

DAFTAR PUSTAKA

- Abbas, B., Ikawati, Z., dan Mustofa, M., 2010. Evaluasi Tatalaksana Pengobatan Malaria Pada Anak di Instalasi Rawat Inap RS DR. H. Chasan Boesoirie Ternate Tahun 2005. *Jurnal Ilmiah Farmasi*, **7**: 53–67.
- Achan, J., Talisuna, A.O., Erhart, A., Yeka, A., Tibenderana, J.K., Baliraine, F.N., dkk., 2011. Quinine, an old anti-malarial drug in a modern world: role in the treatment of malaria. *Malaria Journal*, **10**: 144.
- Adebayo, J.O., Tijjani, H., Adegunloye, A.P., Ishola, A.A., Balogun, E.A., dan Malomo, S.O., 2020. Enhancing the antimalarial activity of artesunate. *Parasitology Research*, **119**: 2749–2764.
- Adistia, E.A., Dini, I.R.E., dan Annisaa', E., 2022. Hubungan antara Rasionalitas Penggunaan Antihipertensi terhadap Keberhasilan Terapi Pasien Hipertensi di RSND Semarang. *Generics: Journal of Research in Pharmacy*, **2**: 24–36.
- Ashley, E.A. dan White, N.J., 2005. Artemisinin-based combinations. *Current Opinion in Infectious Diseases*, **18**: 531–536.
- Asih, P.B.S., Rozi, I.E., Dewayanti, F.K., Wangsamuda, S., Zulfah, S., Robaha, M., dkk., 2022. Efficacy and safety of dihydroartemisinin–piperaquine for the treatment of uncomplicated Plasmodium falciparum and Plasmodium vivax malaria in Papua and Sumatra, Indonesia. *Malaria Journal*, **21**: 95.
- Avula, B., Tekwani, B.L., Chaurasiya, N.D., Fasinu, P., Dhammika Nanayakkara, N.P., Bhandara Herath, H.M.T., dkk., 2018. Metabolism of primaquine in normal human volunteers: investigation of phase I and phase II metabolites from plasma and urine using ultra-high performance liquid chromatography–quadrupole time-of-flight mass spectrometry. *Malaria Journal*, **17**: 294.
- Bauserman, M., Conroy, A.L., North, K., Patterson, J., Bose, C., dan Meshnick, S., 2019. An overview of malaria in pregnancy. *Seminars in Perinatology*, **43**: 282–290.
- Beck-Johnson, L.M., Nelson, W.A., Paaijmans, K.P., Read, A.F., Thomas, M.B., dan Bjørnstad, O.N., 2017. The importance of temperature fluctuations in understanding mosquito population dynamics and malaria risk. *Royal Society Open Science*, **4**: 160969.

- Beringer, P.M., Owens, H., Nguyen, A., Benitez, D., Rao, A., dan D'Argenio, D.Z., 2012. Pharmacokinetics of Doxycycline in Adults with Cystic Fibrosis. *Antimicrobial Agents and Chemotherapy*, **56**: 70–74.
- Betuela, I., Bassat, Q., Kiniboro, B., Robinson, L.J., Rosanas-Urgell, A., Stanistic, D., dkk., 2012. Tolerability and safety of primaquine in Papua New Guinean children 1 to 10 years of age. *Antimicrobial Agents and Chemotherapy*, **56**: 2146–2149.
- Briolant, S., Pradines, B., dan Basco, L.K., 2017. [Role of primaquine in malaria control and elimination in French-speaking Africa]. *Bulletin De La Societe De Pathologie Exotique (1990)*, **110**: 198–206.
- Buffet, P.A., Safeukui, I., Deplaine, G., Brousse, V., Prendki, V., Thellier, M., dkk., 2011. The pathogenesis of Plasmodium falciparum malaria in humans: Insights from splenic physiology. *Blood*, **117**: 381–392.
- Camarda, G., Jirawatcharadech, P., Priestley, R.S., Saif, A., March, S., Wong, M.H.L., dkk., 2019. Antimalarial activity of primaquine operates via a two-step biochemical relay. *Nature Communications*, **10**: 3226.
- CDC, 2024. 'Drug Resistance in the Malaria-Endemic World', *Malaria*. URL: <https://www.cdc.gov/malaria/php/public-health-strategy/drug-resistance.html> (diakses tanggal 15/2/2025).
- Chekem, L. dan Wierucki, S., 2006. [Extraction of artemisinin and synthesis of its derivatives artesunate and artemether]. *Medecine Tropicale: Revue Du Corps De Sante Colonial*, **66**: 602–605.
- Commons, R.J., Simpson, J.A., Thriemer, K., Abreha, T., Adam, I., Anstey, N.M., dkk., 2019. The efficacy of dihydroartemisinin-piperaquine and artemether-lumefantrine with and without primaquine on Plasmodium vivax recurrence: A systematic review and individual patient data meta-analysis. *PLoS Medicine*, **16**: e1002928.
- Cowman, A.F., Healer, J., Marapana, D., dan Marsh, K., 2016. Malaria: Biology and Disease. *Cell*, **167**: 610–624. Das, B.S., 2008. Renal failure in malaria. *Journal of Vector Borne Diseases*, **45**: 83–97.
- Datta, P.P., Prasad, A., Pattanayak, C., Chouhan, A., dan Panda, P., 2016. Pattern of drug prescription for the treatment of falciparum malaria in a medical college in Eastern India. *Asian Journal of Medical Sciences*, **7**: 80-85.

- Deshpande, A., Shalavadi, M., Patel, H., Vasoya, A., Kotwal, R., dan V.M, C., 2017. Evaluation of Antimalarial Drug use in Tertiary Care Teaching Hospital. *Ind J Pharm Pract*, **10**: 201-206.
- Dondorp, A.M., Nosten, F., Yi, P., Das, D., Phyto, A.P., Tarning, J., dkk., 2009. Artemisinin resistance in Plasmodium falciparum malaria. *The New England Journal of Medicine*, **361**: 455–467.
- Dondorp, A.M., Fanello, C.I., Hendriksen, I.C., Gomes, E., Seni, A., Chhaganlal, K.D., dkk., 2010. Artesunate versus quinine in the treatment of severe falciparum malaria in African children (AQUAMAT): an open-label, randomised trial. *Lancet*, **376**: 1647–1657.
- Eastman, R.T. dan Fidock, D.A., 2009a. Artemisinin-based combination therapies: a vital tool in efforts to eliminate malaria. *Nature reviews. Microbiology*, **7**: 864–874.
- Eastman, R.T. dan Fidock, D.A., 2009b. Artemisinin-based combination therapies: a vital tool in efforts to eliminate malaria. *Nature Reviews. Microbiology*, **7**: 864–874.
- Evani, S. (2020). *Patofisiologi Malaria*. Alomedika. Diakses pada 25 Mei 2025, dari <https://www.alomedika.com/penyakit/penyakit-infeksi/malaria/patofisiologi>
- Firra, A.H.F., Tuda, J.S.B., dan Pijoh, V.D., 2025. Profil Malaria pada Remaja di Kota Bitung Periode Juli – November 2023. *e-CliniC*, **13**: 41–46.
- Fish, E.N., 2008. The X-files in immunity: sex-based differences predispose immune responses. *Nature Reviews. Immunology*, **8**: 737–744.
- González-Sanz, M., Berzosa, P., dan Norman, F.F., 2023. Updates on Malaria Epidemiology and Prevention Strategies. *Current Infectious Disease Reports*, 1–9.
- Gultom, F., Wiyono, W.I., dan Tjitrosantoso, H., 2019. Studi Penggunaan Obat Pada Pasien Malaria di Instalasi Rawat Inap RSUD Kabupaten Mimika. *Pharmacon*, **8**: 498–504.
- Hakim, L., 2011. Malaria: Epidemiologi dan Diagnosis. *Aspirator*, vol. 3, no. 2, Dec. 2011.

- Hanboonkunupakarn, B., Ashley, E.A., Jittamala, P., Tarning, J., Pukrittayakamee, S., Hanpithakpong, W., dkk., 2014. Open-label crossover study of primaquine and dihydroartemisinin-piperaquine pharmacokinetics in healthy adult thai subjects. *Antimicrobial Agents and Chemotherapy*, **58**: 7340–7346.
- Hastings, I. dan Watkins, W., 2006. Tolerance is the key to understanding antimalarial drug resistance. *Trends in parasitology*, **22**: 71–7.
- Hoffmeister, B., 2021. Factors Associated with Prolonged Hospital Length of Stay in Adults with Imported Falciparum Malaria—An Observational Study from a Tertiary Care University Hospital in Berlin, Germany. *Microorganisms*, **9**: 1941.
- Isnawati, A., Gitawati, R., Tjitra, E., Rooslamia, I., Raini, M., dan Delima, D., 2011. Rasionalisasi Penggunaan Obat Simptomatik dan Obat Lain yang Diberikan Bersamaan dengan Obat Artesunate-amodiakuin pada Subyek Malaria di Delapan Puskesmas Sentinel Kalimantan dan Sulawesi. *Media Penelitian dan Pengembangan Kesehatan*, **21**: 150309.
- Karyana, M., Burdarm, L., Yeung, S., Kenangalem, E., Wariker, N., Maristela, R., dkk., 2008. Malaria morbidity in Papua Indonesia, an area with multidrug resistant Plasmodium vivax and Plasmodium falciparum. *Malaria Journal*, **7**: 148.
- Kasichayanula, S., Grover, A., Emery, M.G., Gibbs, M.A., Somaratne, R., Wasserman, S.M., dkk., 2018. Clinical Pharmacokinetics and Pharmacodynamics of Evolocumab, a PCSK9 Inhibitor. *Clinical Pharmacokinetics*, **57**: 769–779.
- Keating, G.M., 2012. Dihydroartemisinin/Piperaquine: a review of its use in the treatment of uncomplicated Plasmodium falciparum malaria. *Drugs*, **72**: 937–961.
- Kemkes RI, 2011. Modul Penggunaan Obat Rasional (POR) (hlm. 3-8). Jakarta: Kementerian Kesehatan RI
- Kemkes RI, 2019. Keputusan Menteri Kesehatan Republik Indonesia No. HK.01.07/Menkes/556/2019 tentang Pedoman Nasional Pelayanan Kedokteran (PNPK) Tata Laksana Malaria.
- Kemkes RI, 2023. Buku Saku Tatalaksana Kasus Malaria (hlm. 11-22). Jakarta: Kementerian Kesehatan RI 2023.
- Kemkes RI, 2024. *Kasus malaria di Indonesia*. <https://malaria.kemkes.go.id> (Diakses pada 22 Mei 2025).

- Kemendes RI, 2024. *Peta Endemisitas Malaria Indonesia*.
<https://malaria.kemkes.go.id> (Diakses pada 24 Mei 2025).
- Kingston, D.G.I. dan Cassera, M.B., 2022. Antimalarial Natural Products. *Progress in the Chemistry of Organic Natural Products*, **117**: 1–106.
- Kleden, M.A., Moto, J.U., dan Guntur, R.D., 2023. Hubungan Faktor Demografis dengan Kejadian Malaria di Kecamatan Wewewa Timur: Pendekatan Analisis Chi-Square. *J Statistika: Jurnal Ilmiah Teori dan Aplikasi Statistika*, **16**: 499–513.
- Klein, S.L. dan Flanagan, K.L., 2016. Sex differences in immune responses. *Nature Reviews. Immunology*, **16**: 626–638.
- Kshirsagar, N.A., 2016. Rational use of medicines: Cost consideration & way forward. *The Indian Journal of Medical Research*, **144**: 502–505.
- Kulkarni, S.P., Shah, S.R., Kadam, P.P., Sridharan, K., Hase, N.K., Shetty, P.P., dkk., 2013. Pharmacokinetics of single-dose primaquine in patients with chronic kidney dysfunction. *Indian Journal of Pharmacology*, **45**: 330–333.
- Lemeshow, E.R., Ziegel, S., Hosmer, D., Klar, J., dan Luanga, S., 1994. Adequacy of Sample Size in Health Studies. *Technometrics*, **36**: 232.
- Lestari, A.S. dan Salamah, M., 2014. Faktor-Faktor yang Mempengaruhi Penyakit Malaria pada Ibu Hamil di Provinsi Nusa Tenggara Barat, Nusa Tenggara Timur, Maluku, Maluku Utara, Papua, dan Papua Barat. *Jurnal Sains dan Seni ITS*, **3**: D140–D147.
- Li, Q., Pybus, B., Li, Q., dan Pybus, B., 2019. Pharmacokinetic and Pharmacodynamic Profiles of Rapid- and Slow-Acting Antimalarial Drugs, dalam: *Malaria*. IntechOpen.
- Liu, H., Zhou, H., Cai, T., Yang, A., Zang, M., dan Xing, J., 2018. Metabolism of Piperaquine to Its Antiplasmodial Metabolites and Their Pharmacokinetic Profiles in Healthy Volunteers. *Antimicrobial Agents and Chemotherapy*, **62**: e00260-18.
- Machini, B., Achia, T.N.O., Kipruto, H., Amboko, B., dan Chesang, J., 2022. Factors associated with hospital length of stay in patients admitted with suspected malaria in Kenya: secondary analysis of a cross-sectional survey. *BMJ open*, **12**: e059263.

- Manumpa, S., 2016. Pengaruh Faktor Demografi dan Riwayat Malaria Terhadap Kejadian malaria. *urnal Berkala Epidemiologi*, , Influence of Demographic Factors and History of Malaria with the Incidence Malaria (Studies in Moru PHC, Sub-Districts Alor Barat Daya, Alor Regency – NTT **4**: 338–348.
- McGlynn, K.A., Petrick, J.L., dan El-Serag, H.B., 2021. Epidemiology of Hepatocellular Carcinoma. *Hepatology*, **73**: 4.
- Meutia, S. dan Nurhadi, J.Z., 2024. Penatalaksanaan Malaria pada Dewasa. *GALENICAL : Jurnal Kedokteran dan Kesehatan Mahasiswa Malikussaleh*, **3**: 104–122.
- Milner, D.A., 2018. Malaria Pathogenesis. *Cold Spring Harbor Perspectives in Medicine*, **8**: a025569.
- Patel, R.S. dan Parmar, M., 2023. Doxycycline Hyclate, dalam: *StatPearls [Internet]*. StatPearls Publishing.
- Prabowo, A.Y., Sijabat, H., dan Yuwanto, F., 2019. Profil Penyakit Malaria Pada Rumah Sakit Tk. IV TNI AD Bandar Lampung. *Jurnal Kedokteran Universitas Lampung*, **3**: 84–91.
- Purwanto, D.S. dan Ottay, R.I., 2011. Profil Penyakit Malaria Pada Penderita Rawat Inap di Rumah Sakit Umum Daerah Kota Bitung. *Jurnal Biomedik:JBM*, **3**:1.
- Rahayu, N., Sulasmi, S., dan Suryatinah, Y., 2017. Identifikasi Spesies Plasmodium Malaria di Desa Temunih Kecamatan Kusan Hulu Kabupaten Tanah Bumbu Propinsi Kalimantan Selatan. *Spirakel*, **9**: 10–18.
- Rahmasari, F.V., Asih, P.B.S., Dewayanti, F.K., Rotejanaprasert, C., Charunwatthana, P., Imwong, M., dkk., 2022. Drug resistance of Plasmodium falciparum and Plasmodium vivax isolates in Indonesia. *Malaria Journal*, **21**: 354.
- Raja, Badil, Ali, S., dan Sherali, S., 2019. Association of medication administration errors with interruption among nurses in public sector tertiary care hospitals. *Pakistan Journal of Medical Sciences*, **35**: 1318–1321.
- Recht, J., Ashley, E., White, N., World Health Organization, dan Mahidol Oxford Research Unit, 2014. *Safety of 8-Aminoquinoline Antimalarial Medicines*. World Health Organization, Geneva.

- Rolling, T., Wichmann, D., Schmiedel, S., Burchard, G.D., Kluge, S., dan Cramer, J.P., 2013. Artesunate versus quinine in the treatment of severe imported malaria: comparative analysis of adverse events focussing on delayed haemolysis. *Malaria Journal*, **12**: 241.
- Roussel, C., Ndour, P.A., Kendjo, E., Larréché, S., Taieb, A., Henry, B., dkk., 2021. Intravenous Artesunate for the Treatment of Severe Imported Malaria: Implementation, Efficacy, and Safety in 1391 Patients. *Clinical Infectious Diseases: An Official Publication of the Infectious Diseases Society of America*, **73**: 1795–1804.
- Rowe, J.A., Claessens, A., Corrigan, R.A., dan Arman, M., 2009. Adhesion of Plasmodium falciparum-infected erythrocytes to human cells: molecular mechanisms and therapeutic implications. *Expert Reviews in Molecular Medicine*, **11**:1.
- Rumagit, N.A., Tjitrosantoso, H., dan Wiyono, W.I., 2013. Studi Penggunaan Antimalaria Pada Penderita Malaria di Instalasi Rawat Inap BLU RSUP Prof. Dr. R. D. Kandou Manado Periode Januari 2013-Mei 2013. *Pharmakon*, **2**:1.
- Saeheng, T. dan Na-Bangchang, K., 2022. Clinical pharmacokinetics of quinine and its relationship with treatment outcomes in children, pregnant women, and elderly patients, with uncomplicated and complicated malaria: a systematic review. *Malaria Journal*, **21**: 41.
- Salman, S., Page-Sharp, M., Batty, K.T., Kose, K., Griffin, S., Siba, P.M., dkk., 2012. Pharmacokinetic comparison of two piperazine-containing artemisinin combination therapies in Papua New Guinean children with uncomplicated malaria. *Antimicrobial Agents and Chemotherapy*, **56**: 3288–3297.
- Sari, M.D.W., Andayani, T.M., dan Endarti, D., 2024. Perbandingan Biaya Rill Rumah Sakit Dengan Tarif INA-CBGs Pada Pasien Rawat Inap Malaria. *Prepotif: Jurnal Kesehatan Masyarakat*, **8**: 6245–6256.
- Sato, S., 2021. Plasmodium a brief introduction to the parasites causing human malaria and their basic biology. *Journal of Physiological Anthropology*, **40**: 1.
- Shibeshi, M.A., Kifle, Z.D., dan Atnafie, S.A., 2020. Antimalarial drug resistance and novel targets for antimalarial drug discovery. *Infection and Drug Resistance*, **13**: 4047–4060.

- Siahaan, L., 2008. Gejala Klinis Malaria Di Daerah Endemis. *Madjalah Kedokteran Indonesia*, **58**:1.
- Sillehu, S dan Utami, T.N., 2018. *Pengenalan Diagnosis Malaria*. Forum Ilmiah Kesehatan (FORIKES), Ponorogo, Jawa Timur Indonesia.
- Suryadi, D., Toruan, V.M.L., Sihotang, F.A., dan Siagian, L.R.D., 2021. Hubungan Jenis Plasmodium falciparum dan Plasmodium vivax dengan Kejadian Anemia pada Pasien Malaria di RSUD Ratu Aji Putri Botung Penajam Paser Utara. *Jurnal Sains dan Kesehatan*, **3**: 233–241.
- Tan, K.R., Magill, A.J., Parise, M.E., dan Arguin, P.M., 2011. Doxycycline for Malaria Chemoprophylaxis and Treatment: Report from the CDC Expert Meeting on Malaria Chemoprophylaxis. *The American Journal of Tropical Medicine and Hygiene*, **84**: 517.
- Thriemer, K., Poespoprodjo, J.-R., Kenangalem, E., Douglas, N.M., Sugiarto, P., Anstey, N.M., dkk., 2020. The risk of adverse clinical outcomes following treatment of Plasmodium vivax malaria with and without primaquine in Papua, Indonesia. *PLoS Neglected Tropical Diseases*, **14**: e0008838.
- Utami, A.P., 2023a. Evaluasi Penggunaan Obat Malaria Pada Pasien Rawat Inap di RSUD Hasanuddin Damrah Manna – Bengkulu Selatan Periode Tahun 2020. *Social Clinical Pharmacy Indonesia Journal*, **8**: 17–26.
- Utami, A.P., 2023b. Evaluasi Penggunaan Obat Malaria Pada Pasien Rawat Inap di RSUD Hasanuddin Damrah Manna – Bengkulu Selatan Periode Tahun 2020. *Social Clinical Pharmacy Indonesia Journal*, **8**: 17–26.
- Versita, R., Almasdy, D., dan Dahlan, Z., 2021. Pola Penggunaan Dan Kerasionalan Obat Terhadap Lama Rawatan Pada Pasien Malaria di RSUD Dr. M. Yunus Bengkulu. *Jurnal Media Kesehatan*, **14**(1), 27–36.
- Wahab, Z., Anggraini, M.T., dan Alathas, S.A.A., 2014a. Efektivitas Pemberian Artemisin Base Combination Therapy (ACT) Terhadap Lama Rawat Inap Pasien Malaria Falsiparum Tanpa Komplikasi di RSUD Kabupaten Lahat. *Jurnal Kedokteran Muhammadiyah*, **3**:1.
- Wahab, Z., Anggraini, M.T., dan Alathas, S.A.A., 2014b. Efektivitas Pemberian Artemisin Base Combination Therapy (ACT) Terhadap Lama Rawat Inap Pasien Malaria Falsiparum Tanpa Komplikasi di RSUD Kabupaten Lahat. *Jurnal Kedokteran Muhammadiyah*, **3**:1.

- Wahab, Z., Anggraini, M.T., dan Alathas, S.A.A., 2014c. Efektivitas Pemberian Artemisin Base Combination Therapy (ACT) Terhadap Lama Rawat Inap Pasien Malaria Falsiparum Tanpa Komplikasi di RSUD Kabupaten Lahat. *Jurnal Kedokteran Muhammadiyah*, **3**:1.
- White, N.J., 2004. Antimalarial drug resistance. *The Journal of Clinical Investigation*, **113**: 1084–1092.
- White, N.J., 2008. The role of anti-malarial drugs in eliminating malaria. *Malaria Journal*, **7**: S8.
- White, N.J., 2013. Pharmacokinetic and Pharmacodynamic Considerations in Antimalarial Dose Optimization. *Antimicrobial Agents and Chemotherapy*, **57**: 5792.
- World Health Organization, 2015. *Guidelines for the Treatment of Malaria Third Edition*. Italy: World Health Organization.
- World Health Organization (WHO). (2023). *World Malaria Report 2023*. <https://www.who.int/publications/i/item/9789240078022>.
- Wu, L., Mwesigwa, J., Affara, M., Bah, M., Correa, S., Hall, T., dkk., 2020. Sero-epidemiological evaluation of malaria transmission in The Gambia before and after mass drug administration. *BMC Medicine*, **18**: 331.
- Yeka, A., Kigozi, R., Conrad, M.D., Lugemwa, M., Okui, P., Katureebe, C., dkk., 2016. Artesunate/Amodiaquine Versus Artemether/Lumefantrine for the Treatment of Uncomplicated Malaria in Uganda: A Randomized Trial. *The Journal of Infectious Diseases*, **213**: 1134–1142.
- Zani, B., Gathu, M., Donegan, S., Olliaro, P.L., dan Sinclair, D., 2014. Dihydroartemisinin-piperaquine for treating uncomplicated Plasmodium falciparum malaria. *The Cochrane Database of Systematic Reviews*, **2014**: CD010927.
- Zhang, Y., Xie, Li, Xie, Lei, dan Bourne, P., 2016. The Plasmodium falciparum drugome and its polypharmacological implications. *bioRxiv*; 2016.