

DAFTAR PUSTAKA

1. Krahenbuhl-Melcher A, Schlienger R, Lampert M, et al. Drug-Related Problems in Hospitals. *Drug Safety* 2007.
2. World Health Organization. Antibiotic Resistance. 2020. Available from: <https://www.who.int/news-room/fact-sheets/detail/antibiotic-resistance> [Last accessed: 1/12/2023].
3. Ihsan S. Analisis Rasionalitas Antibiotik Di Fasilitas Pelayanan Kesehatan. Deepublish Publisher: Yogyakarta; 2021.
4. Gyssens IC. Audits for monitoring the quality of antimicrobial prescriptions. *Antibiot Policies Theory Practice* 2005;197–226.
5. Katz SE, Spencer H, Zhang M, et al. Impact of the COVID-19 Pandemic on Infectious Diagnoses and Antibiotic Use in Pediatric Ambulatory Practices. *Journal of the Pediatric Infectious Diseases Soc* 2021;10(1):62–64.
6. Friedli O, Gasser M, Cusini A, et al. Impact of the COVID-19 Pandemic on Inpatient Antibiotic Consumption in Switzerland. *Antibiotics (Basel, Switzerland)* 2022;11(6).
7. Subramanya SH, Czyż DM, Acharya KP, et al. The potential impact of the COVID-19 pandemic on antimicrobial resistance and antibiotic stewardship. *Virusdisease* 2021;32(2):330–337.
8. Goncalves Mendes Neto A, Lo KB, Wattoo A, et al. Bacterial infections and patterns of antibiotic use in patients with COVID-19. *Journal of Medical Virology* 2021;93(3):1489–1495.
9. Segala FV, Bavaro DF, Di Gennaro F, et al. Impact of SARS-CoV-2 Epidemic on Antimicrobial Resistance: A Literature Review. *Viruses* 2021;13(11).
10. Putra DE, Pramudo SG, Arkhaesi N, et al. Antibiotic Prescribing Patterns During The Covid-19 Pandemic (A Case Study At Diponegoro National Hospital). *Medical Hospitalia : Journal of Clinical Medicine* 2021;8(2):194–199.
11. Astuti D, Nurhayati Y. Evaluasi Kualitatif Penggunaan Antibiotik Pada Pasien Anak Dengan Metode Gyssens Di Rsud Karawang. 2019;4(1):297–

302.

12. Langford BJ, So M, Raybardhan S, et al. Bacterial co-infection and secondary infection in patients with COVID-19: a living rapid review and meta-analysis. *Clinical Microbiology and Infection* 2020;26(12):1622.
13. Karami Z, Knoop BT, Dofferhoff ASM, et al. Few bacterial co-infections but frequent empiric antibiotic use in the early phase of hospitalized patients with COVID-19: results from a multicentre retrospective cohort study in The Netherlands. *Infectious Diseases (Auckland)* 2021;53(2):102–110.
14. Rawson TM, Zhu N, Ranganathan N, et al. Bacterial and fungal co-infection in individuals with coronavirus: A rapid review to support COVID-19 antimicrobial prescribing. *Clinical Infectious Disease : an official publication of the Infectious Diseases Society of America* 71(9), hal 2459–2468 2020;2459–2468.
15. Knight BD, Shurgold J, Smith G, et al. The impact of COVID-19 on community antibiotic use in Canada: an ecological study. *Clinical Microbiology Infection* 2022;28(3):426–432.
16. Desai K, Arora P, Ghanekar S, et al. Antibiotic prescribing trends in the US during the first 11 months of the COVID-19 pandemic. *Research in Social Administrative Pharmacy* 2022;18(10):3855–3859.
17. Anggraini A. *Kajian Penggunaan Antibiotik Pada Pasien COVID-19 Disertai Pneumonia Di Instalasi Rawat Inap Rumah Sakit Akademik Universitas Gadjah Mada. Universitas Gadjah Mada; 2023.*
18. Katzung BG, Masters SB, Trevor AJ. *Farmakologi Dasar & Klinik Vol 2. Diterjemahkan Oleh Ricky Soeharsono. 2012.*
19. Muntasir, Susanti Abdulkadir W, Ifriany Harun A, et al. *Antibiotik Dan Resistensi Antibiotik. Rizmedia Pustaka Indonesia; 2022.*
20. *Permenkes RI. Program Pengendalian Resistensi Antimikroba Di Rumah Sakit. 2015.*
21. Saputri LO, Octora M, Ferdian A, et al. Program Pengendalian Resistensi Antibiotik di Tengah Pandemi COVID-19 Bagi Tenaga Kesehatan di Indonesia. *Jurnal Abdi Insani* 2022;9(4).

22. Lisni I, Mujianti D, Anggriani A. Profil Antibiotik Untuk Pengobatan Pasien Covid-19 Di Suatu Rumah Sakit Di Bandung. *Jurnal Ilmu Farmako Bahari* 2021;12(2):99–106.
23. Rachmawati S, Fazeri RL, Norcahyanti I. Gambaran Penggunaan Antibiotik di Bangsal Penyakit Dalam RSUD Bangil Kabupaten Pasuruan. *JPSCR: Journal of Pharmaceutical Science and Clinical Research* 2020;5(1):12.
24. Westendorp WF, Vermeij J-D, Vermeij F, et al. Antibiotic Therapy For Preventing Infections In Patients With Acute Stroke. *Cochrane Database of Systematic Reviews* 2012; doi: 10.1002/14651858.CD008530.PUB2.
25. Masyrifah M, Andrajati R, Yudhorini LT. Qualitative Evaluation of Antibiotics Use with Gyssens Method in Sepsis Patients at Fatmawati Central General Hospital Jakarta. *Pharmaceutical Science and Research* 2022;9(2).
26. Risnanda M. Evaluasi Penggunaan Antibiotik dengan Metode Gyssens Terhadap Pasien Sepsis di ICU RSUD Ulin Banjarmasin Periode Januari-Maret 2021. 2021.
27. Anonymous. Pasien COVID-19 Rawat Inap Tahun 2020-2021. Instalasi Rekam Medis RSUP Dr. M. Djamil Padang: Padang; 2023.
28. Permenkes RI. Pedoman Penggunaan Antibiotik. Permenkes RI 2021;1–97.
29. Syarif A, Gayatri A, Estuningtyas A, et al. *Farmakologi Dan Terapi*. 6th ed. (Gan Gunawan S, Setiabudy R, Nafrialdi, et al. eds). Fakultas Kedokteran Universitas Indonesia; 2016.
30. Van Der Meer JWM, Gyssens IC. Quality of antimicrobial drug prescription in hospital. *Clinical Microbiology Infection* 2001;7 Suppl 6(SUPPL. 6):12–15.
31. Etebu E, Arikekpar I. Antibiotics: Classification and mechanisms of action with emphasis on molecular perspectives. *International Journal of Applied Microbiology and Biotechnology Research* 2016;91–99.
32. Pham TDM, Ziora ZM, Blaskovich MAT. Quinolone antibiotics. *R Soc Chem* 2019;10(10):1719–1739.
33. Efrilia D. Evaluasi Kualitatif Penggunaan Antibiotik Pada Pasien Di Ruang

- Pediatric Intensive Care Unit (PICU) Rumah Sakit Umum Daerah Dr. H. Abdul Moeloek Pemerintah Provinsi Lampung Periode Januari 2021-Juli 2022 Berdasarkan Metode Gyssens. 2022.
34. Foti C, Piperno A, Scala A, et al. Oxazolidinone antibiotics: Chemical, biological and analytical aspects. *Molecules* 2021;26(14).
 35. Vieceli T, Rello J. Optimization of antimicrobial prescription in the hospital. *European Journal of Internal Medicine* 2022;106.
 36. Pauwels I, Versporten A, Vermeulen H, et al. Assessing the impact of the Global Point Prevalence Survey of Antimicrobial Consumption and Resistance (Global-PPS) on hospital antimicrobial stewardship programmes: results of a worldwide survey. *Antimicrobial Resistance and Infection Control* 2021;10(1).
 37. Lilyawati SA, Fitriani N, Prasetya F. Kajian Profil Pengobatan Pada Pasien Covid-19 Di Rumah Sakit X Kota Samarinda Tahun 2020. In: *Mulawarman Pharmaceuticals Conferences 2023*; pp. 135–138.
 38. Rioza BU. Dampak Pandemi Covid-19 Terhadap Pola Penggunaan Antibiotik Pada Pasien Rawat Inap Anak Di RSUP Dr. Mohammad Hosein Palembang. Universitas Sriwijaya; 2021.
 39. Meriyani H, Sanjaya DA, Sutariani NW, et al. Antibiotic Use and Resistance at Intensive Care Unit of a Regional Public Hospital in Bali: A 3-Year Ecological Study. *Indonesian Journal of Clinical Pharmacy* 2021;10(3):180–189.
 40. Henig O, Kehat O, Meijer SE, et al. Antibiotic Use during the COVID-19 Pandemic in a Tertiary Hospital with an Ongoing Antibiotic Stewardship Program. *Antibiotics* 2021;10(9).
 41. Paula HSC, Santiago SB, Araújo LA, et al. An overview on the current available treatment for COVID-19 and the impact of antibiotic administration during the pandemic. *Brazilian Journal of Medical and Biological Research* 2021;55; doi: 431X2021E11631.
 42. Yang Y-T, Zhong X, Fahmi A, et al. The impact of the COVID-19 pandemic on the treatment of common infections in primary care and the change to antibiotic prescribing in England. *Antimicrobial Resistance*

- Infection Control 2023;12.
43. B. Gillies M, P. Burgner D, Ivancic L, et al. Changes in antibiotic prescribing following COVID-19 restrictions: Lessons for post-pandemic antibiotic stewardship. *British Journal of Clinical Pharmacology* 2021;88(3):1143–1151.
 44. Mousavi SH, Roien R, Ramozi AA. Evaluation of antibiotic prescribing in Kabul, Afghanistan. *European Journal of Internal Medicine* 2018;55:e13–e15.
 45. Adzhana N, Rizke Ciptaningtyas V, Sri Lestari E, et al. Kualitas Penggunaan Antibiotik Pada Kasus Obstetri-Ginekologi Sebelum Dan Sesudah Kampanye Penggunaan Antibiotik Secara Bijak di RSND. *Jurnal Kedokteran Diponegoro (Diponegoro Med Journal)* 2019;8(4):1296–1305.
 46. Hadi U, Duerink DO, Lestari ES, et al. Audit of antibiotic prescribing in two governmental teaching hospitals in Indonesia. *Clinical Microbiology Infection* 2008;14(7):698–707.
 47. Ermawati E, Khambri D, Almasdy D. The Difference of Using Antibiotics Before and After Antimicrobial Resistance Control Program (PPRA) at RSUP Dr. M. Djamil Padang. *Andalas Obstetrics Gynecology Journal* 2021;5(1):29–42.
 48. Sastroasmoro S. *Dasar-Dasar Metodologi Penelitian Klinis*. 4th ed. Sagung Seto: Jakarta; 2011.
 49. Fadrian. *Profile of the Quality of Antibiotic Usage Based on the Gyssens Algorithm: A Cohort Retrospective Study in a Tertiary Hospital in Indonesia*. 2022.
 50. World Health Organization. WHO Director-General’s Opening Remarks at the Media Briefing on COVID-19 - 11 March 2020. 2020. Available from: <https://www.who.int/director-general/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---11-march-2020> [Last accessed: 5/1/2024].
 51. World Health Organization. WHO Director-General’s Opening Remarks at the Media Briefing – 5 May 2023. 2023. Available from: <https://www.who.int/director-general/speeches/detail/who-director-general->

s-opening-remarks-at-the-media-briefing---5-may-2023 [Last accessed: 11/12/2023].

52. D. Susanto A, Widysanto A, C. Putra A, et al. Panduan Umum Praktik Klinis Penyakit Paru Dan Pernapasan. (Alvin Kosasih, Yusup Subagio Sutanto ADS. ed). Perhimpunan Dokter Paru Indonesia: Jakarta; 2021.
53. Kemenkes. Pedoman Nasional Pelayanan Kedokteran Tata Laksana Pneumonia Dewasa. Kementerian Kesehatan RI 2021;1–85.
54. Yonata A. Pengaruh Komorbid Terhadap Terjadinya Bakterimia MDR Gram Negatif Pada Pasien Rawat Inap. *Jurnal Kedokteran Unila* 2018;1(2):211–214.
55. Alkautsar A. Hubungan Penyakit Komorbid Dengan Tingkat Keparahan Pasien Covid-19. *Jurnal Medika Utama* 2021;03(01):1488–94.
56. Arep N, Negara K, Agung A, et al. Hubungan Antara Komorbiditas Dengan Derajat Keparahan Infeksi Covid-19 Di Rumah Sakit Sanjiwani Gianyar. *Aesculapius Medical Journal* 2022;2(1):13–20.
57. Mahendra E, Tosepu R, Asriati. Hubungan Komorbid Dengan Keparahan Covid-19 Di Rumah Sakit Darurat Covid-19 Wisma Atlet Kemayoran Jakarta Pusat Tahun 2022. *Jurnal Ilmiah Olahraga* 2022;289–300.
58. M. Rani D, N. Widyaningrum B, Hasanah N. Analisis Trend Jumlah Kunjungan Pasien Saat Pandemi Dengan Metode Trend Kuadrat Terkecil Di Rumah Sakit Panti Wilasa Dr. Cipto Semarang. *Jurnal Rekam Medis dan Informasi Kesehatan Indonesia (Jurmiki)* 2021;01(01):26–30.
59. Dewi AK, Sitorus MF. Evaluasi Penggunaan Antibiotik Pasien Covid-19 Menggunakan Metoda Gyssens Dan Atc/Ddd Di Rsau Dr. M. Salamun Kota Bandung. *Medical Sains: Jurnal Ilmiah Kefarmasian* 2023;8(2):713–722; doi: 10.37874/ms.v8i2.613.
60. Evano Putra D, Retnoningrum D, Arkhaesi N, et al. Pola Pemberian Antibiotik di Era Pandemi Covid-19 (Studi Kasus di Rumah Sakit Nasional Diponegoro). *Journal of Clinical Medicine* 2021;8(2):194–199.
61. Sendysagita C. Analisis Trend Penggunaan Antibiotik Pada Pasien Rawat Inap Di Rumah Sakit PKU Muhammadiyah Yogyakarta Selama Periode Tahun 2013-2017. Universitas Islam Indonesia; 2018.

62. Jawetz, Adelberg, Melnick. *Medical Microbiology*. 25th ed. EGC: Jakarta; 2013.
63. Oktianti D, H. Furdianti N, F. Fadhilah U, et al. Evaluasi Ketepatan Pemilihan Antibiotik Seftriakson Pada Pasien Rawat Inap Di RSI Sultan Agung Semarang. *Jurnal Ilmiah Kefarmasian* 2019;01(01):38–44.
64. Podder V, M. Sadiq N. Levofloksasin. 2022. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK545180/> [Last accessed: 4/4/2024].
65. Yusuf M, Auliah N, Sarambu HE. Gyssens Pada Pasien Pneumonia Di Rumah Sakit Bhayangkara Kupang Periode Evaluation of Antibiotic Usage With Gyssens Method in Pneumonia Patients in Bhayangkara Hospital Kupang Period July – December 2019. *Jurnal Riset Kefarmasian Indonesia* 2022;4(2):215–229.
66. Sukriya, A.Manggau M, Djaharuddin I. Evaluasi Penggunaan Terapi Antibiotik Empiris Terhadap Luaran Klinis Pasien Pneumonia Komunitas Rawat Inap. 2022;26(04):19–25.
67. Herwanto H, Kusumapradja R, Kadir A. the COVID-19 pandemic and the performance of hospital health workers. *Tarumanagara Medical Journal* 2021;3(2):336–345.
68. Heriziana H, Rosalina S. Analisis Persepsi Stres Kerja Tenaga Kesehatan Di Masa Pandemi Covid-19 Di Rumah Sakit “Ex” Di Sumatera Selatan Tahun 2021. *PREPOTIF J Kesehat Masy* 2022;6(1):775–779.
69. Pappa S, Ntella V, Giannakas T, et al. Prevalence of depression, anxiety, and insomnia among healthcare workers during the COVID-19 pandemic: A systematic review and meta-analysis. *Brain, Behavior, and Immunity* 2020;88(May):901–907.
70. Hu D, Kong Y, Li W, et al. Frontline nurses’ burnout, anxiety, depression, and fear statuses and their associated factors during the COVID-19 outbreak in Wuhan, China: A large-scale cross-sectional study. *EClinicalMedicine* 2020;24.
71. Jampani M, J. Chandy S. Increased antimicrobial use during COVID-19: The risk of advancing the threat of antimicrobial resistance. *Health Science*

Reports 2021;4(4):459.

72. Cong W, Stuart B, Alhusein N, et al. Antibiotic Use and Bacterial Infection in COVID-19 Patients in the Second Phase of the SARS-CoV-2 Pandemic: A Scoping Review. *Antibiotics* 2022;11(8).

