

## DAFTAR PUSTAKA

- Adrial., Mardihusodo S, Tjokrosonto JS, Atmosoedjono S. 2000. Penentuan status vektor malaria nyamuk *An.balabacensis* (Diptera, Culicidae) di Kecamatan Kokap. Yogyakarta: *Inherent UGM*.13: 89-98.
- Agus SH. 2011. *Genetika edisi-1*. Jakarta: Graha Ilmu. 163-195.
- Alphaxard M., Nuno Sepulveda, Behzad Nadjim, George Mtove, Hannah Wangai, Caroline Maxwell, Raimos Olomi, Hugh Reyburn, Eleanor M. Riley, Christopher J Drakeley, Taane G. Clark and Malaria GEN Consortium. 2015. African Glucose-6-Phosphate Dehydrogenase alleles associated with protection from severe malaria in heterozygous female in Tanzania. *Plos Genetics*. 10 (371): 2-10.
- Ainil JB. 2007. Pola Mutan Gen Glukosa 6 Fosfat Dehidrogenase (G6PD) Di Surabaya. *Majalah Ilmu Faal Indonesia*. 6 (3): 9-12
- Angelo Minucci., Kamran Moradkhani, Ming Jing Hwang, Cecilia Zuppi, Bruno Giardina, Ettore Capoluongo. 2012. Glucose-6-Phosphate Dehydrogenase (G6PD) Mutation Database: Reviewn Of The “Old” and update of the new mutations. *Blood Cells, Molecules, and Diseases, Elsevier*. 48: 154-165.
- Anna LP., Cornelis. JF, and Van Noorden. J. 2009. *Glucose-6-phosphate dehydrogenase deficiency and malaria: Cytochemical detection of heterozygous G6PD deficiency in women. Journal of JHC*. SAGE.57:1003-1015.
- Asia Pacific Malaria Elimination Network (APMEN) Vivax Working Groups. 2012. *APMEN G6PD Workshop in May 2012, Thailand (unpublished)*.
- Applied Bio-system. 2000. *DNA sequencing system protocol*. United States Biochemical Corporation. version 2.0 (DNA sequencing protocols).
- Arif SH. 2007. Sickle cell disease and malaria. *Indian J Hematol*. 23: 70-72.
- Ari WS., Arkasha Sadhewa, Venessa Baramuli, Rosalie Elvira, Chase Ridenour, Iqbal Elyazar, Rintis Noviyanti, Farah Novita Coutrier, Alida Roswita Harahap, and J. Kevin Baird. 2015. G6PD deficiency at Sumba in Eastern Indonesia is prevalent, diverse and severe; implications for primaquine therapy against relapsing vivax malaria. *Plos Neglected Tropical Disease*. 10 (1371): 1-17.
- Arrai M., Kosuge K, Kawamoto F, and Matsuoka H. 2006. Reactivity of blood samples in to filters papers in the wst-8 method for screening of G6PD deficiency. *Acta Med Okayama*. 60: 127-134.

- Ashok Agarwal., Sajal Gupta, and K. Rakesh Sharma. 2005. Role of oxidative stress in female reproduction. *REBJ.BioMed Central*. 3 (28): 3-28.
- Atul MD., J. Philip, MD. Mason, J. Tom, and Vulliamy. 2000. Glucose-6-Phosphate Dehydrogenase deficiency. *Sciencedirect*.13: 21-38.
- BD life sciences. 2015. *BD life sciences-preanalytical systems*, Product catalog. 1-Becton Drive Franklin Lakes. NJ 07417.USA:1-4.
- Bereczky SA., JP. Martenson, AG. Farnert. 2005. Interactions between malaria parasites and the host immune system. *Curr opin immune*.17: 381-387.
- Beutler E. 1996. *G6PD: Population genetics and clinical manifestations*. *blood review* (online). 10 (1): 45-52, (<http://www.nus.edu.sg/15hapd/1996/023/pdf>. diakses 12 Oktober 2012).
- Beutler E and Vulliamy TJ. 2002. Hematologically important mutations, glucose-6-phosphate dehydrogenase. *Blood Cells Mol Journal*. 28: 93-103.
- Beutler E., Duparc S and G6PD deficiency Working Groups. 2007. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency and antimalarial drug development. *ASTMH*. 77 (4): 779-789.
- Beutler E and Vulliamy TJ. 2010. Hematologically important mutations, Glucose-6-Phosphate Dehydrogenase (G6PD). *Blood Cells Mol Dis*. 8: 80-88.
- Beutler E., Duparc S and G6PD deficiency working groups. 2007. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency and antimalarial drug development. *ASTMH*. 77 (4): 779-789.
- Bottini E. 1973. Favism: current problems and investigations. *JMG*.10: 154-157.
- Brooker RJ. 2009. *Genetic: analysis and principles*. McGraw-Hill Higher Education: 844-849.
- Brown HW. 1992. *Dasar Parasitologi Klinis*. Dalam Harijanto, P.N., Agung Nugroho, A. Carta Gunawan. 2009. *Malaria Dari Molekuler ke Klinis*. Edisi-2. Jakarta: EGC. Gramedia: 96-128.
- Cambell NA., JB. Reece, LA, Urry, ML, Chain, SA, Wasserman, PV. Minorsky, and RB. Jackson. 2010. Dalam D.T Wulandari. *Biologi*. Jakarta: Erlangga Press: 7: 486.
- Carter SM. 2002. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency. e-Medical World Library (online),(<http://www.eMed.edu.sg/15hapd/2002/056.pdf>, diakses 12 Oktober 2012).
- Cappellini MD and G. Fiorelli. 2008. Glucose-6-Phosphate Dehydrogenase deficiency (G6PDd). *Lancet*. 371: 64-74.

- Carine Van Malderen., Jean Pierre Van Geertruyden, Sonia Machevo, Raquel Gonzalez, Quique Bassat, Ambrose Talisuna, Adoke Yeka, Carolyn Nabasumba, Patrice Piola, Atwine Daniel, Eleanor Turyakira, Pascale Forret, Chantal Van Overmeir, Harry Van Loen, Annie Robert, and Umberto D'Alessandro. 2012. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency, chlorproguanil-dapsone with artesunate and post-treatment haemolysis in African children treated for uncomplicated malaria. *Malar J.* 11 (139): 2-7.
- Carter Nick, Allan Pamba, Stephan Duparc and John N Waitumbi. 2011. Frequency of glucose-6-phosphate dehydrogenase deficiency in malaria patients from six African countries enrolled in two randomized anti-malarial clinical trials. *Malar J.* 10 (241): 2-14.
- Chan TK. 2003. Glucose-6-Phosphat Dehydrogenase (G6PD) deficiency; A Review, (online), (<http://www.cchi.can.hk/specialtopic/case1/case1.htm>, diakses pada 17 September 2012).
- Chan TK. 2006. Glucose-6-Phosphat Dehydrogenase (G6PD) deficiency; A Review, (online), (<http://www.cchi.can.hk/specialtopic/case1/case1.htm>, diakses pada 17 September 2012).
- Chin J. 2000. *Control of Communicable Diseases*. Baltimore: USA. United Book Press.
- Christine Manyando., Kassoum Kayentao, Umberto D'Alessandro, Henrietta U Okafor, Elizabeth Juma, and Kamal Hamed. 2012. A systematic review of the safety and efficacy of artemether-lumefantrine against uncomplicated *Plasmodium falciparum* malaria during pregnancy. *Malar J.* 11 (141): 2-13.
- Christina Marenzi., Lazzaro Repetto, Gavino Forteleoni, Tullio Meloni, and Gian Franco Gaetani. 1984. Favism; looking for an autosomal gene associated with Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency. *JMG.BMJ.* 21: 278-280.
- Chistos AK., Athanasios Chaidas, and Stavros Chaidas. 1969. G6PD deficiency and favism in the Island of Rhodes (Greece). *J Med. Genet.* 6: 286-291.
- Cornelia ER., J. Anette, Michel, A. Daniel Maselli, Karimov Saipphudin, and Kaspar Wyss. 2006. Frequency of malaria and Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency in Tajikistan. *Malar J.* 5 (51): 1-8.
- Colin O., W. Roberts Kathryn, JW. Hugh Sturrock, Jennifer Wegbreit, Y. Lee Bruce, and D. Roly Gosling. 2015. Information systems to support surveillance for malaria elimination. *Malar J.* 93 (1): 145-152.
- Cox SJ., Davis TME, Lee KS. 2008. *Plasmodium knowlesi* malaria in humans is widely distributed and potentially life threatening. *Clin Infect Dis.* 46 (2): 165-171.

- Damanik SM., Urgasena IDG, Harianto A, Indarso F, Sarwono E, Matsuo M. 2001. Mass screening of G6PD in Dr. Soetomo general hospital. *F. Acta Med Indonesia*. 37 (2): 63-65.
- Dalooi MR., and Pajoo Danesh. 2008. Molecular basic of G6PD deficiency; current status and It's perspective. Department of Medical Genetics, School of Medicine: Tehran University. *Acta Medica Iranica*. 46 (3): 167-182.
- Daud D. 2003. Peranan enzim Glukosa-6-Phosfat Dehidrogenase (G6PD) pada sel darah merah. Makalah disampaikan pada *Simposium nasional nefrologi anak IX dan hematologi-onkologi anak; Tatalaksana mutakhir penyakit ginjal dan hematologi-onkologi anak se-Indonesia* (Tidak diterbitkan). IDAI. Surabaya: 82-88.
- David LS., Justin CJ, Christinah Chiyaka, Geoffrey Johnston, Gething PW, Roly Gosling, Buckee CO, Ramanan Laxminarayan, Hay IS, and Andrew JT. 2013. A sticky situation: the unexpected stability of malaria elimination. *RSIF*. 10: 2-13.
- Depkes RI. 1999. *Penatalaksanaan kasus malaria untuk dokter rumah sakit di Kabupaten*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP Direktorat Pemberantasan Penyakit Bersumber Binatang.
- Depkes RI. 2001. *Buletin epidemiologi malaria*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP Direktorat Pemberantasan Penyakit Bersumber Binatang.
- Depkes RI., Johns Hopkins Center for Communication Programs, The Center for Development and Population Activities, The Program for Appropriate Technology in Health. 2003. *Pencegahan dan pengendalian malaria dalam kehamilan*. Buku acuan untuk tenaga kesehatan. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP Direktorat Pemberantasan Penyakit Bersumber Binatang.
- Depkes RI. 2004. *Kajian riset operasional intensifikasi pemberantasan penyakit menular*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).
- Depkes RI. 2005. *Jumlah kasus dan angka kesakitan penyakit malaria di Indonesia*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).
- Depkes RI. 2006. *Pedoman penatalaksanaan kasus malaria di Indonesia*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).
- Depkes RI. 2007. *Pedoman program nasional pengendalian malaria di Indonesia (2007-2029)*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP (Direktorat Pengendalian Penyakit Bersumber Binatang).

Depkes RI. 2008.a. *Jumlah kasus dan angka kesakitan penyakit malaria di Indonesia*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).

Depkes RI. 2008.b. *Pedoman program nasional pengendalian malaria di Indonesia*. Jakarta: Departemen Kesehatan Republik Indonesia, Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).

Depkes RI. 2008.c. *Pelayanan kefarmasian untuk penyakit malaria*. Jakarta: Departemen Kesehatan Republik Indonesia, Direktorat Bina Farmasi Komunitas dan Klinik (Ditjen Bina Kefarmasian dan Alat Kesehatan).

Dinkes Prop. NTT. 2011. *Profil kesehatan Propinsi Nusa Tenggara Timur (NTT) 2010-2011*. Kupang: Dinas Kesehatan Propinsi NTT.

Dinkes Prop. NTT. 2013. *Profil kesehatan Propinsi Nusa Tenggara Timur (NTT) 2012-2013*. Kupang: Dinas Kesehatan Propinsi Nusa Tenggara Timur.

Dinkes Kab. TTS. 2013. *Profil kesehatan Kabupaten Timor Tengah Selatan (TTS), Propinsi Nusa Tenggara Timur (NTT) 2012-2013*. Soe: Dinas Kesehatan Kabupaten Timor Tengah Selatan.

Dolie DL., L. Patrick Sutton, Nutan Nanda, Vijay LS, Ranbir CS, Jane MC, and Hema Joshi. 2012. The complexities of malaria disease manifestations with a focus on asymptomatic malaria. *Malar J.* 11 (29): 2-13.

Domingo JG., Satyagraha AW, Anup Anvikar, Kevin Baird, Germana Bancone, Pooja Bansil, Nick Carter, Qin Cheng, Janice Culpepper, Chi Eziefula, Mark Fukuda, Justin Green, Jimée Hwang, Marcus Lacerda, Sarah McGray, Didier Menard, Francois Nosten, Issarang Nuchprayoon, New New Oo, Pongwit Bualombai, Wadchara Pumpradit, Kun Qian, Judith Recht, Arantxa Roca, Wichai Satimai, Siv Sovannaroeth, Lasse Vestergaard and Lorenz Von Seidlein. 2013. G6PD testing in support of treatment and elimination of malaria: recommendations for evaluation of G6PD test. *Malar J.* 392: 1-12.

Donoso G., Hedayat H, and Khayatian H. 1969. Favism, with special reference to Iran. *Bull. Org. mond. Sante.* 40: 513-519.

Eijkman Institute for Molecular., Depkes RI, Unicef. 2010. *Diagnosis laboratorium malaria di Indonesia: petunjuk untuk peserta pelatihan (tidak dipublikasikan)*. Eijkman, Jakarta.

Elsa Herdiana Murhandarwati., Anis Fuad, Sulistyawati, Mahardika Agus Wijayanti, Micheal Badi Bia, Barandi Sapta Widartono, Kuswantoro, Neil FL, Supargiyono and Hawley AW. 2015. Change of strategy is required for malaria elimination: a case study in Purworejo District, Central Java Province, Indonesia. *Malar J.* 14 (318): 2-12.

Enasrullah. 2012. Protokol terapi malaria di Indonesia (online), (<http://journal>



Wordpress.com: 2-7, diakses 12 Juni 2015).

Fahmi U. 2001. Malaria di tempat pengungsian. Makalah di sampaikan pada acara Nasional *partnership meeting in roll back malaria* di Jakarta (tidak diterbitkan).

Fairhurst RM., Baruch DI, Brittain NJ, Ostera GR, Wallach JS. 2005. Abnormal display of pfemp-1 on erythrocytes carrying haemoglobin-c may protect against malaria. *Nature*. 435: 1117–1121.

Farida Chamchod., and John CB. 2013. Modeling *Plasmodium vivax*: relapses, treatment, seasonality, and G6PD deficiency. *Elsevier*. 316: 25-34.

Farmedia. 2005. Malaria update from basic science to clinical practice. *EJM*. 7:15-18.

Frank JE. 2005. Diagnosis and management of G6PD deficiency. *AM Fam Physician*. 72: 1277-1282.

Ganczakowski MT., Bowden DK, Vulliamy TJ, Kaneko A, Clegg JB, Weatherall DJ, and Luzatto L. 1995. Multiple Glucose-6-Phosphate Dehydrogenase (G6PD) deficient variants correlated with malaria endemicity in the Vanuatu archipelago (Southwestern Pacific). *Am.J.Hum.Genet*. 56: 294-301.

Gandomani MG., Khatami SR, Nezhad SR, Daneshmand S, and Mashayekhi A. 2011. Molecular identification of G6PD *chatham* (G1002A) in Khuzestan Province of Iran. *J. Genet*. 90: 143-145.

Gelehrter, T.D., Collins, F.S., Ginsburg D., 1998, Principles of Medical Genetics, 2001 ed, Williams & Wilkins

Gilles HM., Warrell DA, Bruce-Chwatt, Edward Arnold. 2000. The malaria parasites and essential malariology. London. 3: 12-27.

Gerardo V., Eliakym, and Arambula M. 2006. DNA sequencing analysis of several G6PD variants previously defined by PCR-restriction fragment length polymorphism (PCR-RFLP) analysis. *GMB. Brazil*: 29 (1): 31-35.

Gomella TL., Cunningham MD, and Eyal FG. 2004. Neonatology; Management procedures, on-call problems, diseases and drugs. New York: Lange Medical Book. McGraw-Hill: 247-50.

Gracia LS., and Bruckner AD. 1996. Diagnostik parasitologi kedokteran (terjemahan). Jakarta: EGC.

Greenwood B. 2010 Anti-malarial drugs and the prevention of malaria in the population of malaria endemic areas. *Malar J*. 9:1-7.

Gunawan S. 2000. Epidemiologi Malaria. Dalam Harijanto PN (editor). *Malaria, epidemiologi, patogenesis, manifestasi klinis dan penanganan*. Jakarta:EGC: 1-15.

Harijanto PN. 2000. Malaria, epidemiologi, patogenesis, manifestasi klinis dan penanganan. Jakarta: EGC.

Harijanto PN., Nugroho A, Carta AG. 2009. Malaria dari molekuler ke Klinis. Edisi-2. Jakarta: EGC: 118-144.

Harley JD and Helen Robin. 1965. Favism in Australia. Children's Medical Research Foundation, Royal Alexandra Hospital for Children, Camperdown, New South Wales. *BMJ*. N.3.534

Hasyim H. 2008. Manajemen penyakit lingkungan berbasis wilayah. *JMPK*.11: 72-76.

Heidi Reid., Andrew Valley, George TJ, Andrew Tatem, Gerard Kelly, Ian Riley, Ivor Harris, Iata Henri, Sam Lamaher, and C. A Archie Clements. 2010. Baseline spatial distribution of malaria prior to an elimination programme in Vanuatu. *Malar J*. 9 (150): 2-9.

Hiroyuki M., Meiji Arai, Shigeto Yoshida, Indah Setyawati Tantular, Suhintam Pasarawati, Henyo Kerong, and Fumihiko Kawamoto. 2003. Five Different Glucose-6-Phosphate Dehydrogenase deficiency (G6PDd) variants found among 11 G6PD-d persons in Flores island, Indonesia. *The Japan Society of Human Genetics and Springer-Verlag, Hum genet*. 48: 541-544.

Hiroyuki M., Chea Nguon, Toshio Kanbe, Amadu Jalloh, Hiroko sato, Shigeto Yoshida, Makoto Hirai, Meiji Arai, Doung Socheat, and Fumihiko Kawamoto. 2005. Glucose-6-Phosphate Dehydrogenase (G6PD) mutations in Cambodia: G6PD Viagchan (871 G A) is the most common variant in the Cambodian population. *J Hum Genet*. 50 (468): 468-472.

Hiswani. 2004. *Gambaran penyakit dan vektor malaria di Indonesia* (Thesis S.2 yang diterbitkan dalam *Journal USU digital library*). Program Pasca Sarjana, Fakultas Kesehatan Masyarakat (FKM) Universitas Sumatera Utara (USU).

Hongvivatana T., Leerapan P, and Chaiteeranuatsiri M. 2005. *Knowledge perception and behavior of malaria*. Bangkok: Center for health policy studies Mahidol University.

Holt JM and Sladden, RA. 1965. Favism in Britain. Arch. Dis. Childn. Department of Pathology, Northampton General Hospital. *BMJ*, 1, 1377. 1140.

Howes RE., Battle KE, Satyagraha AW, Baird JK and Hay SI. 2013. G6PD deficiency: global distribution, genetic variants and primaquine therapy. *Elsevier*. 81: 133-201.

Howes RE, Mewahyu Dewi, Fredic B Piel, Wuelton M Monteiro, Katherine E Battle, Jane P Messina, Anavaj Sakuntabhai, Ari W Satyagraha, Thomas N Williams, J Kevin Baird, and Simon I Hay. 2013. Spatial distribution of

G6PD deficiency variants across malaria-endemic regions. *Malar J.* 12 (418): 2-15.

Hustache S., Naucher, M.F, Djossou, and Carme B. 2007. Malaria risk factor in Amerindian children in French Guiana. *Am. J. Trop. Med. Hyg.* 76 (4): 619-625.

Hundsdoerfer P., Vetter B, Kulozik A. 2002. Cronic haemolytic anemia, diabetic and Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency. Case report and review of the literature. *Acta Haematol.* 108 (2): 102-105.

Hyde JE. 2010. *Molecular parasitology*. New York: Van Nostrand Reinhold: 15-65.

Indah ST., Hiroyuki, Matsuoka, Yuichi Kasahara, Suhintam, Pusarawati, Toshio Kanbe, S. Josef Tuda, Yasutoshi Kido Yoes, Dachan P, and Fumihiko Kawamoto. 2010. Incidence and mutation analysis of Glucose-6-Phosphatase Dehydrogenase deficiency (G6PDd) In Eastern Indonesian population. *Acta Med, Okayama.* 64 (6): 367-373.

Iqbal ERF., Gething, PW. Patil AH. Rogayah, Kusriastuti R, Wismarini DM, Tarmizi SN, Baird JK, Hay SI. 2011. Plasmodium falciparum malaria endemicity in Indonesia in 2010. *Plos One.* 7 (5): 2-9.

Iqbal, ERF., Gething PW, Patil PA, Rogayah H, Kusriastuti R, Wismarini DM, Tarmizi SN, Baird JK, Hay SI. 2012. Plasmodium vivax malaria endemicity in Indonesia in 2010. *Plos One.* 7 (5): 2-6.

Iwai K., Matsuoka H, Kawamoto F, Horie T, Lin K, Tantular IS, Dachlan YP, Notopuro H, Hidayah NI, Salim AM, Fuji H, Miwa S, Ishii A. 2001. The distribution of G6PD mutations in Southeast Asia. *Hum. Genet.* 108: 445-449.

Iwai K., Matsuoka H, Kawamoto F. 2003. A rapid single-step screening method for Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency in Field applications. *J Stage.* 31: 93-97.

Jalloh A., Tantular IS, Pusarawati S, Kawilarang AP, Kerong H, Lin K, Ferreira MU, Matsuoka H, Arai M, Kita K, Kawamoto F. 2004. Rapid epidemiologic assessment of Glucose-6-Phosphate Dehydrogenase Deficiency (G6PD) in malaria-endemic areas in Southeast Asia using a novel diagnostic kit. *Trop Med Int Health.* 9 (5): 615-623.

Jauniaux E., Watson AL, Hemstock J, Bao YP, Skepper JN, Burton GJ. 2000. Onset of maternal arterial blood flow and placental oxidative stress. *Am J Pathol.* 157 (6): 211-238.

Jennifer E., Frank MA. 2005. Diagnosis and management of G6PD deficiency. Martin Army Community Hospital,. Georgia. USA: Fort Benning. 72: 1277-1282.



- Jesus R., Alvarez, Abdulla Al-Khan and Joseph JA. 2005. Malaria in pregnancy. Dalam Taylor and Francis. Arch Gynecol Obstet 13 (14): 229-236.
- Jichun Wang., Enjie Luo, Makoto Hirai, Meiji Arai, Abdul Salim, Abdul Manan, Zaleha Mohamed Isa, Noor IH, Matsuoka H. 2008. Nine different Glucose-6-Phosphate Dehydrogenase (G6PD) variants in a Malaysian population with Malay, Chinese, Indian and Orang Asli (Aboriginal Malaysian) backgrounds. *Acta Med. Okayama*. 62 (5): 327-332.
- Justin MC., Smith LD, Christ Cotter, Abigail Ward, Gavin Yamey, Oliver JS, and Bruno Moonen. 2012. Malaria resurgent: a systematic review and assessment of its cause. *Malar J*. 1 (22): 2-17.
- Kaplan MN., Algur C and Hammerman. 2001. Onset of jaundice in Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency neonate. *Pediatrics*.108: 956-959.
- Kappa Biosystems. 2013. *Kapa taq PCR Kits; Technical data sheet*. Boston: United States.
- Karimi M., Martinez FM, Danielli MG, Farjadian S, Afrasiabi A, Fiorelli G, and Cappellini MD. 2003. Molecular characterization of Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency in the fars Province of Iran. *Haematologica*. 88 (3): 346-347.
- Kathy LB., Germana Bancone, and Francois Nosten. 2010. The reality of using primaquine. *Malar J*. 9.(376): 2-5.
- Katherine EB., S. Markku Karhunen, Samir Bhatt, Gething PW, Howes ER, Nick Golding, Boekel VTF, Jane PM, Shanks GD, Smith LD, Baird JK and Hay IS. 2014. Geographical variation in *Plasmodium vivax* relapse. *Malar J*. 13 (144): 2-16.
- Kawamoto F., Matsuoka H, Tantular IS, Pusarawati S, Kerong HI, Wera DM, Kanbe T, and Dachlan YP. 2006. Further investigations of Glucose-6-Phosphate Dehydrogenase (G6PD) variants including a novel variant in Indonesia. *J Hum Gene*. 51: 952-957.
- Kemenkes, RI. 2011. *Pedoman program nasional pengendalian malaria di Indonesia*. Jakarta: Kementerian Kesehatan Republik Indonesia. Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).
- Kemenkes, RI. 2013. *Buletin pengendalian malaria di Indonesia*. Jakarta: Kementerian Kesehatan Republik Indonesia. Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).
- Kemenkes, RI. 2014. *Pedoman program nasional pengendalian malaria di Indonesia*. Jakarta: Kementerian Kesehatan Republik Indonesia. Ditjen PPM-PLP (Direktorat Pemberantasan Penyakit Bersumber Binatang).

- Kemenkes, RI. 2014. *Situasi malaria di Indonesia*. Jakarta: Kementerian Kesehatan Republik Indonesia. InfoDatin (Pusat data dan informasi).
- Koolman J., and Rohm KH. 2001. *Atlas Bewarna dan Teks Biokimia*. Alih bahasa: S.I. Wanandi. Jakarta: Hipokrates.
- Laksmi. 2006. Glucose-6-phosphate Dehydrogenase (G6PD) deficiency: from genotype to phenotype pathofisiology. Makalah disampaikan pada Jakarta.
- Lansing JS., Cox MP, Vet TA, Downey SS, Hallmark B, and Sudoyo H. 2011. An ongoing austronesian expansion in island Southeast Asia. *J. Antrop Archeol.* 30: 262-272.
- Lemeshow S., Hoswer JR, Klar DWJ, Wang SK. 1997. *Samples size in* (terjemahan). *Besar Sampel Dalam Penelitian Kesehatan*. Yogyakarta, Indonesia: Gajah Mada University Press, 86-75.
- Lim., Vulliamy FT, and Abdalla SH. 2005. An ashkenazi Jewish woman presenting with favism: case report. *J Clin Pathol.* 58: 317-319.
- Lim M, Li Ye Yang, Dong De Xie, Jiang Tao Chen, Santiago-m Monte Nguba, Carlos Sala Ehapo, Xiao Fen Zhan, Juan Urbano Monsuy Eyi, Rocio Apicante Matesa, Maximo Miko Ondo Obomo, Hui Yang, Hui Tian Yang, Ji Dong Cheng. 2015. G6PD deficiency and hemoglobinopathies: molecular epidemiological characteristics and healthy effects on malaria endemic Bioko Island, Equatorial Guinea. *Plos one.* 10 (4); e0123991.doi; 10.1371/journal.pone.0123991: 1-10.
- Li Qing, Fang Yang, Rong Liu, Lan Luo, Yuling Yang, Lu Zhang, Huaie Liu, Wen Zhang, Zhixiang Fan, Zhaoqing Yang, Liwang Cui, Yongshu He. 2015. Prevalence and molecular characterization of Glucose-6-Phosphate Dehydrogenase deficiency at the China-Myanmar border. *Plos One.* 10 (7); e0134593.doi; 10.1371/journal.pone.0134593.
- Lorenz Von Seidlein., Sarah Auburn, Fe Espino, Dennis Shanks, Qin Cheng, James McCarthy, Baird JK, Catherine Moyes, Howes R, Didier Menard, Germana Bancone, Satyagraha AW, Lasse, S. Vestergaard, Justin Green, Gonzalo Domingo, Shunmay Yeung, and Price RN. 2013. Review of key knowledge gaps in Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency detection with regards to the safe clinical deployment of 8-aminoquinoline treatment regimens: a workshop report. *Malar J.* 12 (112): 2-12.
- Lyseen AK., Nohr CM, Sorensen O, Gudes EM, Geraghty, Shaw NT, Bivona CB. 2014. A review and framework for categorizing current research and development in health related geographical information systems (GIS) studies. *IMIA Yearbook of Medical Informatics*: 110-124.
- Luzzatto, Lucio. 2006. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency:

- from Genotype to Phenotype. *Haematologica*.91 (10): 1303-1306.
- Luzzatto, Lucio and Vincenzo, Poggi. 2008. Glucose-6-Phosphate Dehydrogenase deficiency (G6PDd). *Hematology of infancy and childhood*. Elsevier. Philadelphia. 17: 2-25.
- Marai A. 2008. *Faktor-Faktor yang Berhubungan Dengan Dinamika Penularan Penyakit Malaria Falciparum di Kecamatan Nabire Kota* (Thesis S.2 tidak diterbitkan). Program Pasca Sarjana, Universitas Gadjah Mada Yogyakarta.
- Maria MM., Taniawati Supali, Aprilianto EW, Firdaus Hamid, Linda JW, Erliyani Sartono, Adrian JF, Eric AT, Maria Yazdanbakhsh, Maria Yazdanbakhsh, Lisette van Lieshout, and Jaco JV. 2013. Epidemiology of *Plasmodium* infections in Flores Island, Indonesia using real-time PCR. *Malar J*. 12 (169): 2-9.
- Marina Cappadoro., Giuliana, Estella O'Brien, Franco Turrini, Franca Mannu, Daniela Ulliers, Gino Simula, Lucio Luzzatto, and Paolo Arese. 1998. Early phagocytosis of Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency erythrocytes parasitized by *Plasmodium falciparum* may explain malaria protection in G6PD deficiency. *Ann Hematol, Blood*. 92 (7): 2527-2534.
- Mark A and Belsey. 1973. The epidemiology of favism. Human Reproduction, World Health Organization, 1211. Geneva 27, Switzerland: *Bull. Org. Mond. Sante*. 48: 1-13.
- Marks DB., Marks AD, Smith CM. 2001. Basic Medical Biochemistry: A Clinical Approach. Dalam B. U. Pendit. *Dasar-dasar biokimia kedokteran*. Jakarta: EGC.
- Martini GD., Toniolo T, Vulliamy, Luzzatto L, Dono R, Viglietto G, Paonessa G, Urso MD, and Persico MG. 1986. Structural analysis of the X-linked gene encoding human Glucose-6-Phosphate Dehydrogenase (G6PD). *The EMBO Journal*. 5 (8): 1849-1855.
- Masson PJ, Bautista JM, Gilsanz F. 2007. G6PD deficiency; the genotype-phenotype association. *Blood Rev*. 21: 267-283.
- Matsuoka H., Ishii A, Panjaitan W, Sudiranto R. 1996. Malaria and G6PD deficiency in North Sumatera, Indonesia, *Southeast Asian. J. Tropical Medicine Pub. Hlth*. 17 (4): 530-535.
- Matsuoka H., Arai M, Shigeto Yoshida, Tantular IS, Suhintam Pusarawati, Henyo Kerong, Fumihiko Kawamoto. 2003. Five different Glucose-6-Phosphate Dehydrogenase (G6PD) variants found among 11 G6PD deficient persons in Flores Island, Indonesia. *J Hum Genet*. 48: 541-544.
- McKee T and McKee JR. 2003. *Carbohydrate Metabolism in The Molecular Basic of Life*. New York, America: McGraw-Hill.

- McCarthy OR. 1961. Beans drugs and malaria. *BMJ*. 13 (5): 1377-1378.
- Mehdi N., Noel S. Reading, Andrew Campbell, Caterina P. Minniti, Sohail R. Rana, Lori Luchtman, Jones, Gregory J Kato, Mark Gladwin, Oswaldo L. Castro, Josef T, Prchal and Victor R. Gordeuk. 2010. Association of G6PD 292A, 376G with lower haemoglobin concentration but not increased haemolysis in patients with sickle cell anaemia. National Institute of Health (NIH) Public Access. *Br J Haematol*.150 (2): 218-225.
- Mesbah., Namin SA, Sanati MH, Noori Dalooi MR. 2000. Spread of the Glucose-6-Phosphate Dehydrogenase variant (G6PD *Mediterranean*) in one of The coastal provinces of Caspian Sea in Iran. *J. Sci. I. R. Iran*. 11 (4): 3-9.
- Mehta A., Mason PJ, and Vulliamy TJ. 2002. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency. *Best Pract Res Clin Haematol*.13 (1): 21-38.
- Minucci A., Giardiana B, Zuppi C, and Capoluongo E .2009. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency laboratory assay: How, when and why?. *IUBMB Life*. 61 (1): 27-34.
- Mohanty D., Mukherjee MB, Colah RB. 2004. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency in India. *India J Pediatric*. 71: 525-529.
- Monteiro Wuelton M, Gabriel P Franca, Gisely C Melo, Amanda LM Queiroz, Marcelo Brito, Henry M Peixoto, Maria Regina F Oliveira, Gustavo AS Romero, Quique Bassat, and Marcus VG Lacerda. 2014. Clinical complications of G6PD deficiency in Latin America and Caribbean populations: systematic review and implications for malaria elimination programmes. *Malar J*. 13 (70): 2-13.
- Murray RK., Granner, Mayes DK, Rodwell VW. 2000. *The Pentose Phosphate Pathway and Other Pathways of Hexose Metabolism*. Harper's Biochemistry. Appleton and Lange. America. 25: 219-223.
- Mutiara IS. 2007. *Hubungan G6PD-d (Glucose-6-Phosphate Dehydrogenase-deficiency) dengan kejadian infeksi malaria pada etnis Nias di Propinsi Sumatera Utara (Thesis S.2 tidak diterbitkan)*. Program Pasca Sarjana Universitas Sumatera Utara (USU) Medan.
- Nabeel Al Momen., Sheikha S. Al Arrayed. and Ahmed Al Alawi. 2004. Molecular homogeneity of G6PD deficiency. *Bahrain Medical Bulletin*. 26 (4):1-7.
- Narayani Prasad Kar., Ashwani Kumar, Om P. Singh, Jane M. Carlton, and Nutan Nanda. 2014. A review of malaria transmission dynamics in forest ecosystems. *Parasites and Vectors*. 7 (265): 1-12.
- Nasir Al-Allawi., Adil A. Eissa, Jaladet M. S Jubrael, Shakir A. R Jamal, and Hanan Hamamy. 2010. Prevalence and molecular characterization of Glucose-6-Phosphate Dehydrogenase (G6PD) deficient variants among

- the Kurdish population of Northern Iraq. *BMC Blood Disorders*.10 (6): 2-8.
- Natadisastira D dan Rusmartini, T. 2003. *Bunga rampai protozologi kedokteran*. (Edisi-3). Bandung: FK-Unpad: Bagian Parasitologi.
- Neeta Kumar., Nomita Chandhiok, Balwan S. Dhillon, and Pratik Kumar. 2009. Role of oxidative stress while controlling iron deficiency anemia during pregnancy-Indian scenario. *Indian J Clin Biochem*. 24 (1): 5-14.
- Nicholas JW., Li Guo Qiao, Gao Qi, and Lucio Luzzatto. 2012. Rational for recommending a lower dose of primaquine as a *Plasmodium falciparum* gametocytocide in populations where G6PD deficiency is common. *Malar J*. 11 (418): 2-9.
- Nicholl DS. 2008. An introduction to genetic engineering.(3rd edition). London: 336.
- Nicole La Rue. 2000. Glucose-6-Phosphate Dehydrogenase (G6PD) mutations causing enzyme deficiency in a model of the tertiary structure of the human enzyme. *Blood*. 7: 2974-2982.
- Nicole LaRue., Maria Kahn, Marjorie Murray, Brandon T. Leader, Pooja Bansil, Sarah McGray, Michael Kalnoky, Hao Zhang, Huiqiang Huang, Hui Jiang, and Gonzalo J. Domingo. 2014. Comparison of quantitative and qualitative tests for Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency. *Am J Trop Med Hyg*.91 (4): 854-861.
- Nimol Khim., Christophe Benedet, Saorin Kim, Sim Kheng, Sovannaroth Siv, Rithea Leang, Soley Lek, Sinuon Muth, Nguon Chea, Char Meng Chuor, Soc heat Duong, Elexandra Kerleguer, Pety Tor, Pheaktra Chim, Lydie Canier, Benoit Witkowski, Walter RJ Taylor, and Didier Menard. 2013. G6PD deficiency in *Plasmodium falciparum* and *Plasmodium vivax* malaria-infected Cambodian patients. *Malar J*. 12 (171): 2-10.
- Nguyen TH., Minh Hung, Hideaki Eto, Toshihiro Mita, Takahiro Tsukahara, Francis Wanak Hombhanje, Illomo Hwaihwanje, Nobuyuki Takahashi, and Takatoshi Kobayakawa. 2008. Glucose-6-Phosphate Dehydrogenase (G6PD) variants in Eastern Sepik Province of Papua New Guinea: G6PD Jammu, G6PD Vanua Lava, and a novel variant (G6PD Dagua). *Japanese Trop Med Health*. 36 (4): 163-169.
- Nguyen TH, Thi Hue., Jean Paul Charlieu, Tran Thi Hong Chau, Nick Day, Jeremy J Farral, Tran Tinh Hien, Sarah J. Dunstan. 2009. Glucose-6-Phosphate Dehydrogenase (G6PD) mutations and haemoglobinuria syndrome in the Vietnamese population. *Malar J*. 8.152-159.
- Noori-Daloi, Hajebrahimi MR, Najafi L. 2003. Molecular identification of the most prevalent mutation of Glucose-6-Phosphate Dehydrogenase (G6PD) gene in deficient patients in Gilan Province. *J. Sci. I. R. Iran*. 14 (4): 327-331.
- Noori-Daloi MR., Hejazi SH, Yousefi A. 2006. Identification of mutations in G6PD Gene in patients in hormozgan Province of Iran. *J. Sci. I. R. Iran*.17 (4):



313-316.

Noori-Daloi, MR and Danesh Pajoo. 2008. Molecular basis of G6PD deficiency; current status and Its perspective. Taheran University of Medical Science. *Acta Medica Iranica*. 46 (3): 167-182.

Nugroho A and Tumewu WM. 2000. *Siklus Hidup Plasmodium Malaria. Dalam: Harijanto PN (editor). Malaria, Epidemiologi, Patogenesis, Manifestasi Klinis dan Penanganan*. Jakarta: EGC: 38-52.

Nuchprayong IS, Sanpavat and Nucprayoon. 2002. Glucose-6-Phosphate Dehydrogenase (G6PD) mutations in Thailand: G6PD Viangchan (871 G A) is the most common deficiency variant in the Thai population. *Hum. Mutation* 481:1-6

Peter WG., Patil AP, Smith DL, Guerra CA, Elyazar IRF, Johnston GL, Tatem AJ and Hay IS. 2011. A new world malaria map: *Plasmodium falciparum* endemicity in 2010. *Malar J*.10 (378): 1-16.

Peters AL and Noorden VJ. 2009. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency and malaria. Cytochemical detection of heterozygous G6PD deficiency in women. *J Histochem & Cytochem*. 57 (11):1003-1011.

Philip JM., Bautista JM and Gilsanz F. 2007. G6PD deficiency: the genotype-phenotype association. *Blood Review. Elsevier*. 21: 267-283.

Pierce BA. 2005. *Genetic: A conceptual approach*.2: 711-723.

Poespoprodjo JR., Fobia W, Kenangalem E. 2009. Adverse pregnancy outcomes in an area where multidrug-resistant *Plasmodium vivax* and *Plasmodium falciparum* infections area endemic. *Clin Infect Dis*. 46 (9): 1374-1381.

Poolsuwan S. 1995. Malaria in prehistoric Southeastern Asia. *Southeast Asian J Trop Med Public Health*. 26:3-22.

Porter ML and Dennis BL. 2002. Hyperbilirubinemia in the term newborn. *Am Fam Physician*.65: 599-606.

Poaton L and Rajmakers M. 2004. Trophoblast oxidative stress, antioxidant and pregnancy placental: supplement A. *Trophoblast Research*. 18: 72-78.

Primrose SB., Twyman RM, and Old RW. 2001. Principles of genetics manipulation (6th edition). *Blackwell Science*, Malden. 7: 319.

Promega Corporation. 2014. *Go tag green master mix PCR: instruction manual*. Cat No: M-7122. 2800 Woods Hollow Road. Madison. WI 53711-5399. USA: 1-4.

Puji SA. 2010. Dasar-dasar molekul resistensi *Plasmodium Vivax* terhadap obat antimalaria klorokuin (*Disertasi S.3 tidak diterbitkan*). Jakarta: Program Pasca Sarjana Fakultas Kedokteran Universitas Indonesia.



Rajendra, Maharaj., Natasha Morris, Ishen Seocharan, Philip Kruger, Devanand Moonasar, Aaron Mabuza, Eric Raswiswis, and Jaishree Raman. 2012. The feasibility of malaria elimination in South Africa. *Malar J.* 11 (423): 1-10.

Randox Laboratories, Ltd. 2013. *Glucose-6-phosphate dehydrogenase test manual*. Cat. No. PD-410. Ardmore: United Kingdom: 2-4.

Rampengan TH. 2002. *Malaria*. Dalam Soedarmo, S.S.P., Herri, G, dan Sri R. S. H. *Ilmu kesehatan anak infeksi dan penyakit tropis*. Jakarta: Ikatan Dokter Anak Indonesia (IDAI).

Rampengan TH. 2008. *Penyakit Infeksi Tropik pada Anak*. (Edisi-2). Jakarta: EGC.

Retzinger GS. 2002. Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency.8 (3). In: Lab Lines, (online), (<http://www.med.edu/departme/pathdept/web/lablines/vol.813>, diakses pada 30 Januari 2012).

Rinaldi I dan Sudoyo AW. 2009. *Anemia Hemolitik Non Imun*, Buku Ajar Ilmu Penyakit Dalam (edisi-5): 1157-1159.

Riza, Syahyuni. 2003. *Hubungan defisiensi Glukosa-6-Phosphate Dehydrogenase (G6PD) dengan kepadatan parasit malaria pada anak usia sekolah di daerah endemis malaria (Thesis S.2 tidak diterbitkan)*. Program Pasca Sarjana Universitas Diponegoro (UNDIP), Semarang.

Richard GAF., Philips AA, Jimée Hwang, Christ Cotter, Benjamin Wielgosz, Brian M. Greenwood, Oliver Sabot, Mario Henry Rodriguez, Rabindra R, Abeyasinghe, Tedros Adhanom Ghebreyesus and Robert W Snow. 2010. Shrinking the malaria map: progress and prospects. *Lancet.* 376 (9752): 1566-1578.

Rosalind EH., Frederic B. Piel, Patil AP, Oscar A. Nyangiri, Gething PW, Mewahyu Dewi, Mariana MH, Katherine EB, Carmencita DP, Baird JK and Hay SI. 2012. G6PD deficiency prevalence and estimates of affected populations in malaria endemic countries: a geostatistical model-based map, *PLOS Medicine.* 9 (11): 1-15.

Rosalind EH, Mewahyu Dewi, Frederic B. Piel, Wuelton M. Monteiro, Katherine E. Battle, Jane P. Messina, Anavaj Sakuntabhai, Ari W . Satyagraha, Thomas N. Williams, J. Kevin Baird, and Simon I Hay. 2013. Spatial distribution of G6PD deficiency variants across malaria-endemic regions. *Malar J.*12 (418): 2-15.

Saha, N., Saha, A., Tay, J.S.H., Jeyaseelan, K., Basair, J.B., Chew, S.E., 1994, Molecular Characterisation of Red Cell Glucose-6-Phosphate Dehydrogenase Deficiency in Singapore Chinese, *American Journ. of Hematology* 47:273-277.

- Saxena S., Neerja Pant, D.C. Jain, and R.S. Bhakuni. 2003. Antimalarial agents from natural sources, *Current Science*. 85 (9): 1314-1329.
- Sambrook J., and Russell DW. 2001. *Molecular cloning: a laboratory manual* (3rd edition). Coldspring Harbour Laboratory Press. New York. 25: 144.
- Saraswathy KN and Sachdeva MP. 2008. G6PD deficiency, sickle cell trait, haptoglobin and transferrin polymorphisms among Koyodoras and Nayakpods of Andhra Pradesh. *Journal Antropologist.Hindawi*. 10 (2): 163-165.
- Satrio Wibowo., kamillah Budhi, dan Soemantri MA. 2007. *Perbandingan kadar bilirubin neonatus dengan dan tanpa defisiensi G6PD dengan infeksi dan tidak infeksi di RS. Kariadi Semarang (Thesis S.2 tidak diterbitkan)*. Program Pendidikan Dokter Spesialis-1. Fakultas Kedokteran Universitas Diponegoro (UNDIP). Semarang.
- Saunders MA., Hammers MF and Nachman MW. 2002. Nucleotide variability at G6PD and the signature of the malarial selection in human. *Genetic*. 162: 1849-1861.
- Seidman LA and Moore CJ. 1999. *Basic Laboratory Methods For Biothecnology*; textbook and laboratory reference. Prentice Hall, New Jersey.(6th edition): 751-783.
- Seif AS., Roel ter Braak, Modibo Daou, Reginald Kavishe, Wouter van den Bijllaardt, Sven van den Bosch, Jan B. Koenderink, Adrian J.F.Luty, Christopher J.M. Whitty, Christ Drakeley, Robert W. Sauerwein and Teun Bousema. 2010. In Tanzania, hemolysis after a single dose of primaquine coadministered with an artemisinin is not restricted to glucose-6-phosphate dehydrogenase deficient (G6PD A-) individuals. *AAC.asm Journal*. 54 (5): 1762-1768.
- Segel GB. 2000. *Enzymatic Defects*. text book of pediatrics, (16<sup>th</sup> edition), Philadelphia: WB Saunders Co: 1488-1491.
- Serge YO., Yhobi, Paul Corstjens, Eran Geva, Willam RA, Cheryl AB, Daniel Malamud, and Mharakurwa S. 2013. Improved assay to detect *Plasmodium falciparum* using an uninterrupted, semi-nested PCR and quantitative lateral flow analysis. *Malar J*. 12(74): 2-8.
- Shiraka T., Nishiyama K, and Poh-San L. 2000. *A Simple And Rapid Mutation Detection System For G6PD Deficiency*. Makalah disampaikan pada *Asian symposium in neonatology G6PD deficiency and related condition*: 33-43.
- Silvana Galiano., Gian Franco Gaetani, Arrigo Barabino, Franco Cottafava, Helen Zeitlin, Margaret Town, and Lucio Luzzatto.1990. Favism in the African type of glucose-6-phosphate dehydrogenase deficiency (A-). *BMJ*. 300: 236-238.

- Sinurat SP. 2006. *Faktor risiko kejadian Malaria di kecamatan Panai Hilir Kabupaten Labuhan Batu Propinsi Sumatera Utara tahun 2006 (Tesis S.2 tidak diterbitkan)*, Program Pasca Sarjana Universitas Gadjah Mada (UGM). Yogyakarta.
- Snow RW., Craig MH, Dechman U, Lesueur DP, Vagapandu IS, Sandeep S, Meenakshi J, Savita S, Prati DS, Chaman LK. and Rahul J. 2004. *8-Quinolinalinines Conjugated With Amino Acid Are Exhibiting Potent Blood Schizontocidal Activities, Bioorg Med Chem.* (12). p: 239-247.
- Snounou G., Viriyakosol S, Jarra W, Thaithong S, and Brown KN. 1993. Identification of the four human malaria parasite species in field samples by the polymerase chain reaction and detection of a high prevalence of mixed infections. *Mol Biochem Parasitol.* 58:283-292.
- Soemantri AG., Saha S, Saha N, Tay JS. 1995. Molecular variants of red cell G6PD Glucose-6-Phosphate Dehydrogenase deficiency in central java, indonesia : *Hum. Hered.* 45: 346-350.
- Stewart AG., Koenigsloew EV, and Pabst H. 1966. Favism in a 4 year old boy: case report. *Canad. Med. Ass. J.* 94: 292-295.
- Suhartati. 2007. Pola mutan gen Glukosa-6-Fosfat Dehidrogenase defisiensi (G6PDd) di Kota Surabaya. *Majalah Ilmu Faal Indonesia.* 6: 130-139.
- Sukowati S., Baimai V, Harun, Dasuki S, Andris Y, Efriwati HM. 2010. Isozyme evidence for three sibling species in the *Anopheles sundaicus complex* from Indonesia. *Med. Vet. Entomol.* 13: 408–414.
- Supargiyono., Micheal T. Bretscher, Mahardika AW, Inge Sutanto, Dian Nugraheni, Royhan Rozqie, Ayleen A Kosasih, Sulistyawati, William A Hawley, Neil F Lobo, Jackie Cook and Christ J Drakeley. 2013. Seasonal changes in the antibody responses against Plasmodium falciparum merozoite surface antigens in areas of differing malaria endemicity in Indonesia. *Malar J.* 12 (444): 2-9.
- Susanto AH. 2011. Genetika. Edisi-1. Yogyakarta; Graha Ilmu: 193-221
- Sutisna P. 2004. *Malaria Secara Ringkas*. Jakarta: EGC.
- Syafruddin D. 2010. Dasar molekuler resistensi parasit terhadap obat antimalaria (malaria dari molekuler ke klinis), (edisi-2). Dalam Harijanto P. N., Nugroho A, dan Gunawan. *Malaria: dari molekuler ke klinis (edisi-2)*: 64-84.
- Syahyuni R. 2003. *Hubungan defisiensi Glucose-6-Phosphate Dehydrogenase (G6PD) dengan kepadatan parasit malaria pada anak usia sekolah di daerah endemis malaria (Thesis S.2 tidak diterbitkan)*. Program Pasca Sarjana Universitas Diponegoro (UNDIP), Semarang.

- Tantular IS dan Kawamoto F. 2003. An improve, simple screening method for detection of Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency. *Tam J Trop Med*.8: 569-574.
- Tantular IS., Matsuoka H, Yuichi Kasahara, Suhintam Pusarawati, Toshio Kanbe, Josef S, Tuda B, Yasutoshi Kido, Yoes P. Dachlan, and Fumihiko Kawamoto. 2010. Incidence and mutation analysis of Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency in Eastern Indonesia population. *Acta Med. Okayama*.64 (6): 367-373.
- Taylor and Robinson AW. 2002. A model of GIS development of acquired immunity to malaria in humans living under endemic conditions. *Medical Hypotheses*.58 (2): 148-156.
- Taylor HM, Keys SA and Newbold CI. 2000. Variant gene diversity in *Plasmodium falcifarum* is generated by frequent recombination events. *Mol Biochem Parasitol*. 110: 391-397.
- Teun Bousema., Jamie T. Griffin, Robert W. Sauerwein, David L Smith, Thomas S. Churcher, Willem Takken, Azra Ghani, Christ Drakeley, and Roy Gosling. 2012. Hitting hotspots: spatial targeting of malaria for control and elimination. *Plos Medicine*. 9 (1): 1-6.
- Tjokrosonto S. 1996. *Masalah Resistensi Terhadap Obat Malaria Di Indonesia*. Lembaga Penelitian Universitas Gajah Mada (laporan penelitian). Departemen Pendidikan dan Kebudayaan. Yogyakarta. (tidak dipublikasikan).
- Thomas C. 2003. *The polymerase chain reaction (PCR). Methods in plant biochemistry*.10.117-140.
- Tjitra E. 2009. *Obat anti malaria*. Dalam P. N Harijanto PN (2009). *Malaria, epidemiologi, patogenesis, manifestasi klinis dan penanganan*. Jakarta: EGC: 194-204.
- Tishkoff SA., Varkonyi R, Cahinhinan N, Abbes S, Argyropoulos G, Bisol D, Drousiotou G, Dangerfield A, Lefranc B, Loiselet G, Piro J, Stoneking A, Tagarelli MA, Tagarelli G, Touma EH, Williams SM, and Clark AG. 2001. Haplotype diversity and linkage disequilibrium at human G6PD: recent origin of alleles that confermalarial resistance. *science*. 293:455-462.
- Toby L., Marnie Briceno, Ismail Mayan, Nasir Mohammed, Eveline Klinkenberg, Carol Hopkins Sibley, Christopher J. M. Whitty, and Mark Rowland. 2010. The impact of phenotypic and genotypic G6PD deficiency on risk of *Plasmodium vivax* infection: a case-control study amongst afghan refugees in pakistan. *Plos Medicine*. 5 (7): 2-6.
- Trinity, Biotech. 2009. *Glucose-6-phosphate dehydrogenase (G-6-PDH)*, (online), (<http://www.trinitybiotech.com>. diakses 20 Mei 2015).

- Vinod PS. 2009. Hidden burden of malaria in indian women. *Malar J.* 8 (281): 1-5.
- Vizzi Esmeralda, Gilberto Bastidas, Mariana Hidalgo, Laura Colman, and Hilda A. Pérez. 2016. Prevalence and molecular characterization of G6PD deficiency in two *Plasmodium vivax* endemic areas in Venezuela: predominance of the African A<sup>-202 A/376 G</sup> variant. *Malar J.* 15 (19): 2-9 DOI 10.1186/s12936-015-1069-5.
- Von SL., Auburn S, Espino F, Shanks D, Cheng Q, Mc Carthy J, Baird JK, Moyes C, Howes R, Menard D, Bancone G, Satyagraha AW, Vestergaards LS, Green J, Domingo G, Yeung S, and Price RN. 2013. Review of key knowledge gaps in glucose-6-phosphate dehydrogenase deficiency detection with regards to the safe clinical development of 8-aminoquinoline treatment regimens: A workshop report. *Malar J.* 12: 112-123.
- Widodo D., Pribadi MJ, dan Zulkarnaen I. 2000. Malaria Cerebral. *Majalah Kedokteran Indonesia (MKI)*, Jakarta.50: 31-8.
- William EC., Coatney GR, Warren M, and Contacos PG. 2003. The Primate Malarias. *Jornal division of parasitic disease*, Atlanta. GA; CDC. 1: 5-35.
- Wiser MF. 2003. *Plasmodium* homologue of cochaperone p-23 and its differential expression during the replicative cycle of malaria parasit. *Ann. Trop. Med. Parasitol Res.* 90. 166-170.
- Wiser MF. 2004. *Plasmodium* life cycle. *Ann. Trop. Med. Parasitol.* 77: 239-246.
- WHO. 1989. WHO working groups; Glucose-6-Phosphate Dehydrogenase (G6PD) deficiency. *Bull World Health Organization*. WHO press. Geneva, Switzerland. 67. 601-611.
- WHO. 1997. *World malaria situation in 1994-1997*. Weekly epidemiological report. World Health Organization. Geneva, Switzerland. 72 (38): 285-290.
- WHO. 2000. *Management of severe malaria*, A practical hand book. World Health Organization. Geneva, Switzerland.
- WHO. 2003. *Plasmodium caused malaria*. World Health Organization. Geneva, Switzerland. WHO press: 52-75.
- WHO. 2004. *Malaria cases (per 100,000) by country*. Word Health Organization. Geneva, Switzerland. (online), ([http://gamapserver.who.int/mapLibrary/Files/Maps/global\\_cases.jpg](http://gamapserver.who.int/mapLibrary/Files/Maps/global_cases.jpg), diakses 12 Februari 2012).
- WHO. 2006. *World malaria report, Guidelines for the treatment of malaria*. World Health Organization. Geneva, Switzerland. WHO press.
- WHO. 2009. *World malaria report*, WHO press, Geneva, Switzerland.

WHO. 2012. *World malaria report* .WHO press, Geneva, Switzerland.

Wuelton M.Monteiro, Fernando FA Val, Andre M Siqueira, Gabriel P Franca, Vanderson S Sampaio, Gisely C Melo, Anne CG Almeida, Marcelo AM Brito, Henry M Peixoto, Douglas Fuller, Quique Bassat, Gustavo AS Romero, Maria Regina F Oliveira, Marcus Vinicius G Lacerda. 2014. G6PD deficiency in Latin America: systematic review on prevalence and variant. *Mem Inst Oswaldo Cruz*. 109 (5): 553-568.

Yan BI., Wenbiao Hu, Huaxin Liu, Yujiang Xiao, Yuming Guo, Shimei Chen, Laifa Zhao, and Shilu Tong. 2012. Can slide positivity rates predict malaria transmission. *Malar J*. 11 (117): 2-8.

Zakeri S., Najafabadi, ST, Zare A, and Djadid ND. 2002. Detection of malaria parasites by nested PCR in South-Eastern, Iran: evidence of highly mixed infections in Chahbahar District. *Malar J*. 1: 1-6.

Zhao X., Li Z, and Zhang XY. 2010. G6PD-mutation: a mutation and phenotype database of Glucose-6-Phosphate (G6PD) deficiency. *J. Bioinform. Comput. Biol*. 8:101-109.

Zulkarnain I. 2000. *Malaria berat*. Dalam Noer S. *Buku Ajar Ilmu Penyakit Dalam*. Jilid I. (edition-3). Jakarta. Balai Penerbit FKUI. 3. 504-507.