

DAFTAR PUSTAKA

- Aaola, S.O., Onyeji, C.O., Ofoezie, E.I., 2002. *Trichuris trichiura*. Antimicrobial Therapy and Vaccines 1, 1709–1711.
- Akinbo FO, Okika CE, Omeregie R. Prevalence of intestinal parasitic infection among HIV patients in Benin City, Nigeria. *Libyan J Med* 2010;5: 5506. doi: 10.3402/ ijm.v5i0.55060.
- Allen, U.D. 2016. Management of Infections in The Immunocompromised Child: General Principles. *Lymphosign Journal*. 3:87-98.
- Al-Muzaky, A., Hermansyah, B., Suswati, E., Armiyanti, Y., & Nurdian, Y. (2019). Hubungan perilaku hidup bersih dan sehat dengan kejadian infestasi Soil-transmitted Helminths pada pekerja perkebunan kopi Sumber Wadung Kabupaten Jember. *Jurnal Kedokteran dan Kesehatan: Publikasi Ilmiah Fakultas Kedokteran Universitas Sriwijaya*, 6(1), 7-15. doi:<https://doi.org/10.32539/JKK.v6i1.7233>
- Arndt, M. B., John-Stewart, G., Richardson, B. A., Singa, B., van Lieshout, L., Verweij, J. J., Sangaré, L. R., Mbogo, L. W., Naulikha, J. M., & Walson, J. L. 2013. Impact of helminth diagnostic test performance on estimation of risk factors and outcomes in HIV-positive adults. *PloS one*, 8(12), e81915. <https://doi.org/10.1371/journal.pone.0081915>
- Annisa S., Dalilah, Anwar., C., 2017. Hubungan Infeksi Cacing Soil Transmitted Helminths (STH) dengan Status Gizi pada Siswa Sekolah Dasar Negeri 200 Kelurahan Kemasrindo Kecamatan Kertapati Kota Palembang. *Majalah Kedokteran Sriwijaya*. Th. 50. No. 2.
- Asplund, A.S., 2018. Immunocompromised Patients: Infections, Diagnostics and Nosocomial Transmission [Faculty of Medicine Doctoral Dissertation Series 2018]. Lund University. Sweden
- Assefa, S., Erko, B., Medhin, G., Assefa, Z., & Shimelis, T., 2009. Intestinal parasitic infections in relation to HIV/AIDS status, diarrhea and CD4 T-cell count. *BMC infectious diseases*, 9, 155. <https://doi.org/10.1186/1471-2334-9-155>
- Benjamin-Chung, J., Pilotte, N., Ercumen, A., Grant, J. R., Maasch, J., Gonzalez, A. M., Ester, A. C., Arnold, B. F., Rahman, M., Haque, R., Hubbard, A. E., Luby, S. P., Williams, S. A., & Colford, J. M., Jr., 2020. Comparison of multi-parallel qPCR and double-slide Kato-Katz for detection of soil-transmitted helminth infection among children in rural Bangladesh. *PLoS neglected tropical diseases*, 14(4), e0008087. <https://doi.org/10.1371/journal.pntd.0008087>
- Brooker, S., Bethony, J., Hotez, P.J. 2004. Human *Hookworm* Infection in the 21st Century. *Europe PMC Adv Parasitol*. 58: 197 – 288.
- Corvino, DF, Horrall S., 2020. Ascariasis. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK430796/>.
- Darlan, D. M., Winna, M., Simorangkir, H., Rozi. M., Arrasyid, N., Panggabean, M., 2019. Soil-transmitted helminth and its associated risk factors among

- school-aged children. *IOP Conference Series: Earth and Environmental Science*. DOI: 10.1088/1755-1315/305/1/012066.
- Didenko, V. V., 2001. DNA probes using fluorescence resonance energy transfer (FRET): *designs and applications*. *Biotechniques*. 31:1106-1116, 1120-1121
- Echazú, A., Juárez, M., Vargas, P. A., Cajal, S. P., Cimino, R. O., Heredia, V., Caropresi, S., Paredes, G., Arias, L. M., Abril, M., Gold, S., Lammie, P., & Krolewiecki, A. J. (2017). Albendazole and ivermectin for the control of soil-transmitted helminths in an area with high prevalence of *Strongyloides stercoralis* and hookworm in northwestern Argentina: A community-based pragmatic study. *PLoS neglected tropical diseases*, 11(10), e0006003. <https://doi.org/10.1371/journal.pntd.0006003>
- Elnifro, E.M., Ashshi, A.M., Cooper, R.J. and Klapper, P.E., 2000. Multiplex PCR: Optimization and Application in Diagnostic Virology. *Clinical Microbiology Reviews*, 13(4), pp.559–570. Terdapat di: <http://cmr.asm.org/cgi/doi/10.1128/CMR.13.4.559-570.2000>.
- Galvani, A.P., 2005. Age-Dependent Epidemiological Patterns and Strain Diversity in Helminth Parasites. *J. Parasitol.* 91, 24–30. <https://doi.org/10.1645/ge-191r1>.
- Gamit, M.J., Talwelkar, H.S. 2016. Survey of Different Types of Anemia. *International Journal of Medical Science and Public Health*. Vol 6: Issue 3.
- Garibyan, L., & Avashia, N. 2013. Polymerase chain reaction. *The Journal of investigative dermatology*, 133(3), 1–4. <https://doi.org/10.1038/jid.2013.1>
- Gatot, D., 2002. Infeksi Jamur Sistemik Pada Pasien *Immunocompromised*. *Sari Pediatri*. Vol. 3, No. 4. 244 – 248.
- Ghodeif A.O, Jain H., 2020. *Hookworm*. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK546648/>.
- Glinz, D., Silué, K.D., Knopp, S., Lohourignon, L.K., Yao, K.P., Steinmann, P., Rinaldi, L., Cringoli, G., N’Goran, E.K., Utzinger, J., 2010. Comparing diagnostic accuracy of Kato-Katz, Koga Agar Plate, Ether-Concentration, and FLOTAC for *Schistosoma mansoni* and Soil-transmitted helminths. *PLoS Negl. Trop. Dis.* 4. <https://doi.org/10.1371/journal.pntd.0000754>.
- Hailemariam G., Kasso A., Abebe G., Abate E., Damte D., Mekonnen E., Intestinal parasitic infections in HIV/AIDS and HIV seronegative individuals in a Teaching Hospital, Ethiopia. *Ethiopian J Infect Dis* 2004; 57:41-3.
- Handoyo, D., Rudiretna, A., 2000. Prinsip umum dan pelaksanaan polymerase chain reaction (PCR). *Unitas* 9 (1): 17–29.
- Hebert, P. D., Ratnasingham, S., deWaard, J. R., 2003. Barcoding animal life: cytochrome c oxidase subunit 1 divergences among closely related species. *Proceedings. Biological sciences*, 270 Suppl 1(Suppl 1), S96–S99. <https://doi.org/10.1098/rsbl.2003.0025>
- Hewajuli, D.A., Dharmayanti, N.L.P.I., 2014. Perkembangan Teknologi Reverse Transcriptase-Polymerase Chain Reaction dalam Mengidentifikasi Genom Avian Influenza dan Newcastle Diseases. *Wartazoa*. Vol. 24 No, 1.

- Hotez, P. J., Aksoy, S., Brindley, P. J., & Kamhawi, S., 2020. What constitutes a neglected tropical disease?. *PLoS neglected tropical diseases*, 14(1), e0008001. <https://doi.org/10.1371/journal.pntd.0008001>
- Jongwutiwes, U., Waywa, D., Silpasakorn, S., Wanachiwanawin, D., Suputtamongkol, Y. 2014. Prevalence and risk factors of acquiring *Strongyloides stercoralis* infection among patients attending a tertiary hospital in Thailand. *Pathogens and Global Health*. Vol. 108 NO.3; p:137-140.
- Jourdan, P.M., Lamberton, P.H.L., Fenwick, A., Addiss, D.G., 2018. Soil-transmitted helminth infections. *Lancet* 391, 252–265. [https://doi.org/10.1016/S0140-6736\(17\)31930-X](https://doi.org/10.1016/S0140-6736(17)31930-X).
- Kadri, K., 2019. Polymerase Chain Reaction (PCR) : Principle and Applications, in: *Intech*. DOI: 10.5772/intechopen.86491.
- Kaisar, M and Despande, J. D. 2010. Polymerase Chain Reaction: Methods, Principles and Application. *International Journal of Biomedical Research*, 1(5): 81-97.
- Kandasamy, V., Rajkumari, N., Parija, S. C., Chinnakali, P., & Negi, V. S. (2017). Profile of Helminthic Infections in Patients Attending a Tertiary Care Hospital with Emphasis on Immunocompromised Patients. *Journal of global infectious diseases*, 9(2), 87–89. https://doi.org/10.4103/jgid.jgid_174_16
- Kawai, K., Saathoff, E., Antelman, G., Masamanga, G., Fawzi, W.W. 2009. Geophagy (Soil-eating) in Relation to Anemia and Helminth infection among HIV-Infected Pregnant Woman in Tanzania. *The American Journal of Tropical Medicine and Hygiene*. Vol 80: 1. P: 36-43.
- Khurana S., Sethi S, 2017. Laboratory diagnosis of soil transmitted helminthiasis. *Trop Parasitol*.vol 7(2):86-91. doi:10.4103/tp.TP_29_17
- Kementerian Kesehatan Indonesia 2011-2015. Neglected Tropical Diseases In Indonesia. An integrated plan of action.
- Krauth S.J., Coulibaly J.T., Knopp, S., Traoré, M., & N'Goran E.K. 2012. An indepth analysis of a piece of shit: distribution of *Schistosoma mansoni* and hookworm eggs in human stool. *PLoS Negl Trop Dis*. 6: e1969. doi: 10.1371/journal.pntd.0001969 PMID: 23285307.
- Leles, D., Gardner, S.L., Reinhard, K. *et al*. Are *Ascaris lumbricoides* and *Ascaris suum* a single species? *Parasites Vectors* 5, 42 (2012). <https://doi.org/10.1186/1756-3305-5-42>
- Liu, C., Lu, L., Zhang, L., Bai, Y., Medina, A., Rozelle, S., Smith, D. S., Zhou, C., & Zang, W. 2017. More Poop, More Precision: Improving Epidemiologic Surveillance of Soil-Transmitted Helminths with Multiple Fecal Sampling using the Kato-Katz Technique. *The American journal of tropical medicine and hygiene*, 97(3), 870–875. <https://doi.org/10.4269/ajtmh.16-0728>
- Lorenz T. C. 2012. Polymerase chain reaction: basic protocol plus troubleshooting and optimization strategies. *Journal of visualized experiments: JoVE*, (63), e3998. <https://doi.org/10.3791/3998>
- Marcos, Luis.A, Terashima, A., Canales, M., 2011. Update on Strongyloidiasis in the Immunocompromised Host. *Springer Science*. Vol 13: 35-46.

- Markoulatos P, Siafakas N, Moncany M. 2002. Multiplex polymerase chain reaction: a practical approach. *Journal Clinical Laboratory Analysis*. 16(1):47-51. doi:10.1002/jcla.2058
- Mkhize-Kwitshana, Z., Tadokera, R., Mabaso, M., 2017. Helminthiasis: A Systematic Review of the Immune Helminthiasis: A Systematic Review of the Immune Interactions Present in Individuals Coinfected with HIV and/or Tuberculosis, *Human Helminthiasis*. InTech. Chapter 4. <http://dx.doi.org/10.5772/106429>
- Modjarrad, K., Zulu, I., Redden, D.T. 2005. Prevalence and Predictors of Intestinal Helminth Infections Among Human Immunodeficiency Virus Type 1 Infected Adults in An Urban African Setting. *The American Society of Tropical Medicine and Hygiene*. Vol. 71. Issue 4. P: 777 – 782.
- Molyneux, D. 2013. Neglected tropical diseases. *Community Eye Health Journal*. Vol 26: 82.
- Montaner, S., Galiano, A., Trelis, M., Jaular, L.M., Portillo, H.A., Bernal, D., Marcilla, A., 2014. The role of extracellular vesicles in modulating the host immune response during parasitic infection. *Frontier in Immunology*. Vol 5: 433
- Morawski, B.M., 2017. Human Immunodeficiency Virus and Soil Transmitted Helminths: Measuring the Systemic Effects of Co-infection in a Low-Resource Context.
- Mwambete KD, Tunzo J, Justin-Temu M. 2013. Prevalence and management of helminthiasis among underfives living with HIV/AIDS at Amana Hospital, Tanzania. *J Int Assoc Provid AIDS Care*. 12(2):122-127. doi:10.1177/1545109712449865
- Nikiforova, M.N., LaFramboise, W.A. and Nikiforov, Y.E., 2014. Amplification-Based Methods. *Clinical Genomics*, pp.57–67.
- Noviastuti, A.R. 2015. Infeksi Soil Transmitted Helminths. Majority. Vol. 4 No. 8 : 107-115.
- Novianty, S., Dimiyati, Y., Pasaribu, S., & Pasaribu, A. P. 2018. Risk Factors for Soil-Transmitted Helminthiasis in Preschool Children Living in Farmland, North Sumatera, Indonesia. *Journal of tropical medicine*, 2018, 6706413. <https://doi.org/10.1155/2018/6706413>
- O'Connell, E. M., Nutman, T. B., 2016. Molecular Diagnostics for Soil-Transmitted Helminths. *The American journal of tropical medicine and hygiene*, 95(3), 508–513. <https://doi.org/10.4269/ajtmh.16-0266>
- Okafor, U.H., 2012. Pattern of Clinical Presentations in Immunocompromised Patient, in: *Intech*. <https://doi.org/http://dx.doi.org/10.5772/57353>.
- Orji, M.L., Onyire, N.B., Ibe, B., Ibekwe, R., 2017. Effect of Helminth Infestation in Children Infected with Human Immunodeficiency Virus (HIV). *J Nepal Paediatr Soc*. 37(1);25-30. doi: <http://dx.doi.org/10.3126/jnps.v37i1.16474>
- Orji, M.L., Onyire, N.B., Ibe, B., Ibekwe, R., 2017. Prevalence and Intensity of Helminths Infection in Human Immunodeficiency Virus Infected Children In Abakaliki, Ebonyi State, Southeast Nigeria. *Journal of Dental and Medical Sciences*. ISSN:2279-0861. Vol. 16. PP 81-86.

- Pardal SJ. 2010. Menguji ekspresi gen menggunakan real time PCR. *Warta Penelitian dan Pengembangan Pertanian*. 32:13-14.
- Paula, F.M, 2015. Molecular diagnosis of Strongyloides in tropical areas; a comparison of conventional and real time PCR with parasitological methods, *Intituto de Medicine Tropical. Rio de Janeiro*: 1-3.
- Pasaribu, A.P., Alam, A., Sembiring, K. *et al.* Prevalence and risk factors of soil-transmitted helminthiasis among school children living in an agricultural area of North Sumatera, Indonesia. *BMC Public Health* 19, 1066 (2019). <https://doi.org/10.1186/s12889-019-7397-6>
- Permenkes, 2017. Peraturan Menteri Kesehatan RI Nomor 15 Tahun 2017 Tentang Penanggulangan Cacingan.
- Phupisut, O., Yoonuan, T., Sanguankiat, S., Chaisiri, K., Maipanich, W., Pubampen, S., Komalamisra, C., Adisakwattana, P., 2014. Triplex Polymerase Chain Reaction Assay for detection of major soil-transmitted helminths, *Ascaris lumbricoides*, *Trichuris trichiura*, *Necator americanus*, in fecal samples. *Southseast Asian J. Trop. Med. Public Heal.* 45, 267–275.
- Phosuk, I., Intapan, P. M., Thanchomng, T., Sanpool, O., Janwan, P., Laummaunwai, P., Aamnart, W., Morakote, N., & Maleewong, W. (2013). Molecular detection of *Ancylostoma duodenale*, *Ancylostoma ceylanicum*, and *Necator americanus* in humans in northeastern and southern Thailand. *The Korean journal of parasitology*, 51(6), 747–749. <https://doi.org/10.3347/kjp.2013.51.6.747>
- Phosuk, I., Sanpool, O., Thanchomng, T., Sadaow, L., Rodpai, R., Anamnart, W., Janwan, P., Wijit, A., Laymanivong, S., Pa Aung, W. P., Intapan, P. M., & Maleewong, W. (2018). Molecular Identification of *Trichuris suis* and *Trichuris trichiura* Eggs in Human Populations from Thailand, Lao PDR, and Myanmar. *The American journal of tropical medicine and hygiene*, 98(1), 39–44. <https://doi.org/10.4269/ajtmh.17-0651>
- Primadana, A., Nurdian, Y., Hermansyah, B., Armiyanti, Y. 2019. Eosinophilia as a Predictor Morbidity of Soil-Transmitted Helminthiasis among Widodaren Plantation Workers in Jember. *Journal of Vocational Health Studies*. Vol 3 No. 2. <http://dx.doi.org/10.20473/jvhs.V3.I2.2019.47-52>.
- Pullan, R.L., Smith, J.L, Brooker, S.J. 2014. Global Number of Infection and Disease Burden of Soil Transmitted Helminth Infection 2010. *Parasites & Vectors*. Vol 7 No. 37.
- Roach, R., 2020. Soil-Transmitted Helminths. Intech Open. DOI I: 10.5772/intechopen.87143.
- Rohani., Adrial., Semiarti, R., 2017. Hubungan Infeksi Askariasis dengan Status Sosial Ekonomi pada Murid Sekolah Dasar Negeri 29 Purus. *Jurnal Kesehatan Andalas*. Vol. 6 (1)
- Sanprasert, V., Kerdkaew, R., Srirungruang, S., Charuchaibovorn, S., Phadungsaksawasdi, K., & Nuchprayoon, S., 2019. Development of Conventional Multiplex PCR: A Rapid Technique for Simultaneous Detection of Soil-Transmitted Helminths. *Pathogens (Basel, Switzerland)*, 8(3), 152. <https://doi.org/10.3390/pathogens8030152>
- Salgame, P., Yap, G.S., Gause, W.C., 2013. Effect of helminth-induced immunity

- on infections with microbial pathogens. *Nat. Immunol.* 14, 1118–1126. <https://doi.org/10.1038/ni.2736>.
- Schüle, S. A., Clowes, P., Kroidl, I., Kowuor, D. O., Nsojo, A., Mangu, C., Riess, H., Geldmacher, C., Laubender, R. P., Mhina, S., Maboko, L., Löscher, T., Hoelscher, M., & Saathoff, E., 2014. *Ascaris lumbricoides* infection and its relation to environmental factors in the Mbeya region of Tanzania, a cross-sectional, population-based study. *PloS one*, 9(3), e92032. <https://doi.org/10.1371/journal.pone.0092032>.
- Silver, Z. A., Kaliappan, S. P., Samuel, P., Venugopal, S., Kang, G., Sarkar, R., & Ajjampur, S. (2018). Geographical distribution of soil transmitted helminths and the effects of community type in South Asia and South East Asia - A systematic review. *PLoS neglected tropical diseases*, 12(1), e0006153. <https://doi.org/10.1371/journal.pntd.0006153>
- Sungkar, S., Putri, K. Q., Taufik, M., Gozali, M. N., & Sudarmono, P. 2019. The Effectiveness of Triple Dose Albendazole in Treating Soil Transmitted Helminths Infection. *Journal of parasitology research*, 2019, 6438497. <https://doi.org/10.1155/2019/6438497>.
- Suriptiastuti., 2006. Infeksi Soil-transmitted helminth: Askariasis, Trikhuriasis, dan Cacing Tambang. *Universa Medicana*. Vol. 25 No.2.
- Suryantari, S.A.A., Satyarsa, A.B.S., Hartawan, I.G.N.B.R.M., Parastuta, I.K.Y.P., Sudarmaja, I.M., 2019. Prevalence, Intensity And Risk Factors Of Soil Transmitted Helminths Infections Among Elementary School Students In Ngis Village, Karangasem District, Bali. *Indonesian Journal of Tropical and Infectious Disease*. Vol. 7 No. 6.
- Tarafder, M. R., Carabin, H., Joseph, L., Balolong, E., Jr, Olveda, R., & McGarvey, S. T., 2010. Estimating the sensitivity and specificity of Kato-Katz stool examination technique for detection of hookworms, *Ascaris lumbricoides* and *Trichuris trichiura* infections in humans in the absence of a 'gold standard'. *International journal for parasitology*, 40(4), 399–404. <https://doi.org/10.1016/j.ijpara.2009.09.003>
- Thellin, O., Zorzi, W., Lakaye, B., Borman, B.D., Coumans, B., Hennen, G., Grisar, T., Igout, A., Heinen, E., 1999. Housekeeping genes as internal standards: use and limits. *J Biotechnol. J Biotechnol.* 75(2-3):291-295. doi:10.1016/s0168-1656(99)00163-7
- Tristia, R., 2011. Analisis sekuensing 16s rRNA di bidang mikrobiologi. jurnal kedokteran syiah kuala. volume 11 nomor 3.
- Uhl JR, Cockerill FRI. 2004. The fluorescence resonance energy transfer system. In: Persing DH, Tenover FC, Versalovic J, Tang JW, Unger ER, Relman DA, White TJ, editors. *Molecular microbiology diagnostic principles and practice*. Washington DC (USA): ASM Press. p. 295-306.
- Valones, M.A.A, Guimarães, R.L, Brandão, L.A, de Souza, P.R.E., Carvalho, A.A.T., Crovela, S., 2009. Principles and applications of polymerase chain reaction in medical diagnostic fields: a review. *Brazilian Journal of Microbiology*, 40(1), 1-11. <https://doi.org/10.1590/S1517-83822009000100001>

- Viswanath A, Williams M. *Trichuris Trichiura* (Whipworm, Roundworm) [Updated 2018 Oct 27]. In: statpearls [Internet]. Treasure Island (FL): statpearls Publishing; 2018 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK507843/?Report=classic>
- Verwij, J.J., Stenvold, C.R. 2014. Molecular testing for clinical diagnosis and epidemiological investigations of intestinal parasitic infections. *Clinical Microbiology Reviews*, 2(27): 371-2
- Walson, J. L., Stewart, B. T., Sangaré, L., Mbogo, L. W., Otieno, P. A., Piper, B. K., Richardson, B. A., & John-Stewart, G., 2010. Prevalence and correlates of helminth co-infection in Kenyan HIV-1 infected adults. *PLoS neglected tropical diseases*, 4(3), e644. <https://doi.org/10.1371/journal.pntd.0000644>
- Wagbatsoma VA, Ogbaini E, Esene H, Ibadin K. HIV Sero-positivity and intestinal helminthiasis among children in a Tertiary health facility in Benin City, Nigeria. *Niger. Med. Pract* 2010; 57:10-16.
- Weerasinghe, A. 2000. Investigating An Immunocompromised child. *Sri Lanka Journal of Child Health*. Vol. 29: 116-9.
- Wiseman, A.C., 2016. Immunosuppressive Medications. *Clin. J. Am. Soc. Nephrol.* 11, 332–343. <https://doi.org/10.2215/CJN.08570814>.
- WHO Expert Committee. 2002. Prevention and control of schistosomiasis and soil-transmitted helminthiasis. *World Health Organization technical report series*, 912.
- WHO. World Health Organization; Geneva: 2019. Bench Aids for the Diagnosis of Intestinal Parasites. Second edition