

DAFTAR PUSTAKA

- Amaratunga C, Sreng S, Suon S, 2012. Artemisin resistant Plasmodium falciparum in Pursat province Western Cambodia: a parasit clearance study. *Lancet Infect Dis.* 12(11), p851-858.
- Anderson TJ, Haubold B, Williams JT, 2000. Microsatellite markers reveal a spectrum of population structures in the malaria parasite *Plasmodium falciparum*. *Mol.Biol.Evol.* 17, p1467-1482
- Afonso, A., Hunt, P., Cheesman, S., Alves, A.C., Cunha, C.V., Do-rosario, V., Cravo, P., 2006. Malaria parasites can develop stable resistance to artemisinin but lack mutations in candidate gene *atp6* (encoding the sarcoplasmic and endoplasmic reticulum Ca^{2+} ATPase) *tctp*, *mdr1*, and *cg10*. *Antimicrobial agent and chemotherapy*, 50(2), pp.480-9
- Ariey F, Duchmain JB, Robert P, 2003. Metapopulation concepts applied to falciparum malaria and their in fact on the emergence and spread of cloroquine resistance. *Infect. Genet.Evol.* 2. p185-192.
- Ariey, F., Witkowski, B., Amaratungga, C., Beighen J., Langlois, A.C., Khim N., Kim, S., Duru, V., Bouchler, C., 2014. A molecular marker of artemisinin resistant Plasmodium falciparum malaria. *Nature*, 505, pp50-55.
- Ashley *et al.*, 2014. Spread of artemisinin resistant in Plasmodium falciparum malaria. *N Engl J Med*, 371, pp. 411-23
- Bartolini A and Zammarci L, 2012. Clinical Aspects of Uncomplicated and Severe Malaria. *Mediterr J Hematol Infect Dis*, 4.
- Bertaux, L., Quang, LH., Sinau, V., Thanh, NX., Parzy, D. 2009. New PfATP6 mutation found in Plasmodium falciparum isolates from Vitenam. *Antimicrobial agents and chemotherapy*, 53(10), pp 4570-1
- Beshir, K., Sutherland, CJ., Merinopoulos, I., Durrani, N., Leslie, T., Rowland, M., Hallet, RL. 2010. Amodiaquine resistance in Plasmodium falciparum isolates from Vietnam, *Antimicrobial agents and chemotherapy*, 54(9), pp.3714-6
- Bhattarai, A., Ali, A.S., Kachur, S.P., 2007. Impact of artemisinin-based combination therapy and insectised treated nets in malaria burden in Zanzibar, *PLoS Med*, 4(11): e309.

- Biggs, N.A., dan Brown, G.V., 2001. *Malaria dalam Principles and Practice of Clinical Parasitology*, Chichester, England: Jhon Willey and Sons, LTD.
- Briand V, 2016. Prevalence of malaria in pregnancy in southern Laos: a cross-sectional survey. *Malar J.* 15(436)
- Brunton, L., Parker, K., Blumenthal, D., Buxton, I. 2008. *Goodman and Gilman's Manual of Pharmacology and Therapeutics*. New York: Mac Graw Hill Medical.
- Carrara VI, Zwang J, Ashley EA. 2009. Changes in the treatment responses to artesunate-mefloquine on the north western border of Thailand during 13 years of continuous deployment. *Plos One.* 4. P4551.
- Castellini MA, Buguliskis JS, Casta LJ, 2011. Malaria drug resistance is association with defective DNA mismatch repair. *Mol.Biochem.Parasitol.* 177, p143-147
- Centers for Diseases Control and Prevention. 2012. Malaria. Available at : <http://www.dpd.cdc.gov/dpdx>
- Chatterjee M, Ganguly G, Saha P, Bankura B, Basu N, Das M *et al*, 2015. No polymorphism in Plasmodium falciparum K13 gene in clinical isolates from Kolkata India, *J of Path*, 7(4).
- Cheng, Q., Cloonan, Ni., Fischer, K., Thomson, J., Weine, G., Lanzer, M., Saul, A., 1998. Stevor and rif are *Plasmodium falciparum* multi copy gene families with potentially encode variant antigen. *Molecular anf Biochemical Parasitology*, 97(1-2), pp.161-176.
- Conrad, M.D., Bigira, V., Kapisi, J., Muhindo, M., Kanya, M.R., Havlir, D.V., Dorsey, G., Rosenthal, P.J., 2014. Polimorphisms in K13 and Falcipain-2 asoociated with artemisinin resistance are not perevalent in *Plasmodium falciparum* isolated form Ugandan children. *Plos one*, 14(168)
- Cui L, Yan G, Sattabongkot J, 2011. Malaria in greater mekong subregion : heterogeneity and complexity. *Acta Trop.* 121, p227-239
- Dahlstrom, S., Vieira M.I., Ferreira, P., 2008. Diversity of the sarco/endoplasmic reticulum Ca(2+)-ATPase orthologue of Plasmodium falciparum (PfATP6) infection, genetics and evolution : journal of molecular epidemiology and evolutionary genetics in infectious diseases, 8(3), pp340-5.
- Dahlstrom, S. 2009. *Role PFATP6 and Pf MDRI in Plasmodium falciparum Resistance to Antimalarial Drugs*. Stockholm: Karolinka Institute

- Depkes RI, 2008. Pedoman Penatalaksanaan Kasus Malaria di Indonesia, Jakarta : Departemen Kesehatan Republik Indonesia.
- Depkes RI. 2009. Profil Kesehatan Indonesia Tahun 2008. Jakarta : Departemen Kesehatan Republik Indonesia.
- Depkes RI, 2015. Situasi Terkini Program Pengendalian Malaria di Indonesia Tahun 2014, Jakarta : Departemen Kesehatan Republik Indonesia.
- Dinas Kesehatan Propinsi Lampung, 2015. Profil Kesehatan Lampung 2013. Lampung
- Dinas Kesehatan Kabupaten Pesawaran, 2015. Evaluasi Program Pemberantasan Penyakit Menular (Malaria) Tahun 2014. Pesawaran, Lampung
- Djimde, A., Doumbo O.K., Cortese, J.F., Kaeyento, K., 2001. A Molecular marker for chloroquine resistant falciparum malaria. *The New England Journal of Medicine*, 344(4). Pp.257-263.
- Dondrop AM, Nosten F, Yi P, 2009. Artemisinin resistance in Plasmodium falciparum malaria. *N.Engl.J.Med.* 361, p455-467.
- Dondrop, A.M., Ringwald P., 2009. Artemisinin resistant is clear and present danger, *Trends Parasitol*, 29, p359-360.
- Garcia, L.S. dan Bruckner, D.A., 1997. *Diagnostic Medical Parasitology* 3rd ed., Washington DC: ASM Press
- Gardner, M.J., Hall, N., Fung, E., White, O., Berriman, M., Hyman, R.W., Carlton, J.M., Pain, A., Nelson, K.E., 2002. Genom sequence of the human malaria parasite *Plasmodium falciparum*. *Nature*, 419 (6906), pp.498-511.
- Gehlawat VK, Arya V, Kausik JS, Gathwala G, 2013. Clinical spectrum and treatment outcome of severe malaria caused by Plasmodium vivax in 18 children from northern India. *Pathohen and Global Heath.* 107(4)
- Golenser, J., Wagnine, JH., Krugliak, M. 2006. Current perspectives on mechanism of action of artemisinins. *International journal of parasitology*, 36(14), pp 1427-41
- Hansky IA and Simberloff D, 1997. *The metapopulation approach, its history, conceptual domain and application to conservation.* P5-26 in Hansky IA, and Gillpin ME, Eds. *Metapopulation biology : ecology, genetics, and evolution.* Academic Press. San Diego

- Heelan, J.S dan Ingersoll, F.W., 2002. *Essential of Human Parasitology*, Alhani (NY): Delmar Thomson Learning, Inc.
- Humpreys, G.S., Merinopoulous, I., Ahmed, J., Whitty, C.J., Mutabingwa, T.K., Sutherland, C.J., Hallet, R.L., 2007. Amodiaquine and arthemeter-lumefantrine selected distinct alleles of *Plasmodium falciparum* *mdr1* gene in Tanzanian children treated for uncomplicated malaria. *Antimicrobial agents and chemotherapy*, 51(3). Pp.991-997
- Ibrahim, ML., Khim, M., Adam, HH., Ariey, F., Duchemin, JB. 2009. Polymorphism of PfATPase in Niger. Detection of three new points. *Malaria journal*, 8, p 28.
- Iwagami M, Rivera PT, Villacorte EA, 2009. Genetic diversity and population structure of *Plasmodium falciparum* in the Phillipines. *Malar.J.* 8, p96.
- Isozumi R, Uemura H, Kimata I, Ichinose Y. Novel mutation in K13 propeller gene of artemisinin-resistant *Plasmodium falciparum*. *Emerg.Infect.Dis.*21(3)
- Jambou, R., Martinelli, A., Pinto, J., Gribaldo, S., Legrand, E., Niang, M., Kim, N., Cravo. P. 2010. Geographic structuring of *Plasmodium falciparum* sarco endoplasmic reticulum Ca²⁺ ATPase (PfSerca) gene diversity. *PlosOne*, 5(2), p.e9424.
- Jung, M. Kim, H., Nam, KY., No, KT. 2005. Three dimensional structure of *Plasmodium falciparum* PfATP6ase and docking of artemisinin derivatives to PfATP6. *Bioorganic and medical chemistry letters*, 15(12), p. 2994-7
- Kamelia, M., 2010. *Studi polimorfisme gen Plasmodium falciparum chloroquine resistant transporter (PfCRT) dari penderita malaria di kotamadya Bandar Lampung dan Kabupaten Lampung Selatan, Propinsi Lampung*. Program Pasca Sarjana Universitas Gajah Mada.
- Kannan, R., Kumar, K., Kukreti, S., Chauhan, VS. 2005. Reaction of artemisinin with haemoglobin : implications of antimalarial activity. *Biochem, J*, 418, pp.409-418
- Katzung, B.G., 2006. *Katzung's Basic and Clinical Pharmacology*, San Fransisco: Mc Graw Hill Medical.
- Kementrian Kesehatan Republik Indonesia, 2011a. *Pedoman Penatalaksanaan Kasus Malaria di Indonesia*. Jakarta: Direktorat Jendral Pengendalian Penyakit dan Penyehatan Lingkungan.

- Kementrian Kesehatan Republik Indonesia, 2011b. Profil Kesehatan Republik Indonesia 2010. Jakarta : Kementrian Kesehatan Republik Indonesia.
- Kementrian Kesehatan Republik Indonesia, 2014. Profil Kesehatan Republik Indonesia 2013. Jakarta : Kementrian Kesehatan Republik Indonesia.
- Kyaw MP, Nyunt MH, Chit K, 2013. Reduced susceptibility of Plasmodium falciparum to artesunate in southern Myanmar. *PLoS One*. 8. (3)
- Kyes, S.A., Rowe, J., Kriek, N., Newbold C.I., 1999. Riffins : A second family of clonally variant protein expressed on the surface of the red cell infected with Plasmodium falciparum. *Proc. Natl.Acad. Sci. USA*, 96(August 1999). Pp.9333-9338
- Lim, P., Arker, AP., Khim, N, Arie, F. 2009. PfMDR1 copy number and artemisinin derivatives combination therapy failure in Plasmodium falciparum in Cambodia. *Malaria journal*, 8, p.11
- Lopes, D., Rungsihirunrat, K., Nogueira, F., Seougorn, A., Gill, J.P., Rosario, F.E., Cravo, P., 2002. Molecular characterization of drug resistant Plasmodium falciparum from Thailand. *Malaria Journal*, 1(12). Pp.1-11.
- Madamet, M.T., Fall, B., Benoit, C., Camara, C., Amalvict, R., Fall, M., Dione, P., Fall, KB., Nakoulima A., Diatta, B., Dieme, Y., Menard, D., Wade, B., Pradines, B., 2014. Limited polymorphisms in K13 gene in Plasmodium falciparum isolates in Dakar, Senegal in 2012-2013, *Malaria Journal*, 13:472.
- Markell, E.K., Voge, M. Dan John, D.T., 1986. *Medical Parasitology* 6th ed., Philadelphia: WB Saunders Company
- Mackinnon MJ, 2005. Drug resistance model for malaria. *Acta Trop*. 94. P207-217
- Menegon, M., Sanella, AR., Majorie, G., Severini, C., 2008. Detection of novel point mutation in the Plasmodium falciparum ATPase6 candidate gene for resistance of artemisinin. *Parasitology International*, 57(2), pp.233-5.
- Mendrofa, E. 2008. *Analisis spasial kasus malaria di Kecamatan Lahewa Kabupaten Nias Propinsi Sumatera Utara tahun 2006 dan 2007*. Program Studi Ilmu Kesehatan Masyarakat Pasca Sarjana Universitas Gajah Mada.
- Mishra N, Parajapati SK, Kaitholia K, 2016. Surveillance of artemisinin resistance in Plasmodium falciparum in India using the Kelch 13 molecular marker. *AAC. ASM.Org*. 59(9)

- Mita T, and Tanabe K, 2012. Evolution of *Plasmodium falciparum* drug resistance for the development and containment of artemisinin resistance. *Jpn.J.Infect.dis.*65, p465-475
- Mohon, A.N., Alam, M.S., Bayih, A.G, Folefoc, A., Shahinas, D., Haque R., Pillai, D.R., 2014. Mutation in Plasmodium falciparum K13 Propeller gene form Bangladesh (2009-2013). *Malaria Journal*, 13(431),
- Monroe A, Asamoah O, Lam Y, 2015. Outdoor-sleeping and other night-time activities in northern Ghana: implications for residual transmission and malaria prevention. *Malaria Journal*, 13(431), 14, 35.
- Natadisastra, D dan Rusmartini, T 1999. *Bunga Rampai Protozoologi Kedokteran*, Edisi 2, Jatinangor Bandung: Bagian Parasitologi FK Unpad.
- Noedl H, 2005. Artemisinin resistance : how can we find it?. *Trends Parasitol.* 21 p404-405
- Noedl H., Se, Y., Schecer K., Smith B.L., Socheat D., Fukuda, MM., 2008. Evidence of artemisinin-resistant malaria in Western Cambodia. *N Engl J Med*, 359, pp.2619-2620.
- O'Brien, C., Henrich, P.P., Passi, N., Fidock, D.A., 2011. Recent clinical and molecular insight into emerging artemisinin resistance in Plasmodium falciparum. *Cur Opin Infect Dis*, 24 (570)
- Oackley MS, Gerald N, Mc Cutchan TF, Aravind L, Kumar S, 2011. Clinical and molecular aspects of malaria fever. *Trends in Parasitol.* 27(10), p442-449
- Phillips A, Bassett, Zeki, Newman S, 2009. Risk Factors for Severe Disease in Adults with Falciparum Malaria. *Clin.Infect.Dis.* 48, p871-878
- Price RN, Nosten F, Luxemburger C, ter Kuile FO, Paiphun L, Chongsuphajaisiddhi T, White NJ, 1996. Effects of artemisinin derivatives on malaria transmissibility, *Lancet*, 347(9016), pp.1654-8.
- Rang, Hp., Dale, M., Ritter, JM., Flower, RJ. 2007. *Rang and Dales Pharmacology* 6th Ed. Elsevier Inc
- Rathod PK, McArlean T, Lee PC, 1997. Variations in frequencies of drug resistance in *Plasmodium falciparum*. *Proc.Natl.Acad.Sci.USA*, p 9389-9393

- Rodrigues, L., Henriques, G., Borges, ST., Hunt, P., Sanchez, SP., Martinelli, A., Cravo, P., 2010. Experimental evolution of resistance to artemisinin combination therapy result of amplification *mdr1* gene in rodentia malaria parasite, *PLoS One*, (July), pp.1-10
- Roger WO, Sem R, Tero T, 2009. Failure of artesunate-mefloquine combination therapy for *Plasmodium falciparum* malaria in southern Cambodia. *Malar J.* 8. 10
- Schwartz E, Sadetzki S, Murad H, Raveh D, 2001. Age as a Risk Factor for Severe *Plasmodium falciparum* Malaria in Nonimmune Patients. *Clin.Infect.Dis.* 33, p1774–1778
- Sewa MY. (2013) Evaluasi Penggunaan Dihidroartemisinin+Piperakuin dan Primakuin pada pengobatan malaria falciparum tanpa komplikasi di kota Sorong Provinsi Papua Barat, (Thesis)
- Sidhu, A.B.S., Valdermoss, S.G., dan Fiddock, D.A., 2005. Pfm⁵*mdr1* mutations contribute to quinine resistant and enhance mefloquine and artemisinin sensitivity in *Plasmodium falciparum*., 57.pp.913-926
- Snow, R.W., Trape, J.F., Marsh, K., 2001. The past, present and future of childhood malaria mortality in Africa. *Trends Parasitol*, 17, pp.593-7
- Sulistiowati, Z.D., 2011. *Analisis spasial kejadian malaria di Kecamatan Sosoh Buay Rayap Kabupaten Ogan Komering Ulu*, Program Studi Ilmu Kesehatan Masyarakat Pascasarjana Universitas Gajah Mada.
- Suwandi JF, 2007. *Aktifitas antiplasmodium ekstrak daun sungkai (Peronema canescens) : kajian aktifitas antiplasmodium in vitro dan in vivo, aktivitas penghambatan polimerase hem dan aktifitas sitotoksik terhadap sel vero*. Ilmu Kedokteran Dasar dan Biomedik Fakultas Kedokteran UGM.
- Suwandi, J.F., 2014. *Polimorfisme gen Pfm⁵*mdr1* dan Pfatpase6 pada isolat Plasmodium dari penderita malaria falciparum di Kabupaten Pesawaran*. Program Pasca Sarjana Universitas Gajah Mada.
- Tahar R, Ringwald P, Bosco L, 2009. Cameroon. XXVIII. In vitro activity of dihydroartemisinin againsts clinical isolates of *Plasmodium falciparum* and sequence analysis of P.falciparum ATPase6 gene, 81(1), pp.13-19.
- Trampuz A, Jerreb M, Muzlovic I, 2003. Clinical review : severe malaria. *Critical Care.* 7 (4)

- Trevor AJ, Katzung BG, Master AB, 2002. Katzung and Trevor's Pharmacology. 6th ed. New York : Lange Medical Books
- Verdreager J, 1986. Epidemiology of the emergence and spread of drug resistance falciparum malaria in Southeast Asia and Australasia. *J.Trop.Med.Hyg.* 89, p277-289
- Waldman SA and Terzic A, 2009. Pharmacology and Therapeutics Principles to Practise. Philadelphia : Saunders Elseviers.
- Warhurst, D.C., 2001. A molecular marker for chloroquine resistant falciparum malaria. *The New England Journal of Medicine*, 344(4). Pp.299-302.
- Winzler EA, Manary MJ, 2014. Drug resistance genomic of the antimalarial drug artemisinin. *Genome biology*, 15(544)
- White N.J., 2004. Antimalarial drug resistance, *J. Clin Invest*, 113, pp.1084-1092
- White NJ, Pongtavornpinyo W, Maude RJ, 2009. Hyperparasitemia and low dosing are an important source of anti malarial drug resistance. *Malar J.* 8. P253
- WHO, 2003. *Assesment and monitoring of antimalarial drug efficacy for the treatment of uncomplicated falciparum malaria*, Geneva:WHO. The Institute
- WHO, 2006. *Guidelines for the treatment of malaria*, Geneva :WHO. The Institute
- WHO, 2011. *Global plan for artemisinin resistance containment*, Geneva :WHO. The Institute
- WHO, 2014. *Global Malaria Programme : Status report on artemisinin resistance 2014*. Geneva. WHO. The Institute.
- WHO, 2015. *Global Malaria Programme : Status report on artemisinin resistance 2015*. Geneva. WHO. The Institute.
- WHO, 2015. *World Malaria Report 2014*. Geneva. WHO. The Institute.
- Wright S, 1952. The theoretical variance within and among subdivision of a population that is in steady stage. *Genetics*. 37, p312-321