

DAFTAR PUSTAKA

A.S. Ahankari, P.R. Myles a, J.V. Dixit, L.J. Tata, A. W. F. (2017) "Risk factors for maternal anaemia and low birth weight in pregnant women living in rural India: a prospective cohort study," *Public Health*. Elsevier Ltd, 151, hal. 63–73. doi: 10.1016/j.puhe.2017.06.023.

Abdel Hakeem Abdel Mohsen, Salem Sallam, Maggie M. Ramzy, E. K. H. (2016) "Investigating the Relationship between Insulin-like Growth Factor-1 (IGF-1) in diabetic mother's breast milk and the blood serum of their babies," *Electronic physician*, 9(9), hal. 1–17. doi: 10.19082/5212.

Ackland, M. L. dan Michalczyk, A. A. (2016) "Zinc and infant nutrition," *Archives of Biochemistry and Biophysics*. Academic Press Inc., 611, hal. 51–57. doi: 10.1016/j.abb.2016.06.011.

Addo, O. Y. *et al.* (2013) "Maternal height and child growth patterns," *Journal of Pediatrics*. doi: 10.1016/j.jpeds.2013.02.002.

Alves, C. X. *et al.* (2012) "Positive effects of zinc supplementation on growth, GH, IGF1, and IGFBP3 in eutrophic children," *Journal of Pediatric Endocrinology and Metabolism*, 25(9–10), hal. 881–887. doi: 10.1515/jpem-2012-0120.

Andi Halima, Khumas, A. dan Zainuddin, K. (2021) "Sipakatau, Sipakainge, Sipakalebbi: Sebuah Nilai Budaya untuk Upaya Pencegahan Bullying dengan Memaksimalkan Peran Bystander," *Indonesian Psychological Research*, 3(2), hal. 82–90. doi: 10.29080/ipr.v3i2.549.

Anindya, I. G., Salimo, H. dan Dewi, Y. R. R. (2020) "The Association between Exclusive Breastfeeding, Maternal Nutritional Status, Maternal Zinc Intake, and Stunting in Infants Aged 6 Months," *Journal of Maternal and Child Health*, 5(1).

Annisa Farah Anindyta , Suherni, Y. K. (2018) "Tingkat Pengetahuan Tentang ASI Eksklusif Pada Ibu Yang Memiliki Bayi Usia 0-6 Bulan di Desa Pandeyan Wilayah Kerja Puskesmas Umbulharjol Kota Yogyakarta Tahun 2020," *Angewandte Chemie International Edition*, 6(11), 951–952., hal. 10–27.

Arlinghaus, K. R. dan Johnston, C. A. (2018) "Advocating for Behavior Change With Education," *American Journal of Lifestyle Medicine*, 12(2), hal. 113–116. doi: 10.1177/1559827617745479.

Badan Pusat Statistik (2022) "Cakupan Pemberian ASI Eksklusif di 20 Provinsi Ini Masih di Bawah Nasional."

Barthel, A. *et al.* (2007) "Stimulation of phosphoinositide 3-kinase/Akt signaling by copper and zinc ions: Mechanisms and consequences," *Archives of Biochemistry and Biophysics*, hal. 175–182. doi: 10.1016/j.abb.2007.04.015.

Bernard, D. *et al.* (2013) "Structural and dynamical characterization of the Miz-1 zinc fingers 5-8 by solution-state NMR," *Journal of Biomolecular NMR*, 57(2), hal. 103–116. doi: 10.1007/s10858-013-9770-6.

Black, R. E. *et al.* (2013) "Maternal and child undernutrition and overweight in low-income and middle-income countries," *The Lancet*. Lancet Publishing Group, hal. 427–451. doi: 10.1016/S0140-6736(13)60937-X.

Bohnsack, B. L. dan Hirschi, K. K. (2004) "Nutrient Regulation Of Cell Cycle Progression," *Annual Review of Nutrition*. Annual Reviews, 24(1), hal. 433–453. doi: 10.1146/annurev.nutr.23.011702.073203.

Brandao-Neto, J. *et al.* (1995) *Endocrine Interaction Between Zinc and Prolactin An Interpretative Review, Biological Trace Element Research*].

Brown, K. H. *et al.* (2002) "Effect of supplemental zinc on the growth and serum zinc concentrations of prepubertal children: A meta-analysis of randomized controlled trials1-3," *American Journal of Clinical Nutrition*. doi: 10.1093/ajcn/75.6.1062.

Brown, K. H. *et al.* (2009) "Dietary intervention strategies to enhance zinc nutrition: Promotion and support of breastfeeding for infants and young children," *Food and Nutrition Bulletin*. doi: 10.1177/15648265090301s108.

Buckland, C. *et al.* (2020) "Interventions to promote exclusive breastfeeding among young mothers: a systematic review and meta-analysis," *International Breastfeeding Journal*. International Breastfeeding Journal, 15(1), hal. 1–14. doi: 10.1186/s13006-020-00340-6.

Bzikowska-Jura, A. *et al.* (2021) "Investigation of iron and zinc concentrations in human milk in correlation to maternal factors: An observational pilot study in Poland," *Nutrients*, 13(2), hal. 1–16. doi: 10.3390/nu13020303.

C.W., F. (2015) "Review of trace mineral requirements for preterm infants: What are the current recommendations for clinical practice?," *Nutrition in Clinical Practice*. C.W. Finch, Medical University of South Carolina, MSC 917, 165 Ashley Ave, Charleston, SC 29425, United States: SAGE Publications Inc., hal. 44–58. Tersedia pada: <http://www.sagepub.com/journalsProdDesc.nav?prodId=Journal201896>.

Carraway, K. L., Ramsauer, V. P. dan Carraway, C. A. C. (2005) "Glycoprotein contributions to mammary gland and mammary tumor structure and function: Roles of adherens junctions, ErbBs and membrane MUCs," *Journal of Cellular Biochemistry*. doi: 10.1002/jcb.20612.

Centre, F. M. *et al.* (2015) "Maternal height and obstetric outcome in a tertiary hospital of southern nigeria: a prospective anthropometric study," 3(1), hal. 46–55.

Chen, C. C. *et al.* (2012) "Autocrine prolactin induced by the Pten-Akt pathway is required for lactation initiation and provides a direct link between the Akt and Stat5 pathways," *Genes and Development*. doi: 10.1101/gad.197343.112.

Chowanadisai, W., Kelleher, S. L. dan Lönnerdal, B. (2004) "Maternal Zinc Deficiency Raises Plasma Prolactin Levels in Lactating Rats," *The Journal of Nutrition*. doi: 10.1093/jn/134.6.1314.

Czosnykowska-Łukacka, M., Królak-Olejek, B. dan Orczyk-Pawilowicz, M. (2018) "Breast milk macronutrient components in prolonged lactation," *Nutrients*, 10(12), hal. 1–15. doi: 10.3390/nu10121893.

Dafaallah, S. *et al.* (2018) "Biochemical Differences in Human Breast Milk Contents According to Infant's Gender," *Journal of Molecular Biology and Biotechnology*, 3(1), hal. 1–3. Tersedia pada: <http://www.imedpub.com/molecular-biology-and-biotechnology>.

Daud, N. A. (2012) "Zinc, IGF-1, And Food Intervention In Malnourished Pregnant Women On Children Body Height After 6 Years In Indonesia." *FASEB Journal*, hal. 114.1-114.1. doi: doi.org/10.1096/fasebj.26.1_supplement.114.1.

Dempsey, C. *et al.* (2012) "Marginal Maternal Zinc Deficiency in Lactating Mice Reduces Secretory Capacity and Alters Milk Composition," *The Journal of Nutrition*. doi: 10.3945/jn.111.150623.

Dina, A. A. (2016) "Hubungan Jenis Persalinan Dengan Waktu Pengeluaran Kolostrum Pada Ibu Bersalin Kala IV di Kota Yogyakarta Tahun 2016," *Hubungan Jenis Persalinan Dengan Waktu Pengeluaran Kolostrum Pada Ibu Bersalin Kala Iv Di Kota Yogyakarta Tahun 2016*, hal. 84.

Dindy, C. *et al.* (2016) "Gambaran Pemberian ASI Pada Bayi dengan Ibu Post Sectio Caesarea di RSUD Kabupaten Taanggerang dan RS Swasta di Depok."

Dodkowitz, A. D., Park, Y. dan Spaulding, S. (2018) "Strategies to Meet the Needs of Young Parent Families Highlights from Interviews with 14 Programs," (September).

Donangelo, C. M. dan King, J. C. (2012) "Maternal zinc intakes and homeostatic adjustments during pregnancy and lactation," *Nutrients*. doi: 10.3390/nu4070782.

Doneray, H. *et al.* (2017) "The effect of the zinc concentration in breast milk on neonatal weight gain," *Journal of Trace Elements in Medicine and Biology*. Elsevier GmbH., 41, hal. 32–35. doi: 10.1016/j.jtemb.2017.02.006.

Dorea, J. G. (2000) "Zinc in human milk," *Nutrition Research*, 20(11), hal. 1645–1687. doi: 10.1016/S0271-5317(00)00243-8.

Dumrongwongsiri, O. *et al.* (2015) "Maternal zinc status is associated with breast milk zinc concentration and zinc status in breastfed infants aged 4-6 months," *Asia Pacific Journal of Clinical Nutrition*, 24(2), hal. 273–280. doi: 10.6133/apjcn.2015.24.2.06.

Eide, D. J. (2006) "Zinc transporters and the cellular trafficking of zinc," *Biochimica et Biophysica Acta - Molecular Cell Research*. doi: 10.1016/j.bbamcr.2006.03.005.

Erfina, E. *et al.* (2019) "Adolescent mothers' experiences of the transition to motherhood: An integrative review," *International Journal of Nursing Sciences*, 6(2), hal. 221–228. doi: 10.1016/j.ijnss.2019.03.013.

Faa G, Sciort R, Farci AMG, Callea F, Ambu R, Congiu T, van Eyken P, Cappai G, Marras A, Costa V, D. V. (1994) "Iron concentration and distribution in the newborn liver."

Fallah A, Mohammad-Hasani A, H. C. A. (2018) "Zinc is an Essential Element for Male Fertility : A Review of Zn Roles in Men ' s," 19(2), hal. 69–81.

Favier, A. E. (1992) "The role of zinc in reproduction - Hormonal mechanisms," *Biological Trace Element Research*, 32(1–3), hal. 363–382. doi: 10.1007/BF02784623.

Fazeli, P. K. dan Klibanski, A. (2014) "Determinants of GH resistance in malnutrition," *Journal of Endocrinology*, 220(3), hal. 1–14. doi: 10.1530/JOE-13-0477.

Flora, R. *et al.* (2021) "Kadar Zinc Dan Kadar Igf-1 Serum Pada Anak

Sekolah Dasar Di Kecamatan Tuah Negeri Kabupaten Musirawas Zinc and Igf-1 Serum Levels in Elementary School Children in Tuah Negeri District, Musirawas Regency,” *JPP) Jurnal Kesehatan Poltekkes Palembang*, 15(1), hal. 2654–3427. doi: 10.36086/jpp.v16i1.667.

Food and Nutrition Board Institute of Medicine (2001) *Dietary Reference Intakes for Vitamin A, Vitamin K, Arsenic, Boron, Chromium, Copper, Iodine, Iron, Manganese, Molybdenum, Nickel, Silicon, Vanadium and Zinc*. National Academy Press.

Frank, N. M. *et al.* (2019) “The relationship between breastfeeding and reported respiratory and gastrointestinal infection rates in young children,” *BMC pediatrics*. *BMC Pediatrics*, 19(1), hal. 339. doi: 10.1186/s12887-019-1693-2.

Gardner, H. *et al.* (2019) “Comparison of maternal milk ejection characteristics during pumping using infant-derived and 2-phase vacuum patterns,” *International breastfeeding journal*, 14, hal. 47. doi: 10.1186/s13006-019-0237-6.

Gunes, H. *et al.* (2018) “Assessment of Serum Zinc Status of Children,” *Journal of Pediatrics, Perinatology and Child Health*, 02(02), hal. 10–15. doi: 10.26502/jppch.7405006.

Guo, J. *et al.* (2020) “The influence of zinc supplementation on IGF-1 levels in humans: A systematic review and meta-analysis,” *Journal of King Saud University - Science*, 32(3), hal. 1824–1830. doi: 10.1016/j.jksus.2020.01.018.

Hackman, N. M. *et al.* (2015) “Breastfeeding outcome comparison by parity,” *Breastfeeding Medicine*, 10(3), hal. 156–162. doi: 10.1089/bfm.2014.0119.

Hamza, R. T., Hamed, A. I. dan Sallam, M. T. (2012) “Effect of zinc supplementation on growth Hormone Insulin growth factor axis in short Egyptian children with zinc deficiency,” *Italian Journal of Pediatrics*, 38(1), hal. 1–7. doi: 10.1186/1824-7288-38-21.

Hara, T. *et al.* (2017) “Physiological roles of zinc transporters: molecular and genetic importance in zinc homeostasis,” *Journal of Physiological Sciences*. Springer Japan, 67(2), hal. 283–301. doi: 10.1007/s12576-017-0521-4.

Hotz, C. dan Brown, K. H. (2004) “Assessment of the Risk of Zinc Deficiency in Populations and Options for Its Control,” *Food and Nutrition Bulletin*, 25(n. 1 (supplement 2)), hal. S94–S200.

IBI (2020) "Respectful Midwifery Care (RMC) bagi Praktik Mandiri Bidan," hal. 1–118.

Iskandar, I. *et al.* (2021) "Gene prolactine receptor (PRLR) and signal transducer and activator of transcription 5 (STAT5) on milk production," *Medicina Clinica Practica*. doi: 10.1016/j.mcpsp.2021.100223.

Istikhomah, H. (2018) "Family Centered Maternity Care (Fcmc) Sebagai Salah Satu Upaya Skrining / Deteksi Dini Resiko Tinggi Ibu Hamil Berbasis Keluarga Di Desa Danguran," *GEMASSIKA: Jurnal Pengabdian Kepada Masyarakat*, 2(1), hal. 20. doi: 10.30787/gemassika.v2i1.250.

Jones, F. E. *et al.* (1999) "ErbB4 signaling in the mammary gland is required for lobuloalveolar development and Stat5 activation during lactation," *Journal of Cell Biology*. doi: 10.1083/jcb.147.1.77.

Justyna, W. (2017) "Dietary intervention strategies to enhance zinc nutrition: Promotion and support of breastfeeding for infants and young children," *Physiology & behavior*, 176(5), hal. 139–148. doi: 10.1016/j.physbeh.2017.03.040.

Jyotsna, S., Amit, A. dan Kumar, A. (2015) "Study of serum zinc in low birth weight neonates and its relation with maternal zinc," *Journal of Clinical and Diagnostic Research*, 9(1), hal. SC01–SC03. doi: 10.7860/JCDR/2015/10449.5402.

Karasu, E. *et al.* (2018) "Serum zinc level in iron deficiency and iron deficiency anemia of children aged 6 months to 5 years," *Progress in Nutrition*, 20(1), hal. 59–66. doi: 10.23751/pn.v20i1.5201.

Kelleher, S. L., Seo, Y. A. dan Lopez, V. (2009) "Mammary gland zinc metabolism: Regulation and dysregulation," *Genes and Nutrition*, hal. 83–94. doi: 10.1007/s12263-009-0119-4.

Kent, J. C., Gardner, H. dan Geddes, D. T. (2016) "Breastmilk production in the first 4 weeks after birth of term infants," *Nutrients*. MDPI AG, 8(12). doi: 10.3390/nu8120756.

Khosravi, H. M., Jalali, B. A. dan Eftekhari, M. H. (2007) "Effects of dietary zinc supplement during lactation on longitudinal changes in plasma and milk zinc concentration," *Pakistan Journal of Biological Sciences*. doi: 10.3923/pjbs.2007.1313.1316.

King, J. C. (2002) "Enhanced zinc utilization during lactation may reduce maternal and infant zinc depletion," *American Journal of Clinical Nutrition*.

doi: 10.1093/ajcn/75.1.2.

Kominiarek, M. A. dan Rajan, P. (2016) "Nutrition Recommendations in Pregnancy and Lactation," *Medical Clinics of North America*. W.B. Saunders, hal. 1199–1215. doi: 10.1016/j.mcna.2016.06.004.

Krebs, N. F. *et al.* (1985) "The effects of a dietary zinc supplement during lactation on longitudinal changes in maternal zinc status and milk zinc concentrations," *American Journal of Clinical Nutrition*. doi: 10.1093/ajcn/41.3.560.

Kusumastuti, A. C., Ardiaria, M. dan Hendrianingtyas, M. (2018) "Effect of zinc and iron supplementation on appetite, nutritional status and intelligence quotient in young children," *Indonesian Biomedical Journal*, 10(2), hal. 133–139. doi: 10.18585/inabj.v10i2.365.

LailatulKhabibah, 1MukhoirotinMukhoirotin (2019) "Pengaruh Terapi Akupresur dan Pijat Oksitosin terhadap Peningkatan Produksi ASI Paada Ibu Post Partum di RSUD Jombang," *EDUNursing*, 3(September).

Lee, S. dan Kelleher, S. L. (2016) "Molecular regulation of lactation: The complex and requisite roles for zinc," *Archives of Biochemistry and Biophysics*. Academic Press Inc., 611, hal. 86–92. doi: 10.1016/j.abb.2016.04.002.

Macias, H. dan Hinck, L. (2012) "Mammary gland development," *Wiley Interdisciplinary Reviews: Developmental Biology*, 1(4), hal. 533–557. doi: 10.1002/wdev.35.

Maftuchah, Siti Nur Umariyah Febriyanti, F. R. N. R. (2018) *Cara Alamiiah Meningkatkan Produksi ASI Pada Ibu Nifas Menggunakan Madu*, JUNI.

Maharani, E. A. dan Noviar, G. (2018) "Imunohematologi dan Bank Darah," *Kementerian Kesehatan Republik Indonesia*, 7(1), hal. 37–72. Tersedia pada: https://www.researchgate.net/publication/269107473_What_is_governance/link/548173090cf22525dcb61443/download%0Ahttp://www.econ.upf.edu/~reynal/Civil_wars_12December2010.pdf%0Ahttps://think-asia.org/handle/11540/8282%0Ahttps://www.jstor.org/stable/41857625.

Manoj K. Ahuja (2020) "Kadar Hb normal pada anak."

Masthalina, H. dan Agustina, Z. (2018) "Nutrition counseling toward knowledge and attitude of breastfeeding mothers and infant growth in Lubuk Pakam Subdistrict," *Kesmas*, 12(3), hal. 127–133. doi: 10.21109/kesmas.v12i3.1442.

Maunah, B. (2019) "The Contribution of Family and Community Education in Realizing the Goals of School Education," *American Journal of Education and Learning*, 4(2), hal. 292–301. doi: 10.20448/804.4.2.292.301.

Maywald, M., Wessels, I. dan Rink, L. (2017) "Zinc signals and immunity," *International Journal of Molecular Sciences*, 18(10). doi: 10.3390/ijms18102222.

McCormick, N. H. *et al.* (2015) "Redistribution of tissue zinc pools during lactation and dyshomeostasis during marginal zinc deficiency in mice," *Journal of Trace Elements in Medicine and Biology*. Urban und Fischer Verlag GmbH und Co. KG, 29, hal. 170–175. doi: 10.1016/j.jtemb.2014.06.002.

Meriardi, M. *et al.* (2004) "Randomized controlled trial of prenatal zinc supplementation and fetal bone growth," *American Journal of Clinical Nutrition*, 79(5), hal. 826–830. doi: 10.1093/ajcn/79.5.826.

Michelle Lampl, Francesca Gotsch, Juan Pedro Kusanovi, Ricardo Gomez, Jyh Kae Nien, Edward Frongillo, and R. R. (2010) "Sex differences in fetal growth responses to maternal height and weight," *Journal Hum Biology*, 23(1), hal. 1–7. doi: 10.1002/ajhb.21014.Sex.

Miller, E. M. *et al.* (2013) "Field and laboratory methods in human milk research," *American Journal of Human Biology*, 25(1), hal. 1–11. doi: 10.1002/ajhb.22334.

Mittal, P. (2016) "Role of zinc in malnutrition," *Int J Gastroenterol Hepatol Transpl Nutr*, 1, hal. 45–48. Tersedia pada: www.journal.pghtn.com.

Mosca, F. dan Gianni, M. L. (2017) "Human milk: composition and health benefits," *La Pediatria medica e chirurgica: Medical and surgical pediatrics*, 39(2), hal. 155. doi: 10.4081/pmc.2017.155.

Mostafa, O. A., Salem, M. R. dan Badr, A. M. (2019) "Effect of an educational intervention on breastfeeding knowledge and attitude among interns at Cairo University Hospital," *Journal of the Egyptian Public Health Association*. Journal of the Egyptian Public Health Association, 94(1). doi: 10.1186/s42506-019-0020-y.

Mostert, D. *et al.* (2015) *Dietary intake of pregnant women and their infants in a poor black South African community*.

Mutiasari, A. *et al.* (2021) "PENERAPAN BODY MEKANIK DAN TEKNIK

RELAKSASI TERHADAP KETIDAKNYAMANAN BRAXTON HICKS
Application Body Mechanics and Relaxation Techniques to Reduce Discomfort of Braxton Hicks,” 2(2), hal. 716–721.

Naim, R., Juniarti, N. dan Yamin, A. (2017) “Pengaruh Edukasi Berbasis Keluarga terhadap Intensi Ibu Hamil untuk Optimalisasi Nutrisi pada 1000 Hari Pertama Kehidupan,” *Jurnal Keperawatan Padjadjaran*, 5(2). doi: 10.24198/jkp.v5i2.475.

Nettle, D. *et al.* (2013) “Patterns of physical and psychological development in future teenage mothers,” *Evolution, Medicine, and Public Health*, 2013(1), hal. 187–196. doi: 10.1093/emph/eot016.

Neville, M. C. *et al.* (2012) “Lactation and neonatal nutrition: Defining and refining the critical questions,” *Journal of Mammary Gland Biology and Neoplasia*, 17(2), hal. 167–188. doi: 10.1007/s10911-012-9261-5.

Noh, S. dan Lee, E. (2021) “Relationship between selected trace elements in human milk and psychosocial characteristics in Korean early postpartum women,” *International Journal of Environmental Research and Public Health*. doi: 10.3390/ijerph18010350.

Nurhidayah (2021) “Efek Pemberian Zink Terhadap Pertumbuhan Gangguan Pertumbuhan the Effect Zinc Administration on the Growth of Efek Pemberian Zink Terhadap Pertumbuhan,” 1.

O’Connor, J. P. *et al.* (2020) “Zinc as a therapeutic agent in bone regeneration,” *Materials*, 13(10), hal. 1–22. doi: 10.3390/ma13102211.

Obaid, K. A. (2013) “Significance of Parental Education in Choosing Breast Milk for Infant Feeding at Diyala Province , Hospital- Based Study,” 4(1).

Park, Y. W., Haenlein, G. F. W. dan Wendorff, W. L. (2017) *Handbook of milk of non-bovine mammals: Second edition, Handbook of Milk of Non-Bovine Mammals: Second Edition*. doi: 10.1002/9781119110316.

Patton, S., Gendler, S. J. dan Spicer, A. P. (tanpa tanggal) *The epithelial mucin, MUC 1, of milk, mammary gland and other tissues, Biochimica et Biophysica Acta*.

Permenkes (2020) “PERATURAN MENTERI KESEHATAN REPUBLIK INDONESIA NOMOR 2 TAHUN 2020,” 3(2017), hal. 54–67.

Pickett, K. E., Abrams, B. dan Selvin, S. (2000) *Maternal Height, Pregnancy Weight Gain, and Birthweight, J. Hum. Biol.*

Pillay, J. dan Davis, T. J. (2018) "Physiology, Lactation," *StatPearls*. Tersedia pada: <http://www.ncbi.nlm.nih.gov/pubmed/29763156>.

Powers, J. M. & C. S. (2022) "Approach to the child with anemia."

Prita Ady Rahmadani, Nurmasari Widyastuti, Deny Yudi Fitranti*, H. S. W. (2020) "Asupan Vitamin A dan Tingkat Kecemasan Merupakan Fakyor Risiko Kecukupan Produksi ASI Pada Ibu Menyusui Bayi Usia 0-5 Bulan," *Journal Of Nutrition College*, 9, hal. 44–52.

Purnamasari Natsir Putri (2021) "ANALISIS KADAR INSULIN-LIKE GROWTH FACTOR-1 (IGF-1) PADA ANAK DENGAN PERAWAKAN PENDEK," 1, hal. 6.

Raising Children (2021) "A family-centred approach."

RI., D. (2010) "Pedoman pelaksanaan stimulasi, deteksi, dan intervensi tumbuh kembang anak."

Rini Ernawati, N. W. W. (2019) "Modul Antropometri Anak," *Paper Knowledge . Toward a Media History of Documents*, hal. 12–26.

Sanz-Moreno, A. *et al.* (2014) "Miz1 deficiency in the mammary gland causes a lactation defect by attenuated stat5 expression and phosphorylation," *PLoS ONE*. doi: 10.1371/journal.pone.0089187.

Sazawal, S. *et al.* (2013) "Zinc Supplementation does not Affect the Breast Milk Zinc Concentration of Lactating Women Belonging to Low Socioeconomic Population," *Journal of Human Nutrition & Food Science*.

Segura, S. A., Ansótegui, J. A. dan Marta Díaz-Gómez, N. (2016) "The importance of maternal nutrition during breastfeeding: Do breastfeeding mothers need nutritional supplements?," *Anales de Pediatría*, 84(6), hal. 347.e1-347.e7. doi: 10.1016/j.anpedi.2015.07.024.

Sezer, R. G. *et al.* (2013) "Effect of breastfeeding on serum zinc levels and growth in healthy infants," *Breastfeeding Medicine*, 8(2), hal. 159–163. doi: 10.1089/bfm.2012.0014.

Shankar, A. H. *et al.* (2000) "The influence of zinc supplementation on morbidity due to Plasmodium falciparum: A randomized trial in preschool children in Papua New Guinea," *American Journal of Tropical Medicine and Hygiene*. doi: 10.4269/ajtmh.2000.62.663.

Shennan, D. B. dan Peaker, M. (2000) "Transport of milk constituents by

the mammary gland,” *Physiological Reviews*. doi: 10.1152/physrev.2000.80.3.925.

Sriraman, N. K. (2017) “The Nuts and Bolts of Breastfeeding: Anatomy and Physiology of Lactation,” *Current Problems in Pediatric and Adolescent Health Care*. doi: 10.1016/j.cppeds.2017.10.001.

Streuli, C. H., Bailey, N. dan Bissell, M. J. (1991) “Control of mammary epithelial differentiation: Basement membrane induces tissue-specific gene expression in the absence of cell-cell interaction and morphological polarity,” *Journal of Cell Biology*. doi: 10.1083/jcb.115.5.1383.

Subchi, T. D. N. (2018) *PERAN ZINC DALAM PROSES LAKTASI*.

Sugiyono (2017) *Metode Penelitian Kebijakan*. Diedit oleh S. Y. Ratri. Bandung.

Sumiatin, T. dan Ningsih, W. T. (2020) “Peran Keluarga dalam Program Indonesia Sehat dengan Pendekatan Keluarga (PIS-PK) melalui Pelaksanaan Program Keluarga Berencana (KB),” *Jurnal Ners dan Kebidanan (Journal of Ners and Midwifery)*, 7(2), hal. 170–176. doi: 10.26699/jnk.v7i2.art.p170-176.

Taylor, C. L. dan Meyers, L. D. (2012) “Dietary reference intakes,” *Modern Nutrition in Health and Disease: Eleventh Edition*, hal. 1480–1489. doi: 10.1016/s0002-8223(98)00160-6.

Tri Aprillia Tauriska, F. U. (2014) *Hubungan Antara Isapan Bayi Dengan Produksi ASI Pada Ibu Menyusui di Rumah Sakit Islam Jemursari Surabaya*.

Voorhees, J. L. *et al.* (2011) “Zinc binding to human lactogenic hormones and the human prolactin receptor,” *FEBS Letters*, 585(12), hal. 1783–1788. doi: 10.1016/j.febslet.2011.04.019.

Wang, X. *et al.* (2013) “Analysis of the relationship of insulin-like growth factor-1 to the growth velocity and feeding of healthy infants,” *Growth Hormone and IGF Research*. Elsevier Ltd, 23(6), hal. 215–219. doi: 10.1016/j.ghir.2013.08.001.

Wilson, R. L. *et al.* (2016) “Association between maternal zinc status, dietary zinc intake and pregnancy complications: A systematic review,” *Nutrients*, 8(10), hal. 1–28. doi: 10.3390/nu8100641.

Yamasaki, S. *et al.* (2007) “Zinc is a novel intracellular second messenger,” *Journal of Cell Biology*. doi: 10.1083/jcb.200702081.

Yoshida, K. *et al.* (2020) "Efficacy of zinc supplementation on growth and IGF-1 in prepubertal children with idiopathic short statures and low serum zinc levels," *Clinical Pediatric Endocrinology*, 29(2), hal. 63–68. doi: 10.1297/cpe.29.63.







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Nomor: 645/UN4.6.4.5.31/ PP36/ 2020

Tanggal: 12 Oktober 2020

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH 20080441	No Sponsor Protokol	
Peneliti Utama	Armiyati Nur, SST, M.Keb	Sponsor	
Judul Peneliti	Peran Edukasi Model Peer Group Dan Zinc Pada Ibu Hamil Pendek Di Keluarga Pra Sejahtera Terhadap Kadar Konsentrasi Zinc Asi Dan Insulin Like Growth Factor-1 (IGF-1) Pada Bayi		
No Versi Protokol	2	Tanggal Versi	30 September 2020
No Versi PSP	2	Tanggal Versi	30 September 2020
Tempat Penelitian	Ilabupaten Mamuju		
Jenis Review	Exempted Expedited Fullboard Tanggal 23 September 2020	Masa Berlaku 12 Oktober 2020 sampai 12 Oktober 2021	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian Kesehatan FKUH	Nama Prof.Dr.dr. Suryani As'ad, M.Sc.,Sp.GK (K)	Tanda tangan 	
Sekretaris Komisi Etik Penelitian Kesehatan FKUH	Nama dr. Agussalim Bukhari, M.Med.,Ph.D.,Sp.GK (K)	Tanda tangan 	

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Laporan SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan



PEMERINTAH KABUPATEN MAMUJU
DINAS KESEHATAN

Alamat: Jl. Pemuda No.02 Kode Pos 91511 Sulawesi Barat
Tlp. (9426) 21119 Fu (0426) 21119 Mamuju

No<or 036 / | f£ / XI /2021Dinkes
Lampiran -
Perihal Surat Keterangan Telah
Melakukan Penelitian

Kepada Yth ;
Dekan Fakultas Kedokteran
Universitas Hasanuddin
Di-
Makassar

Yang bertanda tangan dibawah ini :

N a m a dr. ACONG
NIP 19651 1052000121003
Pan gkat/ Gol. Pembina Tk. I, IVA
Jabatan Plt. Kepala Dinas Kesehatan Kab. Mamuju

Dengan ini menyatakan bahwa


N a m a ARMIYATI NUR
NIM C013191005
Jurusan S3 Kedoktemn
Program Studi Prodi Doktof

Mahasiswa yang bemanngkutan tecebut telah m lll<ik>il n p e l l e l i a n p i d a t a r i g g a l 15
November 2021 dengan judul

“PERAN EDUKASI MODEL PEER GROUP DAN ZINK PADA IBU HAMIL PENDEK
DI KELUARGA MISKIN TERHADAP KADAR KONSENTRASI ZINK (Zn) ASI DAN
INSULIN-LIKE GROWTH FAKTOR- 1 (Igf-1) PADA BAYP’

D e m i k i a n s u r a t k e t e r a n g a n i n i d b u a t u n t u k d i p e r g u n a k a n s e b a g a i m a n a m e s t i n y a .

Mamuju, November 2021

Plt. Kepala Dinas Kesehatan,

dr. ACONG
Pangkat : Pembina Th.I
NIP : 196511052000121003

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FREQUENCIES VARIABLES=Umur Paritas Pendidikan Jenis_Kelamin_Bayi Asupan_Energy_Pre
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  Prod_ASI_Col Prod_ASI_Trans Prod_ASI_Matur BB_Lahir BB_1_Bulan BB_2_Bulan BB_3_Bulan BB_4_Bulan
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	Umur	Paritas	Pendidikan	Jenis_Kelamin_Bayi	Asupan_Energy_Pre	ASupan_Energy_Post	Zinc_Col	Zinc_Ma	IGF1_Pre	IGF1_Post	Zinc_Bayi_Pre	Zinc_Bayi_Post	Hb_Pre	Hb_Post	Prod_ASI_Col	Prod_ASI_Matur
N	Valid	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	17,2333	1,6000	,9333	1,5000	1054,4567	1516,9267	51,0733	48,4677	1,0254198	3,0429185	46,5339	53,9168	18,2600	12,6200	421,1333	907,3667
Std. Deviation	1,45468	,72397	,58329	,50855	311,04178	306,09578	13,85780	8,74993	1,67137556	2,08789028	6,35504	5,82249	,87911	1,28235	111,93001	246,14370
Minimum	13,00	1,00	,00	1,00	532,80	1011,80	25,67	36,62	,40470	,44808	35,68	44,34	17,20	11,10	156,00	316,00
Maximum	19,00	3,00	2,00	2,00	1815,20	2345,60	74,74	73,02	7,41675	9,33770	60,44	69,34	20,00	17,70	610,00	1440,00

Frequency Table

Umur

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	13,00	1	3,3	3,3	3,3
	15,00	2	6,7	6,7	10,0
	16,00	5	16,7	16,7	26,7
	17,00	9	30,0	30,0	56,7
	18,00	6	20,0	20,0	76,7
	19,00	7	23,3	23,3	100,0
	Total	30	100,0	100,0	

Paritas

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1,00	16	53,3	53,3	53,3
	2,00	10	33,3	33,3	86,7
	3,00	4	13,3	13,3	100,0
	Total	30	100,0	100,0	

Pendidikan

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Tidak Sekolah	6	20,0	20,0	20,0
	Pendidikan Dasar	20	66,7	66,7	86,7
	Pendidikan lanjut	4	13,3	13,3	100,0
	Total	30	100,0	100,0	

Jenis_Kelamin_Bayi

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Perempuan	15	50,0	50,0	50,0
	Laki-Laki	15	50,0	50,0	100,0
	Total	30	100,0	100,0	


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FREQUENCIES VARIABLES=Umur Paritas Pendidikan Jenis_Kelamin_Bayi Asupan_Energy_Pre
ASupan_Energy_Post Zinc_Col Zinc_Ma IGF1_Pre IGF1_Post Zinc_Bayi_Pre Zinc_Bayi_Post Hb_Pre Hb_Post
Prod_ASI_Col Prod_ASI_Trans Prod_ASI_Matur BB_Lahir BB_1_Bulan BB_2_Bulan BB_3_Bulan BB_4_Bulan
BB_5_Bulan BB_6_Bulan PB_Lahir PB_1_Bulan PB_2_Bulan PB_3_Bulan PB_4_Bulan PB_5_Bulan PB_6_Bulan
LK_Lahir LK_1_Bulan LK_2_Bulan LK_3_Bulan LK_4_Bulan LK_5_Bulan LK_6_Bulan
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Frequencies

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	Umur	Paritas	Pendidikan	Jenis_Kelamin_Bayi	Asupan_Energy_Pre	ASupan_Energy_Post	Zinc_Col	Zinc_Ma	IGF1_Pre	IGF1_Post	Zinc_Bayi_Pre	Zinc_Bayi_Post	Hb_Pre	Hb_Post	Prod_ASI_Col	Prod_ASI_Matur
N	Valid	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	17,4000	1,3333	,9667	1,5667	966,6367	1336,4567	37,2047	36,5393	,6763735	1,4199515	43,9981	48,5256	18,2133	10,6167	342,9333	708,7667
Std. Deviation	1,37966	,54667	,49013	,50401	351,59544	266,21162	8,09294	6,73534	,95367939	1,47806058	5,26499	6,44878	,88541	1,40469	147,83703	229,51849
Minimum	13,00	1,00	,00	1,00	445,10	957,80	23,82	15,20	,41518	,41546	33,14	37,11	16,60	8,80	120,00	208,00
Maximum	19,00	3,00	2,00	2,00	1754,60	1839,60	61,74	50,44	4,41595	6,79133	58,71	64,75	19,40	15,30	800,00	1216,00

Frequency Table

		Umur			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	13,00	1	3,3	3,3	3,3
	15,00	1	3,3	3,3	6,7
	16,00	4	13,3	13,3	20,0
	17,00	9	30,0	30,0	50,0
	18,00	8	26,7	26,7	76,7
	19,00	7	23,3	23,3	100,0
	Total	30	100,0	100,0	

		Paritas			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1,00	21	70,0	70,0	70,0
	2,00	8	26,7	26,7	96,7
	3,00	1	3,3	3,3	100,0
	Total	30	100,0	100,0	

		Pendidikan			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Tidak Sekolah	4	13,3	13,3	13,3
	Pendidikan Dasar	23	76,7	76,7	90,0
	Pendidikan lanjut	3	10,0	10,0	100,0
	Total	30	100,0	100,0	

		Jenis_Kelamin_Bayi			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Perempuan	13	43,3	43,3	43,3
	Laki-Laki	17	56,7	56,7	100,0
	Total	30	100,0	100,0	

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/ORDER=ANALYSIS.

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Frequencies

	Asupan Energi Pre	Asupan Energi Post	VitC Pre	VitC Post	Asam Folat Pre	Asam Folat Post	Asupan Zinc Pre	Asupan Zinc Post	Protein Pre	Protein Post	Karbo Pre	Karbo Post	Lemak Pre	Lemak Post
N	Valid	30	30	30	30	30	30	30	30	30	30	30	30	30
	Missing	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	966,6367	1336,4567	5,1500	24,5197	44,5600	89,6900	2,4833	4,3467	36,6300	52,8767	143,1767	190,0100	30,8500	53,4633
Median	958,9000	1268,1000	2,5500	12,1000	34,0000	82,6000	2,4500	3,5500	31,5500	45,4500	145,1500	182,8500	26,9000	51,4000
Std. Deviation	351,59544	266,21162	6,81275	32,97266	37,47099	39,84624	1,17681	2,48134	14,58578	24,11705	56,88168	69,98771	18,96475	20,11175

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Lemak_Pre Lemak_Post
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Frequencies

Statistics

	Asupan Energi Pre	Asupan Energi Post	VitC Pre	VitC Post	Asam Folat Pre	Asam Folat Post	Asupan Zinc Pre	Asupan Zinc Post	Protein Pre	Protein Post	Karbo Pre	Karbo Post	Lemak Pre	Lemak Post	
N	Valid	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	1054,4567	1516,9267	10,3700	34,3433	61,9300	99,6667	2,9433	5,0567	43,4167	60,6833	177,4000	194,5900	37,1367	67,0533	
Median	1017,7000	1479,8000	2,4500	18,2500	52,8000	99,9500	2,9500	4,8000	39,5000	56,7000	154,1500	173,9500	36,4000	63,0000	
Std. Deviation	311,04178	306,09578	20,68848	38,05202	41,83002	48,53362	1,08713	1,95248	18,45948	18,18529	86,30462	92,67785	20,84485	27,57494	

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T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
Zinc Colostrum	Kontrol	30	37,2047	8,09294	1,47756
	Intervensi	30	51,0733	13,85780	2,53008
Zinc Matur	Kontrol	30	36,5393	6,73534	1,22970
	Intervensi	30	48,4677	8,74993	1,59751
Produksi ASI Colostrum	Kontrol	30	115,1667	38,13504	6,96247
	Intervensi	30	148,6667	37,73623	6,88966
Produksi ASI Matur	Kontrol	30	708,7667	229,51849	41,90415
	Intervensi	30	907,3667	246,14370	44,93949

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Zinc Colostrum	Equal variances assumed	13,632	,000	-4,733	58	,000	-13,86867	2,92993	-19,73356	-8,00378
	Equal variances not assumed			-4,733	46,720	,000	-13,86867	2,92993	-19,76385	-7,97348

Zinc Matur	Equal variances assumed	1,058	,308	-5,917	58	,000	-11,92841	2,01599	-15,96384	-7,89297
	Equal variances not assumed			-5,917	54,436	,000	-11,92841	2,01599	-15,96947	-7,88734
Produksi ASI Colostrum	Equal variances assumed	,162	,689	-3,420	58	,001	-33,50000	9,79507	-53,10697	-13,89303
	Equal variances not assumed			-3,420	57,994	,001	-33,50000	9,79507	-53,10702	-13,89298
Produksi ASI Matur	Equal variances assumed	,146	,704	-3,232	58	,002	-198,60000	61,44522	321,59598	-75,60402
	Equal variances not assumed			-3,232	57,719	,002	-198,60000	61,44522	321,60874	-75,59126

T-TEST PAIRS=IGF1_Pre Zinc_Bayi_Pre Hb_Pre WITH IGF1_Post Zinc_Bayi_Post Hb_Post (PAIRED)
 /CRITERIA=CI (.9500)
 /MISSING=ANALYSIS.

T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	IGF1 Pre	,8508966	60	1,36054898	,17564612
	IGF1 Post	2,2314350	60	1,97134062	,25449898
Pair 2	Zinc Bayi Pre	45,2660	60	5,92545	,76497
	Zinc Bayi Post	51,2212	60	6,67038	,86114
Pair 3	Hb Pre	18,2367	60	,87507	,11297
	Hb Post	11,6183	60	1,67286	,21597

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 IGF1 Pre & IGF1 Post	60	,779	,000
Pair 2 Zinc Bayi Pre & Zinc Bayi Post	60	,705	,000
Pair 3 Hb Pre & Hb Post	60	-,022	,866

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower				Upper
Pair 1	IGF1 Pre - IGF1 Post	-1,38053840	1,24936267	,16129203	-1,70328300	-1,05779380	-8,559	59	,000
Pair 2	Zinc Bayi Pre - Zinc Bayi Post	-5,95523	4,88856	,63111	-7,21808	-4,69238	-9,436	59	,000
Pair 3	Hb Pre - Hb Post	6,61833	1,90508	,24594	6,12620	7,11047	26,910	59	,000

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/MISSING=ANALYSIS

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T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
IGF1 Pre	Kontrol	30	,6763735	,95367939	,17411724
	Intervensi	30	1,0254198	1,67137556	,30515003
IGF1 Post	Kontrol	30	1,4199515	1,47806058	,26985571
	Intervensi	30	3,0429185	2,08789028	,38119487
Zinc Bayi Pre	Kontrol	30	43,9981	5,26499	,96125
	Intervensi	30	46,5339	6,35504	1,16027
Zinc Bayi Post	Kontrol	30	48,5256	6,44878	1,17738
	Intervensi	30	53,9168	5,82249	1,06304

Hb Pre	Kontrol	30	18,2133	,88541	,16165
	Intervensi	30	18,2600	,87911	,16050
Hb Post	Kontrol	30	10,6167	1,40469	,25646
	Intervensi	30	12,6200	1,28235	,23412

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
IGF1 Pre	Equal variances assumed	2,881	,095	-,993	58	,325	-,34904627	,35133083	-1,05231134	,35421881
	Equal variances not assumed			-,993	46,074	,326	-,34904627	,35133083	-1,05620801	,35811548
IGF1 Post	Equal variances assumed	2,612	,111	-3,475	58	,001	-1,62296700	,46704564	-2,55786043	-,68807357
	Equal variances not assumed			-3,475	52,232	,001	-1,62296700	,46704564	-2,56006357	-,68587043
Zinc Bayi Pre	Equal variances assumed	1,946	,168	-1,683	58	,098	-2,53579	1,50673	-5,55183	,48025
	Equal variances not assumed			-1,683	56,061	,098	-2,53579	1,50673	-5,55406	,48247
Zinc Bayi Post	Equal variances assumed	,001	,972	-3,399	58	,001	-5,39126	1,58628	-8,56653	-2,21598
	Equal variances not assumed			-3,399	57,405	,001	-5,39126	1,58628	-8,56724	-2,21528
Hb Pre	Equal variances assumed	,014	,907	-,205	58	,838	-,04667	,22780	-,50266	,40932
	Equal variances not assumed			-,205	57,997	,838	-,04667	,22780	-,50266	,40932
Hb Post	Equal variances assumed	,641	,426	-5,769	58	,000	-2,00333	,34725	-2,69844	-1,30823
	Equal variances not assumed			-5,769	57,525	,000	-2,00333	,34725	-2,69856	-1,30811

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T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
BB/U0	Kontrol	30	-,0327	,48033	,08770
	Intervensi	30	-1,2087	,39198	,07156
BB/U1	Kontrol	30	-,7950	,67934	,12403
	Intervensi	30	-,7157	,47562	,08684
BB/U2	Kontrol	30	-,9503	,94031	,17168
	Intervensi	30	-,4283	,57316	,10464
BB/U3	Kontrol	30	-,6447	,84697	,15463
	Intervensi	30	-,0937	,56187	,10258
BB/U4	Kontrol	30	-,3253	,70081	,12795
	Intervensi	30	,4130	,68321	,12474
BB/U5	Kontrol	30	,0337	,60188	,10989
	Intervensi	30	,8230	,59056	,10782
BB/U6	Kontrol	30	,3813	,66889	,12212
	Intervensi	30	1,1307	,55880	,10202
BB/U 0-6	Kontrol	30	-,3333	,59800	,10918
	Intervensi	30	-,0113	,41276	,07536

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means						
	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
								Lower	Upper
BB/U0 Equal variances assumed	,634	,429	10,390	58	,000	1,17600	,11319	,94942	1,40258
Equal variances not assumed			10,390	55,758	,000	1,17600	,11319	,94923	1,40277
BB/U1 Equal variances assumed	1,911	,172	-,524	58	,602	-,07933	,15141	-,38241	,22374
Equal variances not assumed			-,524	51,922	,603	-,07933	,15141	-,38316	,22450
BB/U2 Equal variances assumed	3,098	,084	-2,596	58	,012	-,52200	,20106	-,92446	-,11954
Equal variances not assumed			-2,596	47,936	,012	-,52200	,20106	-,92626	-,11774
BB/U3 Equal variances assumed	3,583	,063	-2,969	58	,004	-,55100	,18557	-,92245	-,17955
Equal variances not assumed			-2,969	50,384	,005	-,55100	,18557	-,92365	-,17835
BB/U4 Equal variances assumed	,088	,768	-4,132	58	,000	-,73833	,17869	-1,09602	-,38065
Equal variances not assumed			-4,132	57,963	,000	-,73833	,17869	-1,09603	-,38064
BB/U5 Equal variances assumed	,189	,665	-5,127	58	,000	-,78933	,15395	-1,09750	-,48117
Equal variances not assumed			-5,127	57,979	,000	-,78933	,15395	-1,09750	-,48117
BB/U6 Equal variances assumed	,138	,712	-4,709	58	,000	-,74933	,15913	-1,06787	-,43080
Equal variances not assumed			-4,709	56,220	,000	-,74933	,15913	-1,06808	-,43058
BB/U 0-6 Equal variances assumed	3,532	,065	-2,427	58	,018	-,32200	,13266	-,58755	-,05645
Equal variances not assumed			-2,427	51,521	,019	-,32200	,13266	-,58827	-,05573

T-TEST GROUPS=Kelompok(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=PB_U0 PB_U1 PB_U2 PB_U3 PB_U4 PB_U5 PB_U6 PB_U0_6
 /CRITERIA=CI (.95) .

T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
PB/U0	Kontrol	30	-,7233	,80424	,14683
	Intervensi	30	-,7290	,43412	,07926
PB/U1	Kontrol	30	-1,0013	,70182	,12813
	Intervensi	30	-1,1387	,56345	,10287
PB/U2	Kontrol	30	-1,0450	,72682	,13270
	Intervensi	30	-,8670	,59462	,10856
PB/U3	Kontrol	30	-,9260	,75374	,13761
	Intervensi	30	-,6013	,59972	,10949
PB/U4	Kontrol	30	-,8187	,62042	,11327
	Intervensi	30	-,0143	,77102	,14077
PB/U5	Kontrol	30	-,8543	,69862	,12755
	Intervensi	30	,5217	,79389	,14494
PB/U6	Kontrol	30	-,6920	,65550	,11968
	Intervensi	30	1,0037	,77464	,14143
PB/U 0-6	Kontrol	30	-,8653	,54861	,10016
	Intervensi	30	-,2590	,45946	,08388

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
PB/U0	Equal variances assumed	8,129	,006	,034	58	,973	,00567	,16686	-,32834	,33967
	Equal variances not assumed			,034	44,577	,973	,00567	,16686	-,33050	,34183
PB/U1	Equal variances assumed	,733	,395	,836	58	,407	,13733	,16432	-,19159	,46626
	Equal variances not assumed			,836	55,412	,407	,13733	,16432	-,19192	,46658
PB/U2	Equal variances assumed	,728	,397	-1,038	58	,303	-,17800	,17145	-,52119	,16519
	Equal variances not assumed			-1,038	55,810	,304	-,17800	,17145	-,52148	,16548
PB/U3	Equal variances assumed	,603	,441	-1,846	58	,070	-,32467	,17586	-,67669	,02735
	Equal variances not assumed			-1,846	55,213	,070	-,32467	,17586	-,67706	,02773
PB/U4	Equal variances assumed	1,918	,171	-4,452	58	,000	-,80433	,18068	-1,16601	-,44266
	Equal variances not assumed			-4,452	55,461	,000	-,80433	,18068	-1,16636	-,44230
PB/U5	Equal variances assumed	1,943	,169	-7,127	58	,000	-1,37600	,19307	-1,76248	-,98952
	Equal variances not assumed			-7,127	57,077	,000	-1,37600	,19307	-1,76261	-,98939
PB/U6	Equal variances assumed	3,065	,085	-9,152	58	,000	-1,69567	,18527	-2,06652	-1,32481
	Equal variances not assumed			-9,152	56,454	,000	-1,69567	,18527	-2,06674	-1,32459
PB/U 0-6	Equal variances assumed	,197	,658	-4,641	58	,000	-,60633	,13065	-,86786	-,34481
	Equal variances not assumed			-4,641	56,267	,000	-,60633	,13065	-,86803	-,34464

Correlations

			IGF1 Post	Zinc Bayi Post	BB 6 Bulan	PB 6 Bulan
Spearman's rho	IGF1 Post	Correlation Coefficient	1,000	,285*	,375**	,384**
		Sig. (2-tailed)	.	,028	,003	,002
		N	60	60	60	60
Zinc Bayi Post		Correlation Coefficient	,285*	1,000	,332**	,355**
		Sig. (2-tailed)	,028	.	,010	,005
		N	60	60	60	60
BB 6 Bulan		Correlation Coefficient	,375**	,332**	1,000	,720**
		Sig. (2-tailed)	,003	,010	.	,000
		N	60	60	60	60
PB 6 Bulan		Correlation Coefficient	,384**	,355**	,720**	1,000
		Sig. (2-tailed)	,002	,005	,000	.
		N	60	60	60	60

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Lampiran Dokumentasi Penelitian



