

DAFTAR PUSTAKA

1. Yersal O, Malatyali E, Ertabaklar H, Oktay E, Barutca S, Ertug S. Blastocystis subtypes in cancer patients: Analysis of possible risk factors and clinical characteristics. *Parasitol Int.* 2016;65(6):792–6.
2. Wawrzyniak I, Poirier P, Texier C, Delbac F, Viscogliosi E, Dionigia M, et al. Blastocystis, an unrecognized parasite: An overview of pathogenesis and diagnosis. *Ther Adv Infect Dis.* 2013;1(5):167–78.
3. Scanlan PD, Knight R, Song SJ, Ackermann G, Cotter PD. Prevalence and genetic diversity of Blastocystis in family units living in the United States. *Infect Genet Evol* [Internet]. 2016;45:95–7. Available from: <http://dx.doi.org/10.1016/j.meegid.2016.08.018>
4. Matovelle, C.; Tejedor, M.T.; Monteagudo, L.V.; Beltrán, A.; Quílez, J. Prevalence and Associated Factors of Blastocystis sp. Infection in Patients with Gastrointestinal Symptoms in Spain: A Case-Control Study. *Trop. Med. Infect. Dis.* 2022, 7, 226. Available from: <https://doi.org/10.3390/tropicalmed70902265>.
5. Incani RN, Ferrer E, Hoek D, Ramak R, Roelfsema J, Mughini-Gras L, et al. Diagnosis of intestinal parasites in a rural community of Venezuela: Advantages and disadvantages of using microscopy or RT-PCR. *Acta Trop* [Internet]. 2017;167:64–70. Available from: <http://dx.doi.org/10.1016/j.actatropica.2016.12.014>
6. Mohammad NA, Al-Mekhlafi HM, Moktar N, Anuar TS. Prevalence and risk factors of Blastocystis infection among underprivileged communities in rural Malaysia. *Asian Pac J Trop Med.* 2017;10(5):491–7.
7. Kiani H, Haghghi A, Salehi R, Azargashb E. Distribution and risk factors associated with intestinal parasite infections among children with gastrointestinal disorders. 2016;9:80–7.
8. Dib JR, Fernández-Zenoff M V., Oquilla J, Lazarte S, González SN. Prevalence of intestinal parasitic infection among children from a shanty town in Tucuman, Argentina. *Trop Biomed.* 2015;32(2):210–5.
9. AbuOdeh R, Ezzedine S, Samie A, Stensvold CR, ElBakri A. Prevalence and subtype distribution of Blastocystis in healthy individuals in Sharjah, United Arab Emirates. *Infect Genet Evol* [Internet]. 2016;37:158–62. Available from: <http://dx.doi.org/10.1016/j.meegid.2015.11.021>
10. Perea M, Vasquez V, Pineda V, Samudio F, Calzada JE, Saldana A. Prevalence and subtype distribution of Blastocystis sp. infecting children from a rural community in Panama. *Trop Biomed.* 2020;37(1):127–41.
11. Sari IP, Benung MR, Wahdini S, Kurniawan A. Diagnosis and identification of Blastocystis subtypes in primary school children in Jakarta. *J Trop Pediatr.* 2018;64(3):208–14.

12. Nofita E, Harminarti N, Rusjdi SR. Identifikasi Blastocystis Hominis secara mikroskopis dan PCR pada sampel feses di laboratorium RSUP. Dr. M. Djamil Padang. Maj Kedokt Andalas. 2015;37(1):26.
13. Vielma Guevara JR. Blastocystosis: Epidemiological, clinical, pathogenic, diagnostic, and therapeutic aspects. Investig Clin. 2019;60(1):53–78.
14. CDC. Blastocystis spp. infection-Biology [Internet]. 2019. Available from: <https://www.cdc.gov/parasites/blastocystis/biology.html>
15. Abd H, Abdelhadi M, Council SC, Saeed A, Institutet K, Elawad G. Diagnosis and Following up the treatment of Acute Blastocystosis. Eur Acad Res. VI(4):1796–808.
16. Ascuña-Durand K, Salazar-Sánchez RS, Castillo-Neyra R, Ballón-Echegaray J. Relative Frequency of Blastocystis Subtypes 1, 2, and 3 in Urban and Periurban Human Populations Of Arequipa, Peru. Trop Med Infect Dis. 2020;5(4):178.
17. Flora, S.De, Maestra, S.La. Epidemiology of cancers of infectious origin and prevention strategies. J Prev Med Hyg. 2015; 56(1): E15–E20.
18. Mohamed AM, Ahmed MA, Ahmed SA, Al-Semany SA, Alghamdi SS, Zaglool DA. Predominance and association risk of Blastocystis hominis subtype 1 in colorectal cancer: A case control study. Infect Agent Cancer. 2017;12(1):1–8.
19. InfoDATIN. Beban Kanker di Indonesia. Kementerian Kesehat RI Pus Data dan Inf. 2019;1–16.
20. Benson AB, Venook AP, Al-Hawary MM, Cederquist L, Chen YJ, Ciombor KK, et al. NCCN Guidelines ® Insights Colon Cancer, Version 2.2018 Featured Updates to the NCCN Guidelines. Vol. 16, JNCCN Journal of the National Comprehensive Cancer Network. Harborside Press; 2018. p. 359–69.
21. Sulżyc-Bielicka V, Kołodziejczyk L, Adamska M, Skotarczak B, Jaczewska S, Safranow K, et al. Colorectal cancer and Blastocystis sp. infection. Parasites and Vectors. 2021;14(1):1–9.
22. Fitri C. Hubungan Obesitas dengan Kejadian Colorectal Carcinoma di RSUP Dr. M. Djamil Padang Periode Januari-Desember 2019 [skripsi]. Padang: Fakultas Kedokteran Universitas Andalas; 2019.
23. Scanlan PD. Blastocystis: Past pitfalls and future perspectives. Trends Parasitol [Internet]. 2012;28(8):327–34. Available from: <http://dx.doi.org/10.1016/j.pt.2012.05.001>
24. Zhou Y-L, Zhao N, Yang Y, Li Y, Zhang X, Chen J, et al. Molecular identification and subtype analysis of Blastocystis in captive Asiatic black bears (*Ursus thibetanus*) in China's Heilongjiang and Fujian provinces. Front Cell Infect Microbiol. 2022;12:1–7.

25. Stensvold C. *Blastocystis*: Genetic diversity and molecular methods for diagnosis and epidemiology. *Trop Parasitol.* 2013;3(1):26.
26. Popruk S, Udonsom R, Koompapong K, Mahittikorn A, Kusolsuk T, Ruangsittichai J, et al. Subtype distribution of *blastocystis* in Thai-Myanmar border, Thailand. *Korean J Parasitol.* 2015;53(1):13–9.
27. Singh U, Petri WA. *Amebas. Principles and Practice of Clinical Parasitology.* 2003. 197–218 p.
28. Jeremiah S, Parija S. *Blastocystis*: Taxonomy, biology and virulence. *Trop Parasitol.* 2013;3(1):17.
29. Deng, Y., Zhang, S., Ning, C., Zhou, Y., Teng, X., Wu, X., Wang, W. Molecular Epidemiology and Risk Factors of *Blastocystis* sp. Infections Among General Populations in Yunnan Province, Southwestern China. *Risk Manag Healthc Policy.* 2020; 13: 1791–1801. doi:10.2147/rmhp.s269664
30. Bart A, Wentink-Bonnema EMS, Gilis H, Verhaar N, Wassenaar CJA, van Vugt M, et al. Diagnosis and subtype analysis of *Blastocystis* sp. in 442 patients in a hospital setting in the Netherlands. *BMC Infect Dis.* 2013;13(1):2–7.
31. Salvador, F., Sulleiro, E., Sánchez-Montalvá, A. et al. Epidemiological and clinical profile of adult patients with *Blastocystis* sp. infection in Barcelona, Spain. *Parasites & Vectors.* 2016;9(548):1-7. Available from: <https://doi.org/10.1186/s13071-016-1827-4>
32. Rebolla MF, Silva EM, Gomes JF, Falcão AX, Rebolla MVF, Franco RMB. High prevalence of *Blastocystis* spp. infection in children and staff members attending public urban schools in São Paulo State, Brazil. *Rev Inst Med Trop Sao Paulo.* 2016;58(2).
33. - R, Destifani NL, Yuwono E, Siagian FE, Wahyuningsih R. Profil dan Prevalensi *Blastocystis hominis* di Laboratorium Parasitologi Fakultas Kedokteran Universitas Kristen Indonesia. Maj Kedokt UKI. 2021;36(2):55–62.
34. Yulfi H, Rozi MF, Andriyani Y, Darlan DM. Prevalence of *Cryptosporidium* spp. and *Blastocystis hominis* in faecal samples among diarrheic HIV patients in Medan, Indonesia. *Med Glas.* 2021;18(1):1–7.
35. Ithoi I, Jali A, Mak JW, Wan Sulaiman WY, Mahmud R. Occurrence of *blastocystis* in water of two rivers from recreational areas in Malaysia. *J Parasitol Res.* 2011.
36. El Safadi D, Gaayeb L, Meloni D, Cian A, Poirier P, Wawrzyniak I, et al. Children of Senegal River Basin show the highest prevalence of *Blastocystis* sp. ever observed worldwide. *BMC Infect Dis.* 2014;14(1):1–11.

37. Dagci H, Kurt Ö, Demirel M, Mandiracioglu A, Aydemir S, Saz U, et al. Epidemiological and diagnostic features of blastocystis infection in symptomatic patients in izmir province, turkey. Iran J Parasitol. 2014;9(4):519–29.
38. Roberts T, Stark D, Harkness J, Ellis J. Update on the pathogenic potential and treatment options for Blastocystis sp. Gut Pathog. 2014;6(1):1–9.
39. Karamati SA, Mirjalali H, Niyyati M, Yadegar A, Asadzadeh Aghdaei H, Haghghi A, Seyyed Tabaei SJ. Association of Blastocystis ST6 with higher protease activity among symptomatic subjects. BMC Microbiol. 2021;21(1):285. doi: 10.1186/s12866-021-02341-9.
40. Norouzi M, Pirestani M, Arefian E, Dalimi A, Sadraei J, Mirjalali H. Exosomes secreted by *Blastocystis* subtypes affect the expression of proinflammatory and anti-inflammatory cytokines (TNF α , IL-6, IL-10, IL-4). Front Med (Lausanne). 2022;9:940332. doi: 10.3389/fmed.2022.940332.
41. Verma R, Delfanian K. *Blastocystis hominis* associated acute urticaria. Am J Med Sci [Internet]. 2013;346(1):80–1. Available from: <http://dx.doi.org/10.1097/MAJ.0b013e3182801478>
42. Clark CG, van der Giezen M, Alfellani MA, Stensvold CR. Recent Developments in *Blastocystis* Research [Internet]. Vol. 82, Advances in Parasitology. Elsevier; 2013. 1–32 p. Available from: <http://dx.doi.org/10.1016/B978-0-12-407706-5.00001-0>
43. Forsell J, Granlund M, Stensvold CR, Clark GC, Evengård B. Subtype analysis of *Blastocystis* isolates in Swedish patients. Eur J Clin Microbiol Infect Dis. 2012;31(7):1689–96.
44. Sekar U, Shanthi M. Blastocystis: Consensus of treatment and controversies. Trop Parasitol. 2013;3(1):35.
45. Thrumurthy SG, Thrumurthy SSD, Gilbert CE, Ross P, Haji A. Colorectal adenocarcinoma: Risks, prevention and diagnosis. BMJ. 2016;354(July):1–12.
46. Bray F, Ferlay J, Soerjomataram I, Siegel RL, Torre LA, Jemal A. Global cancer statistics 2018: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. CA Cancer J Clin. 2018;68(6):394–424.
47. Sung H, Ferlay J, Siegel RL, Laversanne M, Soerjomataram I, Jemal A, et al. Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. CA Cancer J Clin. 2021;71(3):209–49.
48. Hapsari PK, Murbawani EA. Hubungan Asupan Serat, Lemak Dan Kalsium Dengan Kejadian Karsinoma Kolorektal Di Semarang. J Nutr Coll. 2016;5(4):461–8.

49. Bowel cancer incidence statistics [Internet]. Cancer Research UK. Available from: <https://www.cancerresearchuk.org/health-professional/cancer-statistics/statistics-by-cancer-type/bowel-cancer/incidence>
50. White A, Ironmonger L, Steele RJC, Ormiston-Smith N, Crawford C, Seims A. A review of sex-related differences in colorectal cancer incidence, screening uptake, routes to diagnosis, cancer stage and survival in the UK. *BMC Cancer.* 2018;18(1):1–11.
52. DeVita VT, Lawrence TS, Rosenberg SA. Cancer Principles & Practice of Oncology 10th Edition. Abeloff's Clinical Oncology. 2019. 1174-1196.e6 p.
53. Fazeli MS, Keramati MR. Rectal cancer: A review. *Med J Islam Repub Iran.* 2015;29:1–23.
54. Aulawi T. Hubungan Konsumsi Daging Merah dan Gaya Hidup. *Kutubkhanah.* 2013;16(1):37–45.
55. Thanikachalam K, Khan G. Colorectal Cancer and Nutrition. *Nutrients.* 2019;11(1):164. doi: 10.3390/nu11010164.
56. Galas A, Augustyniak M, Sochacka-Tatara E. Does dietary calcium interact with dietary fiber against colorectal cancer? A case-control study in Central Europe. *Nutr J [Internet].* 2013;12(1):1. Available from: Nutrition Journal
57. Berkovic MC, Cigrovski V, Bilic-Curcic I, Mrzljak A. What is the gut feeling telling us about physical activity in colorectal carcinogenesis? *World J Clin Cases.* 2020;8(23):5844-5851. doi: 10.12998/wjcc.v8.i23.5844
58. Amirsasan, R., Akbarzadeh, M. & Akbarzadeh, S. Exercise and colorectal cancer: prevention and molecular mechanisms. *Cancer Cell Int.* 2022;22(247). Available from: <https://doi.org/10.1186/s12935-022-02670-3>
59. Brown, K.F., Rumgay, H., Dunlop, C. et al. The fraction of cancer attributable to modifiable risk factors in England, Wales, Scotland, Northern Ireland, and the United Kingdom in 2015. *Br J Cancer.* 2018;118:1130–1141. Available from: <https://doi.org/10.1038/s41416-018-0029-6>
60. Hull R, Frances FZ, Oyomno M, Dlamini Z. Colorectal Cancer Genetics, Incidence and Risk Factors: In Search for Targeted Therapies. *Cancer Manag Res.* 2020;12:9869-9882. Available from: <https://doi.org/10.2147/CMAR.S251223>
61. Gram IT, Park SY, Wilkens LR, Haiman CA, Le Marchand L. Smoking-Related Risks of Colorectal Cancer by Anatomical Subsite and Sex. *Am J Epidemiol.* 2020;189(6):543-553. doi: 10.1093/aje/kwaa005.
62. Brenner H, Kloost M, Pox CP. Colorectal cancer. *Lancet [Internet].* 2014;383(9927):1490–502. Available from: [http://dx.doi.org/10.1016/S0140-6736\(13\)61649-9](http://dx.doi.org/10.1016/S0140-6736(13)61649-9)

63. Lutgens MWMD, van Oijen MGH, van der Heijden GJMG, Vleggaar FP, Siersema PD, Oldenburg B. Declining risk of colorectal cancer in inflammatory bowel disease: an updated meta-analysis of population-based cohort studies. *Inflamm Bowel Dis.* 2013;19(4):789–99.
64. Coleman JF. Robbins and Cotran's Pathologic Basis of Disease, 8th Edition. Vol. 34, American Journal of Surgical Pathology. 2010. 132 p.
65. Atkin W, Dadswell E, Wooldrage K, Kralj-Hans I, Von Wagner C, Edwards R, et al. Computed tomographic colonography versus colonoscopy for investigation of patients with symptoms suggestive of colorectal cancer (SIGGAR): A multicentre randomised trial. *Lancet* [Internet]. 2013;381(9873):1194–202. Available from: [http://dx.doi.org/10.1016/S0140-6736\(12\)62186-2](http://dx.doi.org/10.1016/S0140-6736(12)62186-2)
66. IKABDI. Panduan Penatalaksanaan Kanker kolorektal. Perhimpun Dr Spes Bedah Dig Indones. 2016.
67. Bruening W, Sullivan N, Carter Paulson E, Zafar H, Mitchell M, Treadwell J, et al. Imaging Tests for the Staging of Colorectal Cancer. Comp Eff Rev No 142 (Prepared by ECRI Institute-Penn Med Evidence-based Pract Cent under Contract No 290-2012-00011-I) [Internet]. 2014;(142):1–43. Available from: www.%5Cneffectivehealthcare.ahrq.gov%5Cn/reports/final.cfm%5Cn.
68. Zhang X, Keum N, Wu K, Smith-Warner SA, Ogino S, Chan AT, Fuchs CS, Giovannucci EL. Calcium intake and colorectal cancer risk: Results from the nurses' health study and health professionals follow-up study. *Int J Cancer.* 2016;139(10):2232–42. doi: 10.1002/ijc.30293.
69. Xie, F., You, Y., Huang, J., Guan, C., Chen, Z., Fang, M., Han, J. Association between physical activity and digestive system cancer: An updated systematic review and meta-analysis. *Journal of Sport and Health Science.* 2020. doi:10.1016/j.jshs.2020.09.009
70. Kuipers, E. J., Grady, W. M., Lieberman, D., Seufferlein, T., Sung, J. J., Boelens, P. G., Watanabe, T. Colorectal cancer. *Nature Reviews Disease Primers.* 15065. 2015. doi:10.1038/nrdp.2015.65
71. Astuti N, Rafli R, Zeffira L. Profil Dan Kesintasan Penderita Kanker Kolorektal di RSUP Dr. M. Djamil Padang. 2019;1:45–9.
72. Tevis SE, Kennedy GD. Postoperative Complications: Looking Forward to a Safer Future. *Clin Colon Rectal Surg.* 2016;29(3):246–52.
73. Kumarasamy V, Anbazhagan D, Subramaniyan V, Vellasamy S. Blastocystis sp., Parasite Associated with Gastrointestinal Disorders: An Overview of its Pathogenesis, Immune Modulation and Therapeutic Strategies. *Curr Pharm Des.* 2018;24(27):3172–5.
74. Kumarasamy V, Kuppusamy UR, Jayalakshmi P, Samudi C, Ragavan ND, Kumar S. Exacerbation of colon carcinogenesis by Blastocystis sp. *PLoS One.* 2017 Aug 1;12(8).

75. Feng Q, Liang S, Jia H, Stadlmayr A, Tang L, Lan Z, et al. Gut microbiome development along the colorectal adenoma-carcinoma sequence. *Nat Commun.* 2015;6.
76. Tilg H, Adolph TE, Gerner RR, Moschen AR. The Intestinal Microbiota in Colorectal Cancer. *Cancer Cell* [Internet]. 2018;33(6):954–64. Available from: <https://doi.org/10.1016/j.ccr.2018.03.004>
77. Wong SH, Yu J. Gut microbiota in colorectal cancer: mechanisms of action and clinical applications. *Nat Rev Gastroenterol Hepatol* [Internet]. 2019;16(11):690–704. Available from: <http://dx.doi.org/10.1038/s41575-019-0209-8>
78. Kostic AD, Xavier RJ, Gevers D. The microbiome in inflammatory bowel disease: Current status and the future ahead. *Gastroenterology* [Internet]. 2014;146(6):1489–99. Available from: <http://dx.doi.org/10.1053/j.gastro.2014.02.009>
79. Toychiev A, Abdujapparov S, Imamov A, Navruzov B, Davis N, Badalova N, et al. Intestinal helminths and protozoan infections in patients with colorectal cancer: prevalence and possible association with cancer pathogenesis. *Parasitol Res.* 2018;117(12):3715–23.
80. Masturoh I, T NA. Metodologi Penelitian Kesehatan. Kementerian Kesehatan Republik Indonesia. 2018;307
81. Anthonyamy MA, Indrayani Maker LPL, Gotra IM, Saputra H. Prevalence of colorectal carcinoma based on microscopic type, sex, age and anatomical location in Sanglah General Hospital. *Intisari Sains Medis.* 2020;11(1):272.
82. Kumarasamy V, Kuppusamy UR, Samudi C, Kumar S. Blastocystis sp. subtype 3 triggers higher proliferation of human colorectal cancer cells, HCT116. *Parasitol Res.* 2013 Oct;112(10):3551–5.
83. Darwish B, Aboualchamat G, Al Nahhas S. Detection of Blastocystis in Stool Isolates Using Different Diagnostic Methods. *Res Sq.* 2020;1–12.
84. Salehi M, Mardaneh J, Niazkar HR, Minooeianhaghghi M, Arshad E, Soleimani F, et al. Prevalence and Subtype Analysis of Blastocystis hominis Isolated from Patients in the Northeast of Iran. *J Parasitol Res.* 2021.
85. Winerungan CC, Sorisi AMH, Wahongan, GJP. Infeksi Parasit Usus Pada Penduduk di Sekitar Tempat Pembuangan Akhir Sumompo Kota Manado. *JBM.* 2020;12(1):61–7. Available from: <https://doi.org/10.35790/jbm.12.1.2020.27093>
86. Dwijayanthi NKA, Dewi NNA, Mahayasa IM, Surudarma IW. Karakteristik Pasien Kanker Kolorektal di Rumah Sakit Umum Pusat (RSUP) Sanglah Berdasarkan Data Demografi, Temuan Klinis dan Gaya Hidup. *JMU.* 2020;9(6):55-62. doi:10.24843.MU.2020.V9.i6.P12

87. Majek O, Gondos A, Jansen L, Emrich K, Holleczek B, Katalinic A, et al. Sex Differences in Colorectal Cancer Survival: Population-Based Analysis of 164,996 Colorectal Cancer Patients in Germany. *PLoS One*. 2013;8(7):1–7.
88. Sylla, K., Sow, D., Lelo, S., Dieng, T., Tine, R.C., Faye, B. *Blastocystis* sp. Infection: Prevalence and Clinical Aspects among Patients Attending to the Laboratory of Parasitology–Mycology of Fann University Hospital, Dakar, Senegal. *Parasitologia*. 2022;2:292–301. Available from: <https://doi.org/10.3390/parasitologia2040024>
89. Yogi D, Mariadi I, Prathiwi P, Somayana G, Suryadarma I, Purwadi N, et al. Profil Penderita Kanker Kolorektal Rsup Sanglah Denpasar 2010-2014. *J Kedokt Univ Udayana*. 2014;(3):1–9.
90. Zannah SJ, Murti IS, Sulistiawati S. Hubungan Usia dengan Stadium Saat Diagnosis Penderita Kanker Kolorektal di RSUD Abdul Wahab Sjahranie Samarinda. *J Sains dan Kesehat*. 2021;3(5):701–5.

