

BAB V

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Blastocystis hominis merupakan parasit usus oportunistik yang patogenisitasnya masih kontroversial. Blastocystosis kerap timbul pada kelompok dengan sistem imun yang rendah, seperti anak-anak maupun kelompok kelompok dengan sistem imun yang rendah seperti pengidap HIV/AIDS. Perhatian terhadap penyakit protozoa usus pada penderita HIV/AIDS masih belum banyak dilakukan, sehingga banyak protozoa usus oportunistik yang diabaikan kehadirannya. Berdasarkan hasil penelitian dapat disimpulkan bahwa angka kejadian infeksi *Blastocystis hominis* termasuk tinggi pada penderita HIV/AIDS di RSUD Dr. Soetomo Surabaya pada periode September 2018-April 2019 yaitu 83.3%.

5.2 Saran

1. Mengoptimalkan proses pengecatan sehingga dapat lebih mudah mengidentifikasi *Blastocystis hominis*
2. Melakukan metode pengecatan lain guna meningkatkan spesifitas hasil

DAFTAR PUSTAKA

- Al-Tawil YS, Gilger MA, Gopalakrishna GS, Langston C, Bommer KE (1994). "Invasive *Blastocystis hominis* infection in a child". *Archives of Pediatrics & Adolescent Medicine*. 148 (8): 882–5. doi:10.1001/archpedi.1994.02170080112026. PMID 8044274.
- Banu, Naheed; et al. (2005). "Neurohumoral alterations and their role in amoebiasis". *Indian J. Clin Biochem*. 20 (2): 142–5. doi:10.1007/BF02867414. PMC 3453840. PMID 23105547.
- Carolina, Anita. 2018. PERBANDINGAN PREVALENSI INFEKSI *Blastocystis hominis* PADA ANAK DENGAN DIARE DAN TIDAK DIARE DI RANDUDONGKAL. Semarang.
- Corwin, Elizabeth J. (2009). Buku Saku Patofisiologi. Jakarta: EGC.
- Fransisca RO, Aprilia DI, Fia AM, Shabrina I, Risma KU. (2012). Hubungan Infeksi Parasit Usus dengan Pengetahuan Perilaku Hidup Bersih Sehat pada Anak SD Bekasi, 2012 (The prevalence of intestinal parasitic infection among primary school children in Bekasi in 2012 and its association with knowledge level about clean. *J Kesehat Indones*. 2012;3(1)2-6.
- Hasdianah & Dewi, Prima. (2014). Virologi Mengenal Virus, Penyakit, dan Pencegahannya. Yogyakarta: Nuha Medika
- Jawetz, Melnick dan Adelberg. (2001). Medical Microbiology. twenty second Edition. USA : Mc. Graw-Hill Companies Inc.
- Kamilia, Perlita. (2009). Infeksi *Blastocystis hominis* pada Balita di Kecamatan Jatinegara Kaitannya dengan Kejadian Diare. Jakarta : FK UI Press.
- Kaya S, Cetin E, Aridogan B, Arikan S, Demirci M. 2007. Pathogenicity of *Blastocystis hominis*. *Turkiye Parazitoloji Dergisi*. 2007;31(3):184-7.
- Kulkarni SV, R. Kairon, S.S. Sane, P.S. Padmawar, V.A. Kale, M.R. Thakar, et al. Opportunistic parasitic infections in HIV/AIDS patients presenting with diarrhea by the level of immunesuppression. *Indian J Med Res*. 2009;130(1):63-6
- Lee MG, Rawlins SC, Didier M, DeCeulaer K (1990)."Infective arthritis due to *Blastocystis hominis*". *Ann.Rheum.Dis.* 49 (3): 192–3. doi:10.1136/ard.49.3.192. PMC 1004021. PMID 2322029.
- Levinson, Warren. 2004. Medical Microbiology & Immunology. McGraw Hill Companies: USA. 2004: 155-7
- Long HY, Handschack A, König W, Ambrosch A (2001). "*Blastocystis hominis* modulates immune responses and cytokine release in colonic epithelial cells". *Parasitol. Res.* 87 (12): 1029–30. doi:10.1007/s004360100494. PMID 11763434.
- McGowan K, Guerina V, Wicks J, Donowitz M (1985). *Secretory hormones of Entamoeba histolytica*. *Ciba Found. Symp.* Novartis Foundation Symposia. 112. pp. 139–54. doi:10.1002/9780470720936.ch8. ISBN 9780470720936. PMID 2861068.
- McGowan K, Kane A, Asarkof N, et al. (1983). "*Entamoeba histolytica* causes intestinal secretion: role of serotonin". *Science*. 221 (4612): 762–4. doi:10.1126/science.6308760. PMID 6308760.

- Minvielle M, Pezzani B, Cordoba M, De Luca M, Apezteguia M, Basualdo J. 2004. Epidemiological Survey of *Giardia spp.* and *Blastocystis hominis* in Argentinian Rural Community. The Korean Journal of Parasitology. 2004 September;42(3): 121-7
- Nimmanon, Thirayost. 2010. *Blastocystis hominis*. http://www.followhissteps.com/web_health/revisit.html (Diakses pada tanggal 24 November 2019 pukul 08.14 WIB).
- Pegelow K, Cross R, Pietrzik K, Lukito W, Richards A, Fryauf D. 1997. Parasitological and Nutritional Situation of School Children in The Sukaraja District, West Java, Indonesia. Southeast Asian Journal Trop Med Public Health. 1997;28:Abstract.
- Price, Sylvia A. & Wilson Lorraine M. (1992). Phathophysiology. Clinical Concepts of Disease processes. four edition. Mrsby Year Book. Inc
- Puthia MK, Sio SW, Lu J, Tan KS (2006). "Blastocystis ratti Induces Contact-Independent Apoptosis, F-Actin Rearrangement, and Barrier Function Disruption in IEC-6 Cells". *Infect. Immun.* 74 (7): 4114–23. doi:10.1128/IAI.00328-06. PMC 1489721. PMID 16790785.
- Puthia MK, Vaithilingam A, Lu J, Tan KS (2005). "Degradation of human secretory immunoglobulin A by Blastocystis". *Parasitol. Res.* 97 (5): 386–9. doi: 10.1007/s00436-005-1461-0. PMID 16151742.
- Read, Jenifer S. dan Committe on Pediatric AIDS. (2007). Pediatrics. Diagnosis of HIV-infected in children younger than 18 month in the United State. USA : American Academy of Pediatrics.
- Sadaf HS, Khan SS, Urooj KS, Asma B, Ajmal SM, Karachi T. *Blastocystis hominis*-Potential Diahorreal Agent a Review. *Int Res J Pharm.* 2013;4(1)1-5.
- Salehi, R., Ali Haghghi, C. Rune Stensvold, Farnaz Kheirandish, Eznelloah Azargashb, Saber Raeghi, Cobra Kohansal, and Fares Bahrami. 2017. Prevalence and Subtype Identification of *Blastocystis* Isolated From Humans in Ahvaz, Southwestern Iran. *Gastroenterol Hepatol Bed Bench* 10(3): 235-241.
- Sasongko A, Irawan H, Tatang R, Subahar R, Purnomo, Margono S. 2002. Intestinal Parasitic Infections in Primary School Children in Pulau Panggang and Pulau Pramuka, Kepulauan Seribu. Makara Kesehatan. 2002 June;6(1):8-11.
- Soedarto. 2011. Buku Ajar Parasitologi Kedokteran. Jakarta: CV Sagung Seto.
- Stenzel DJ., and Boreham PF. 1996. *Blastocystis hominis* revisited. *Clin Microbiology Rev* (4):563-84.
- Suhaimi, D., Maya S., Sofie R.K., (2009). Pencegahan dan Penatalaksanaan Infeksi HIV/AIDS pada Kehamilan. Majalah Kedokteran Bandung. Vol 41, No.2. doi:10.15395/mkb.v41n2.184
- Tan K. *Blastocystis spp.* In: Na K, editor. Emerging Protozoan Pathogens:Rotledge; 2008. p. 153-75.
- Tan, Kevin S.W. (2008). New Insights on Classification, Identification, and Clinical Relevance of *Blastocystis* spp. *Clinical Microbiology Reviews*. 21(4):639-665.

- Tiyasari, Ika (2018). Persepsi Masyarakat Terhadap Kelompok Risiko HIV/AIDS di Desa Tlogomulyo Kecamatan Gubug Kabupaten Grobogan. Semarang.
- Zhang HW, Li W, Yan QY, He LJ, Su YP (2006). "[Impact of *Blastocystis hominis* infection on ultrastructure of intestinal mucosa in mice]" [Impact of *Blastocystis hominis* infection on ultrastructure of intestinal mucosa in mice]. *Zhongguo Ji Sheng Chong Xue Yu Ji Sheng Chong Bing Za Zhi* (in Chinese). 24 (3): 187–91. PMID 17094618.
- Zierdt C. (1991). *Blastocystis hominis*—past and future. *Clin Microbiol Rev.* 1991;4:61-79.