard-Dose Atorvastatin Treatment in Patients With Symptomatic Middle Cerebral Artery Atherosclerotic Stenosis: A Vessel Wall Magnetic Resonance Imaging Study. *Front Neurol.* 12:693397. doi: 10.3389/fneur.2021.693397. PMID: 34956036; PMCID: PMC8693378.
- Yasir, M., Goyal, A., and Sonthalia, S. (2022). Corticosteroid Adverse Effects. *In StatPearls.* StatPearls Publishing.
- Yuan, Meixia & Wang, Beiyun & Tan, Shijin. 2018. Mecobalamin and early functional outcomes of ischemic stroke patients with H-type hypertension. *Revista da Associação Médica Brasileira.* 64. 428-432. 10.1590/1806-9282.64.05.428.
- Yuan, Meixia & Wang, Beiyun & Tan, Shijin. 2018. Mecobalamin and early functional outcomes of ischemic stroke patients with H-type hypertension. *Revista da Associação Médica Brasileira.* 64. 428-432. 10.1590/1806-9282.64.05.428.
- Zhang, Ying., et al, 2007, Mechanism of Antibiotic Resistance in The Microbial World, *Clin Pharmacol Ther;*82:595-600.
- Zhao Y, et al. 2017. Clopidogrel loading dose versus maintenance dose to treat patients with acute ischaemic stroke in China (CLASS-China): results from a prospective double-blind randomised clinical trial. *Stroke Vasc Neurol.* 2(3):118-123. doi: 10.1136/svn-2017-000072. PMID: 28989802; PMCID: PMC5628375.