



DAFTAR PUSTAKA

- Al-badawy, T.H., Mohamed, A., Abdel, M., dan Abdel, G., 2016. Predictive value of different scoring systems for critically ill patients with hospital acquired pneumonia. *Egyptian Journal of Chest Diseases and Tuberculosis*, **65**: 757–763.
- Aljufri, A.Q., Yasin, N.M., dan Wahyono, D., 2021. Rasionalitas Terapi Antibiotik Empiris Pada Pasien Pneumonia di Instalasi Rawat Inap RSUP Dr. Kariadi Semarang. *Majalah Farmaseutik*, **17**: 89.
- Almirall, J., Serra-Prat, M., Bolíbar, I., dan Balasso, V., 2017. Risk Factors for Community-Acquired Pneumonia in Adults: A Systematic Review of Observational Studies. *Respiration*, **94**: 299–311.
- Alnimr, A., 2023. Antimicrobial Resistance in Ventilator-Associated Pneumonia: Predictive Microbiology and Evidence-Based Therapy. *Infectious Diseases and Therapy*, **12**: 1527–1552.
- American Thoracic Society, 2019. Top 20 Pneumonia Facts — 2019. ATS, 201.
- Baidya, S., Sharma, S., Mishra, S.K., Kattel, H.P., Parajuli, K., dan Sherchand, J.B., 2021. Biofilm Formation by Pathogens Causing Ventilator-Associated Pneumonia at Intensive Care Units in a Tertiary Care Hospital: An Armor for Refuge. *BioMed Research International*, **2021**: .
- Barrera, C.M., Mykietiuk, A., Metev, H., Nitu, M.F., Karimjee, N., Doreski, P.A., dkk., 2016. Efficacy and Safety of Oral Solithromycin versus Oral Moxifloxacin for Treatment of Community-Acquired Bacterial Pneumonia: A Global, Double-blind, Multicentre, Randomised, Active-controlled, Non-inferiority Trial (SOLITAIRE-ORAL). *The Lancet Infectious Diseases*, **16**: 421–430.
- Basilim, A., Wali, H., Rabaan, A.A., dan Eljaaly, K., 2022. Efficacy of Empiric Macrolides versus Fluoroquinolones in Community-Acquired Pneumonia Associated with Atypical Bacteria: A Meta-Analysis. *Respiratory Medicine and Research*, **82**: 1–5.
- Brunton, L.L., Hilal-Dandab, R., dan Knollmann, B.C., 2018. *Goodman & Gilman's: The Pharmacological Basis of Therapeutics*, 13th ed, The Routledge Companion to Aesthetics. McGraw Hill Education, USA.
- Charlson, M.E., Carrozzino, D., Guidi, J., dan Patierno, C., 2022. Charlson Comorbidity Index: A Critical Review of Clinimetric Properties. *Psychotherapy and Psychosomatics*, **91**: 8–35.
- Chisholm-Burns, M.A., Schwinghammer, T.L., Malone, P.M., Kolesar, J.M., Lee, K.C., dan Bookstaver, P.B., 2019. *Pharmacotherapy Principles and Practice*, 5th ed, McGraw Hill Education. McGraw Hill Education, USA.



- Choi, S.H., Cesar, A., Snow, T.A.C., Saleem, N., Arulkumaran, N., dan Singer, M., 2023. Respiratory Fluoroquinolone Monotherapy vs. β -Lactam Plus Macrolide Combination Therapy for Hospitalized Adults with Community-Acquired Pneumonia: A Systematic Review and Meta-analysis of Randomized Controlled Trials. *International Journal of Antimicrobial Agents*, **62**: 106905.
- Chou, C.C., Shen, C.F., Chen, S.J., Chen, H.M., Wang, Y.C., Chang, W.S., dkk., 2019. Recommendations and guidelines for the treatment of pneumonia in Taiwan. *Journal of Microbiology, Immunology and Infection*, **52**: 172–199.
- Cilloniz, C., Martin-Lloeches, I., Garcia-Vidal, C., Jose, A.S., dan Torres, A., 2016. Microbial etiology of pneumonia: Epidemiology, diagnosis and resistance patterns. *International Journal of Molecular Sciences*, **17**: .
- Cruz, C.S. Dela, Evans, S.E., Restrepo, M.I., Dean, N., Torres, A., Amara-Elori, I., dkk., 2021. Understanding the Host in the Management of Pneumonia: An Official American Thoracic Society Workshop Report. *Annals of the American Thoracic Society*, **18**: 1087–1097.
- Dahlan, M., 2020. *STATISTIK Untuk Kedokteran Dan Kesehatan: Deskriptif, Bivariat, Dan Multivariat Dilengkapi Aplikasi Menggunakan SPSS*, 6th ed. Epidemiologi Indonesia, Jakarta.
- Damayanti, M., Olivianto, E., dan Yunita, E.P., 2022. Effects of Rational Use of Antibiotics on Clinical Improvement of Pediatric Inpatients with Pneumonia. *Indonesian Journal of Clinical Pharmacy*, **11**: 129–144.
- DiPiro, J.T., Yee, G.C., Posey, L.M., Haines, S.T., Nolin, T.D., dan Ellingrod, V., 2020. *Pharmacotherapy: A Pathophysiologic Approach*, 11th ed. USA.
- DirJen Pelayanan Kesehatan, 2021. *Panduan Penatalgunaan Antimikroba Di Rumah Sakit*, 1st ed. Kemenkes RI, Indonesia.
- File, T.M., Rewerska, B., Vucinić-Mihailović, V., Gonong, J.R. V., Das, A.F., Keedy, K., dkk., 2016. SOLITAIRE-IV: A Randomized, Double-Blind, Multicenter Study Comparing the Efficacy and Safety of Intravenous-to-Oral Solithromycin to Intravenous-to-Oral Moxifloxacin for Treatment of Community-Acquired Bacterial Pneumonia. *Clinical Infectious Diseases*, **63**: 1007–1016.
- Fogarty, C., Siami, G., Kohler, R., File, T.M., Tennenberg, A.M., Olson, W.H., dkk., 2004. Multicenter, Open-Label, Randomized Study to Compare the Safety and Efficacy of Levofloxacin versus Ceftriaxone Sodium and Erythromycin Followed by Clarithromycin and Amoxicillin-Clavulanate in the Treatment of Serious Community-Acquired Pneumonia in Adul. *Clinical Infectious Diseases*, **38**: .
- Hammer, G.D. dan McPhee, S.J., 2019. *Pathophysiology of Disease: An Introduction to Clinical Medicine*, 8th ed, Mc Graw Hill Education. USA.



- Hardiana, I., Laksmitawati, D.R., Ramadaniati, H. utami, dan Sutarno, 2021. Evaluasi Penggunaan Antibiotika Pada Pasien Pneumonia Komunitas Di Instalasi Rawat Inap Rspad Gatot Subroto. *Majalah Farmasi dan Farmakologi*, **25**: 1–6.
- Horita, N., Otsuka, T., Haranaga, S., Namkoong, H., Miki, M., Miyashita, N., dkk., 2016. Beta-lactam plus Macrolides or Beta-Lactam Alone for Community-Acquired Pneumonia: A Systematic Review and Meta-Analysis. *Respirology*, **21**: 1193–1200.
- Izadi, M., Dadsetan, B., Najafi, Z., Jafari, S., Mazaheri, E., Dadras, O., dkk., 2018. Levofloxacin Versus Ceftriaxone and Azithromycin Combination in the Treatment of Community Acquired Pneumonia in Hospitalized Patient. *Recent Patents on Anti-Infective Drug Discovery*, **13**: .
- Joegijantoro, R., 2019. *Penyakit Infeksi*, Intimedia Kelompok Intrans Publishing. Intimedia Kelompok Intrans Publishing, Malang, Indonesia.
- Katzung, B.G., Krüdering-Hall, M., dan Trevor, A.J., 2019. *Katzung & Trevor's: Pharmacology Examination & Board Review*, 12th ed, Katzung & Trevor's pharmacology examination & board review. McGraw Hill Education, USA.
- Kementerian Kesehatan RI, 2013. *Pedoman Umum Penggunaan Antibiotik*, Pedoman Umum Penggunaan Antibiotik. Kemenkes RI, Indonesia.
- Kementerian Kesehatan RI, 2015. *Profil Kesehatan Dasar*. Indonesia.
- Kementerian Kesehatan RI, 2017. *Pedoman Nasional Pelayanan Kedokteran Tata Laksana Sepsis*.
- Kementerian Kesehatan RI, 2018. *Laporan Nasional RISKESDAS 2018*, Badan Penelitian dan Pengembangan Kesehatan.
- Kementerian Kesehatan RI, 2021. Pedoman Penggunaan Antibiotik. *Peraturan Menteri Kesehatan Republik Indonesia Nomor 28 Tahun 2021 tentang Pedoman Penggunaan Antibiotik*, 1–97.
- Kementerian Kesehatan RI, 2023. *Pedoman Nasional Pelayanan Kedokteran Tata Laksana Pneumonia Dewasa*, Kementerian Kesehatan RI. Jakarta.
- Kyprianou, M., Dakou, K., Aktar, A., Aouina, H., Behbehani, N., Dheda, K., dkk., 2023. Macrolides for Better Resolution of Community-Acquired Pneumonia: A Global Meta-Analysis of Clinical Outcomes with Focus on Microbial Aetiology. *International Journal of Antimicrobial Agents*, **62**: 106942.
- Lemeshow, S., Jr, D.W.H., Klar, J., dan Lwanga, S.K., 1990. *Adequacy of Sample Size in Health Studies*. World Health Organization (WHO), England.
- Lim, W.S., 2022. Pneumonia-Overview. *Encyclopedia of Respiratory Medicine*, **4**: 185–197.
- Liu, X., Zhou, H., Zhou, Y., Wu, X., Zhao, Y., Lu, Y., dkk., 2020. Risk Factors



Associated with Disease Severity and Length of Hospital Stay in COVID-19 Patients. *Journal of Infection*, **81**: e95–e97.

López-véjar, C.E., Cruz, L.C., Meraz-ortega, R., Román-flores, A., Geuguer-chávez, L., Pedro-gonzález, A., dkk., 2013. Effectiveness of Levofloxacin in NAC 2013 Medigraphic (Spanyol). *Med Int Mex*, **29**: 587–594.

Luna, C.M., Palma, I., Niederman, M.S., Membriani, E., Giovini, V., Wiemken, T.L., dkk., 2016. The Impact of Age and Comorbidities on the Mortality of Patients of Different Age Groups Admitted with Community-Acquired Pneumonia. *Annals of the American Thoracic Society*, **13**: 1519–1526.

Maratusholikhah, M., Subagio, Y., dan Hastuti, H., 2023. Hubungan Derajat Keparahan Pneumonia dengan Kejadian dan Waktu Terjadinya. *Medical Science and Hospital Management Journal*, **1**: 44–54.

Maret-Ouda, J., Panula, J., Santoni, G., Xie, S., dan Lagergren, J., 2023. Proton Pump Inhibitor Use and Risk of Pneumonia: A Self-Controlled Case Series Study. *Journal of Gastroenterology*, **58**: 734–740.

Meriyani, H., Sanjaya, D.A., Sutariani, N.W., Juanita, R.R.A., Siada, N.B., Farmasi, F., dkk., 2021. Penggunaan dan Resistensi Antibiotik di Instalasi Rawat Intensif Rumah Sakit Umum Daerah di Bali : Studi Ekologikal selama 3 Tahun Antibiotic Use and Resistance at Intensive Care Unit of a Regional Public Hospital in Bali : A 3-Year Ecological Study **10**: .

Metlay, J.P., Waterer, G.W., Long, A.C., Anzueto, A., Brozek, J., Crothers, K., dkk., 2019. Diagnosis and Treatment of Adults with Community-Acquired Pneumonia. *American Journal of Respiratory and Critical Care Medicine*, **200**: 45–67.

Milipi, M. dan Claybourn, L., 2020. *IV to Oral Switch & 5 Day Stop Policy*. NHS Doncaster and Bassetlaw Teacahing Hospitals.

National Institute for Health and Care Excellent, 2022. *Pneumonia in Adults: Diagnosis and Management*, NICE Guideline.

Parmar, M.P., Kaur, M., Bhavanam, S., Mulaka, G.S.R., Ishfaq, L., Vempati, R., dkk., 2023. A Systematic Review of the Effects of Smoking on the Cardiovascular System and General Health. *Cureus*, **15**: .

Perhimpunan Dokter Paru Indonesia, 2014. *PNEUMONIA KOMUNITAS: Pedoman Diagnosis & Penatalaksanaan Di Indonesia*. Badan Penerbit FKUI, Jakarta.

Perhimpunan Dokter Paru Indonesia, 2021. *Panduan Umum Praktek Klinis Penyakit Paru Dan Pernapasan*. PDPI, Indonesia.

Peters, Z., Ashman, J.J., Schwartzman, A., dan DeFrances, C.J., 2022. National Hospital Care Survey Demonstration Projects: Examination of Inpatient Hospitalization and Risk of Mortality Among Patients Diagnosed With



Pneumonia.

- Postma, D.F., van Werkhoven, C.H., van Elden, L.J.R., Thijssen, S.F.T., Hoepelman, A.I.M., Kluytmans, J.A.J.W., dkk., 2015. Antibiotic Treatment Strategies for Community-Acquired Pneumonia in Adults. *New England Journal of Medicine*, **372**: 1312–1323.
- Raz-Pasteur, A., Shasha, D., dan Paul, M., 2015. Fluoroquinolones or Macrolides Alone versus Combined with β -lactams for Adults with Community-Acquired Pneumonia: Systematic Review and Meta-Analysis. *International Journal of Antimicrobial Agents*, **46**: 242–248.
- Salsabila, N.N., Indraswari, N., dan Sujatmiko, B., 2022. Gambaran Kebiasaan Merokok Di Indonesia Berdasarkan Indonesia Family Life Survey 5 (Ifls 5). *Jurnal Ekonomi Kesehatan Indonesia*, **7**: 13.
- Sitong, L., Tong, X., Ma, Y., Wang, D., Huang, J., Zhang, L., dkk., 2019. Respiratory Fluoroquinolones Monotherapy vs. β -Lactams with or without Macrolides for Hospitalized Community-Acquired Pneumonia Patients: A Meta-Analysis. *Frontiers in Pharmacology*, **10**: .
- Sukriya, Manggau, M.A., dan Djaharuddin, I., 2022. Evaluasi Penggunaan Terapi Antibiotik Empiris Terhadap Luaran Klinis Pasien Pneumonia Komunitas Rawat Inap **26**: 19–25.
- Tambun, S.H., Puspitasari, I., dan Safitri, I., 2019. Evaluasi Luaran Klinis Terapi Antibiotik pada Pasien Community Acquired Pneumonia Anak Rawat Inap. *Jurnal Manajemen dan Pelayanan Farmasi*, **9**: 213–224.
- Tnesi, M.T., Permata, A., Aprilianti, R.G., dan Choirunniswah, J., 2023. Evaluasi Penggunaan Antibiotik pada Pasien Pneumonia di Rumah Sakit X Kota Malang. *Indonesian Journal of Pharmaceutical Education*, **3**: 413–420.
- Uematsu, H., Yamashita, K., Kunisawa, S., dan Imanaka, Y., 2021. Prediction Model for Prolonged Length of Stay in Patients with Community-Acquired Pneumonia Based on Japanese Administrative Data. *Respiratory Investigation*, **59**: 194–203.
- Wu, D., Wu, C., Zhang, S., dan Zhong, Y., 2019. Risk Factors of Ventilator-Associated Pneumonia in Critically Ill Patients. *Frontiers in Pharmacology*, **10**: 1–7.
- Xu, L.Y., Wang, C.C., Peng, X.X., Jiao, Y., Zhao, C.Z., Zhang, L., dkk., 2022. Empirical Antibiotic Treatment Strategies for Community-Acquired Pneumonia: A Network Meta-analysis. *Journal of Global Antimicrobial Resistance*, **30**: 1–9.
- Yadegarynia, D., Tehrani, S., Nejad, F.M., Shojaeian, F., dan Keyvanfar, A., 2022. Levofloxacin versus ceftriaxone and azithromycin for treating community-acquired pneumonia: a randomized clinical trial study. *Iranian Journal of Microbiology*, **14**: 458–465.



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Andi Ameilia Sari Riandika, Dr. apt. Nanang Munif Yasin, M.Pharm ; Prof. dr. Titik Nuryastuti, M.Si., Ph.D., Sp.MK(K)

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Yoon, C., Park, S.Y., Kim, B., Kwon, K.T., Ryu, S. yeol, Wie, S.H., dkk., 2022.
Relationship between The Appropriateness of Antibiotic Treatment and Clinical Outcomes/Medical Costs of Patients with Community-Acquired Acute Pyelonephritis: A Multicenter Prospective Cohort Study. *BMC Infectious Diseases*, **22**: 1–11.