

DAFTAR PUSTAKA

1. Ford AC, Mahadeva S, Carbone MF, Lacy BE, Carbone MF, Talley NJ. Functional dyspepsia. *The Lancet*. 2020 Nov;396(10263):1689–702.
2. Perkumpulan Gastroenterologi Indonesia. Konsensus penatalaksanaan dispepsia dan infeksi Helicobacter pylori Indonesia (KSHPI). 2014.
3. Muhammad EP, Murni AW, Sulastri D, Miro S. Hubungan derajat keasaman cairan lambung dengan derajat dispepsia pada pasien dispepsia Fungsional. *JKA*. 2014;3(1).
4. Talley NJ. Functional dyspepsia: advances in diagnosis and therapy. *Gut and Liver*. 2017 May 15;11(3):349–57.
5. Pleyer C, Bittner H, Locke GR, Choung RS, Zinsmeister AR, Schleck CD, et al. Overdiagnosis of gastro-esophageal reflux disease and underdiagnosis of functional dyspepsia in a USA community. *Neurogastroenterology and Motility: Journal of the European Gastrointestinal Motility Society*. 2014 Aug 1;26(8):1163–71.
6. Aziz I, Palsson OS, Törnblom H, Sperber AD, Whitehead WE, Simrén M. Epidemiology, clinical characteristics, and associations for symptom-based Rome IV functional dyspepsia in adults in the USA, Canada, and the UK: a cross-sectional population-based study. *Lancet Gastroenterology Hepatology* 2018;3:252–62
7. Esterita T, Dewi S, Suryatenggara FG, Glenardi G. Association of functional dyspepsia with depression and anxiety: A Systematic Review. *Journal of gastrointestinal and liver diseases: JGLD*. 2021 Jun 18;30(2):259–66.
8. Murni AW, Rulianti M, Almasdy D. Hubungan depresi dan sindrom dispepsia pada pasien penderita keganasan yang menjalani kemoterapi di RSUP DR M Djamil Padang, Indonesia. *Jurnal Kesehatan Andalas*. 2013;2(3).
9. Koloski NA, Jones MP, Talley NJ: Confirmation of bidirectional gut to brain pathways in irritable bowel syndrome and functional dyspepsia: a one year population-based prospective study. *Gastroenterology* 2016; 150:S737.
10. Murni AW, Andre Y, Machmud R. Hubungan pola makan dengan kejadian depresi pada penderita dispepsia fungsional. *Jurnal Kesehatan Andalas*. 2013 May 1;2(2):73.

11. Vanheel H, Farré R. Changes in gastrointestinal tract function and structure in functional dyspepsia. *Nat Rev Gastroenterol Hepatol* 2013;10:142–9.
12. Alwi I, Salim S, Hidayat R, Kurniawan J, Tahapary DL. Penatalaksanaan di bidang ilmu penyakit dalam panduan praktik klinis perhimpunan dokter spesialis penyakit dalam Indonesia. Interna Publishing Pusat Penerbitan Ilmu Penyakit Dalam. 2019.
13. Depression and Other Common Mental Disorders. Global health estimates. Geneva : World Health Organization. 2017
14. Kementerian Kesehatan RI. Laporan Nasional Riset Kesehatan Dasar (RISKESDAS) 2018. Badan Penelitian dan Pengembangan Kesehatan Kementerian Kesehatan Republik Indonesia 2019;
15. Jones MP, Dilley JB, Drossman D, Crowell MD. Brain-gut connections in functional GI disorder: anatomic and physiologic relationships. *Neurogastroenterol Motil.* 2006;18:91–103.
16. Foster JA, Neufeld KA. Gut Brain Axis: How the microbiome influences anxiety and depression. *Trends Neurosci.* 2013;36:305–12.
17. Winter G, Hart RA, Charlesworth RPG, Sharpley CF. gut microbiome and depression: what we know and what we need to know. *Reviews in the neurosciences.* 2018.
18. Murni AW. Kadar kortisol plasma pada dispepsia fungsional dengan gangguan psikosomatik. *Jurnal Penyakit Dalam Indonesia.* 2020;7(1):15–21.
19. Venegas DP, Fuente MK, Landskron G, González MJ, Quera R, Dijkstra G, et al. Short chain fatty acids (SCFAs)-mediated gut epithelial and immune regulation and its relevance for inflammatory bowel diseases. *Frontiers in immunology.* 2019 Mar 11;10(277).
20. Sheehan D, Moran C, Shanahan F. The microbiota in inflammatory bowel disease. *Journal Gastroenterology* 2015;50:495–507.
21. Limbana T, Khan F, Eskander N. Gut microbiome and depression: how microbes affect the way we think. *Cureus.* 2020;12(8):1-14.

22. Müller B, Rasmusson AJ, Just D, Jayarathna S, Moazzami A, Novicic ZK, et al. Fecal short chain fatty acid ratios as related to gastrointestinal and depressive symptoms in young adults. *Psychosomatic Medicine*. 2021 Sep;83(7):693–9.
23. Martin-Gallaixaux C, Marinelli L, Blotti  re HM, Larraufie P, Lapaque N. SCFA: mechanisms and functional importance in the gut. *Proceedings of the Nutrition Society*. 2020 Apr 2;80(1):37–49.
24. Zydecka KS, Grochans E, Maciejewska D, Szkup M, Matyka D, Jurczak A, et al. Faecal short chain fatty acids profile is changed in Polish depressive women. *Nutrient*. 2018 dec;19(10):1-14.
25. Beeckmans D, Riethorst D, Augustijns P, Vanuytsel T, Ricard Farr  , Tack J, et al. Altered duodenal bile salt concentration and receptor expression in functional dyspepsia. *Ueg Journal*. 2018 Sep;6(9):1347–55.
26. Napthali K, Koloski N, Walker MM, Talley NJ. Women and functional dyspepsia. *women's Health*. 2016 Mar;12(2):241–50.
27. Tziatzios G, Gkolfakis P, Papanikolaou I, Mathur R, Pimentel M, Giamparellos-Bourboulis EJ, et al. Gut microbiota dysbiosis in functional dyspepsia. *Microorganism*. 2020;8(691):1-12.
28. Ridlon JM, Harris SC, Bhowmik S, Kang DJ, Hylemon PB. Consequences of bile salt biotransformations by intestinal bacteria. *Gut Microbes*. 2016 Jan 2;7(1):22–39.
29. Yagi T, Asakawa A, Ueda H, Miyawaki S, Inui A. The role of ghrelin in patients with functional dyspepsia and its potential clinical relevance. *International Journal of Molecular Medicine*. 2013;32:523-531.
30. Wauters L, Talley NJ, Walker MM, Tack J, Vanuytsel T. Novel concepts in the pathophysiology and treatment of functional dyspepsia. *Gut*. 2019 Nov 29;69(3):591–600.
31. Kaplan, Sadock. Ilmu Pengetahuan perilaku psikiatri klinis. Dalam : Sinopsis psikiatri, Edisi ketujuh. Jakarta : Binarupa Aksara. 1997;777–834.
32. Kalia M. Neurobiological basis of depression: an update. *Metabolism*, 2005;54(5):24–7.

33. Nevid SF, Rathus AS, Greene B. Psikologi Abnormal Edisi Kelima, Erlangga: Jakarta. 2003.
34. Katon WJ. Epidemiology and treatment of depression In patients with chronic medical illness. Dialogues in clinical Neuroscience. 2011;13:7–23.
35. Levenson JL. The American psychiatric publishing textbook of psychosomatic medicine: psychiatric care of the medically ill. American Psychiatric Pub; 2011.
36. Brigitta B. Pathophysiology of depression and mechanisms of treatment. Dialogues in clinical neuroscience. 2022;4(1):7–20.
37. Rosyanti L, Devianti R, Hadi I, Syahrianti S. Kajian Teoritis: hubungan antara depresi dengan sistem neuroimun (Sitokin-HPA Aksis) Psikoneuroimunoologi. Health Information. 2017;9(2):35–52.
38. Ng J, Papandreou A, Heales SJ, Kurian MA. Monoamine neurotransmitter disorders—clinical advances and future perspectives. Nature Reviews Neuroscience. 2015;11(10):567–84.
39. Spellman T, Liston C. Toward circuit mechanisms of pathophysiology in depression. American Journal of Psychiatry. 2020;177(5):381–90.
40. Kunugi H. Gut microbiota and pathophysiology of depressive disorder. Annals of Nutrition and Metabolism. 2021;77(2):11–20.
41. Ting EY, Yang AC, Tsai SJ. Role of interleukin-6 in depressive disorder. International journal of molecular science. 2020;21(6):2194.
42. Kano M, Van Oudenhove L, Dupont P, Wager TD, Fukudo S. Imaging brain mechanisms of functional somatic syndromes: potential as a biomarker?. The Tohoku journal of experimental medicine. 2020;250(3):137–52.
43. Black DW, Grant JE. DSM-5 guidebook: The essential companion to the diagnostic and statistical manual of mental disorders. AmericanPsychiatric Pub; 2014.
44. Chen LM, Bao CH, Wu Y, Liang SH, Wang D, Wu LY, et al. Tryptophan- kynurenone metabolism: a link between the gut and brain for depression in inflammatory bowel disease. Journal of neuroinflammation. 2021;18(1):1–3.

45. Löwe B, Spitzer RL, Williams JBW, Mussell M, Schellberg D, Kroenke K, et al. Depression, anxiety and somatization in primary care: syndrome overlap and functional impairment. *General Hospital Psychiatry* 2008;30: 191–199.
46. World Health Organization. The ICD-10 Classification of mental and behavioural disorders. World Health Organization. 1993.
47. Muslim R. Pedoman Penggolongan dan Diagnosis Gangguan Jiwa III (PPDGJ III). Jakarta : Departemen Kesehatan RI; 2013.
48. Arlington VA. Depression disorders in diagnostic and statistical manual of mental disorders 5th Edition. American Psychiatric Association. 2013.
49. Mitchell AJ. The origin of depression in: Neuropsychiatry and behavioural neurology explained. Philadelphia: Saunders Company. 2004;429–33.
50. Roelofs J, van Breukelen G, de Graaf LE, Beck AT, Arntz A, Huibers MJ. Norms for the Beck Depression Inventory (BDI-II) in a large Dutch community sample. *Jou of Psych and Behav Asses.* 2013;35:93-8.
51. Jamil O, Sarwar S, Hussain Z, Fiaz RO, Chaudary RD. Association between functional dyspepsia and severity of depression. *Journal of the College of Physicians and Surgeons Pakistan: JCPSP.* 2016 Jun 1;26(6):513–6.
52. Carra AS, Carmela DA, Djamila E, Orli S, Schwartz, Simmons JG, et al. The gut microbiota in anxiety and depression: a systematic review. Elsevier. 2020;7358(20):30131–8.
53. Shanahan ER, Zhong L, Talley NJ. Characterisation of the gastrointestinal mucosa-associated microbiota: a novel technique to prevent cross-contamination during endoscopic procedures. *Aliment Pharmacol Ther* 2016;43:1186–96.
54. Zalar B, Haslberger A, Peterlin B. The role of microbiota in depression-a brief review. *Psych dan.* 2018;30(2):136–41.
55. Gonzalez-Mercado VJ, Lim J, Saligan LN, Perez N, Rodriguez C, Bernabe R, et al. Gut microbiota and depressive symptoms at the end of CRT for rectal cancer: A cross-sectional pilot study. *Dep Res and Treat.* 2021;2021:1–10.
56. Sarkar A, Lehto SM, Harty S, Dinan TG, Cryan JF, Burnet P. Psychobiotics and the manipulation of bacteria-gut-brain signals. *Tre in neurosci.* 2016;39(11):763–81.

57. Yong SJ, Tong T, Chew J, Lim WL. Antidepressive mechanisms of probiotics and their therapeutic potential. *Frontiers in Neuroscience*. 2020;13(1361):1–29.
58. Wei CL, Wang S, Yen JT, Cheng YF, Liao CL, Hsu CC, et al. Antidepressant-like activities of live and heat-killed lactobacillus paracasei PS23 in chronic corticosterone-treated mice and possible mechanisms. *Brain res.* 2019;1711:202–13.
59. Neufeld KA, Foster JA. Gut brain axis: How the microbiome influences anxiety and depression. *Trends Neurosci.* 2013;36:305–12.
60. Alcock J, Maley CC, Aktipis CA. Is eating behavior manipulated by the gastrointestinal microbiota? Evolutionary Pressures and Potential Mechanisms. *Bioessys.* 2014;36:940–9.
61. Bravo JA, Fosythe P, Chew MV, Escaravage E, Savignac HM, Dinan TG, et al. Ingestion of lactobacillus strain regulates emotional behavior and central GABA receptor expression in a mouse via the vagus nerve. *Proc Natl Acad.* 2011;108(38):16050–5.
62. Ku Kim Y, Shin C. The microbiota gut brain axis in neuropsychiatric disorder: Pathophysiology mechanisms and novel treatments. *Current Neuropharmacology.* 2018;16(5):559–573.
63. Goehler LE, Gaykema RP, Opitz N, Reddaway R, Badr N, Lyte M. Activation in vagal afferents and central autonomic pathways: early responses to intestinal infection with campylobacter Jejuni. *Brain Behav Immun.* 2005;19(4):334–44.
64. Yano JM, Yu K, Donaldson GP, Shastri GG, Ann P, Ma L, et al. Indigenous bacteria from the gut microbiota regulate serotonin biosynthesis. *Cell.* 2015;161(2):264–276.
65. Kimura I, Inoue D, Maeda T, Hara T, Ichimura A, Miyauchi S, et al. Short chain fatty acids and ketones directly regulate sympathetic nervous system via G Protein-Couple Receptor 41 (GPR41). *Proc Natl Acad.* 2011;108(19):8030–5.
66. Morrison DJ, Preston T. Formation of short chain fatty acids by the gut microbiota and their impact on human metabolism. *Gut Microbes.* 2016 Mar 10;7(3):189–200.
67. Silva YP, Bernardi A, Frozza RL. The role of short-chain fatty acids from gut microbiota in gut-brain communication. *Frontiers in Endocrinology.* 2020; 31;11(25):1-14.

68. Dalile B, Oundenhove LV, Vervliet B, Verbeke K. The role of short chain fatty acids in microbiota gut brain communication. *Nature Reviews.* 2019;23(1):1-18.
69. Weersma RK, Zhernakova A, Fu J. Interaction between drugs and the gut microbiome. *BMJ Journals Gut.* 2020;69:1510-1519.
70. Montandon SA, Jornayvaz FR. Effects of antidiabetic drugs on gut microbiota composition. *Genes (Basel).* 2017 Sep 30;8(10):250.
71. Kim SE, Kim N, Lee JY, Park KS, Shin JE, Nam K, et al. Prevalence and Risk Factors of Functional Dyspepsia in Health Check-up Population: A Nationwide Multicenter Prospective Study. *Journal of Neurogastroenterology and Motility.* 2018 Oct 1;24(4):603–13.
72. Zhang S, Wu L, Zhang B, Zhu Y, Fan Y, Wang Q, et al. Impaired decision-making under risk in patients with functional dyspepsia. *J Clin Exp Neuropsychol* 2020;42:771–780.
73. Kim YS, Kim N. Functional Dyspepsia: A Narrative Review With a Focus on Sex-Gender Differences. *Journal of Neurogastroenterology and Motility.* 2020 Jun 30;26(3):322–34.
74. Al-Shboul OA, Nazzal MS, Mustafa AG, Al-Dwairi AN, Alqudah MA, Abu Omar A, et al. Estrogen relaxes gastric muscle cells via a nitric oxide and cyclic guanosine monophosphate-dependent mechanism: A sex-associated differential effect. *Experimental and Therapeutic Medicine.* 2018 Sep;16(3):1685–92.
75. Shang YY, Xu F. Anxiety and depression in patients with functional gastrointestinal disorders: prevalence and correlation with severity of gastrointestinal symptoms. *World Chin J Dig* 2016; 24:3051–3055.
76. Adibi P, Keshteli AH, Daghaghzadeh H, Roohafza H, Pournaghshband N, Afshar H. Association of anxiety, depression, and psychological distress in people with and without functional dyspepsia. *Adv Biomed Res* 2016; 5:195
77. Mahadeva S, Goh KL. Epidemiology of functional dyspepsia: A global perspective. *World J Gastroenterol.* 2006 May 7; 12(17): 2661–2666.

78. Dibaise JK, Islam RS, Dueck AC, Roarke MC, Crowel MD. Psychological distress in Rome III functional dyspepsia patients presenting for testing of gastric emptying. *Neurogastroenterol Motil.* 2016; 28, 196–205.
79. Matsuzaki J, Suzuki H, Togawa K, Yamane T, Mori H, Komori T, et al. Burden of impaired sleep quality on work productivity in functional dyspepsia. *United European Gastroenterol J* 2018; 6:398–406.
80. Fang YJ, Liou JM, Chen CC, Lee JY, Hsu YC, Chen M, et al. Distinct aetiopathogenesis in subgroups of functional dyspepsia according to the Rome III criteria. *Gut* 2015; 64:1517–1528.
81. Taple BJ, Chapman R, Schalet BD, Brower R, Griffith JW. The impact of education on depression assessment: differential item functioning analysis. *Assessment.* 2022 March; 29(2): 272–284.
82. Shams N, Usmani F, Andaleeb H, Niaz F, Meraj L, Munir N. Association of functional dyspepsia with depression; gut-brain axis and mental health. *JRMC.* 2024 Mar. 30;28(1).
83. Xu H, Li S, Song X, Li Z, Zhang D. Exploration of the association between dietary fiber intake and depressive symptoms in adults. *Nutrition.* 2018. 54, 48–53.
84. Fatahi S, Matin SS, Sohouli MH, Găman MA, Raee P, Olang B, et al. Association of dietary fiber and depression symptom: A systematic review and meta-analysis of observational studies. *Complementary Therapies in Medicine.* 2021. 56;102621.
85. Cheng J, Hu H, Ju Y, Liu J, Wang M, Liu B, et al. Gut microbiota derived short chain fatty acids and depression: deep insight into biological mechanisms and potential applications. *Gen Psychiatr.* 2024 Feb 19;37(1):e101374.
86. Fu Y, Moscoso DI, Porter J, Krishnareddy S, Abrams JA, Seres D, et al. Relationship between dietary fiber intake and short chain fatty acid producing bacteria during critical illness: a prospective cohort study. *JPEN J Parenter Enteral Nutr.* 2020 Mar;44(3):463-471.
87. Gibson GR, Hutkins R, Sanders ME, Prescott SL, Reimer RA, Salminen SJ, et al. Expert Consensus Document: The International Scientific Association for Probiotics

- and Prebiotics (ISAPP) Consensus Statement on the Definition and Scope of Prebiotics. *Nat. Rev. Gastroenterol. Hepatol.* 2017;14:491–502.
88. Vinelli V, Biscotti P, Martini D, Del Bo' C, Marino M, Meroño T, et al. Effects of dietary fibers on short-chain fatty acids and gut microbiota composition in healthy adults: a systematic review. *Nutrients.* 2022 Jun 21;14(13):2559.
 89. KEMENDIKBUD. Undang Undang Republik Indonesia No.20 tentang Sistem Pendidikan Nasional. KEMENDIKBUDRISTEK. 2003.
 90. Singh RK, Chang HW, Yan D, Lee KM, Ucmak D, Wong K, et al. Influence of diet on the gut microbiome and implications for human health. *J. Transl. Med.* 2017, 15
 91. Chen Y, Xu J, Chen Y. Regulation of neurotransmitters by the gut microbiota and effects on cognition in neurological disorders. *Nutrients* 2021;13:2099. 10.3390/nu13062099
 92. Jiang H, Ling Z, Zhang Y, Mao H, Ma Z, Yin Y, et al. Altered fecal microbiota composition in patients with major depressive disorder. *Brain Behav Immun* 2015;48:186–94. 10.1016/j.bbi.2015.03.016
 93. Sassarini DJ. Depression in midlife women. *Maturitas.* 2016 Dec;94:149-154.
 94. Jung SJ, Woo H, Cho S, Park K, Jeong S, Lee YJ, et al. Association between body size, weight change and depression: systematic review and meta-analysis. *British Journal of Psychiatry.* 2017;211(1):14–21.
 95. Jokela M, Laakasuo M. Obesity as a causal risk factor for depression: Systematic review and meta-analysis of Mendelian Randomization studies and implications for population mental health. *Journal of Psychiatric Research.* Volume 163. 2023. 86-92.
 96. Fu X, Wang Y, Zhao F, Cui R, Xie W, Liu Q, et al. Shared biological mechanisms of depression and obesity: focus on adipokines and lipokines. *Aging.* 2023 Jun 29;15(12):5917-5950.
 97. Smith JM, McLuckie A, Szeto ACH, Choate P, Birks LK, Burns VF, et al. Exploring mental health and well-being among university faculty members: a qualitative study. *J. Psychosoc. Nurs. Ment. Health Serv.* 2022;60:17–25.
 98. Holt-Lunstad J, Smith TB, Layton JB. Social relationships and mortality risk: a meta-analytic review. *PLoS Med.* 2017 Jul 27;7(7):e1000316.

99. Umberson D, Montez JK. Social relationships and health: a flashpoint for health policy. *J Health Soc Behav.* 2010;51 Suppl(Suppl):S54-66.
100. Saghafian F, Hajishafiee M, Rouhani P, Saneei P. Dietary fiber intake, depression, and anxiety: a systematic review and meta-analysis of epidemiologic studies. *Nutr Neurosci.* 2023 Feb;26(2):108-126. doi: 10.1080/1028415X.2021.2020403. Epub 2022 Jan 4. PMID: 36692989.
101. Lai CCW, Boag S. The association between gut-health promoting diet and depression: A mediation analysis. *J Affect Disord.* 2023 Mar 1;324:136-142. doi: 10.1016/j.jad.2022.12.095. Epub 2022 Dec 28.
102. Jakše B, Pinter S, Bučar M, Pajek J. Effects of an Ad Libitum Consumed Low-Fat Plant-Based Diet Supplemented with Plant-Based Meal Replacements on Body Composition Indices. *Biomed Res Int.* 2017;2017:9626390
103. De la Cuesta J, Mueller NT, Álvarez R, Velásquez EP, Sierra JA, Corrales V, et al. Higher fecal short-chain fatty acid levels are associated with gut microbiome dysbiosis, obesity. *Nutrients* 2019, 11, 51
104. Yu S, Wang L, Jing X, Wang Y, An C. Features of gut microbiota and short-chain fatty acids in patients with first-episode depression and their relationship with the clinical symptoms. *Front Psychol.* 2023 Apr 24;14:1088268.
105. Jones J, Reinke SN, Ali A, Palmer DJ, Chris CT. Fecal sample collection methods and time of day impact microbiome composition and short chain fatty acid concentrations. *Sci Rep* 11. 2021. 13(964).
106. Spychala MS, Venna VR, Jandzinski M, Doran SJ, Durgan DJ, Ganesh BP, et al. Age-related changes in the gut microbiota influence systemic inflammation. *Ann Neurol.* 2018 Jul;84(1):23-36