

DAFTAR PUSTAKA

- A.Azis Alimull Hidayat. (2008). *Pengantar Ilmu Keperawatan Anak 1* (1st ed.). Jakarta: Salemba Medika.
- A.Fatmawati. (2010). *Persepsi Dan Praktek Pemberian Asi Eksklusif. Child Health Services*.
- Abu-Saad, K., & Fraser, D. (2010). Maternal nutrition and birth outcomes. *Epidemiologic Reviews*, 32(1), 5–25.
<https://doi.org/10.1093/epirev/mxq001>
- Adamo, A. M., & Oteiza, P. I. (2010). Zinc deficiency and neurodevelopment: The case of neurons. *BioFactors*, 36(2), 117–124.
<https://doi.org/10.1002/biof.91>
- Adhikari, B. K., Koirala, U., Lama, S., & Dahal, P. (2012). Situation of Iron Deficiency and Its Management Prioritizing Dietary Intervention in Nepal. *Nepal Journal of Epidemiology*, 2(2), 180–190.
<https://doi.org/10.3126/nje.v2i2.6573>
- Adu-Afarwuah S1, Lartey A, Brown KH, Zlotkin S, Briend A, D. K. (2008). Home fortification of complementary foods with micronutrient supplements is well accepted and has positive effects on infant iron status in Ghana. *American Journal Clinical Nutrition*, 87, 929–938.
- Agasa, S. B., & Kadima, J. (2017). Effectiveness of UNICEF Multiple Micronutrient Powder on Child Stunting Rate and Influencing Factors in Kisangani Effectiveness of UNICEF Multiple Micronutrient Powder on Child Stunting Rate and Influencing Factors in Kisangani. *European Journal of Nutrition & Food Safety*, (September).
<https://doi.org/10.9734/EJNFS/2017/36276>
- Akombi, B. J., Agho, K. E., Hall, J. J., Merom, D., Astell-Burt, T., & Renzaho, A. M. N. (2017). Stunting and severe stunting among children under-5 years in Nigeria: A multilevel analysis. *BMC Pediatrics*, 17(1), 1–16. <https://doi.org/10.1186/s12887-016-0770-z>
- Al-Ansari, S. S., & Bella, H. (1998). Translation and adaptation of the Revised Denver Pre-screening Developmental Questionnaire for Madinah children, Saudi Arabia. *Annals of Saudi Medicine*, 18(1), 42–46. <https://doi.org/10.5144/0256-4947.1998.42>
- Albers, E. M., Riksen-Walraven, J. M., & de Weerth, C. (2010). Developmental stimulation in child care centers contributes to young

- infants' cognitive development. *Infant Behavior and Development*, 33(4), 401–408. <https://doi.org/10.1016/j.infbeh.2010.04.004>
- Ali, S. S. (2013). A brief review of risk-factors for growth and developmental delay among preschool children in developing countries. *Adv Biomed Res.*, 2:91. <https://doi.org/10.4103/2277-9175.122523>
- Allen, L. H. (1994). Maternal Micronutrient Malnutrition: Effects on Breast Milk and Infant Nutrition, and Priorities for Intervention. *Pubmed*, 11.
- Allen, L. H. (2005). MMN in pregnancy and lactation: an overview. *Am J Clin Nutr*, 81:1206S–1(May), 1206–1212. <https://doi.org/81/5/1206S> [pii]
- Almatsier, S. (2004). *Prinsip Dasar Ilmu Gizi*. Jakarta: Gramedia Pustaka Utama.
- Alwi, Muhammad Khidri; Naping, Hamka; Hadju, Veni; Thaha, Abdul Razak; Julyani, S. Y. (2019). Study of Effectiveness Taburia Programs (Multi Gizimicro Substances) at Children Ages 6-24 Months in South Sulawesi Province. *Indian Journal of Public Health Research & Development*, 10(5), 564–569.
- ALZA, Y., ROZIANA, R., & FITRIANI, F. (2016). PENGARUH EDUKASI KESEHATAN BAGI IBU HAMIL DAN KELUARGA TERHADAP PRAKTEK INISIASI MENYUSU DINI (IMD), ASI EKSLUSIF DAN PENINGKATAN BERAT BADAN BAYI SAMPAI BERUSIA 1 BULAN DI WILAYAH KERJA PUSKESMAS SIMPANG BARU KOTA PEKANBARU. *JURNAL PROTEKSI KESEHATAN*, 5(1). <https://doi.org/>: <https://doi.org/10.36929/jpk.v5i1.45>
- Ames, B. N. (2006). Low micronutrient intake may accelerate the degenerative diseases of aging through allocation of scarce micronutrients by triage. *Proceedings of the National Academy of Sciences*, 103(47), 17589–17594. <https://doi.org/10.1073/pnas.0608757103>
- Ames, B. N., Atamna, H., & Killilea, D. W. (2005). Mineral and vitamin deficiencies can accelerate the mitochondrial decay of aging. *Molecular Aspects of Medicine*, 26(4–5 SPEC. ISS.), 363–378. <https://doi.org/10.1016/j.mam.2005.07.007>
- Andersen, H. S., Gambling, L., Holtrop, G., & McArdle, H. J. (2007). Effect of dietary copper deficiency on iron metabolism in the pregnant rat. *British Journal of Nutrition*, 97(2), 239–246. <https://doi.org/10.1017/S0007114507239960>
- Arsad, N., Chew, K. T., Abdul Ghani, N. A., Tan, H. J., Wahab, N. A., & Mohd Ismail, N. A. (2017). Morning sickness of pregnancy: More than

- meets the eye. *Hormone Molecular Biology and Clinical Investigation*, 30(3). <https://doi.org/10.1515/hmbci-2016-0041>
- Arsyati, A. M. (2019). Pengaruh Penyalahan Media Audiovisual Dalam Pengetahuan Pencegahan Stunting Pada Ibu Hamil Di Desa Cibatok 2 Cibungbulang. *Promotor*, 2(3), 182. <https://doi.org/10.32832/pro.v2i3.1935>
- Artha, N. M., Sutomo, R., & Gamayanti, I. L. (2016). Kesepakatan Hasil antara Kuesioner Pra Skrining Perkembangan, Parent's Evaluation of Developmental Status, dan Tes Denver-II untuk Skrining Perkembangan Anak Balita. *Sari Pediatri*, 16(4), 266. <https://doi.org/10.14238/sp16.4.2014.266-70>
- Asiodu, I. V., Waters, C. M., Dailey, D. E., Lee, K. A., & Lyndon, A. (2015). Breastfeeding and Use of Social Media Among First-Time African American Mothers. *JOGNN - Journal of Obstetric, Gynecologic, and Neonatal Nursing*, 44(2), 268–278. <https://doi.org/10.1111/jogn.12552>
- Astarani, K., & Werdiningsih, A. (2012). Role in Meeting the Needs of Mother on Child Development Preschoolers. *Jurnal Penelitian STIKES Kediri*, 5(1), 82-98–98.
- Awasthi, S., & Pande, V. K. (1997). Validation of Revised. *Indian Pediatrics*, 34(October), 919–923.
- Awodele, O., & Osuolale, J. A. (2015). Medication adherence in type 2 diabetes patients: Study of patients in alimosho general hospital, Igando, Lagos, Nigeria. *African Health Sciences*, 15(2), 513–522. <https://doi.org/10.4314/ahs.v15i2.26>
- Azwar, S. (2003). *Metode Penelitian*. Yogyakarta: Pustaka Pelajar.
- Bar, S., Milanaik, R., & Adesman, A. (2016). Long-term neurodevelopmental benefits of breastfeeding. *Current Opinion in Pediatrics*, 28(4), 559–566. <https://doi.org/10.1097/MOP.0000000000000389>
- Benton, D. (2008). The influence of children's diet on their cognition and behavior. *European Journal of Nutrition*, 47(SUPPL.3), 25–37. <https://doi.org/10.1007/s00394-008-3003-x>
- Benton, D. (2010). The influence of dietary status on the cognitive performance of children. *Molecular Nutrition and Food Research*, 54(4), 457–470. <https://doi.org/10.1002/mnfr.200900158>
- Bernatal, S., Saragih, B., Syarief, H., & Riyadi, H. (2007). Pengaruh pemberian pangan fortifikasi zat multi gizi mikro pada ibu hamil terhadap pertumbuhan linier, tinggi lutut dan status anemia bayi. *Gizi Indon*, 30(1), 12–24.

- Bert, F., & Giacometti, M. (2014). Smartphones and Health Promotion : A Review of the Evidence Smartphones and Health Promotion : A Review of the Evidence, (December). <https://doi.org/10.1007/s10916-013-9995-7>
- Betrán, A. P., Onís, M. De, Lauer, J. A., & Villar, J. (2001). infant mortality in Latin America mortality in Latin America, 323(December 2008), 1–5.
- Bhandari, N., Bahl, R., Nayyar, B., Khokhar, P., Rohde, J. E., & Bhan, M. K. (2001). Food supplementation with encouragement to feed it to infants from 4 to 12 months of age has a small impact on weight gain. *Journal of Nutrition*, 131(7), 1946–1951. <https://doi.org/10.1093/jn/131.7.1946>
- Births, P. (2009). Effects of prenatal multimicronutrient supplementation on pregnancy outcomes: a meta-analysis. *CMAJ*, 180(12), 99–108.
- Black, M. M. (1998). Zinc deficiency and child development. *American Journal of Clinical Nutrition*, 68(2 SUPPL.), 464–469. <https://doi.org/10.1093/ajcn/68.2.464S>
- Black, R. E., Victora, C. G., Walker, S. P., Bhutta, Z. A., Christian, P., Onis, M. De, & Ezzati, M. (2011). Maternal and Child Nutrition 1 Maternal and child undernutrition and overweight in low-income and middle-income countries. [https://doi.org/10.1016/S0140-6736\(13\)60937-X](https://doi.org/10.1016/S0140-6736(13)60937-X)
- Bogale, T. Y., Bala, E. T., Tadesse, M., & Asamoah, B. O. (2018). Prevalence and associated factors for stunting among 6 – 12 years old school age children from rural community of Humbo district , Southern Ethiopia. *BMC Public Health*, 1–8.
- Boucher, O., Julvez, J., Guxens, M., Arranz, E., Ibarluzea, J., Sánchez De Miguel, M., ... Sunyer, J. (2017). Association between breastfeeding duration and cognitive development, autistic traits and ADHD symptoms: A multicenter study in Spain. *Pediatric Research*, 81(3), 434–442. <https://doi.org/10.1038/pr.2016.238>
- Brough, L., Rees, G. A., Crawford, M. A., Morton, R. H., & Dorman, E. K. (2010). Effect of multiple-micronutrient supplementation on maternal nutrient status , infant birth weight and gestational age at birth in a low-income , multi-ethnic population. *British Journal of Nutrition*, 437–445. <https://doi.org/10.1017/S0007114510000747>
- Brown, M. T., & Bussell, J. K. (2011). Medication adherence: WHO cares? *Mayo Clinic Proceedings*, 86(4), 304–314. <https://doi.org/10.4065/mcp.2010.0575>
- Carter, M. C., Burley, V. J., Nykjaer, C., & Cade, J. E. (2013). My Meal

- Mate (MMM): Validation of the diet measures captured on a smartphone application to facilitate weight loss. *British Journal of Nutrition*, 109(3), 539–546.
<https://doi.org/10.1017/S0007114512001353>
- Casey, B. M. (2006). Subclinical hypothyroidism and pregnancy. *Obstetrical and Gynecological Survey*, 61(6), 415–420.
<https://doi.org/10.1097/01.ogx.0000223331.51424.9b>
- Cetin, I., Bühlung, K., Demir, C., Kortam, A., Prescott, S. L., Yamashiro, Y., ... Koletzko, B. (2019). Impact of Micronutrient Status during Pregnancy on Early Nutrition Programming. *Annals of Nutrition and Metabolism*, 269–278. <https://doi.org/10.1159/000499698>
- Chahyanto, B. A., & Roosita, K. (2014). Kaitan Asupan Vitamin a Dengan Produksi Air Susu Ibu (Asi) Pada Ibu Nifas. *Jurnal Gizi Dan Pangan*, 8(2), 83. <https://doi.org/10.25182/jgp.2013.8.2.83-88>
- Chakraborty, I., Chatterjee, S., Bhadra, D., Mukhopadhyaya, B. B., Dasgupta, A., & Purkait, B. (2006). Iodine deficiency disorders among the pregnant women in a rural hospital of West Bengal. *Indian Journal of Medical Research*, 123(6), 825–829.
- Chamidah, N. N. (2009). Deteksi Dini Gangguan Pertumbuhan Dan Perkembangan Anak. *UNY*.
- Cheng, G., Sha, T., Gao, X., Wu, X., Tian, Q., Yang, F., & Yan, Y. (2019). Effects of maternal prenatal multi-micronutrient supplementation on growth and development until 3 years of age. *International Journal of Environmental Research and Public Health*, 16(15).
<https://doi.org/10.3390/ijerph16152744>
- Choi, H. J., Kang, S. K., & Chung, M. R. (2018). The relationship between exclusive breastfeeding and infant development: A 6- and 12-month follow-up study. *Early Human Development*, 127(May), 42–47.
<https://doi.org/10.1016/j.earlhundev.2018.08.011>
- Christian, P., Kim, J., Mehra, S., Shaikh, S., Ali, H., Shamim, A. A., ... West, K. P. (2016). Effects of prenatal multiple micronutrient supplementation on growth and cognition through 2 y of age in rural Bangladesh: The JiVitA-3 Trial. *American Journal of Clinical Nutrition*, 104(4), 1175–1182. <https://doi.org/10.3945/ajcn.116.135178>
- Christian, P., Murray-kolb, L. E., Katz, J., Schaefer, B. A., Cole, P. M., Leclercq, S. C., & Tielsch, J. M. (2010). and Intellectual and Motor Function in Early School-aged Children in Nepal. *Jama*, 304(24), 2716–2723.
- Christian, P., Murray-Kolb, L. E., Khatry, S. K., Katz, J., Schaefer, B. A., Cole, P. M., ... Tielsch, J. M. (2010). Prenatal micronutrient

- supplementation and intellectual and motor function in early school-aged children in Nepal. *JAMA - Journal of the American Medical Association*, 304(24), 2716–2723.
<https://doi.org/10.1001/jama.2010.1861>
- Clark, S. (2008). Iron deficiency anemia. *Nutrition in Clinical Practice*, 23, 128–141.
- Coughlin, S. S., Whitehead, M., Sheats, J. Q., Mastromonico, J., Hardy, D., & Smith, S. A. (2016). Smartphone Applications for Promoting Healthy Diet and Nutrition: A Literature Review. *Jacobs Journal of Food and Nutrition*, 2(3), 021. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/26819969%0Ahttp://www.ncbi.nlm.nih.gov/article/PMC4725321>
- Creed-kanashiro, H., Bartolini, R., Abad, M., & Arevalo, V. (2016). Promoting multi-micronutrient powders (MNP) in Peru: acceptance by caregivers and role of health personnel, 152–163.
<https://doi.org/10.1111/mcn.12217>
- Cunningham, F. G. (2005). *Obstetri Williams*. Jakarta: EGC.
- Daly, L. M., Horey, D., Middleton, P. F., Boyle, F. M., & Flenady, V. (2018). The effect of mobile app interventions on influencing healthy maternal behavior and improving perinatal health outcomes: Systematic review. *JMIR MHealth and UHealth*, 6(8), 1–8. <https://doi.org/10.2196/10012>
- Danaei, G., Andrews, K. G., Sudfeld, C. R., Fink, G., McCoy, D. C., Peet, E., ... Fawzi, W. W. (2016). Risk Factors for Childhood Stunting in 137 Developing Countries: A Comparative Risk Assessment Analysis at Global, Regional, and Country Levels. *PLoS Medicine*, 13(11), 1–18. <https://doi.org/10.1371/journal.pmed.1002164>
- Darnton-Hill, I., & Mkparu, U. C. (2015). Micronutrients in pregnancy in low- and middle-income countries. *Nutrients*, 7(3), 1744–1768.
<https://doi.org/10.3390/nu7031744>
- Darwanti, J., & Antini, A. (2015). Kontribusi Asam Folat Dan Kadar Haemoglobin Pada Ibu Hamil Terhadap Pertumbuhan Otak Janin Di Kabupaten Karawang Tahun 2011. *Jurnal Kesehatan Reproduksi*, 3(2 Ags), 82–90. <https://doi.org/10.22435/jkr.v3i2Ags.3922.82-90>
- De Onis, M., Blössner, M., & Borghi, E. (2012). Prevalence and trends of stunting among pre-school children, 1990–2020. *Public Health Nutrition*, 15(1), 142–148.
<https://doi.org/10.1017/S1368980011001315>
- De Onis, M., Dewey, K. G., Borghi, E., Onyango, A. W., Blössner, M., Daelmans, B., ... Branca, F. (2013). The world health organization's global target for reducing childhood stunting by 2025: Rationale and

- proposed actions. *Maternal and Child Nutrition*, 9(S2), 6–26.
<https://doi.org/10.1111/mcn.12075>
- Demilew, Y. M., Alene, G. D., & Belachew, T. (2020). Effect of guided counseling on nutritional status of pregnant women in West Gojjam zone , Ethiopia : a cluster-randomized controlled trial, 1–12.
- Derso, T., Tariku, A., Bik, G. A., & Wassie, M. M. (2017). Stunting , wasting and associated factors among children aged 6 – 24 months in Dabat health and demographic surveillance system site : A community based cross- sectional study in Ethiopia, 1–9.
<https://doi.org/10.1186/s12887-017-0848-2>
- Dewantari, N. M. (2013). Neurological assessment : a clinician's guide. *Jurnal Skala Husada*, 10(2), 219–224.
<https://doi.org/10.1017/CBO9781107415324.004>
- Dewey, K. G. (2016). Reducing stunting by improving maternal, infant and young child nutrition in regions such as South Asia: Evidence, challenges and opportunities. *Maternal and Child Nutrition*, 12, 27–38.
<https://doi.org/10.1111/mcn.12282>
- Dewi, M. M., Djamil, M., & Anwar, M. C. (2019). Education M-Health Android-based Smartphone Media Application “Mama ASIX” for Third Trimester Pregnant Women as Preparation for Exclusive Breastfeeding. *Journal of Health Promotion and Behavior*, 4, 98–109.
- Diddana, T. Z., Kelkay, G. N., Dola, A. N., & Sadore, A. A. (2018). Effect of Nutrition Education Based on Health Belief Model on Nutritional Knowledge and Dietary Practice of Pregnant Women in Dessie Town, Northeast Ethiopia: A Cluster Randomized Control Trial. *Journal of Nutrition and Metabolism*, 2018. <https://doi.org/10.1155/2018/6731815>
- Dodd, J. M., Louise, J., Cramp, C., Grivell, R. M., Moran, L. J., & Deussen, A. R. (2018). Evaluation of a smartphone nutrition and physical activity application to provide lifestyle advice to pregnant women: The SNAPP randomised trial. *Maternal and Child Nutrition*, 14(1), 1–11.
<https://doi.org/10.1111/mcn.12502>
- Dotson, J. A. W., Pineda, R., Cykowski, H., & Amiri, S. (2017). Development and Evaluation of an iPad Application to Promote Knowledge of Tobacco Use and Cessation by Pregnant Women. *Nursing for Women's Health*, 21(3), 174–185.
<https://doi.org/10.1016/j.nwh.2017.04.005>
- Duderewicz, E., Harris, B., Jenkins, T., Miyauchi, K., & Ng, M. (2011). Mom-O- Meter: A self-Help Pregnancy Android App, (March), 210.
- Eadey, D. E. H., Irvonen, K. A. H., & Oddinott, J. O. H. N. H. (2018). A NIMAL S OURCED F OODS AND. *American Journal Agriculture and*

- Economic, 100(5), 1302–1319. <https://doi.org/10.1093/ajae/aay053>*
- Eicher-Miller, H. A., Mason, A. C., Abbott, A. R., McCabe, G. P., & Boushey, C. J. (2009). The Effect of Food Stamp Nutrition Education on the Food Insecurity of Low-income Women Participants. *Journal of Nutrition Education and Behavior, 41(3), 161–168.* <https://doi.org/10.1016/j.jneb.2008.06.004>
- Ekayanthi, N. W. D., & Suryani, P. (2019). Edukasi Gizi pada Ibu Hamil Mencegah Stunting pada Kelas Ibu Hamil. *Jurnal Kesehatan, 10(3), 312.* <https://doi.org/10.26630/jk.v10i3.1389>
- Fachruddin Perdana, Siti Madanijah, I. E. (2017). Media edukasi gizi berbasis android lebih baik dari media lainnya. Intervensi edukasi gizi meningkatkan perilaku gizi seimbang menjadi lebih baik. *Jurnal Gizi Pangan, 12 No. 3, 169–178.*
- Fadare, O., Mavrotas, G., Akerele, D., & Oyeyemi, M. (2018). Micronutrient-rich food consumption , intra-household food allocation and child stunting in rural Nigeria. *Public Health Nutrition, (8).* <https://doi.org/10.1017/S1368980018003075>
- Fall DH, Fisher DJ, Osmond C, M. B. (2009). Maternal Micronutrient Supplementation Study Group. Multiple micronutrient supplementation during pregnancy in low-income countries: A meta-analysis of effects on birth size and length of gestation. *Food Nutr Bull, 30, 533–549.*
- Fallah, F., Pourabbas, A., Delpisheh, A., Veisani, Y., & Shadnoush, M. (2013). Effects of Nutrition Education on Levels of Nutritional Awareness of Pregnant Women in Western Iran. *International Journal of Endocrinology and Metabolism, 11(3), 175–178.* <https://doi.org/10.5812/ijem.9122>
- Fatemi, M. J., Fararouei, M., Moravej, H., & Dianatinasab, M. (2019). Stunting and its associated factors among 6-7-year-old children in southern Iran: A nested case-control study. *Public Health Nutrition, 22(1), 55–62.* <https://doi.org/10.1017/S136898001800263X>
- Ferrari, F. B. M. (2002). Impact of Micronutrient Deficiencies on Growth : The Stunting Syndrome, *46(suppl 1), 8–17.* <https://doi.org/10.1159/000066397>
- Fikawati, S., & Syafiq, A. (2011). Study on Policy and Implementation of Exclusive and Early Initiation of Breastfeeding in Indonesia. *Makara Journal of Health Research, 14(1).* <https://doi.org/10.7454/msk.v14i1.642>
- Firdaus. Marissa Sylvia Manuhuwa. (2019). ANALYSIS OF GIVING EARLY ASI , ASSEMBLY WITH NUTRITION STATUS IN BABY AGE

- 0 - 6 MONTHS IN POSYANDU VILLAGE SIWALANPANJI BUDURAN SIDOARJO Faculty of nursing and midwifery Universitas Nahdlatul Ulama Surabaya Keywords. *International Journal of Nursing and Midwifery Science(IJNMS)*, 3(August 2019), 59–65.
- Ford, E. A., Roman, S. D., McLaughlin, E. A., Beckett, E. L., & Sutherland, J. M. (2020). The association between reproductive health smartphone applications and fertility knowledge of Australian women. *BMC Women's Health*, 20(1), 1–10. <https://doi.org/10.1186/s12905-020-00912-y>
- Friis, H., Gomo, E., Nyazema, N., Ndhlovu, P., Krarup, H., Kæstel, P., & Michaelsen, K. F. (2018). Effect of multivitamin supplementation on gestational length and birth size : a randomized , placebo-controlled , double-blind effectiveness trial in Zimbabwe 1 – 3. *American Journal Clinical Nutrition*, (April), 178–184.
- Gagné, A., Wei, S. Q., Fraser, W. D., & Julien, P. (2009). Absorption, Transport, and Bioavailability of Vitamin E and its Role in Pregnant Women. *Journal of Obstetrics and Gynaecology Canada*, 31(3), 210–217. [https://doi.org/10.1016/S1701-2163\(16\)34118-4](https://doi.org/10.1016/S1701-2163(16)34118-4)
- Galasso, E., Weber, A. M., Stewart, C. P., Ratsifandrihamanana, L., & Fernald, L. C. H. (2019). Effects of nutritional supplementation and home visiting on growth and development in young children in Madagascar: a cluster-randomised controlled trial. *The Lancet Global Health*, 7(9), e1257–e1268. [https://doi.org/10.1016/S2214-109X\(19\)30317-1](https://doi.org/10.1016/S2214-109X(19)30317-1)
- Gari, T., Loha, E., Deressa, W., Solomon, T., & Lindtjørn, B. (2018). Malaria increased the risk of stunting and wasting among young children in Ethiopia: Results of a cohort study. *PLoS ONE*, 13(1), 1–16. <https://doi.org/10.1371/journal.pone.0190983>
- Georgieff, M. K., Ramel, S. E., & Cusick, S. E. (2018). Nutritional influences on brain development. *Acta Paediatrica, International Journal of Paediatrics*, 107(8), 1310–1321. <https://doi.org/10.1111/apa.14287>
- Gernand, A. D., Schulze, K. J., Stewart, C. P., West, K. P., & Christian, P. (2016). Micronutrient deficiencies in pregnancy worldwide: Health effects and prevention. *Nature Reviews Endocrinology*, 12(5), 274–289. <https://doi.org/10.1038/nrendo.2016.37>
- Ghosh, S. A., Strutt, N. R., Otoo, G. E., Suri, D. J., Ankrah, J., Johnson, T., ... Uauy, R. (2019). A macro- and micronutrient-fortified complementary food supplement reduced acute infection, improved haemoglobin and showed a dose-response effect in improving linear growth: A 12-month cluster randomised trial. *Journal of Nutritional*

- Science*, 1–14. <https://doi.org/10.1017/jns.2019.18>
- Girard, A. W., & Olude, O. (2012). Nutrition education and counselling provided during pregnancy: Effects on maternal, neonatal and child health outcomes. *Paediatric and Perinatal Epidemiology*, 26(SUPPL. 1), 191–204. <https://doi.org/10.1111/j.1365-3016.2012.01278.x>
- Glascoe, F. P., & Marks, K. P. (2011). Detecting children with developmental- behavioral problems: The value of collaborating with parents The value of collaborating with parents in early detection. *Psychological Test and Assessment Modeling*, 53(2), 258–279.
- Global Report. (2009). Investing in the future.
- Golding, J., Gregory, S., Clark, R., Iles-Caven, Y., Ellis, G., Taylor, C. M., & Hibbeln, J. (2021). Maternal prenatal vitamin B12 intake is associated with speech development and mathematical abilities in childhood. *Nutrition Research*, 86, 68–78.
<https://doi.org/10.1016/j.nutres.2020.12.005>
- Goudet, S. M., Bogin, B. A., Madise, N. J., & Griffiths, P. L. (2019). Nutritional interventions for preventing stunting in children (Birth to 59 months) living in urban slums in low-and middle-income countries (LMIC). *Cochrane Database of Systematic Reviews*, 2019(6).
<https://doi.org/10.1002/14651858.CD011695.pub2>
- Gross, U., Diaz, M. M., & Valle, C. (2006). Effectiveness of the communication program on compliance in a weekly multimicronutrient supplementation program in Chiclayo, Peru. *Food and Nutrition Bulletin*, 27(4 SUPPL.), 130–142.
<https://doi.org/10.1177/15648265060274s404>
- Hartono. (2002). Perkembangan Fetus dalam Kondisi Defisiensi Yodium dan Cukup Yodium. *Jurnal GAKY Indonesia*, 1(1), 19–26.
- He, Y., Gao, J., Wang, T., Liu, C., & Luo, R. (2020). The association between prenatal micronutrient supplementation and early development of children under age two: Evidence from rural Guizhou, China. *Children and Youth Services Review*, 112(March), 104929.
<https://doi.org/10.1016/j.childyouth.2020.104929>
- Hearn, L., Miller, M., & Fletcher, A. (2013). Online healthy lifestyle support in the perinatal period: What do women want and do they use it? *Australian Journal of Primary Health*, 19(4), 313–318.
<https://doi.org/10.1071/PY13039>
- Heikkilä, M., Lehtovirta, M., Autio, O., Fogelholm, M., & Valve, R. (2019). The impact of nutrition education intervention with and without a mobile phone application on nutrition knowledge among young endurance athletes. *Nutrients*, 11(9).

- <https://doi.org/10.3390/nu11092249>
- Herman, H., Yulfiana, Y., Rahman, N., & Yani, A. (2018). Perilaku Ibu Menyusui dalam Keberhasilan Pemberian ASI Eksklusif di Wilayah Kerja Puskesmas Tawaeli Kota Palu. *MPPKI (Media Publikasi Promosi Kesehatan Indonesia): The Indonesian Journal of Health Promotion*, 1(3), 112–117. <https://doi.org/10.31934/mppki.v1i3.314>
- Hibbeln, C. J. R., Spiller, P., Brenna, J. T., Golding, J., Holub, B. J., Harris, W. S., ... Carlson, S. E. (2019). Relationships between seafood consumption during pregnancy and childhood and neurocognitive development: Two systematic reviews. *Prostaglandins Leukotrienes and Essential Fatty Acids*, 151, 14–36. <https://doi.org/10.1016/j.plefa.2019.10.002>
- Hidayah, N., Prabowo, T., & Najmuna, A. (2016). Pola Asuh Ibu Berhubungan dengan Tingkat Perkembangan Bahasa pada Anak Prasekolah di TK Al Farabi Yogyakarta. *Jurnal Ners Dan Kebidanan Indonesia*, 1(2), 48. [https://doi.org/10.21927/jnki.2013.1\(2\).48-54](https://doi.org/10.21927/jnki.2013.1(2).48-54)
- Hussain, A. (1998). Preventing and controlling micronutrient malnutrition through food-based actions in South Asian countries. *Food, Nutrition and Agriculture*, 22, 63–68. Retrieved from <http://ovidsp.ovid.com/ovidweb.cgi?T=JS&CSC=Y&NEWS=N&PAGE=fulltext&D=cagh2&AN=19991411564%5Cnhttp://lshtmsfx.hosted.exlibrisgroup.com/lshtm?sid=OVID:caghdb&id=pmid:&id=doi:&issn=1014-806X&isbn=&volume=&issue=22&spage=63&pages=63-68&date=1998&title=Food,+N>
- Ilham, M., Akbar, A., & Sulistyono, A. (2018). Peran Asam Folat Dalam Kehamilan Oleh : Margaretha Claudhya Febryanna , dr . M . Ilham Aldika Akbar , dr ., SpOG (K) RSUD DR . SUTOMO SURABAYA, (August). Retrieved from https://www.researchgate.net/publication/326961115_Peran_Asam_Folat_Dalam_Kehamilan
- Imdad, A., Yakoob, M. Y., Bhutta, Z. A., Menon, P., Ngyen, P. H., Mani, S., ... Ministry of Women & Child Development- Government of India. (2016). changing Changing Infant and Child Feeding Behaviors. *Maternal and Child Nutrition*, 12(7), 10–17. <https://doi.org/10.1371/journal.pmed.1000424>
- Indrawaty, N., Universitas, L., Omran, A. R., Strauss, J., Wibowo, Y., Sutrisna, B., ... Hammett, D. (2016). Combined intensive nutrition education and micronutrient powder supplementation improved nutritional status of mildly wasted children on Nias Island, Indonesia. *Asia Pacific Journal of Clinical Nutrition*, 30(November 2011), 1310–1317. Retrieved from <http://link.springer.com/10.1057/978-1-137-42724-3%0Ahttp://dx.doi.org/10.1016/j.nut.2014.03.015>

- Islam, M. M., Sanin, K. I., Mahfuz, M., Ahmed, A. M. S., Mondal, D., Haque, R., & Ahmed, T. (2018). Risk factors of stunting among children living in an urban slum of Bangladesh : findings of a prospective cohort study. *BMC Public Health*, 1–13.
<https://doi.org/10.1186/s12889-018-5101-x>
- Jek Amidos Pardede, Budi Anna Keliat, I. Y. (2016). PENGARUH PENDIDIKAN KESEHATAN TERHADAP KEPATUHAN DIET PADA PENDERITA HIPERTENSI Kurniawati*, Wiwiek Widiatie*, 7(1), 1–7.
- K. Eileen Allen & Lynn R. Marotz. (2018). *Profil Perkembangan Anak Pra Kelahiran Hingga Usia 12 Tahun* (5th ed.). Jakarta: PT.Indeks.
- Kadi, F. A., Garna, H., & Fadlyana, E. (2016). Kesetaraan Hasil Skrining Risiko Penyimpangan Perkembangan Menurut Cara Kuesioner Praskrining Perkembangan (KPSP) dan Denver II pada Anak Usia 12-14 Bulan dengan Berat Lahir Rendah. *Sari Pediatri*, 10(1), 29.
<https://doi.org/10.14238/sp10.1.2008.29-33>
- Kæstel, P., Michaelsen, K. F., Aaby, P., & Friis, H. (2005). Effects of prenatal multimicronutrient supplements on birth weight and perinatal mortality : a randomised , controlled trial in Guinea-Bissau. *European Journal of Clinical Nutrition*, 1081–1089.
<https://doi.org/10.1038/sj.ejcn.1602215>
- Kaleem, R., Adnan, M., Nasir, M., & Rahat, T. (2020). Effects of antenatal nutrition counselling on dietary practices and nutritional status of pregnant women : A quasi-experimental hospital based study. *Pak J Med Sci*, 36(4), 632–636.
- Kania, N. (2006). STIMULASI TUMBUH KEMBANG ANAK UNTUK MENCAPIAI TUMBUH KEMBANG YANG OPTIMAL, 1–10.
- Kantola, M., Purkunen, R., Kröger, P., Tooming, A., Juravskaja, J., Pasanen, M., ... Vartiainen, T. (2004). Selenium in pregnancy: Is selenium an active defective ion against environmental chemical stress? *Environmental Research*, 96(1), 51–61.
<https://doi.org/10.1016/j.envres.2004.03.003>
- Kementerian Kesehatan RI. (2018a). *PEDOMAN STRATEGI KOMUNIKASI PERUBAHAN PERILAKU DALAM PERCEPATAN PENCEGAHAN STUNTING DI INDONESIA*. Jakarta: Direktorat Jenderal Kesehatan Masyarakat Kementerian Kesehatan.
- Kementerian Kesehatan RI. (2018b). *TOPIK UTAMA. Situasi Balita Pendek (Stunting) di Indonesia* (Semester I). Jakarta: PUSDATIN. Kementerian Kesehatan RI.
- Kementerian Kesehatan RI. (2018c). *UPAYA PERCEPATAN PENURUNAN STUNTING : EVALUASI PELAKSANAAN TAHUN*

- 2018 & RENCANA TINDAK TAHUN 2019. Jakarta.
- Kementerian Keuangan. (2018). *PENANGANAN STUNTING TERPADU TAHUN 2018*. Jakarta: KEMENTERIAN KEUANGAN.
- Kementerian Kesehatan RI. (2018). *TOPIK UTAMA: Situasi Balita Pendek (Stunting) di Indonesia* (Semester I). Jakarta: PUSDATIN.
- Kementerian Kesehatan RI.
- Ketut Aryastami, N., & Tarigan, I. (2017). Kajian Kebijakan dan Penanggulangan Masalah Gizi Stunting di Indonesia POLICY ANALYSIS ON STUNTING PREVENTION IN INDONESIA. *Buletin Penelitian Kesehatan*, 11–19.
<https://doi.org/10.22435/bpk.v45i4.7465.233-240>
- Khan, A. I., Kabir, I., Ekström, E., Åsling-monemi, K., & Alam, D. S. (2011). Effects of prenatal food and micronutrient supplementation on child growth from birth to 54 months of age : a randomized trial in. *Nutrition Journal*, 1–11.
- Khan, J., Vesel, L., Bahl, R., & Martines, J. C. (2015). Timing of Breastfeeding Initiation and Exclusivity of Breastfeeding During the First Month of Life: Effects on Neonatal Mortality and Morbidity—A Systematic Review and Meta-analysis. *Maternal and Child Health Journal*, 19(3), 468–479. <https://doi.org/10.1007/s10995-014-1526-8>
- Khanal, V., Scott, J. A., Lee, A. H., Karkee, R., & Binns, C. W. (2015). Factors associated with early initiation of breastfeeding in Western Nepal. *International Journal of Environmental Research and Public Health*, 12(8), 9562–9574. <https://doi.org/10.3390/ijerph120809562>
- Kim, Park, J.-E., & Dong-Yean. (2012). A Studi on Pregnant Women's Experience About Nutrition Education, 23(3), 347–356.
- Kim, S.-B., Kim, J.-W., Kim, M.-H., Cho, Y.-S., Kim, S.-N., Lim, H.-S., & Kim, S.-K. (2013). A study on Consumer's Needs for Development of Diet Guide Application for Pregnant Women. *Korean Journal of Community Nutrition*, 18(6), 588.
<https://doi.org/10.5720/kjcn.2013.18.6.588>
- Klemmensen, Å. K., Tabor, A., Østerdal, M. L., Knudsen, V. K., Halldorsson, T. I., Mikkelsen, T. B., & Olsen, S. F. (2009). Intake of vitamin C and e in pregnancy and risk of pre-eclampsia: Prospective study among 57 346 women. *BJOG: An International Journal of Obstetrics and Gynaecology*, 116(7), 964–974.
<https://doi.org/10.1111/j.1471-0528.2009.02150.x>
- Koesnadar, E., Soedjatmiko, S., & Amalia, P. (2016). Parents Evaluation of Developmental Status and Denver Developmental Screening Test II in high risk infant and toddler. *Paediatrica Indonesiana*, 50(1), 26.

- <https://doi.org/10.14238/pi50.1.2010.26-30>
- Kusfriyadi, M. K., Hadi, H., & Fuad, A. (2012). Pendidikan Gizi dan Pesan Gizi Melalui Short Message Service terhadap pengetahuan, perilaku, dan kepatuhan ibu hamil minu. *Jurnal Gizi Klinik Indonesia*, 9(2), 87–96.
- Kusumawati, E., Rahardjo, S., & Sari, H. P. (2013). Model Pengendalian Faktor Risiko Stunting pada Anak Usia di Bawah Tiga Tahun. *Jurnal Kesehatan Masyarakat*, 9(3), 249–256.
- Lanou, H. B., Osendarp, S. J. M., Argaw, A., De Polnay, K., Ouédraogo, C., Kouanda, S., & Kolsteren, P. (2019). Micronutrient powder supplements combined with nutrition education marginally improve growth amongst children aged 6–23 months in rural Burkina Faso: A cluster randomized controlled trial. *Maternal and Child Nutrition*, 15(4), 1–13. <https://doi.org/10.1111/mcn.12820>
- Larson, L. M., & Yousafzai, A. K. (2017). A meta-analysis of nutrition interventions on mental development of children under-two in low- and middle-income countries. *Maternal and Child Nutrition*, 13(1). <https://doi.org/10.1111/mcn.12229>
- Lassi, Z. S., Das, J. K., Zahid, G., Imdad, A., & Bhutta, Z. A. (2013). Impact of education and provision of complementary feeding on growth and morbidity in children less than 2 years of age in developing countries: A systematic review. *BMC Public Health*, 13(SUPPL.3), 1–10. <https://doi.org/10.1186/1471-2458-13-S3-S13>
- Lestari, D. D. (2015). Reminder Terhadap Kepatuhan Ibu Hamil Dalam Mengkonsumsi Tablet Besi Di Wilayah Kerja, 1–22. Retrieved from <http://repository.uinjkt.ac.id/dspace/bitstream/123456789/28936/3/DE TI DWI LESTARI - FKIK.pdf>
- Lestari, S. Y. P. (2010). Aplikasi Informasi Kehamilan Berbasis Mobile Android V2.0. *Jurnal Stmikelrahma*.
- Li, Q., Yan, H., Zeng, L., Cheng, Y., Liang, W., Dang, S., ... Tsuji, I. (2009). Effects of maternal multimicronutrient supplementation on the mental development of infants in rural western China: Follow-up evaluation of a double-blind, randomized, controlled trial. *Pediatrics*, 123(4), 6–10. <https://doi.org/10.1542/peds.2008-3007>
- Li, Q., Yan, H., Zeng, L., Cheng, Y., Liang, W., Dang, S., ... Tsuji, I. (2009). Effects of Maternal Multimicronutrient Supplementation on the Mental Development of Infants in Rural Western China: Follow-up Evaluation of a Double-Blind, Randomized, Controlled Trial. *Pediatrics*, 123(4), e685–e692. <https://doi.org/10.1542/peds.2008-3008>

3007

- Linda A Gallo, Micheal S Ward, Amelia K Fotheringham, Aowen Zhuang, Hermann Koepsell, Volker Vallon, Carol Pollock, Usha Panchapakesan, J. M. F. (2016). The SGLT2 Inhibitor, Empagliflozin, Attenuates Some Markers of Renal Fibrosis without Improving Albuminuria in Diabetic Db/Db Mice. *The FASEB Journal*. https://doi.org/https://doi.org/10.1096/fasebj.30.1_supplement.740.18
- Liu, J., Raine, A., Venables, P. H., Dalais, C., & Mednick, S. A. (2003). Malnutrition at age 3 years and lower cognitive ability at age 11 years independence from psychosocial adversity. *Archives of Pediatrics and Adolescent Medicine*, 157(6), 593–600. <https://doi.org/10.1001/archpedi.157.6.593>
- Liu, Raine, PH, V., C, D., & SA., M. (2003). Malnutrition at age 3 years and lower cognitive ability at age 11 years: independence from psychosocial adversity. *Arch Pediatr Adolesc Med*, 157, 593–600.
- Loida Maria Garcia Cruz, Gloria Gonzalez Azpeitia, Desiderio Reyes Suarez, Alfredo Santana Rodriguez, Francisco, J., Ferrer, L., & Serramajem, L. (2017). Factors Associated with Stunting among Children Aged 0 to 59 Months from the Central Region of Mozambique. *Nutrients*, 1–16. <https://doi.org/10.3390/nu9050491>
- Lu, W., Lu, M., Li, Z., & Zhang, C. (2014). Effects of Multimicronutrient Supplementation during Pregnancy on Postnatal Growth of Children under 5 Years of Age : A Meta-Analysis of Randomized Controlled Trials. *PLoS ONE*, 9(2). <https://doi.org/10.1371/journal.pone.0088496>
- Lumbanraja, S. (2019). Exclusive Breastfeeding For Infant Growth and Development in Medan. *SUMEJ: Sumatera Medical Journal*, 2(3), 104–109.
- Lupton, D. (2016). The use and value of digital media for information about pregnancy and early motherhood: A focus group study. *BMC Pregnancy and Childbirth*, 16(1), 1–10. <https://doi.org/10.1186/s12884-016-0971-3>
- Lupton, D., & Pedersen, S. (2016). An Australian survey of women's use of pregnancy and parenting apps. *Women and Birth*, 29(4), 368–375. <https://doi.org/10.1016/j.wombi.2016.01.008>
- Maastrup, R., Hansen, B. M., Kronborg, H., Bojesen, S. N., Hallum, K., Frandsen, A., ... Hallström, I. (2014). Factors associated with exclusive breastfeeding of preterm infants. Results from a prospective national cohort study. *PLoS ONE*, 9(2). <https://doi.org/10.1371/journal.pone.0089077>
- Marliana Yunita. (2017). Pengaruh Pemberian Asi Eksklusif Terhadap

- Perkembangan Bayi Di Desa Kekait Kecamatan Gunung Sari. *Jurnal Kesehatan Prima*, 11(1), 50–56.
- Martorell, U. R. L. M. N. R. F. J. R. R. (2009). Multiple micronutrient supplementation during early childhood increases child size at 2 y of age only among high compliers. *American Journal Clinical Nutrition*, 89, 1125–1131.
- Masitah, R., Pamungkasari, E. P., & Suminah, S. (2020). the Effectiveness of Animation Video To Increase Adolescents' Nutritional Knowledge. *Media Gizi Indonesia*, 15(3), 199. <https://doi.org/10.20473/mgi.v15i3.199-204>
- Maulana, H. (2009). *Promosi Kesehatan*. Jakarta: EGC.
- McCann JC1, A. B. (2007). An overview of evidence for a causal relation between iron deficiency during development and deficits in cognitive or behavioral function. *American Journal Clinical Nutrition*, 85, 931–945.
- McLean, E., Cogswell, M., Egli, I., Wojdyla, D., & De Benoist, B. (2009). Worldwide prevalence of anaemia, WHO Vitamin and Mineral Nutrition Information System, 1993-2005. *Public Health Nutrition*, 12(4), 444–454. <https://doi.org/10.1017/S1368980008002401>
- Mejia, C. R., Roberto, M., & Palone, T. (2019). Association of nutritional status and anemia with multi- micronutrient supplementation in young children in Peru, (November). <https://doi.org/10.29333/ejgm/114662>
- Menon, P., Ruel, M. T., Loechl, C. U., Arimond, M., Habicht, J.-P., Pelto, G., & Michaud, L. (2007). Micronutrient Sprinkles reduce anemia among 9- to 24-mo-old children when delivered through an integrated health and nutrition program in rural Haiti. *The Journal of Nutrition*, 137(4), 1023–1030. <https://doi.org/10.1093/jn/137.4.1023>
- Mongo, M., Chotta, N. A. S., Hashim, T. H., Uriyo, J. G., Damian, D. J., Stray-pedersen, B., ... Vangen, S. (2017). Underweight , Stunting and Wasting among Children in Kilimanjaro Region , Tanzania ; a Population-Based Cross-Sectional Study. *International Journal of Environmental Research and Public Health*, 1–12. <https://doi.org/10.3390/ijerph14050509>
- Miremberg, H., Ben-Ari, T., Betzer, T., Raphaeli, H., Gasnier, R., Barda, G., ... Weiner, E. (2018). The impact of a daily smartphone-based feedback system among women with gestational diabetes on compliance, glycemic control, satisfaction, and pregnancy outcome: a randomized controlled trial. *American Journal of Obstetrics and Gynecology*, 218(4), 453.e1-453.e7. <https://doi.org/10.1016/j.ajog.2018.01.044>

- Mistry, S. K., Hossain, M. B., & Arora, A. (2019). Maternal nutrition counselling is associated with reduced stunting prevalence and improved feeding practices in early childhood: A post-program comparison study. *Nutrition Journal*, 18(1), 1–9.
<https://doi.org/10.1186/s12937-019-0473-z>
- Mo, Y., Gong, W., Wang, J., Sheng, X., & Xu, D. R. (2018). The association between the use of antenatal care smartphone apps in pregnant women and antenatal depression: Cross-sectional study. *JMIR MHealth and UHealth*, 6(11), 1–11.
<https://doi.org/10.2196/11508>
- Mohebi, S., Shahnazi, H., Shahsiah, M., Sharifirad, G., Tol, A., & Matlabi, M. (2013). The effectiveness of nutrition education program based on health belief model compared with traditional training. *Journal of Education and Health Promotion*, 2(1), 15.
<https://doi.org/10.4103/2277-9531.112684>
- Mokhber, N., Namjoo, M., Tara, F., Boskabadi, H., Rayman, M. P., Ghayour-Mobarhan, M., ... Ferns, G. (2011). Effect of supplementation with selenium on postpartum depression: A randomized double-blind placebo-controlled trial. *Journal of Maternal-Fetal and Neonatal Medicine*, 24(1), 104–108.
<https://doi.org/10.3109/14767058.2010.482598>
- Muchtadi, D. (2014). *Pengantar Ilmu Gizi* (Cetakan Ke). Bandung: Alfabeta.
- Murbawani, E. A. (2017). JNH(Journal of Nutrition and Health) Vol.5 No.2 2017. *Hubungan Persen Lemak Tubuh Dan Aktivitas Fisik Dengan Tingkat Kesegaran Jasmani Remaja Putri*, 5(2), 77–78.
- Na Wang, Zequn Deng, BS, Li Ming Wen, Yan Ding, G. H. (2019). Understanding the Use of Smartphone Apps for Health Information Among Pregnant Chinese Women: Mixed Methods Study. *JMIR MHealth and UHealth*, 7(6). <https://doi.org/10.2196/12631>
- Nagai, Y., Togo, N., Nakagi, M., Takai, S., Tanaka, M., Yasuoka, H., & Tatsumi, T. (2018). Successful laparoscopic treatment of advanced rectal cancer in an extremely elderly man (101 years and 9 months). *Asian Journal of Endoscopic Surgery*, 11(1), 50–52.
<https://doi.org/10.1111/ases.12406>
- Nesamvuni, A. E., Vorster, H. H., Margetts, B. M., & Kruger, A. (2005). Fortification of maize meal improved the nutritional status of 1–3-year-old African children. *Public Health Nutrition*, 8(5), 461–467.
<https://doi.org/10.1079/phn2005782>
- Neumann CG1, Bwibo NO, Murphy SP, Sigman M, Whaley S, Allen LH, Guthrie D, Weiss RE, D. M. (2003). Animal source foods improve

- dietary quality, micronutrient status, growth and cognitive function in Kenyan school children: background, study design and baseline findings. *American Journal Clinical Nutrition*, 133(Nutrition), 3941S–3949S.
- Nimbalkar, P. B., Patel, J. N., Thakor, N., & Patni, M. (2017). Impact of educational intervention regarding anaemia and its preventive measures among pregnant women: an interventional study. *International Journal of Reproduction, Contraception, Obstetrics and Gynecology*, 6(12), 5317. <https://doi.org/10.18203/2320-1770.ijrcog20175137>
- Nisar, Y. Bin, Dibley, M. J., & Aguayo, V. M. (2016). Iron-Folic Acid Supplementation During Pregnancy Reduces the Risk of Stunting in Children Less Than 2 Years of Age : A Retrospective Cohort Study from Nepal. *Nutrients*. <https://doi.org/10.3390/nu8020067>
- Niviethitha, S., Bhawarlal, C., Ramkumar, H., Dhakshanamoorthy, S., & Shanmugam, H. (2018). Effectiveness of an audio-visual aid on the knowledge of school teachers regarding the emergency management of dental injuries. *Dental Traumatology*, 34(4), 290–296. <https://doi.org/10.1111/edt.12405>
- Nnam, N. M. (2015). Improving maternal nutrition for better pregnancy outcomes. *Proceedings of the Nutrition Society*, 74(4), 454–459. <https://doi.org/10.1017/S0029665115002396>
- Notoatmodjo, S. (2007a). *Kesehatan masyarakat: Ilmu dan Seni*. Jakarta: Rineka Cipta.
- Notoatmodjo, S. (2007b). *Promosi Kesehatan dan Ilmu Perilaku*. Jakarta: Rineka Cipta.
- Novita, L., Gurnida, D. A., & Garna, H. (2016). Perbandingan Fungsi Kognitif Bayi Usia 6 Bulan yang Mendapat dan yang Tidak Mendapat ASI Eksklusif. *Sari Pediatri*, 9(6), 429. <https://doi.org/10.14238/sp9.6.2008.429-34>
- Nurjanah, S. (2018). Asi Eksklusif Meningkatkan Perkembangan Bayi Usia 6-12 Bulan Di Wilayah Kerja Puskesmas Banyu Urip Surabaya. *Journal of Health Sciences*, 8(2), 221–228. <https://doi.org/10.33086/jhs.v8i2.209>
- Nyamasege, C. K., Kimani-Murage, E. W., Wanjohi, M., Kaindi, D. W. M., & Wagatsuma, Y. (2020). Effect of maternal nutritional education and counselling on children's stunting prevalence in urban informal settlements in Nairobi, Kenya. *Public Health Nutrition*. <https://doi.org/10.1017/S1368980020001962>
- O'Higgins, Amy; Murphy, Olivia C.; Egan, Aileen; Mullaney, Laura;

- Sheehan, S.; Turner, M. (2014). The use of digital media by women using the maternity services in a developed country. *Irish Medical Journal*, 107(10), 313–315. Retrieved from <http://hdl.handle.net/10197/8742>
- Olney, D. K., Pollitt, E., Kariger, P. K., Khalfan, S. S., Ali, N. S., Tielsch, J. M., ... Stoltzfus, R. J. (2007). Young Zanzibari children with iron deficiency, iron deficiency anemia, stunting, or malaria have lower motor activity scores and spend less time in locomotion. *Journal of Nutrition*, 137(12), 2756–2762. <https://doi.org/10.1093/jn/137.12.2756>
- Olney, D. K., Pollitt, E., Kariger, P. K., Khalfan, S. S., Ali, N. S., Tielsch, J. M., ... Stoltzfus, R. J. (2018). Young Zanzibari Children with Iron Deficiency, Iron Deficiency Anemia, Stunting, or Malaria Have Lower Motor Activity Scores and Spend Less Time in Locomotion. *The Journal of Nutrition*, 137(12), 2756–2762. <https://doi.org/10.1093/jn/137.12.2756>
- Omotayo, M. O., Dickin, K. L., Chapleau, G. M., Martin, S. L., Chang, C., Mwanga, E. O., ... Stoltzfus, R. J. (2015). Cluster-randomized non-inferiority trial to compare supplement consumption and adherence to different dosing regimens for antenatal calcium and iron-folic acid supplementation to prevent preeclampsia and anaemia: rationale and design of the Micronutrient . *Journal of Public Health Research*, 4(3). <https://doi.org/10.4081/jphr.2015.582>
- Organization, W. H. (2001). Report of the expert consultation of the optimal duration of exclusive breastfeeding, Geneva, Switzerland, 28-30 March 2001, (March). Retrieved from http://www.who.int/entity/nutrition/publications/infantfeeding/optimal_duration_of_exc_bfeeding_report_eng.pdf
- Ota E, B. Z. (2015). Cochrane Database of Systematic Reviews Zinc supplementation for improving pregnancy and infant outcome (Review) Zinc supplementation for improving pregnancy and infant outcome (Review), (2). <https://doi.org/10.1002/14651858.CD000230.pub5>
- Panjwani, A., & Heidkamp, R. (2017). Complementary Feeding Interventions Have a Small but Significant Impact on Linear and Ponderal Growth of Children in Low- and Middle-Income Countries : A Systematic Review and Meta-Analysis. *The Journal of Nutrition*, (C), 1–10. <https://doi.org/10.3945/jn.116.243857>.
- Parsa, S., Khajouei, R., Baneshi, M. R., & Aali, B. S. (2019). Improving the knowledge of pregnant women using a pre-eclampsia app: A controlled before and after study. *International Journal of Medical Informatics*, 125(October 2018), 86–90. <https://doi.org/10.1016/j.ijmedinf.2019.03.001>

- Penny, M. E., Creed-Kanashiro, H. M., Robert, R. C., Narro, M. R., Caulfield, L. E., & Black, R. E. (2005). Effectiveness of an educational intervention delivered through the health services to improve nutrition in young children: A cluster-randomised controlled trial. *Lancet*, 365(9474), 1863–1872. [https://doi.org/10.1016/S0140-6736\(05\)66426-4](https://doi.org/10.1016/S0140-6736(05)66426-4)
- Permatasari, T. A. E., Rizqiya, F., Kusumaningati, W., Suryaalamsah, I. I., & Hermiwahyoeni, Z. (2021). The effect of nutrition and reproductive health education of pregnant women in Indonesia using quasi experimental study. *BMC Pregnancy and Childbirth*, 21(1). <https://doi.org/10.1186/s12884-021-03676-x>
- PETRI, W. A., FARR, B. M., HAQUE, R., TARLETON, J. L., SHU, J., & MONDAL, D. (2018). Cognitive Effects of Diarrhea, Malnutrition, and Entamoeba Histolytica Infection on School Age Children in Dhaka, Bangladesh. *The American Journal of Tropical Medicine and Hygiene*, 74(3), 475–481. <https://doi.org/10.4269/ajtmh.2006.74.475>
- Pibriyanti, K., SS, D., & Pemayun, T. G. D. (2017). Hubungan status iodium ibu hamil trimester III dengan status iodium dan nilai antropometri bayi baru lahir di daerah GAKI. *Jurnal Gizi Indonesia*, 5(2), 75. <https://doi.org/10.14710/jgi.5.2.75-81>
- Pieczyńska, J., & Grajeda, H. (2015). The role of selenium in human conception and pregnancy. *Journal of Trace Elements in Medicine and Biology*, 29, 31–38. <https://doi.org/10.1016/j.jtemb.2014.07.003>
- Prendergast, A. J., & Humphrey, J. H. (2014). The stunting syndrome in developing countries. *Paediatrics and International Child Health*, 34(4), 250–265. <https://doi.org/10.1179/2046905514Y.00000000158>
- Pritwani, R., & Mathur, P. (2016). Strategies to Combat Micronutrient Deficiencies : A Review International Journal of Health Sciences and Research Strategies to Combat Micronutrient Deficiencies : A Review, (January 2015).
- Putri Rismaina, S. A. I. (2017). Hubungan Pola Menyusui dengan Frekuensi Kejadian Sakit pada Bayi. *Journal of Issue in Midwifery*, (April), 30–41.
- Ramakrishnan, U., Aburto, N., McCabe, G., & Martorell, R. (2018). Multimicronutrient Interventions but Not Vitamin A or Iron Interventions Alone Improve Child Growth: Results of 3 Meta-Analyses. *The Journal of Nutrition*, 134(10), 2592–2602. <https://doi.org/10.1093/jn/njy102>
- Reich, S. (2005). What do mothers know? Maternal knowledge of child development. *Infant Mental Health Journal*, 26(2), 143–156. <https://doi.org/10.1002/imhj.20038>

- Richard, S. D. (2013). Jurnal STIKES Volume 6, No. 1, Juli 2013, 6(1), 63–73.
- Rivera, J. A., Sotres-alvarez, D., Shamah, T., Villalpando, S., & Habicht, J.-P. (2004). on Rates of Growth and Anemia in Infants and Young Children A Randomized Effectiveness Study. *Energy*, 291(21), 2563–2570. Retrieved from <http://jama.ama-assn.org/content/291/21/2563.abstract>
<http://jama.ama-assn.org/content/291/21/2563?cited-by=yes&legid=jama;291/21/2563>
- Robertson, N., & Ladlow, B. (2019). Effect of Individual Dietetic Intervention on Gestational Weight Gain and Associated Complications in Obese Pregnant Women. *Obstetric Anesthesia Digest*, 39(2), 89–89.
<https://doi.org/10.1097/01.aoa.0000557675.38096.68>
- Rosanne A. Thurlow, Pattanee Winichagoon, Tim Green, Emorn Wasantwisut, Tippawan Pongcharoen, Karl B. Bailey, R. S. G. (2005). Only a small proportion of anemia in northeast Thai schoolchildren is associated with iron deficiency. *American Journal Clinical Nutrition*, 82(Nutrition), 380–387.
- Roy, S. K., Fuchs, G. J., Mahmud, Z., Ara, G., Islam, S., Shafique, S., ... Chakraborty, B. (2005). Intensive nutrition education with or without supplementary feeding improves the nutritional status of moderately-malnourished children in Bangladesh. *Journal of Health, Population and Nutrition*, 23(4), 320–330. <https://doi.org/10.3329/jhpn.v23i4.348>
- Rukanah, R. (2021). Relationship of Breastfeeding With Gross and Fine Motor Skills Development in Infant 6–12 Months. *Journal of Vocational Nursing*, 2(1), 25. <https://doi.org/10.20473/jovin.v2i1.26434>
- Rumbold, A., Ota, E., Nagata, C., Shahrook, S., & Crowther, C. A. (2016). Vitamin C supplementation in pregnancy (Review) Summary Of Findings For The Main Comparison. *The Cochrane Collaboration*, (9), 167.
<https://doi.org/10.1002/14651858.CD004072.pub3.www.cochranelibrary.com>
- Safitri, A., Gayatri, S. W., & Kartika, I. D. (2021). Tatalaksana Gizi Pada Ibu Hamil Untuk Mencegah Risiko Stunting Pada Anak Di Puskesmas Jongaya. *Jurnal Pengabdian Kedokteran Indonesia*, 2(1), 1–8.
<https://doi.org/10.33096/jpki.v2i1.129>
- Sajjad, U. U., & Shahid, S. (2016). Baby + : A Mobile Application to Support Pregnant Women in Pakistan. *Proceedings of the 18th International Conference on Human-Computer Interaction with Mobile Devices and Services Adjunct*, 667–674.
<https://doi.org/10.1145/2957265.2961856>

- Saleh, A., Nurachmah, E., As, S., Hadju, V., Studi Ilmu Keperawatan, P., Kedokteran, F., ... Kesehatan Masyarakat, F. (2010). KEMAMPUAN PRAKTEK DAN PERCAYA DIRI IBU DALAM MENSTIMULASI TUMBUH KEMBANG BAYI 0-6 BULAN DI KABUPATEN MAROS The Effect Of Health Education With Modelling Approach On Mother's Knowledge, Practice Ability And Maternal Confidence Of Infant Growth And Developm.
- Salim, F., & Begum, N. (2015). Nutritional Status and Knowledge about Nutrition during Pregnancy among Pregnant and Postpartum Women, 6(2), 61–63.
- Salina 1, Tahira 2, Sunarti 2, Syafruddin Syarif 3, Mardiana Ahmad 2, Ester Sanda Manapa 4, J. 3. (2020). Application mattampu as fetal growth education media during pregnancy based on android. *Enfermeria Clinica*, 2, 602–605.
<https://doi.org/10.1016/j.enfcli.2019.07.170>
- Salulinggi, A., Asmin, E., Titaley, C. R., & Bension, J. B. (2021). Hubungan Pengetahuan Dan Kepatuhan Ibu Hamil Konsumsi Tablet Tambah Darah Dengan Kejadian Anemia Di Kecamatan Leitimur Selatan Dan Teluk Ambon. *Jurnal Epidemiologi Kesehatan Komunitas*, 0(0), 229–236. Retrieved from <https://ejournal2.undip.ac.id/index.php/jekk/article/view/10180>
- Saputra, W., & Nurrizka, R. H. (2012). Faktor Demografi, Resiko Gizi Buruk dan Gizi Kurang. *Makara Kesehatan*, 16(2), 95–101. Retrieved from https://scholar.google.co.id/scholar?hl=en&as_sdt=0%2C5&q=FAKTO R+DEMOGRAFI+DAN+RISIKO+GIZI+BURUK+DAN+GIZI+KURANG &btnG=
- Sekertariat Wakil Presiden Republik Indonesia. (2017). *100 Kabupaten/Kota Prioritas untuk Intervensi Anak Kerdil (Stunting)*. Jakarta.
- Shahshahani, S., Sajedi, F., Azari, N., Vameghi, R., Kazemnejad, A., & Tonekaboni, S.-H. (2011). Evaluating the Validity and Reliability of PDQ-II and Comparison with DDST-II for Two Step Developmental Screening. *Iranian Journal of Pediatrics*, 21(3), 343–349. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/23056811%0Ahttp://www.ncbi.nlm.nih.gov/articlerender.fcgi?artid=PMC3446190>
- Shahshahani, S., Vameghi, R., Azari, N., & Sajedi, F. (2011). Comparing the Results of Developmental Screening of 4-60 Months Old Children in Tehran Using ASQ & PDQ, 9(December), 3–7.
- Shonkoff JP, Phillips DA, E., Of, C. on I. the S., & Development, E. C.

- (2000). . *From neurons to neighborhoods: the science of early childhood development*. Washington, DC: National Academy Press; 2000.
- Siti Asiyah. Dwi Estuning Rahayu. Wiranti Dwi Novita Isnaeni. (2017). Perbandingan Efek Suplementasi Tablet Tambahan Darah Dengan Dan Tanpa Vitamin C Terhadap Kadar Hemoglobin Pada Ibu Hamil Dengan Usiakehamilan 16-32 Minggu Di Desa Keniten Kecamatan Mojo Kabupaten Kediri. *Jurnal Ilmu Kesehatan*, Vol. 3 No.(Gizi), 76–81. <https://doi.org/https://doi.org/10.32831/jik.v3i1.49>
- Soetjiningsih, & Ranuh, I. N. G. (2013). *Tumbuh Kembang Anak* (2nd ed.). Jakarta: EGC.
- Soylu, O. B., Unalp, A., Uran, N., Dizdarer, G., Ozgonul, F. O., Conku, A., ... Ozturk, A. A. (2008). Effect of Nutritional Support in Children With Spastic Quadriplegia. *Pediatric Neurology*, 39(5), 330–334. <https://doi.org/10.1016/j.pediatrneurol.2008.07.020>
- Sri Sumarmi. (2017). TINJAUAN KRITIS INTERVENSI MULTI MIKRONUTRIEN PADA 1000. *Penelitian Gizi Dan Makanan*, 40(1), 17–28.
- Suliha. (2002). *Pendidikan Kesehatan Dalam Keperawatan*. Jakarta: EGC.
- Sumarmi, M. S. (2017). a Review on Multi Micronutrients Intervention During the First 1000 Days of Live, (July). <https://doi.org/10.22435/pgm.v40i1.6374.CITATIONS>
- Sunaryo. (2004). *Psikologi Untuk Pendidikan*. Jakarta: EGC.
- Sunuwar, D. R., Sangroula, R. K., Shakya, N. S., Yadav, R., Chaudhary, N. K., & Pradhan, P. M. S. (2019). Effect of nutrition education on hemoglobin level in pregnant women: A quasi-experimental study. *PLoS ONE*, 14(3), 1–12. <https://doi.org/10.1371/journal.pone.0213982>
- Surkan, P. J., Siegel, E. H., Patel, S. A., Katz, J., Khatry, S. K., Stoltzfus, R. J., ... Tielsch, J. M. (2013). Effects of zinc and iron supplementation fail to improve motor and language milestone scores of infants and toddlers. *Nutrition*, 29(3), 542–548. <https://doi.org/10.1016/j.nut.2012.09.003>
- Suryani, D., Simbolon, D., Elly, N., Pratiwi, B. A., & Yandrizal, Y. (2017). Determinants Failure of Exclusive Breast Feeding on Health in the City Bengkulu. *Jurnal Kesehatan Masyarakat*, 12(2), 304–312. <https://doi.org/10.15294/kemas.v12i2.6890>
- Suryn, W. (2014). *Software Quality Engineering: A Practitioner's Approach*. *Software Quality Engineering: A Practitioner's Approach* (Vol. 9781118592). <https://doi.org/10.1002/9781118830208>

- Susanto, T., Yunanto, R. A., Rasny, H., Susumaningrum, L. A., & Nur, K. R. M. (2019). Promoting Children Growth and Development: A community-based cluster randomized controlled trial in rural areas of Indonesia. *Public Health Nursing*, 36(4), 514–524. <https://doi.org/10.1111/phn.12620>
- Susiloningtyas, I. (2012). PEMBERIAN ZAT BESI (Fe) DALAM KEHAMILAN Oleh : Is Susiloningtyas. *Majalah Ilmiah Sultan Agung*, 50, 128.
- Syahlani, A., Tanwirah, & Latif, A. (2017). Media Risk of Transmission of Hiv / Aids on the Motivation of Youth. *Sari Mulia Conference on Health and Sciences*, 6(Smichs), 478–486.
- Syam, A., Palutturi, S., Djafar, N., Astuti, N., & Thaha, A. R. (2016). Micronutrients and growth of children : A literature review, 5(10), 1981–1986. <https://doi.org/10.5455/ijmsph.2017.10062016596>
- Syed Sadat Ali, Dhaded, S. G. (2014). The Impact of Nutrition on Child Development at 3 Years in a Rural Community of India. *Int J Prev Med.*, 5(4), 494–499.
- T. Rismawan, S. K. (2007). “Aplikasi Algoritma Genetika untuk Penentuan Komposisi Bahan Pangan Harian,” in Proc. Seminar Nasional Aplikasi Teknologi Informasi (SNATI) Informatika UII. *Proceeding*.
- Tahira 1, Salina 2, Sunarti 2, Syafruddin Syarif 3, Mardiana Ahmad 2, Esther Sanda Manapa 4, Jibril 2, Burhanuddin Bahar 2, A. N. U. 2. (2020). Increased knowledge about changes in physiology during pregnancy in pregnant women through android-based education. *Enfermeria Clinica*, 2, 573–576. <https://doi.org/10.1016/j.enfcli.2019.07.164>
- Takahashi, K., Ganchimeg, T., Ota, E., Vogel, J. P., Souza, J. P., Laopaiboon, M., ... Mori, R. (2017). Prevalence of early initiation of breastfeeding and determinants of delayed initiation of breastfeeding: Secondary analysis of the WHO Global Survey. *Scientific Reports*, 7(July 2016), 1–10. <https://doi.org/10.1038/srep44868>
- Tarigan, I., & Aryastami, N. (2013). Pengetahuan, Sikap Dan Perilaku Ibu Bayi Terhadap Pemberian Asi Eksklusif. *Buletin Penelitian Sistem Kesehatan*, 15(4 Okt). <https://doi.org/10.22435/bpsk.v15i4>
- Taufiqurrahman, Herta Masthalina, Suhaema, S. H. (2015). PENGARUH PENDAMPINGAN PADA IBU MENYUSUI TERHADAP PENGETAHUAN, SIKAP DAN TINDAKAN DALAM PEMBERIAN ASI EKSKLUSIF DAN STATUS GIZI BALITA. *JURNAL PENELITIAN GIZIKES*, 151(1), 10–17. <https://doi.org/10.1145/3132847.3132886>
- Terrin, G., Canani, R. B., Di Chiara, M., Pietravalle, A., Aleandri, V., Conte,

- F., & De Curtis, M. (2015). Zinc in early life: A key element in the fetus and preterm neonate. *Nutrients*, 7(12), 10427–10446. <https://doi.org/10.3390/nu7125542>
- The World Bank. (2019). The World Bank and Nutrition: Malnutrition is one of the world's most serious but least-addressed development challenges. Its human and economic costs are enormous, falling hardest on the poor, women, and children. Retrieved from <https://www.worldbank.org/en/topic/nutrition/overview#4>
- Theary, C., Panagides, D., Laillou, A., Vonthanak, S., Kanarath, C., Chhorvann, C., ... Moench-Pfanner, R. (2013). Fish sauce, soy sauce, and vegetable oil fortification in Cambodia: where do we stand to date? *Food and Nutrition Bulletin*, 34(2 Suppl), 62–71.
- Titaley, C. R., Ariawan, I., Hapsari, D., & Muasyaroh, A. (2013). Determinants of the Stunting of Children in Indonesia : A Multilevel Analysis of the 2013 Indonesia Basic Health Survey. *Nutrients*, 11, 1160.
- Torlesse, H., Cronin, A. A., Sebayang, S. K., & Nandy, R. (2016). Determinants of stunting in Indonesian children : evidence from a cross-sectional survey indicate a prominent role for the water , sanitation and hygiene sector in stunting reduction. *BMC Public Health*, 1–11. <https://doi.org/10.1186/s12889-016-3339-8>
- Trial, D. R. C., Wang, A. Z., Shulman, R. J., Crocker, A. H., Thakwalakwa, C., Maleta, K. M., ... Trehan, I. (2016). A Combined Intervention of Zinc , Multiple Micronutrients , and Albendazole Does Not Ameliorate Environmental Enteric Dysfunction or Stunting in Rural Malawian Children in a. *The Journal of Nutrition*, (C), 1–7. <https://doi.org/10.3945/jn.116.237735.1>
- UNICEF/WHO/World Bank Group Joint Child Malnutrition Estimate. (2019). Levels and Trends in Child malnutrition. *Maternal & Child Nutritional*, 4. [https://doi.org/10.1016/S0266-6138\(96\)90067-4](https://doi.org/10.1016/S0266-6138(96)90067-4)
- UNICEF South Asia. (2017). Stop Stunting in South Asia Stop Stunting in South Asia. *UNICEF South Asia*.
- UNICEF, World Health Organization, & United Nations University. (1999). Composition of a multi-micronutrient supplement to be used in pilot programmes among pregnant women in developing countries: report of a United Nations Children's Fund (UNICEF), World Health Organization (WHO) and United Nations University workshop. *Unicef*. <https://doi.org/10.1023/B:AURC.0000038716.40679.9b>
- Veena, S. R., Gale, C. R., Krishnaveni, G. V., Kehoe, S. H., Srinivasan, K., & Fall, C. H. D. (2016). Association between maternal nutritional status in pregnancy and offspring cognitive function during childhood

- and adolescence; a systematic review. *BMC Pregnancy and Childbirth*, 16(1). <https://doi.org/10.1186/s12884-016-1011-z>
- Victora, C. G., Adair, L., Fall, C., Hallal, P. C., Martorell, R., Richter, L., & Sachdev, H. S. (2008). Maternal and child undernutrition: consequences for adult health and human capital. *The Lancet*, 371(9609), 340–357. [https://doi.org/10.1016/S0140-6736\(07\)61692-4](https://doi.org/10.1016/S0140-6736(07)61692-4)
- Villnow, M. M. (2018). Letters to the Editor. *Journal of Clinical Laser Medicine & Surgery*, 14(6), 406–406. <https://doi.org/10.1089/clm.1996.14.406>
- Wagner, C. L., Hulsey, T. C., Fanning, D., Ebeling, M., & Hollis, B. W. (2006). High-dose vitamin D3 supplementation in a cohort of breastfeeding mothers and their infants: a 6-month follow-up pilot study. *Breastfeeding Medicine : The Official Journal of the Academy of Breastfeeding Medicine*, 1(2), 59–70. <https://doi.org/10.1089/bfm.2006.1.59>
- Wang, H., Hu, Y. F., Hao, J. H., Chen, Y. H., Su, P. Y., Wang, Y., ... Xu, D. X. (2015). Maternal zinc deficiency during pregnancy elevates the risks of fetal growth restriction: A population-based birth cohort study. *Scientific Reports*, 5(October 2014), 1–10. <https://doi.org/10.1038/srep11262>
- Wang, J., Chang, S., Zhao, L., Yu, W., Zhang, J., Man, Q., ... Yin, S. (2017). Effectiveness of community-based complementary food supplement (Yingyangbao) distribution in children aged 6-23 months in poor areas in China. *PLoS ONE*, 50, 1–14.
- Wang, N., Deng, Z., Wen, L. M., Ding, Y., & He, G. (2019). Understanding the use of smartphone apps for health information among pregnant chinese women: Mixed methods study. *JMIR MHealth and UHealth*, 7(6), 1–14. <https://doi.org/10.2196/12631>
- West, K. P., Shamim, A. A., Mehra, S., Labrique, A. B., Ali, H., Shaikh, S., ... Christian, P. (2014). Effect of Maternal multiple micronutrient vs iron-folic acid supplementation on infant mortality and adverse birth outcomes in rural Bangladesh: The JiVitA-3 randomized trial. *JAMA - Journal of the American Medical Association*, 312(24), 2649–2658. <https://doi.org/10.1001/jama.2014.16819>
- WHO. (2011). *mHealth: new horizons for health through mobile technologies. second global survey on eHealth*. CABI. Geneva; Switzerland: World Health Organization. Retrieved from <https://www.cabdirect.org/cabdirect/abstract/20113217175>
- WHO. (2018). *World Health Statistics data visualizations dashboard. Child Stunting*.

- Wicaksono, D. (2016). Pengaruh Media Audio-Visual Mp-Asi Terhadap Pengetahuan, Sikap Dan Perilaku Ibu Baduta Di Puskesmas Kelurahan Johar Baru. *ETHOS (Jurnal Penelitian Dan Pengabdian)*, 291. <https://doi.org/10.29313/ethos.v0i0.1974>
- Widasari, Lucy; Chalid, Maisuri T.; Jafar, Nurhaedar; Thaha, A. R. (2019). Effects of Multimicronutrient and IFA Supplementation in Preconception Period Against Birth Length and Birth Weight: A Randomized, Double Blind Controlled Trial in Banggai Regency, Central Sulawesi. *Indian Journal of Public Health Research & Development*, 10(2), 338–343.
- Widyastuti, D, dan Widyani, R. (2008). *Panduan Perkembangan Anak 0 Sampai 1 Tahun*. Jakarta: Puspa Swara.
- Widyastuti Y, Rahmawati A, P. Y. (2009). *Kesehatan Reproduksi*. Yogyakarta: Fitramaya.
- World Health Organization. (2010). *Nutrition Landscape Information System (NLIS) Country Profile Indicators. COUNTRY PROFILE INDICATORS Interpretation Guide*. Geneva; Switzerland: Printed by the WHO Document Production Services.
- World Health Organization. (2015). *Ensure healthy lives and promote well-being for all at all ages*. Retrieved from <https://www.who.int/mediacentre/news/statements/2015/healthy-lives/en/>
- World Health Organization. (2018). Global Strategy for Women ' s , Children ' s and Adolescents ' Health. *World Health Organization*, (April 2019), 1–2. Retrieved from <https://apps.who.int/gho/data/node.gswcah>
- Yang, J., Zhang, Y., Li, H., Wang, N., Yan, S., Zhang, F., ... Zhao, C. (2020). The possible effects of breastfeeding on infant development at 3 months: A case-control study. *Breastfeeding Medicine*, 15(10), 662–670. <https://doi.org/10.1089/bfm.2019.0283>
- Yaqub, A., & Gul, S. (2013). Reasons for failure of exclusive breastfeeding in children less than six months of age. *Journal of Ayub Medical College, Abbottabad : JAMC*, 25(1–2), 165–167.
- Yoo, T., Han, Y.-H., Kim, J. H., Lee, M. J., & Hyun, T. (2017). Development of Nutrition Education Contents for Pregnant Women Based on Effective Communication Strategies. *Korean Journal of Community Nutrition*, 22(2), 115. <https://doi.org/10.5720/kjcn.2017.22.2.115>
- Yuliani, E., & Immawanti, I. (2018). Determinan Kejadian Stunting Pada Balita Usia 25-60 Bulan Di Kabupaten Majene 2018. *Journal of*

- Health, Education and Literacy*, 1(1), 53–61.
<https://doi.org/10.31605/j-healt.v1i1.152>
- Yuliansyah, H., Winiarti, S., Kusumadewi, S., Muhammadi, I., Informatika, T., & Dahlan, U. A. (2016). Pengembangan aplikasi android untuk penentuan nutrisi balita terhadap konsumsi produk makanan kemasan. *Seminar Nasional APTIKOM (SEMNASTIKOM)*, (Mataram), Seminar Nasional Aptikom. Retrieved from https://www.researchgate.net/profile/Herman_Yuliansyah/publication/323243226_Pengembangan_Aplikasi_Android_Untuk_Penentuan_Nutrisi_Balita_Terhadap_Konsumsi_Produk_Makanan_Kemasan/links/5a882d2b458515b8af91b5b8/Pengembangan-Aplikasi-Android-Untuk-Penentuan
- Zaenab, S., Alasiry, E., & Idris, I. (2016). Pengaruh Pemberian ASI Eksklusif Terhadap Pertumbuhan Bayi di Wilayah Kerja Puskesmas Poasia Kota Kendari. *Jurnal Ilmu Kesehatan*, 6(1), 97–102.
- Zagré, N. M., Desplats, G., Adou, P., Mamadoulaibou, A., & Aguayo, V. M. (2007). Prenatal multiple micronutrient supplementation has greater impact on birthweight than supplementation with iron and folic acid: A cluster-randomized, double-blind, controlled programmatic study in rural Niger. *Food and Nutrition Bulletin*, 28(3), 317–327. <https://doi.org/10.1177/156482650702800308>
- Zelalem, A., Endeshaw, M., Ayenew, M., Shiferaw, S., & Yirgu, R. (2017). Effect of Nutrition Education on Pregnancy Specific Nutrition Knowledge and Healthy Dietary Practice among Pregnant Women in Addis Ababa. *Clinics in Mother and Child Health*, 14(3). <https://doi.org/10.4172/2090-7214.1000265>
- Zhang P, Dong L, Chen H, Chai Y, L. J. (2018). The rise and need for mobile apps for maternal and child health care in China: survey based on app markets. *JMIR Mhealth Uhealth*, 6(6). <https://doi.org/doi:10.2196>
- Zhang, Y., Wu, Q., Wang, W., Van Velthoven, M. H., Chang, S., Han, H., ... Scherpbier, R. W. (2016). Effectiveness of complementary food supplements and dietary counselling on anaemia and stunting in children aged 6-23 months in poor areas of Qinghai Province, China: A controlled interventional study. *BMJ Open*, 6(10), 1–13. <https://doi.org/10.1136/bmjopen-2016-011234>

Lampiran-lampiran



**KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS HASANUDDIN
FAKULTAS KESEHATAN MASYARAKAT
KOMITE ETIK PENELITIAN KESEHATAN**

Sekretariat :
Jl. Perintis Kemerdekaan Km. 10 Makassar 90245, Telp. (0411) 585658, 516-005,
Fax (0411) 586013E-mail : kepkfkmuh@gmail.com, website : www.fkm.unhas.ac.id

REKOMENDASI PERSETUJUAN ETIK

Nomor : 1695/UN4.14.1/TP.02.02/2021

Tanggal : 25 Februari 2021

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

No.Protokol	3320093007	No. Sponsor Protokol	
Peneliti Utama	Abd. Farid Lewa	Sponsor	Pribadi
Judul Peneliti	Pengaruh Pemberian Multimicronutrient (Mmn) Dan Edukasigizi Berbasis Aplikasi Pada Ibu Terhadap Tumbuh Kembangbayi Usia 0-6 Bulan Di Kabupaten Banggai		
No.Versi Protokol	I	Tanggal Versi	03 Maret 2020
No.Versi PSP	I	Tanggal Versi	03 Maret 2020
Tempat Penelitian	Kabupaten Banggai		
Judul Review	<input type="checkbox"/> Exempted <input type="checkbox"/> Expedited <input checked="" type="checkbox"/> Fullboard	Masa Berlaku 25 Februari 2021 sampai 25 Februari 2022	Frekuensi review lanjutan
Ketua Komisi Etik Penelitian	Nama : Prof.dr. Veni Hadju,M.Sc,Ph.D	Tanda tangan 	Tanggal 25 Februari 2021
Sekretaris komisi Etik Penelitian	Nama : Dr. Wahiduddin, SKM., M.Kes	Tanda tangan 	Tanggal 25 Februari 2021

Kewajiban Peneliti Utama :

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



PEMERINTAH KABUPATEN BANGGAI
DINAS KESEHATAN

Jalan Jend. Ahmad Yani No. 20 Telp./ Fax 0461 - 324790 / 21199 Luwuk



SURAT KETERANGAN
 No : 800/ *7240* / Dinkes

Yang bertanda tangan di bawah ini :

Nama : Dr. dr. H. Anang S. Otoluwa, MPPM
 Nip : 19670121 199803 1 006
 Jabatan : Kepala Dinas Kesehatan Kabupaten Banggai

Dengan ini menerangkan bahwa :

Nama : **ABD. FARID LEWA**
 NIM : K013181001
 Judul : "Pengaruh Pemberian Multimicronutrient (MMN) Dan Edukasi Gizi Berbasis Aplikasi Pada Ibu Terhadap Tumbuh Kembang Bayi Usia 0-6 Bulan di Kabupaten Banggai"

Yang bersangkutan telah selesai melaksanakan penelitian di wilayah kerja Dinas Kesehatan Kabupaten Banggai pada tanggal 01 Maret 2021.

Demikian surat keterangan ini diberikan kepada yang bersangkutan untuk digunakan dimana perlunya.

Luwuk, 01 Maret 2021





PEMERINTAH KABUPATEN BANGGAI
DINAS PENANAMAN MODAL DAN
PELAYANAN TERPADU SATU PINTU (DPMPTSP)
JL. JEND. AHMAD YANI NO. 12 TELP. 0461 -21620 LUWUK – KAB. BANGGAI
SULAWESI TENGAH

IZIN PENELITIAN

Nomor : 503/015/DPMPTSP/IP/III/2020

- Dasar : 1. Surat Permohonan Izin Penelitian Sdr. Abd. Farid Lewa,
tanggal 13 Maret 2020.
 2. Rekomendasi Badan Kesatuan Bangsa dan Politik Kabupaten Banggai
Nomor : 070/52/BKB-P/2020, tanggal 17 Maret 2020.

Diberikan Izin Penelitian kepada :

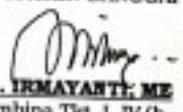
Nama	: ABD. FARID LEWA
Pekerjaan	: Dosen
NIM	: K013181001
Alamat	: Jl. Karana BTN 2 Blok C/23 Mamboyo Kota Palu
Lembaga	: Universitas Hasanuddin Makassar
Fakultas	: Kesehatan Masyarakat
Penanggung Jawab	: Dekan Fakultas Kesehatan Masyarakat
Judul Penelitian	: Pengaruh Pemberian Multimicronutrient (MMN) Dan Edukasi Gizi Berbasis Aplikasi Pada Ibu Terhadap Tumbuh Kembang Bayi Usia 0-6 Bulan Di Kabupaten Banggai.
Daerah Penelitian	: Kabupaten Banggai

Dengan ketentuan-ketentuan Sebagai berikut :

1. Tidak dibenarkan mengadakan kegiatan yang tidak sesuai dengan penelitian yang dimaksud;
2. Mematuhi peraturan perundang-undangan yang berlaku serta mengindahkan norma dan adat istiadat setempat;
3. Apabila masa berlaku izin penelitian ini sudah berakhir dan pelaksanaannya belum selesai maka diwajibkan mengajukan perpanjangan Izin Penelitian;
4. Apabila tidak memenuhi ketentuan seperti tersebut di atas maka Izin Penelitian ini dicabut dan dinyatakan tidak berlaku.
5. Izin Penelitian ini mulai berlaku selama 1 (satu) tahun sejak tanggal dikeluarkan sampai dengan **17 Maret 2021**.

Dikeluarkan di Luwuk
Pada Tanggal 17 Maret 2020

PIL. KEPALA DINAS PENANAMAN MODAL DAN
PELAYANAN TERPADU SATU PINTU
KABUPATEN BANGGAI


Drs. IRMAYANTI, ME
 Pembina Tkt. I, IV/b
 NIP. 19670701 199803 2 002