

DAFTAR PUSTAKA

1. Irawan R, Subijanto M, Taat Putra S, Soetjipto. Efek Pemberian Glutamin terhadap Aktivitas Sucrase, Maltase, Lactase dan Ekspresi Spectrin, Clathrin dalam Perbaikan Mikrovili Ileum pada Tikus Malnutrisi. *J Biosains Pascasarj* [Internet]. 2012;14:48–60. Tersedia pada: <https://pdfs.semanticscholar.org/f8cf/b44ad77fe57271d9097827607690e30606b5.pdf>
2. Mittal P, B D. Role of Zinc in Malnutrition. *Ann Nutr Disord Ther* [Internet]. 2016;3(1):1–4. Tersedia pada: <https://austinpublishinggroup.com/nutritional-disorders/fulltext/and-t-v3-id1029.php>
3. Yonata A, Fathul Muin Farid A. Penggunaan Probiotik sebagai Terapi Diare. *Majority* [Internet]. 2016;5(2):1–5. Tersedia pada: <https://juke.kedokteran.unila.ac.id/index.php/majority/article/viewFile/1068/907>
4. Fenn B. Malnutrition in Humanitarian Emergencies. *Midwifery*. 2014;4.
5. Pusdatin. *infodatin-gizi.pdf*. In Kementerian Kesehatan RI; 2015.
6. Kementerian Kesehatan RI. *Riskesmas* [Internet]. Indonesia; 2018. Tersedia pada: <https://www.kemkes.go.id/resources/download/info-terkini/hasil-riskesmas-2018.pdf>
7. Prendergast AJ, Humphrey JH. The stunting syndrome in developing countries. *Paediatr Int Child Health* [Internet]. 13 November 2014;34(4):250–65. Tersedia pada: <http://www.tandfonline.com/doi/full/10.1179/2046905514Y.0000000158>
8. Hidayati L, Hadi H, Kumara A. Kekurangan Energi Dan Zat Gizi Merupakan Faktor Risiko Kejadian Stunted Pada Anal Usia 1-3 Tahun Yang Tinggal Di Wilayah Kumuh Perkotaan Surakarta. *J Kesehat* [Internet]. 2010;1(Juni):89–104. Tersedia pada: <https://publikasiilmiah.ums.ac.id/xmlui/bitstream/handle/11617/2315/10.LISTYANI H.pdf?sequence=1&isAllowed=y>
9. Candra A. Pengaruh Suplementasi Seng dan Zat Besi Terhadap Berat Badan dan Tinggi Badan Balita. *J Nutr Heal* [Internet]. 2017;5(1):37–44. Tersedia pada: <https://ejournal.undip.ac.id/index.php/actanutrica/article/view/13747>
10. Zalniah RP, Sumaryati S, Purwati E. Pengaruh Pemberian Probiotik *Weissella paramesenteroides* Isolat Dadih sebagai Anti Diare pada Mencit (*Mus Musculus*). *J Kim Unand* [Internet]. 2013;2(2303):68–76. Tersedia pada: <http://scholar.unand.ac.id/id/eprint/7546>

11. Sazawal S, Habib AA, Dhingra U, Dutta A, Dhingra P, Sarkar A, et al. Impact of micronutrient fortification of yoghurt on micronutrient status markers and growth – a randomized double blind controlled trial among school children in Bangladesh. *BMC Public Health* [Internet]. 28 Desember 2013;13(1):514. Tersedia pada: <http://bmcpublihealth.biomedcentral.com/articles/10.1186/1471-2458-13-514>
12. Hatta M, Supriatmo S, Ali M, Sinuhaji AB, Hasibuan B, Nasution FL. Comparison of zinc-probiotic combination therapy to zinc therapy alone in reducing the severity of acute diarrhea. *Paediatr Indones* [Internet]. 28 Februari 2011;51(1):1. Tersedia pada: <https://paediatricaindonesiana.org/index.php/paediatricaindonesiana/article/view/938>
13. Setyaningrum Z, Darmono SS, Sofro MAU, Dharmana E, Widyastiti NS. Effect of Combined Probiotics and Zinc Supplementation on Immune Status of Pulmonary Tuberculosis Patients. *Pakistan J Nutr* [Internet]. 1 Juli 2016;15(7):680–5. Tersedia pada: <http://www.scialert.net/abstract/?doi=pjn.2016.680.685>
14. Arifah MR, Darmono D, Sofro MAU. Pemberian kombinasi probiotik dan zinc terhadap perubahan kadar hemoglobin, albumin, dan indeks massa tubuh pada pasien tuberkulosis paru. *J Gizi Klin Indones* [Internet]. 30 Juli 2016;13(1):7. Tersedia pada: <https://jurnal.ugm.ac.id/jgki/article/view/23024>
15. Rodríguez L, Cervantes E, Ortiz R. Malnutrition and Gastrointestinal and Respiratory Infections in Children: A Public Health Problem. *Int J Environ Res Public Health* [Internet]. 18 April 2011;8(4):1174–205. Tersedia pada: <http://www.mdpi.com/1660-4601/8/4/1174>
16. V H, Kumar R, Sachdeva N, Dayal D. Low plasma ghrelin levels in children with severe protein energy malnutrition. *Int J Contemp Pediatr* [Internet]. 22 Juni 2018;5(4):1527. Tersedia pada: <http://www.ijpediatrics.com/index.php/ijcp/article/view/1655>
17. Kurniawati F. Pengaruh Suplementasi Seng dan Probiotik Terhadap Durasi Diare Akut Cair Anak [Internet]. Universitas Diponegoro; 2010. Tersedia pada: http://eprints.undip.ac.id/24036/1/Fenty_Karuniawati.pdf
18. Fluitman KS, De Clercq NC, Keijser BJJ, Visser M, Nieuwdorp M, Ijzerman RG. The intestinal microbiota, energy balance, and malnutrition: emphasis on the role of short-chain fatty acids. *Expert Rev Endocrinol Metab* [Internet]. 2017;12(3):215–26. Tersedia pada: <https://doi.org/10.1080/17446651.2017.1318060>
19. Mescher AL. *Basic Histology Junqueira's (Text and Atlas)*. Mc Graw Hill

Education; 2016.

20. Pearce EC. *Anatomi dan Fisiologis Untuk Paramedis*, Cetakan 41. Jakarta: PT. Gramedia Pustaka Utama; 2013.
21. Sherwood L. *Fisiologi Manusia dari Sel ke Sistem*. Jakarta: EGC; 2012. hal. 6th ed.
22. Fata G La, Weber P, Mohajeri MH. *Probiotics and the Gut Immune System : Indirect Regulation*. 2017;
23. Ohashi W, Fukada T. Contribution of Zinc and Zinc Transporters in the Pathogenesis of Inflammatory Bowel Diseases. *J Immunol Res* [Internet]. 10 Maret 2019;2019(March):1–11. Tersedia pada: <https://www.hindawi.com/journals/jir/2019/8396878/>
24. Dalvi PS, Erbiceanu FD, Irwin DM, Belsham DD. Direct regulation of the proglucagon gene by insulin, leptin, and cAMP in embryonic versus adult hypothalamic neurons. *Mol Endocrinol*. 2012;26(8):1339–55.
25. Reed J, Kanamarlapudi V. Glucagon like peptide-1 (GLP-1). *Encycl Signal Mol*. 2016;1(December).
26. Wang X, Liu H, Chen J, Li Y, Qu S. Multiple factors related to the secretion of glucagon-like peptide-1. *Int J Endocrinol*. 2015;2015.
27. Diz-Chaves Y. Ghrelin, Appetite Regulation, and Food Reward: Interaction with Chronic Stress. *Int J Pept*. 2011;2011.
28. Budipitojo T, Wihadmadyatami H, Aristya GR. Identifikasi Sifat dan Distribusi Sel Endokrin Ghrelin di Lambung Tikus (*Rattus Norvegicus*): Studi Immunohis-Tokimia pada Kondisi Obesitas. *J Trop Biodivers Biotechnol* [Internet]. 1 Juni 2016;1(1):39. Tersedia pada: <https://journal.ugm.ac.id/jtbb/article/view/12932>
29. Poher AL, Tschöp MH, Müller TD. Ghrelin regulation of glucose metabolism. *Peptides* [Internet]. 2018;100(October 2017):236–42. Tersedia pada: <https://doi.org/10.1016/j.peptides.2017.12.015>
30. Gil-Campos M, Canete R, Mari´a Aguilera C, Gil A. Review Article Ghrelin : a hormone regulating food intake and energy homeostasis. *Br J pf Nutr*. 2006;96:201–26.
31. Zuppa AA, Alighieri G, Scorrano A. Prebiotics and Probiotics in Infant Nutrition. In: Watson R, Preedy V, editor. *Bioactive Foods in Promoting Health Probiotis and Prebiotics*. 1 ed. United States of America: Elsevier; 2010. hal. 441–61.

32. Nomoto K. Prevention of Infectious by Probiotics : An Overview. In: Preedy V, Watson R, editor. *Bioactive Foods in Promoting Health Probiotis and Prebiotics*. 1 ed. United States of America: Elsevier; 2010. hal. 59–68.
33. V. Kane A, M. Dinh D, D. Ward H. Childhood Malnutrition and the Intestinal Microbiome Malnutrition and the microbiome. *Pediatr Res*. 2015;77(January):256–62.
34. Faradila S, Suthama N, Sukamto B. Kombinasi Inulin Umbi Dahlia-Lactobacillus sp yang Mengoptimalkan Perkembangan Mikroflora Usus dan Pertumbuhan Persilangan Ayam Pelung-Leghorn. *J Vet*. 2016;17(2):168–75.
35. Lodemann U. Effects of Prebiotics on Intestinal Transport and Epithelial Barrier Function. In: Watson R, Preedy V, editor. *Bioactive Foods in Promoting Health, Probiotics and Prebiotics*. 1 ed. United States of America: Elsevier; 2010. hal. 303–28.
36. Saulnier DM, Santos F, Roos S et al. Exploring metabolic pathway reconstruction and genome-wide expression profiling in *Lactobacillus reuteri* to define functional probiotic features. *PLoS One*. 2011;6(4):18783.
37. Pandey KR, Naik SR VB. Probiotics, prebiotics and synbiotics - a review. *J Food Sci Technol*. 2015;52(12):7577–87.
38. Maret W. Zinc Biochemistry: From a Single Zinc Enzyme to a Key Element of Life. *Am Soc Nutr*. 2013;4(1):82–91.
39. Gropper SS, Smith JL, Groff JL. Microminerals, Zinc. In: Adams P, Lustig A, Feldman E, Downs E, editor. *Advanced Nutrition and Human Metabolism*. 5 ed. United States of America: Wadsworth; 2009. hal. 1–624.
40. Wood CM, Farrel AP, Brauner CJ. Zinc. In: Farrel AP, Brauner CJ, editor. *Homeostasis and Toxicology of Essential Metals*. 1 ed. United States of America: Elsevier; 2012. hal. 135–86.
41. Febrian Chandrawati P. Pemberian Zinc dalam Terapi Diare pada Anak. 2012. hal. 67–71.
42. Roy SK, Behrens RH, Haider R, Akramuzzaman SM, Mahalanabis D, Wahed MA et al\|. Impact of zinc supplementation on intestinal permeability in Bangladesh children with acute diarrhea and persisten diarrhea syndrome. *J Pediatr Gastroenterol Nutr* 1992; 15:: 1992. hal. 289–96.
43. Purnamasari H. Pengaruh Suplementasi Seng Dan Probiotik Pasca Perawatan Diare Akut Cair Anak terhadap Kejadian Diare Berulang [Internet]. Universitas Diponegoro; 2011. Tersedia pada: <http://eprints.undip.ac.id/29133/>

44. Blössner M, Onis M De. Malnutrition Quantifying the health impact at national and local levels. Pruss-Ustin A, Campbell-Lendrum D, Corvalan C, Woodward A, editor. *Environmental Burden of Disease Series*. World Health Organization; 2005.
45. Rosenberg J, Wachter K, Weintraub R. Concept Note-Malnutrition. GHD-C08. Harvard Medical Scholl; 2015. 1–24 hal.
46. Johanne Heilskov Rytter M, Kolte L, Briend A, Friis H, Christensen VB. The Immune System in Children with Malnutrition — A Systematic Review. *PLoS One*. 2014;9(8):1–19.
47. E. Cummings D, Overduin J. Review series Gastrointestinal regulation of food intake. *J Cilinical Investig*. 2007;117(1):13–23.
48. Siri S, Tobioka H, Tasaki I. Effects of Dietary Fibers on Growth Performance, Development of Internal Organs, Protein and Energy Utilization, and Lipid Content of Growing Chicks. *Japanese Poult Sci* [Internet]. 1992;29(2):106–14. Tersedia pada: <http://jurnal.untan.ac.id/index.php/jfk/article/view/14392/12837>
49. A. Wapnir R. Zinc deficiency, malnutrition and the gastrointestinal tract. *Am Soc Nutr Sci* [Internet]. 2000;130(5S Suppl):1388S-92S. Tersedia pada: <http://www.ncbi.nlm.nih.gov/pubmed/10801949>
50. Wresdiyati T, Laila SR, Setiorini Y, Arief II, Astawan M, Anatomi D, et al. Probiotik Indigenus Meningkatkan Profil Kesehatan Usus Halus Tikus yang Diinfeksi Enteropathogenic E . coli Indigenus Probiotic Increased the Health Profile of Small Intestine in Enteropathogenic E . coli Infected Rats. *Majala Kedokt Indones* [Internet]. 2011;45(2):78–85. Tersedia pada: http://journal.fk.unpad.ac.id/index.php/mkb/article/view/110/pdf_22
51. Anderson RC, Cookson AL, McNabb WC, Park Z, McCann MJ, Kelly WJ, et al. *Lactobacillus plantarum* MB452 enhances the function of the intestinal barrier by increasing the expression levels of genes involved in tight junction formation. *BMC Microbiol* [Internet]. 2010;10(1):316. Tersedia pada: <http://bmcmicrobiol.biomedcentral.com/articles/10.1186/1471-2180-10-316>
52. Cario, Jung, Harder d’Heureuse, Schulte, Sturm, Wiedenmann, et al. Effects of exogenous zinc supplementation on intestinal epithelial repair in vitro. *Eur J Clin Invest* [Internet]. Mei 2000;30(5):419–28. Tersedia pada: <http://doi.wiley.com/10.1046/j.1365-2362.2000.00618.x>
53. Getahun A, Tesfaye A, Muleta D. Investigation of the Potential Benefits and Risks of Probiotics and Prebiotics and their Synergy in Fermented Foods. *Singapore J Chem Biol* [Internet]. 15 Desember 2016;6(1):1–16. Tersedia pada: <http://www.scialert.net/abstract/?doi=sjchbio.2017.1.16>

54. Bartz S, Mody A, Hornik C, Bain J, Muehlbauer M, Kiyimba T, et al. Severe Acute Malnutrition in Childhood: Hormonal and Metabolic Status at Presentation, Response to Treatment, and Predictors of Mortality. *J Clin Endocrinol Metab* [Internet]. 1 Juni 2014;99(6):2128–37. Tersedia pada: <https://academic.oup.com/jcem/article/99/6/2128/2537782>
55. Aoki R, Kamikado K, Suda W, Takii H, Mikami Y, Suganuma N, et al. A proliferative probiotic Bifidobacterium strain in the gut ameliorates progression of metabolic disorders via microbiota modulation and acetate elevation. *Sci Rep* [Internet]. 2 April 2017;7(1):43522. Tersedia pada: <http://www.nature.com/articles/srep43522>
56. Zhang Z, Tang H, Chen P, Xie H, Tao Y. Demystifying the manipulation of host immunity, metabolism, and extraintestinal tumors by the gut microbiome. *Signal Transduct Target Ther* [Internet]. 12 Desember 2019;4(1):41. Tersedia pada: <http://www.nature.com/articles/s41392-019-0074-5>
57. Li D, Huang Z, Chen S, Hu Z, Li W. GLP-1 Receptor Mediated Targeting of a Fluorescent Zn²⁺ Sensor to Beta Cell Surface for Imaging Insulin/Zn²⁺ Release. *Bioconj Chem* [Internet]. 19 Agustus 2015;26(8):1443–50. Tersedia pada: <https://pubs.acs.org/doi/10.1021/acs.bioconjchem.5b00332>