

## DAFTAR PUSTAKA

- Ahmad, Qaedi, Tia Sabrina, Masayu Farah Diba, Ella Amalia, and Ramadhan Ananditia Putra. (2022). "Gambaran Infeksi Klebsiella Pneumoniae Penghasil Extended-Spectrum B-Lactamase (ESBL) Pada Pasien COVID-19 Di RSUP DR. MOHAMMAD HOESIN Periode Januari 2021-Juni 2021." *Jambi Medical Journal : Jurnal Kedokteran dan Kesehatan* 10(2 SE-Articles): 186–98. <https://online-journal.unja.ac.id/kedokteran/article/view/19220>.
- Barnes V, Lucien, Douglas M Heithoff, Scott P Mahan, John K House, and Michael J Mahan. (2023). "Antimicrobial Susceptibility Testing to Evaluate Minimum Inhibitory Concentration Values of Clinically Relevant Antibiotics." *STAR Protocols* 4(3). doi:10.1016/j.xpro.2023.102512.
- Baweja, Renu, Mitali Singh, Sudhanshu Shukla, Rangnath Ravi, Razi Ahmad, and Abhijeet Mishra. (2025). "Antimicrobial Resistance: Mechanism, Causes, Prevention and Societal Impact." *The Microbe* 9: 100617. doi:<https://doi.org/10.1016/j.microb.2025.100617>.
- Bryer, Margot, Erik Johansson, Hanna Ryden, John Walles, and Magnus Paulsson. (2025). "Sputum Culture Yields after Antibiotic Therapy – a Retrospective Cohort Study." *CMI Communications* 2(3): 105100. doi:<https://doi.org/10.1016/j.cmicom.2025.105100>.
- Burhan, Erlina, Isbaniah Fathiyah, Faiza Hatim, Djaharuddin Irawaty, Soedarsono, Harsini, Heidy Agustin, et al. (2022). *Pneumonia Komunitas, Pedoman Diagnosis Dan Penatalaksanaan Di Indonesia*. Revisi 2. Jakarta: Perhimpunan Dokter Paru Indonesia.
- Center for Disease control, CDC. (2024). "Antimicrobial Resistance Threats in the United States, 2021-2022." *Antimicrobial Resistance*. <https://www.cdc.gov/antimicrobial-resistance/data-research/threats/update-2022.html> (December 10, 2026).
- Clinical and Laboratory Standards institute, CLSI. (2024). 44 NV-5 BT-Performance Standards for Antimicrobial Susceptibility Testing CLSI supplement M100 *Performance Standards for Antimicrobial Susceptibility Testing*. ed. 34th ed. Wayne, PA, USA: Clinical and Laboratory Standards Institute.
- European Committee on Antimicrobial Susceptibility Testing, EUCAST. (2026). *Breakpoint Tables for Interpretation of MICs and Zone Diameters*. Version 16. ed. EUCAST. European Committee on Antimicrobial Susceptibility Testing. <https://www.eucast.org>.
- Gajic, Ina, Jovana Kabic, Dusan Kekic, Milos Jovicevic, Marina Milenkovic, Dragana Mitic Culafic, Anika Trudic, Lazar Ranin, and Natasa Opavski. (2022). "Antimicrobial Susceptibility Testing: A Comprehensive Review of Currently Used Methods." *Antibiotics (Basel, Switzerland)* 11(4). doi:10.3390/antibiotics11040427.

- Hogea, Elena, Alexandra-Cristina Muntean, Oana Plavitu, Adelina Fratutu, Iulia Georgiana Bogdan, Felix Bratosin, Cristian-Iulian Oancea, et al. (2024). "Six-Year Epidemiologic Analysis of Antibiotic Resistance Patterns of *Klebsiella Pneumoniae* Infections in a Tertiary Healthcare Center in Western Romania." *Microbiology Research* 15(4): 2661–72. doi:10.3390/microbiolres15040176.
- Ikuta, Kevin S, Lucien R Swetschinski, Gisela Robles Aguilar, Fablina Sharara, Tomislav Mestrovic, Authia P Gray, Nicole Davis Weaver, et al. (2022). "Global Mortality Associated with 33 Bacterial Pathogens in 2019: A Systematic Analysis for the Global Burden of Disease Study 2019." *The Lancet* 400(10369): 2221–48. doi:10.1016/S0140-6736(22)02185-7.
- Jarjoui, Amir, Malek Zaatreh, Mohammad Abo Eid, Ayalon Hadar, Jameel Ghantous, Hiba Abdelkareem, Ariel Rokach, et al. (2026). "Management of Respiratory Tract Infection Based on Sputum Culture Results." *International Journal of Infectious Diseases* 163: 108190. doi:https://doi.org/10.1016/j.ijid.2025.108190.
- Kadeřábková, Nikol, Ayesha J S Mahmood, and Despoina A I Mavridou. (2024). "Antibiotic Susceptibility Testing Using Minimum Inhibitory Concentration (MIC) Assays." *npj antimicrobials and resistance* 2(1): 37. doi:10.1038/s44259-024-00051-6.
- Kumar, Vinay, Abul K. Abbas, and John C. Aster. (2021). *Robbins and Cotran Pathologic Basis of Disease*. 10th ed. Philadelphia: Elsevier.
- Latar, Nurul Juwiyanti, Riyani Wikaningrum, and Linda Armelia. (2025). "Prevalensi Dan Pola Kepekaan Bakteri Gram Negatif Multidrug Resistant Dari Kultur Sputum Penyebab Infeksi Saluran Pernapasan Bawah Non-Tuberkulosis Tahun 2022-2023." *Junior Medical Journal* 3(3): 232–41.
- Li, Shiyu, Wenxia Zhang, Hanwen Ma, Xiang Gao, Weian Yuan, and Min He. (2025). "Prior Culture-Guided Prediction of Antibiotic Susceptibility in Recurrent Respiratory Tract Infections: A Retrospective Cohort Analysis." *Frontiers in cellular and infection microbiology* 15: 1715986. doi:10.3389/fcimb.2025.1715986.
- Loscalzo, Joseph, Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, Dan Longo, and J. Larry Jameson. (2022). *Harrison's Principle For Internal Medicine*. 21th Editi. New York: McGraw Hill.
- Martin-Loeches, Ignacio, Antoni Torres, Blin Nagavci, Stefano Aliberti, Massimo Antonelli, Matteo Bassetti, Lieuwe D Bos, et al. (2023). "ERS/ESICM/ESCMID/ALAT Guidelines for the Management of Severe Community-Acquired Pneumonia." *Intensive care medicine* 49(6): 615–32. doi:10.1007/s00134-023-07033-8.
- Metlay, Joshua P, Grant W Waterer, Ann C Long, Antonio Anzueto, Jan Brozek, Kristina Crothers, Laura A Cooley, et al. (2019). "Diagnosis and Treatment of Adults with Community-Acquired Pneumonia. An Official Clinical Practice Guideline of the American Thoracic Society and Infectious Diseases Society

- of America.” *American journal of respiratory and critical care medicine* 200(7): e45–67. doi:10.1164/rccm.201908-1581ST.
- Murray, Christopher, Kevin Shunji Ikuta, Fablina Sharara, Lucien Swetschinski, Gisela Robles Aguilar, Authia Gray, Chieh Han, et al. (2022). “Global Burden of Bacterial Antimicrobial Resistance in 2019: A Systematic Analysis.” *The Lancet* 399(10325): 629–55. doi:10.1016/S0140-6736(21)02724-0.
- Murray, Patrick, Ken Rosenthal, and Michael Pfaller. (2021). *Medical Microbiology*. 9th Editio. Philadelphia: Elsevier.
- Ogawa, Hiroaki, Georgios D Kitsios, Mitsunaga Iwata, and Teruhiko Terasawa. (2020). “Sputum Gram Stain for Bacterial Pathogen Diagnosis in Community-Acquired Pneumonia: A Systematic Review and Bayesian Meta-Analysis of Diagnostic Accuracy and Yield.” *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America* 71(3): 499–513. doi:10.1093/cid/ciz876.
- Pruntova, Olga V, Vladimir S Russaleyev, and Natalya B Shadrova. (2022). “Current Understanding of Antimicrobial Resistance Mechanisms in Bacteria (Analytical Review).” *Veterinary Science Today*. <https://api.semanticscholar.org/CorpusID:251706507>.
- Sadli Eli; Winarni, Rina; Widyatmoko, Leonardus, Nurul Kamilah; Halimah. (2025). “Pola Resistensi Antibiotik Pasien Infeksi Pneumonia Nosokomial: Tantangan Dalam Pengelolaan Infeksi Di RSUP Dr.Hasan Sadikin Bandung.” *Jurnal Ilmu Kedokteran dan Kesehatan* (Vol 12, No 9 (2025): Volume 12 Nomor 9): 1902–13. <https://ejournalmalahayati.ac.id/index.php/kesehatan/article/view/19748/pdf>.
- Salawudeen, Adamu, Yakubu Egigogo Raji, Garba Gidandawa Jibo, Mohd Nasir Mohd Desa, Hui-Min Neoh, Siti Norbaya Masri, Sabrina Di Gregorio, and Tengku Zetty Maztura Tengku Jamaluddin. (2023). “Epidemiology of Multidrug-Resistant Klebsiella Pneumoniae Infection in Clinical Setting in South-Eastern Asia: A Systematic Review and Meta-Analysis.” *Antimicrobial resistance and infection control* 12(1): 142. doi:10.1186/s13756-023-01346-5.
- Shoar, Saeed, and Daniel M Musher. (2020). “Etiology of Community-Acquired Pneumonia in Adults: A Systematic Review.” *Pneumonia* 12(1): 11. doi:10.1186/s41479-020-00074-3.
- Sirota, Sarah Brooke, Rose Grace Bender, Regina-Mae Villanueva Dominguez, Amanda Movo, Lucien R Swetschinski, Daniel T Araki, Chieh Han, et al. (2025). “Global Burden of Lower Respiratory Infections and Aetiologies, 1990–2023: A Systematic Analysis for the Global Burden of Disease Study 2023.” *The Lancet Infectious Diseases*. doi:[https://doi.org/10.1016/S1473-3099\(25\)00689-9](https://doi.org/10.1016/S1473-3099(25)00689-9).
- Torres, Antoni, Michael S Niederman, Jean Chastre, Santiago Ewig, Patricia Fernandez-Vandellos, Hakan Hanberger, Marin Kollef, et al. (2017).

- “International ERS/ESICM/ESCMID/ALAT Guidelines for the Management of Hospital-Acquired Pneumonia and Ventilator-Associated Pneumonia: Guidelines for the Management of Hospital-Acquired Pneumonia (HAP)/Ventilator-Associated Pneumonia (VAP) of the European Respiratory Society (ERS), European Society of Intensive Care Medicine (ESICM), European Society of Clinical Microbiology and Infectious Diseases (ESCMID) and Asociación Latinoamericana Del Tórax (ALAT).” *The European respiratory journal* 50(3). doi:10.1183/13993003.00582-2017.
- Wachino, Jun-ichi. (2025). “Horizontal Gene Transfer Systems for Spread of Antibiotic Resistance in Gram-Negative Bacteria.” *Microbiology and Immunology* 69. <https://api.semanticscholar.org/CorpusID:278635112>.
- World Health Organization, WHO. (2023). “Antimicrobial Resistance.” *World Health Organization*. <https://www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance> (December 10, 2026).
- Woh, P Y, and X Zhang. (2025). “The Burden of ESKAPE Pathogen-Related Hospital-Acquired Infections: Clinical and Financial Perspective from a Systematic Review.” *The Journal of hospital infection* 162: 377–85. doi:10.1016/j.jhin.2025.06.006.
- Zhou, Nan, Zile Cheng, Xiaoxi Zhang, Chao Lv, Chaoyi Guo, Haodong Liu, Ke Dong, et al. (2022). “Global Antimicrobial Resistance: A System-Wide Comprehensive Investigation Using the Global One Health Index.” *Infectious diseases of poverty* 11(1): 92. doi:10.1186/s40249-022-01016-5.