



REFERENCES

- Abay Kassa Tekile, Ashenafi Abate Woya and Garoma Wakjira Basha (2019). Prevalence of malnutrition and associated factors among under-five children in Ethiopia: Evidence from the 2016 Ethiopia Demographic and Health Survey, Research Notes 12(1) DOI:10.1186/s13104-019-4444-4.
- Abel Gebre, Surender Reddy, Afework Mulugeta, Yayo Sedik, and Molla Kahssay (2019). Prevalence of Malnutrition and Associated Factors among Under-Five Children in Pastoral Communities of Afar Regional State, Northeast Ethiopia: A Community-Based Cross-Sectional Study. *Journal of Nutrition and Metabolism* 10.1155/2019/9187609
- Abubakar, A. et al. (2012) 'Prevalence and risk factors for poor nutritional status among children in the Kilimanjaro Region of Tanzania', International Journal of Environmental Research and Public Health, 9(10), pp. 3506–3518. Available at: <https://doi.org/10.3390/ijerph9103506>.
- Admassu M, Tegegne AS, (2021). Factors Associated Contraceptive Use in Ethiopian: A Generalized Linear Mixed Effect Model. *Ethiop J Health Sci.* 31(3):457-466. doi: 10.4314/ejhs.v31i3.2. PMID: 34483602; PMCID: PMC8365491.
- Alderman, H. and Headey, D.D. (2017) 'How Important is Parental Education for Child Nutrition?', *World Development*, 94, pp. 448–464. Available at: <https://doi.org/10.1016/j.worlddev.2017.02.007>.
- Amare, Zerihun Yohannes, Mossa Endris Ahmed, and Adey Belete Meharie. 2019 Determinants of Nutritional Status among Children under Age 5 in Ethiopia: Further Analysis of the 2016 Demographic and Health Survey. DHS Working Paper No. 156. Rockville, Maryland, USA: ICF.
- Aneweke, T. and Kumar, S. 2012, 'The effect of a vaccination program on child anthropometry: evidence from India's Universal Immunization Program', *Journal of Public Health*, vol. 34, no. 4, pp. 489–497.
- Assefa, B. and Tadele, H. (2020) 'Severe Acute Malnutrition among Unoperated Ethiopian Children with Congenital Heart Disease: A Wake-up Call to Reverse the Situation, A



Retrospective Cross-Sectional Study', *Ethiopian journal of health sciences*, 30(5), pp.

707–714. Available at: <https://doi.org/10.4314/ejhs.v30i5.9>

Badake, Q.D. et al. (2014) 'NUTRITIONAL STATUS OF CHILDREN UNDER FIVE YEARS AND ASSOCIATED FACTORS IN MBEERE SOUTH DISTRICT , KENYA Nutritional status of children is an indicator of the level of development and future potential of the community . The nutritional status of infants an', *African Crop Science Journal*, 22(s4), pp. 799–806.

Bégin, F., Frongillo, E.A. and Delisle, H. (1999) 'Caregiver behaviors and resources influence child height-for-age in rural Chad', *Journal of Nutrition*, 129(3), pp. 680–686. Available at: <https://doi.org/10.1093/jn/129.3.680>.

Belay DG, Chilot D, Alem AZ, Aragaw FM, Asratie MH. Spatial distribution and associated factors of severe malnutrition among under-five children in Ethiopia: further analysis of 2019 mini EDHS. *BMC Public Health*. 2023 Apr 28;23(1):791. doi: 10.1186/s12889-023-15639-2. PMID: 37118793; PMCID: PMC10142160.

Berihun G, Adane M, Walle Z, Abebe M, Alemnew Y, Natnael T, Andualem A, Ademe S, Tegegne B, Teshome D, Berhanu L. Access to and challenges in water, sanitation, and hygiene in healthcare facilities during the early phase of the COVID-19 pandemic in Ethiopia: A mixed-methods evaluation. *PLoS One*; 17(5):e0268272. doi: 10.1371/journal.pone.0268272. PMID: 35560168; PMCID: PMC9106162.

Birara M Yalew (2014). Prevalence of Malnutrition and Associated Factors among Children Age 6-59 Months at Lalibela Town Administration, North WolloZone, Anrs, Northern Ethiopia. *Journal Article - Nutritional Disorders & Therapy*.

Black, R.E. et al. (2013) 'Maternal and child undernutrition and overweight in low-income and middle-income countries', *The Lancet*, 382(9890), pp. 427–451. Available at: [https://doi.org/10.1016/S0140-6736\(13\)60937-X](https://doi.org/10.1016/S0140-6736(13)60937-X).

Bloss, E., Wainaina, F. and Bailey, R.C. (2004) 'Prevalence and predictors of underweight, stunting, and wasting among children aged 5 and under in Western Kenya', *Journal of Tropical Pediatrics*, 50(5), pp. 260–270. Available at: <https://doi.org/10.1093/tropej/50.5.260>.



UNIVERSITAS
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Prevalence and Determinants of Malnutrition Among Children Under Five in Ethiopia: Ethiopian Mini Demographic Health Survey (EMDHS) 2019
Dawit Ayenew Degu, Dr. Mubasysyir Hasanbasri; Dr. Tony Arjuna; Dr. Vicka Oktaria; Dr. Bayu Satria Wiratama
Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Bourke, C.D., Berkley, J.A. and Prendergast, A.J. (2016) ‘Immune Dysfunction as a Cause and Consequence of Malnutrition’, Trends in Immunology, 37(6), pp. 386–398. Available at: <https://doi.org/10.1016/j.it.2016.04.003>.

Burton, M.J. et al. (2015) ‘Pathogenesis of Progressive Scarring Trachoma in Ethiopia and Tanzania and Its Implications for Disease Control: Two Cohort Studies’, PLoS Neglected Tropical Diseases, 9(5), pp. 1–23. Available at: <https://doi.org/10.1371/journal.pntd.0003763>.

Central Statistical Agency [Ethiopia] and ICF International (2012) ‘Ethiopia Demographic and Health Survey 2011’, pp. 1–452.

Chase, C. and Ngure, F.M. (2016) ‘Multisectoral Approaches to Improving Nutrition: Water, Sanitation, and Hygiene’, Wsp.Org, (February), p. 42 pp.

Dewey, K.G. and Begum, K. (2011) ‘Long-term consequences of stunting in early life’, Maternal and Child Nutrition, 7(SUPPL. 3), pp. 5–18. Available at: <https://doi.org/10.1111/j.1740-8709.2011.00349.x>.

Donna Harris, Sarah Baird, Kath Ford, Kalle Hirvonen, Nicola Jones, Munir Kassa, Christian Meyer, Alula Pankhurst, Christina Wieser, and Tassew Woldehanna, (2021). The Impact of COVID-19 in Ethiopia: Policy Brief.

Donna Harris, Sarah Baird, Kath Ford, Kalle Hirvonen, Nicola Jones, Munir Kassa, Christian Meyer, Alula Pankhurst, Christina Wieser, and Tassew Woldehanna, (2021). The Impact of COVID-19 in Ethiopia: Policy Brief.

Egbon, O. A., Belachew, A. M., & Bogoni, M. A. (2022). Risk factors of concurrent malnutrition among children in Ethiopia: a bivariate spatial modeling approach. All Life, 15(1), 512–536. <https://doi.org/10.1080/26895293.2022.2067251>

Ekwochi, U. et al. (2016) ‘Food taboos and myths in South Eastern Nigeria: The belief and practice of mothers in the region’, Journal of Ethnobiology and Ethnomedicine, 12(1), pp. 1–6. Available at: <https://doi.org/10.1186/s13002-016-0079-x>.

Eshete, T. et al. (2018) ‘Determinants of inadequate minimum dietary diversity among children aged 6-23months in Ethiopia: Secondary data analysis from Ethiopian Demographic and



UNIVERSITAS
GADJAH MADA
Health Survey 2016', Agriculture and Food Security, 7(1), pp. 1–8. Available at:
<https://doi.org/10.1186/s40066-018-0219-8>.

Ethiopian Public Health Institute (EPCI) and ICF (2021) Ethiopia Mini Demographic and Health Survey 2019: Final Report. Available at:
<https://dhsprogram.com/pubs/pdf/FR363/FR363.pdf>.

Ethiopian Public Health Institute Addis Ababa (2019) Ethiopia Mini Demographic and Health Survey, FEDERAL DEMOCRATIC REPUBLIC OF ETHIOPIA Ethiopia.

Food and Nutrition Policy (2018) Federal Democratic Republic of Ethiopia: Food and Nutrition Policy. Addis Ababa, Ethiopia.

Girma, Woldemariam and Timotius Genebo. 2002. Determinants of Nutritional Status of Women and Children in Ethiopia. Calverton, Maryland, USA: ORC Macro.

Godana, W. and Mengistie, B. (2013) 'Determinants of acute diarrhoea among children under five years of age in Derashe District, Southern Ethiopia.', *Rural and remote health*, 13(3), p. 2329. Available at: <https://doi.org/10.22605/rrh2329>.

Gujarati, D.N. (2004) Basic Econometrics. 4th Edition, McGraw-Hill Companies.

Hien, N.N. and Kam, S. (2008) 'Nutritional status and the characteristics related to malnutrition in children under five years of age in Nghean, Vietnam', *Journal of Preventive Medicine and Public Health*, 41(4), pp. 232–240. Available at:
<https://doi.org/10.3961/jpmph.2008.41.4.232>.

Hosmer D. W., and Lemeshow S., (2000). *Applied Logistic Regression, Second Edition*. New York, USA: John Wiley and Sons.

Humphrey, J.H. (2009) 'Child undernutrition, tropical enteropathy, toilets, and handwashing', *The Lancet*, 374(9694), pp. 1032–1035. Available at: [https://doi.org/10.1016/S0140-6736\(09\)60950-8](https://doi.org/10.1016/S0140-6736(09)60950-8).

Islam, M.R. et al. (2020) 'Reducing childhood malnutrition in Bangladesh: The importance of addressing socio-economic inequalities', *Public Health Nutrition*, 23(1), pp. 72–82. Available at: <https://doi.org/10.1017/S136898001900140X>.



Jude, C.K., Chukwunedum, A.U. and Egbuna, K.O. (2019) ‘Under-five malnutrition in a south-Eastern Nigeria Metropolitan City’, *African Health Sciences*, 19(4), pp. 3078–3084.
Available at: <https://doi.org/10.4314/ahs.v19i4.29>.

Karl L Wuensch, (2014) [Binary logistic regression with SPSS](#) Journal Retrieved May, vol 18, pp. 2014-2015.

Kebede D, Merkeb Y, Worku E, Aragaw H. (2021). Prevalence of undernutrition and potential risk factors among children under 5 years of age in Amhara Region, Ethiopia: evidence from 2016 Ethiopian Demographic and Health Survey. *Journal of Nutritional Science.*;10:e22. doi:10.1017/jns.2021.17

Kebede, D. et al. (2021) ‘Prevalence of undernutrition and potential risk factors among children under 5 years of age in Amhara Region, Ethiopia: evidence from 2016 Ethiopian Demographic and Health Survey’, *Journal of Nutritional Science*, 10. Available at: <https://doi.org/10.1017/jns.2021.17>.

Kejo, D. et al. (2018) ‘Prevalence and predictors of undernutrition among underfive children in Arusha District, Tanzania’, *Food Science and Nutrition*, 6(8), pp. 2264–2272. Available at: <https://doi.org/10.1002/fsn3.798>.

Kennedy, G.L. et al. (2007) ‘Dietary diversity score is a useful indicator of micronutrient intake in non-breast-feeding Filipino children’, *Journal of Nutrition*, 137(2), pp. 472–477. Available at: <https://doi.org/10.1093/jn/137.2.472>.

Khamis, A.G. et al. (2019) ‘The influence of dietary diversity on the nutritional status of children between 6 and 23 months of age in Tanzania’, *BMC Pediatrics*, 19(1), pp. 1–9. Available at: <https://doi.org/10.1186/s12887-019-1897-5>.

Khanal, V., Sauer, K. and Zhao, Y. (2013) ‘Determinants of complementary feeding practices among Nepalese children aged 6-23 months: Findings from demographic and health survey 2011’, *BMC Pediatrics*, 13(1). Available at: <https://doi.org/10.1186/1471-2431-13-131>.

Kuse KA, Bacha RH, Wudu TK, Tegegne KT, Bora BB, et al. (2023). Prevalence and Determinants of Stunting and Wasting On Children Under-Five Years in Ethiopia. *J Neonatol Clin Pediatr* 10: 105.



Kuzma, J., Paofa, D., Kaugla, N., Catherina, T., Samiak, S. and Kumei, E., 2013. Food taboos and traditional customs among pregnant women in Papua New Guinea: missed opportunity for education in antenatal clinics. *Contemporary PNG Studies*, 19, p.1.

Lomazzi, M., Borisch, B. and Laaser, U. (2014) ‘The Millennium Development Goals: Experiences, achievements and what’s next’, Global Health Action, 7(SUPP.1). Available at: <https://doi.org/10.3402/gha.v7.23695>.

Martínez Pérez, G. and Pascual García, A. (2013) ‘Nutritional Taboos among the Fullas in Upper River Region, The Gambia’, Journal of Anthropology, 2013, pp. 1–9. Available at: <https://doi.org/10.1155/2013/873612>.

Meron Tedla et al. (2024). Prevalence and associated factors of malnutrition among under-five children living in slum areas of Bahir Dar Town, Ethiopia. Pan African Medical Journal.47:176. [doi: 10.11604/pamj.2024.47.176.33439]

Novignon, J. et al. (2015) ‘Socioeconomic-related inequalities in child malnutrition: evidence from the Ghana multiple indicator cluster survey’, *Health Economics Review*, 5(1), pp. 1–11. Available at: <https://doi.org/10.1186/s13561-015-0072-4>.

Obasohan, P.E. et al. (2020) ‘Risk factors associated with malnutrition among children under-five years in sub-saharan african countries: A scoping review’, International Journal of Environmental Research and Public Health, 17(23), pp. 1–24. Available at: <https://doi.org/10.3390/ijerph17238782>.

Paramashanti, B.A., Paratmanitya, Y. and Marsiswati, M. (2017) ‘Individual dietary diversity is strongly associated with stunting in infants and young children’, Jurnal Gizi Klinik Indonesia, 14(1), p. 19. Available at: <https://doi.org/10.22146/ijcn.15989>.

Park, Hyeoun-Ae. (2013). an Introduction to Logistic Regression: From Basic Concepts to Interpretation with Particular Attention to Nursing Domain *Korean Acad Nurs* Vol.43 (2), 154-164.

Pelletier, D.L. et al. (1995) ‘The effects of malnutrition on child mortality in developing countries’, Bulletin of the World Health Organization, 73(4), pp. 443–448.



UNIVERSITAS
GADJAH MADA

Prevalence and Determinants of Malnutrition Among Children Under Five in Ethiopia: Ethiopian Mini Demographic Health Survey (EMDHS) 2019
Dawit Ayenew Degu, Dr. Mubasysyir Hasanbasri; Dr. Tony Arjuna; Dr. Vicka Oktaria; Dr. Bayu Satria Wiratama
Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Perkins, J.M., Jayatissa, R. and Subramanian, S. V. (2018) ‘Dietary diversity and anthropometric status and failure among infants and young children in Sri Lanka’, *Nutrition*, 55–56, pp. 76–83. Available at: <https://doi.org/10.1016/j.nut.2018.03.049>.

Poda, G.G., Hsu, C.Y. and Chao, J.C.J. (2017) ‘Factors associated with malnutrition among children <5 years old in Burkina Faso: Evidence from the Demographic and Health Surveys IV 2010’, *International Journal for Quality in Health Care*, 29(7), pp. 901–908. Available at: <https://doi.org/10.1093/intqhc/mzx129>.

Rahman, M.S. et al. (2020) ‘Prevalence of undernutrition in Bangladeshi children’, *Journal of Biosocial Science*, 52(4), pp. 596–609. Available at: <https://doi.org/10.1017/S0021932019000683>.

Raru, T.B., Ayana, G.M., Merga, B.T. et al. Magnitude of under-nutrition among under five children in Ethiopia based on 2019 Mini-Ethiopia Demographic and Health Survey: Generalized Linear Mixed Model (GLMM). *BMC Nutr* 8, 113 (2022). <https://doi.org/10.1186/s40795-022-00598-5>

Ruwali D (2011) ‘Nutritional Status of Children Under Five Years of Age and Factors Associated in Padampur VDC , Chitwan’, *Health Prospect*, 10, pp. 14–18. Available at: <https://www.nepjol.info/index.php/HPROSPECT/article/view/5639>.

Schmidt, C.W. (2014) ‘Beyond malnutrition: The role of sanitation in stunted growth’, *Environmental Health Perspectives*, 122(11), pp. A298–A303. Available at: <https://doi.org/10.1289/ehp.122-A298>.

Seboka BT, Alene TD, Ngusie HS, Hailegebreal S, Yehualashet DE, Gilano G, Ahmed MH, Kabthymer RH, Kanno GG, Tesfa GA. Spatial Variations and Determinants of Acute Malnutrition Among Under-Five Children in Ethiopia: Evidence from 2019 Ethiopian Demographic Health Survey. *Annals of Global Health*. 2021; 87(1): 114, 1–18. DOI: <https://doi.org/10.5334/aogh.3500>

Senarath, U. et al. (2012) ‘Determinants of inappropriate complementary feeding practices in young children in Sri Lanka: Secondary data analysis of Demographic and Health Survey 2006-2007’, *Maternal and Child Nutrition*, 8(SUPPL. 1), pp. 60–77. Available at: <https://doi.org/10.1111/j.1740-8709.2011.00375.x>.



UNIVERSITAS
GADJAH MADA

Prevalence and Determinants of Malnutrition Among Children Under Five in Ethiopia: Ethiopian Mini Demographic Health Survey (EMDHS) 2019
Dawit Ayenew Degu, Dr. Mubasysyir Hasanbasri; Dr. Tony Arjuna; Dr. Vicka Oktaria; Dr. Bayu Satria Wiratama
Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Shariff, Z.M. et al. (2015) 'The relationship between household income and dietary intakes of 1-10 year old urban Malaysian', *Nutrition Research and Practice*, 9(3), pp. 278–287. Available at: <https://doi.org/10.4162/nrp.2015.9.3.278>.

Shim, J.E. et al. (2011) 'Associations of infant feeding practices and picky eating behaviors of preschool children.', *Journal of the American Dietetic Association*, 111(9), pp. 1363–1368. Available at: <https://doi.org/10.1016/j.jada.2011.06.410>.

Tadesse Tarik Tamir, Masresha Asmare Techane, Melkamu Tilahun Dessie, Kendalem Asmare Atalell, (2022). Applied nutritional investigation spatial variation and determinants of stunting among children aged less than 5 year in Ethiopia: A spatial and multilevel analysis of Ethiopian Demographic and Health Survey 2019, *Nutrition*, Volumes 103–104, 111786,

Tekile, A.K., Woya, A.A. & Basha, G.W. (2019). Prevalence of malnutrition and associated factors among under-five children in Ethiopia: evidence from the 2016 Ethiopia Demographic and Health Survey. *BMC Res Notes* 12, 391. <https://doi.org/10.1186/s13104-019-4444-4>

Udoh, E.E. and Amodu, O.K. (2016) 'Complementary feeding practices among mothers and nutritional status of infants in Akpabuyo Area, Cross River State Nigeria', *SpringerPlus*, 5(1). Available at: <https://doi.org/10.1186/s40064-016-3751-7>.

Urke, H.B., Bull, T. and Mittelmark, M.B. (2011) 'Socioeconomic status and chronic child malnutrition: Wealth and maternal education matter more in the Peruvian Andes than nationally', *Nutrition Research*, 31(10), pp. 741–747. Available at: <https://doi.org/10.1016/j.nutres.2011.09.007>.

Vaidyanathan, A. (2004) Book Review: The Double Burden of Malnutrition in Asia: Causes, Consequences and Solutions, Science, Technology and Society. Available at: <https://doi.org/10.1177/097172180400900207>.

Vitta, B.S. et al. (2016) 'Infant and young child feeding practices among children under 2years of age and maternal exposure to infant and young child feeding messages and promotions in Dar es Salaam, Tanzania', *Maternal and Child Nutrition*, 12, pp. 77–90. Available at: <https://doi.org/10.1111/mcn.12292>.



UNIVERSITAS
GAJAH MADA

Prevalence and Determinants of Malnutrition Among Children Under Five in Ethiopia: Ethiopian Mini Demographic Health Survey (EMDHS) 2019
Dawit Ayenew Degu, Dr. Mubasysyir Hasanbasri; Dr. Tony Arjuna; Dr. Vicka Oktaria; Dr. Bayu Satria Wiratama
Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

World Bank, (2020). Ethiopia Poverty Assessment: Poverty Rate Declines, Despite Challenges..

Yirga, A.A. *et al.* (2019) ‘Factors affecting child malnutrition in Ethiopia’, *African Health Sciences*, 19(2), pp. 1897–1909. Available at: <https://doi.org/10.4314/ahs.v19i2.13>.

Zeray, A., Kibret, G.D. and Leshargie, C.T. (2019) ‘Prevalence and associated factors of undernutrition among under-five children from model and non-model households in east Gojjam zone, Northwest Ethiopia: A comparative cross-sectional study’, *BMC Nutrition*, 5(1), pp. 1–10. Available at: <https://doi.org/10.1186/s40795-019-0290-y>.

Zerfu, T.A., Umeta, M. and Baye, K. (2016) ‘Dietary habits, food taboos, and perceptions towards weight gain during pregnancy in Arsi, rural central Ethiopia: a qualitative cross-sectional study’, *Journal of health, population, and nutrition*, 35(1), p. 22. Available at: <https://doi.org/10.1186/s41043-016-0059-8>.

Zerihun Yohannes Amare, Mossa Endris Ahmed, AdeyBelete Mehari (2019) Determinants of Nutritional Status among Children Under five age in Ethiopia: A Further Analysis of the Ethiopian Demographic and Health Survey (EDHS) 2016 Data. Cold Spring Harbor Laboratory <https://doi.org/10.1101/698308>.

Zhang, Y.Q. et al. (2021) ‘Stunting, wasting, overweight and their coexistence among children under 7 years in the context of the social rapidly developing: Findings from a population-based survey in nine cities of China in 2016’, *PLoS ONE*, 16(1 January), pp. 1–15. Available at: <https://doi.org/10.1371/journal.pone.0245455>.