

CHILD MALNUTRITION IN CAMBODIA

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FOOTNOTES

1. "Anemia," *Mayo Clinic*, August 16, 2019, accessed January 25, 2022, <https://www.mayoclinic.org/diseases-conditions/anemia/symptoms-causes/syc-20351360#:~:text=xt=>.
2. "Colostrum: What Is It, Benefits & What to Expect," *Cleveland Clinic*, accessed July 19, 2022, <https://my.clevelandclinic.org/health/body/22434-colostrum>.
3. "Energy Intake," *ScienceDirect Topics*, accessed July 20, 2022, <https://www.sciencedirect.com/topics/food-science/energy-intake#:~:text=Energy%20intake%20is%20defined%20as,Food%2C%20Diet%20and%20Obesity%2C%202005>.
4. "Enteric Bacteria: What Are They, Effects on Health, and More," *Osmosis*, accessed July 3, 2022, <https://www.osmosis.org/answers/enteric-bacteria>.
5. Claus Leitzmann, "Adequate Diet of Essential Nutrients for Healthy People," *The Role of Food, Agriculture, Forestry and Fisheries in Human Nutrition* 4 (2009): 1–9, <https://www.eolss.net/sample-chapters/c10/E5-01A-06-01.pdf>.
6. Heather Alexander, "What Are Macronutrients?" *MD Anderson Cancer Center*, June 5, 2020, <https://www.mdanderson.org/publications/focused-on-health/what-are-macronutrients-.h15-1593780.html#:~:text=Carbohydrates%2C%20fat%20and%20protein%20are,Anderson%20Wellness%20Dietitian%20Lindsey%20Wohlford>.
7. "Micronutrients," *World Health Organization*, accessed June 17, 2022, https://www.who.int/health-topics/micronutrients#tab=tab_1.
8. "NCI Dictionary of Cancer Terms," *National Cancer Institute*, accessed February 21, 2022, <https://www.cancer.gov/publications/dictionaries/cancer-terms/def/morbidity>.
9. "Mortality Definition & Meaning," *Merriam-Webster*, accessed September 21, 2022, <https://www.merriam-webster.com/dictionary/mortality>.
10. "Neonatal Definition & Meaning," *Merriam-Webster*, accessed May 4, 2022, <https://www.merriam-webster.com/dictionary/neonatal>.
11. "Malnutrition," *World Health Organization*, accessed May 4, 2022, https://www.who.int/health-topics/malnutrition#tab=tab_1.
12. "Stunting in a Nutshell," *World Health Organization*, November 19, 2015, <https://www.who.int/news/item/19-11-2015-stunting-in-a-nutshell>.
13. Chau Darapheak et al., "Consumption of Animal Source Foods and Dietary Diversity Reduce Stunting in Children in Cambodia," *International Archives of Medicine* 6, no. 1 (2013): 1–11, <http://doi.org/10.1186/1755-7682-6-29>.
14. "Malnutrition," World Health Organization.
15. Claus Leitzmann, "Adequate Diet of Essential Nutrients for Healthy People."
16. "Malnutrition," World Health Organization.
17. Stephen J. Frese, "Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families," accessed October 5, 2022, https://www.worldfoodprize.org/documents/filelibrary/images/youth_programs/research_papers/2005_papers/MarshalltownHighSchool_A3AB13BE635B9.pdf.
18. Claus Leitzmann, "Adequate Diet of Essential Nutrients for Healthy People."
19. Ibid.
20. "Essential Nutrition Actions: Improving Maternal, Newborn, Infant and Young Child Health and Nutrition," *World Health Organization*, June 2013, <https://www.who.int/publications/i/item/9789241505550>.
21. "Office of Dietary Supplements - Vitamin A and Carotenoids," *NIH Office of Dietary Supplements*, US Department of Health and Human Services, accessed June 7, 2022, <https://ods.od.nih.gov/factsheets/VitaminA-HealthProfessional/>.

22. Şenay Çetinkaya, "The Growth and Development in Healthy Child," *Contemporary Pediatrics*, IntechOpen, 2012, <https://www.intechopen.com/chapters/31654>.
23. Ibid.
24. "National Center for Biotechnology Information," *StatPearls*, accessed June 23, 2022, <https://www.ncbi.nlm.nih.gov/books/NBK560758/>.
25. Ibid.
26. Claus Leitzmann, "Adequate Diet of Essential Nutrients for Healthy People."
27. "Essential Nutrition Actions: Improving Maternal, Newborn, Infant and Young Child Health and Nutrition," World Health Organization.
28. Claus Leitzmann, "Adequate Diet of Essential Nutrients for Healthy People."
29. "Vitamin A," *The Nutrition Source*, July 2, 2019, <https://www.hsph.harvard.edu/nutritionsource/vitamin-a/>.
30. "Office of Dietary Supplements - Iron," *NIH Office of Dietary Supplements*, US Department of Health and Human Services, accessed June 7, 2022, <https://ods.od.nih.gov/factsheets/Iron-HealthProfessional/>.
31. Ibid.
32. "Iron Deficiency Anemia," *Mayo Clinic*, Mayo Foundation for Medical Education and Research, January 4, 2022, <https://www.mayoclinic.org/diseases-conditions/iron-deficiency-anemia/symptoms-causes/syc-20355034>.
33. "Office of Dietary Supplements - Iodine," *NIH Office of Dietary Supplements*, US Department of Health and Human Services, accessed June 7, 2022, <https://ods.od.nih.gov/factsheets/Iodine-HealthProfessional/>.
34. Ibid.
35. "Iodine," *The Nutrition Source*, October 19, 2021, <https://www.hsph.harvard.edu/nutritionsource/iodine/>.
36. "Office of Dietary Supplements - Zinc," *NIH Office of Dietary Supplements*, US Department of Health and Human Services, accessed July 18, 2022, <https://ods.od.nih.gov/factsheets/Zinc-HealthProfessional/>.
37. "Thiamin," *Mayo Clinic*, Mayo Foundation for Medical Education and Research, November 14, 2020, <https://www.mayoclinic.org/drugs-supplements-thiamin/art-20366430>.
38. "Joint Child Malnutrition Estimates," *World Health Organization*, accessed May 16, 2022, <https://www.who.int/data/gho/data/themes/topics/joint-child-malnutrition-estimates-unicef-who-wb>.
39. "Global Population of Children 2100," *Statista*, June 22, 2022, <https://www.statista.com/statistics/678737/total-number-of-children-worldwide/>.
40. Wei-Jun Jean Yeung, "Child Health in Southeast Asia," *Demographic and Family Transition in Southeast Asia* (2022): 99–108, http://doi.org/10.1007/978-3-030-85679-3_7.
41. Ibid.
42. "Unlocking Cambodia's Future by Significantly Reducing Rates of Child Malnutrition - Cambodia," *ReliefWeb*, November 22, 2019, <https://reliefweb.int/report/cambodia/unlocking-cambodia-s-future-significantly-reducing-rates-child-malnutrition>.
43. "Malnutrition in Children," *World Health Organization*, accessed May 30, 2022, <https://www.who.int/data/nutrition/nlis/info/malnutrition-in-children>.
44. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians," *Asian Journal of Agriculture and Food Sciences* 4, no. 1 (2016).
45. "Dietary Recommendations for Healthy Children," *Heart*, July 6, 2021, <https://www.heart.org/en/healthy-living/healthy-eating/eat-smart/nutrition-basics/dietary-recommendations-for-healthy-children>.
46. Stephen J. Frese, "Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families."
47. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
48. Stephen J. Frese, "Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families."

49. "Unlocking Cambodia's Future by Significantly Reducing Rates of Child Malnutrition - Cambodia," *ReliefWeb*, November 22, 2019, <https://reliefweb.int/report/cambodia/unlocking-cambodia-s-future-significantly-reducing-rates-child-malnutrition>.
50. Stephen J. Frese, "Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families."
51. "Unlocking Cambodia's Future by Significantly Reducing Rates of Child Malnutrition - Cambodia," ReliefWeb.
52. Pheak Chhoun et al., "Social Determinants of Maternal and Child Undernutrition in Cambodia: A Systematic Review," *International Journal of Food and Nutritional Science* 3, no. 2 (2016): 331.
53. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia," *Nutrients* 10, no. 4 (2018): 500.
54. "When Breastfeeding, How Many Calories Should Moms and Babies Consume?" *Eunice Kennedy Shriver National Institute of Child Health and Human Development*, US Department of Health and Human Services, accessed June 1, 2022, <https://www.nichd.nih.gov/health/topics/breastfeeding/conditioninfo/calories>.
55. Ibid.
56. Touch Bunthang et al., "Enhancing Food Security and Household Nutrition of Women and Children with a Focus on Nutrient Dense Commonly Consumed Fish from Capture Fisheries and Aquaculture in Cambodia, Part I," *Feed The Future Innovation Lab For Collaboration Research On Aquaculture and Fisheries (Aquafish Innovation Lab)* (2016): 22.
57. Ibid.
58. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia."
59. Roland Kupka, Kendra Siekmans, and Ty Beal, "The Diets of Children: Overview of Available Data for Children and Adolescents," *Global Food Security* 27 (December 2020): 100442, <http://doi.org/10.1016/j.gfs.2020.100442>.
60. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia."
61. Roland Kupka, Kendra Siekmans, and Ty Beal, "The Diets of Children: Overview of Available Data for Children and Adolescents."
62. Britty Barrett, "Nutrition Profile of Cambodia: A Review of Current Conditions and Strategies to Prevent Macronutrient and Micronutrient Deficiencies," *Sharing Foundation*, September 2020, <https://sharingfoundation.org/wp-content/uploads/2021/03/Nutrition-Study-for-RCC-Nov-2020.pdf>.
63. Ibid.
64. Ibid.
65. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia."
66. Mary L. Gavin, "Growth and Your 1- to 2-Year-Old (for Parents)," *KidsHealth*, The Nemours Foundation, June 2019, <https://kidshealth.org/en/parents/grow12yr.html>.
67. Randle DeFalco, "Justice and Starvation in Cambodia: The Khmer Rouge Famine," *Cambodia Law & Policy Journal* 3 (December 2014), <http://cambodialpj.org/article/justice-and-starvation-in-cambodia-the-khmer-rouge-famine/>.
68. Randle DeFalco, "Justice and Starvation in Cambodia: The Khmer Rouge Famine."
69. David Chandler, "Cambodia," *Conciliation Resources*, November 1, 1998, <https://www.c-r.org/accord/cambodia/cambodias-historical-legacy>.
70. Randle DeFalco, "Justice and Starvation in Cambodia: The Khmer Rouge Famine."
71. Ibid.
72. Ibid.
73. Ibid.
74. David Chandler, "Cambodia."
75. Ibid.
76. "Prevalence of Undernourishment (% of Population) - Cambodia," *The World Bank*, accessed June 22, 2022, <https://data.worldbank.org/indicator/SN.ITK.DEFC.ZS?locations=KH>.

77. “Unlocking Cambodia's Future by Significantly Reducing Rates of Child Malnutrition - Cambodia,” *ReliefWeb*, November 22, 2019, <https://reliefweb.int/report/cambodia/unlocking-cambodia-s-future-significantly-reducing-rates-child-malnutrition>.
78. Olivier Ecker and Xinshen Diao, “Food Security and Nutrition in Cambodia: Pattern and Pathways,” *International Food Policy Research Institute, Washington DC*, 10 (March 2011), https://cdri.org.kh/storage/pdf/Special%20Report%2010e_Food%20Security%20and%20Nutrition_1620441042.pdf.
79. Janelle L. Windus et al., “Review of Dietary Assessment Studies Conducted among Khmer Populations Living in Cambodia,” *Journal of Human Nutrition and Dietetics* 35, no. 5 (April 2022): 901–918, <https://doi.org/10.1111/jhn.13011>.
80. Ibid.
81. Clarisse Vilain et al., “Fish and the Nutrition of Rural Cambodians.”
82. “Cambodia: Nutrition Profile - US Agency for International Development,” *US Aid*, accessed June 25, 2022, https://www.usaid.gov/sites/default/files/documents/tagged_Cambodia-Nutrition-Profile.pdf.
83. Stephen J. Frese, “Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families.”
84. Anika Reinbott and Irmgard Jordan, “Determinants of Child Malnutrition and Infant and Young Child Feeding Approaches in Cambodia,” *Hidden Hunger* 115 (2016): 61–67.
85. Arnaud Laillou et al., “Reducing Malnutrition in Cambodia. A Modeling Exercise to Prioritize Multisectoral Interventions,” *Maternal & Child Nutrition* 16 (2020): e12770.
86. “Cambodia: Nutrition Profile - US Agency for International Development,” *US Aid*.
87. “Cambodian National Curriculum and Human Rights Education: ヒューライツ大阪,” *HURights Osaka*, accessed July 19, 2022, https://www.hurights.or.jp/archives/human_rights_education_in_asian_schools/section2/2003/03/cambodian-national-curriculum-and-human-rights-education.html.
88. Anika Reinbott and Irmgard Jordan, “Determinants of Child Malnutrition and Infant and Young Child Feeding Approaches in Cambodia.”
89. Stephen J. Frese, “Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families.”
90. Somphos Vicheth Som et al., “Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia.”
91. “Colostrum: What Is It, Benefits & What to Expect,” *Cleveland Clinic*, accessed July 19, 2022, <https://my.clevelandclinic.org/health/body/22434-colostrum>.
92. Somphos Vicheth Som et al., “Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia.”
93. Ibid.
94. Stephen J. Frese, “Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families.”
95. Somphos Vicheth Som et al., “Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia.”
96. Ibid.
97. Arnaud Laillou et al., “Reducing Malnutrition in Cambodia. A Modeling Exercise to Prioritize Multisectoral Interventions.”
98. Lauren J. Wallace et al., “Women's Nutrient Intakes and Food-Related Knowledge in Rural Kandal Province, Cambodia,” *Asia Pacific Journal of Clinical Nutrition* 23, no. 2 (2014): 263–271.
99. Ibid.
100. Anika Reinbott and Irmgard Jordan, “Determinants of Child Malnutrition and Infant and Young Child Feeding Approaches in Cambodia.”
101. Ibid.
102. Ibid.
103. Somphos Vicheth Som et al., “Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia.”
104. Clarisse Vilain et al., “Fish and the Nutrition of Rural Cambodians.”

105. Sharon Galvin et al., "A Practical Intervention to Increase Breastfeeding Initiation among Cambodian Women in the US," *Maternal and Child Health Journal* 12, no. 4 (2008): 545–547.
106. Sreetama Chakrabarti and Abhik Chakrabarti, "Food Taboos in Pregnancy and Early Lactation among Women Living in a Rural Area of West Bengal," *Journal of Family Medicine and Primary Care* 8, no. 1 (2019): 86, https://doi.org/10.4103/jfmpc.jfmpc_53_17.
107. "Buddhism in Cambodia," *Tourism Cambodia*, accessed July 20, 2022, <https://www.tourismcambodia.com/culture/religion-and-beliefs/buddhism-in-cambodia.htm>.
108. Sharon Galvin et al., "A Practical Intervention to Increase Breastfeeding Initiation among Cambodian Women in the US."
109. Ibid.
110. Realm Köhler, Christine Lambert, and Hans K. Biesalski, "Animal-Based Food Taboos During Pregnancy and the Postpartum Period of Southeast Asian Women—A Review of Literature," *Food Research International* 115 (2019): 480–486, <https://doi.org/10.1016/j.foodres.2018.10.026>.
111. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
112. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia."
113. Clémence Schantz, "Factors Associated with Caesarean Sections in Phnom Penh, Cambodia," *Taylor & Francis*, accessed July 20, 2022, <https://www.tandfonline.com/doi/full/10.1016/j.rhm.2016.11.009#:~:text=The%20cost%20of%20an%20overnight,Cambodia%20to%20understand%20this%20increase>.
114. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
115. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia."
116. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
117. Lauren J. Wallace et al., "Women's Nutrient Intakes and Food-Related Knowledge in Rural Kandal Province, Cambodia."
118. Realm Köhler, Christine Lambert, and Hans K. Biesalski, "Animal-Based Food Taboos During Pregnancy and the Postpartum Period of Southeast Asian Women—A Review of Literature."
119. Sreetama Chakrabarti and Abhik Chakrabarti, "Food Taboos in Pregnancy and Early Lactation among Women Living in a Rural Area of West Bengal."
120. Stephen J. Frese, "Malnutrition in Cambodia: The Impact of Poverty on Food Security within Cambodian Families."
121. Bart Jacobs and Emma Roberts, "Baseline Assessment for Addressing Acute Malnutrition by Public-Health Staff in Cambodia," *Journal of Health, Population and Nutrition* 22, no. 2 (2004): 212–219, <https://www.jstor.org/stable/23498998>.
122. Mueni Mutunga et al., "The Relationship Between Wasting and Stunting in Cambodian Children: Secondary Analysis of Longitudinal Data of Children Below 24 Months of Age Followed Up Until the Age of 59 Months," *PloS One* 16, no. 11 (2021): e0259765.
123. "Exclusive Breastfeeding for Six Months Best for Babies Everywhere," *World Health Organization*, accessed June 23, 2022, <https://www.who.int/news/item/15-01-2011-exclusive-breastfeeding-for-six-months-best-for-babies-everywhere>.
124. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia."
125. Ibid.
126. Arnaud Laillou et al., "Reducing Malnutrition in Cambodia. A Modeling Exercise to Prioritize Multisectoral Interventions."
127. Ibid.
128. "Safe and Healthy Rice," *International Rice Research Institute*, September 16, 2021, <https://www.irri.org/safe-and-healthy-rice>.
129. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
130. Lutz Depenbusch et al., "Impact and Distributional Effects of a Home Garden and Nutrition Intervention in Cambodia," *Food Security* (2022): 1–17, <https://doi.org/10.1007/s12571-021-01235-y>.
131. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."

132. J. Ndawula, J. D. Kabasa, and Y. B. Byaruhanga, "Alterations in Fruit and Vegetable β -Carotene and Vitamin C Content Caused by Open-Sun Drying, Visqueen-Covered and Polyethylene-Covered Solar-Dryers," *African Health Sciences* 4, no. 2 (2004): 125–130.
133. Syeda Nusrat Jahan et al., "Comparative Study on Nutritional Quality of Sun Dried Fish and Oven..." *World Reserach Library*, accessed June 29, 2022, https://www.worldresearchlibrary.org/up_proc/pdf/1944-154098742607-10.pdf.
134. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
135. Ibid.
136. Pheak Chhoun et al., "Social Determinants of Maternal and Child Undernutrition in Cambodia: A Systematic Review," *International Journal of Food and Nutritional Science* 3, no. 2 (2016): 331.
137. Arnaud Laillou et al., "Reducing Malnutrition in Cambodia. A Modeling Exercise to Prioritize Multisectoral Interventions."
138. Ibid.
139. Kimlong Chheng and Budy P. Resosudarmo, "Land Property Rights and Food Insecurity in Rural Cambodia," *Regional Science Policy & Practice* 13, no. 6 (2021): 1911–1929, <https://doi.org/10.1111/rsp3.12418>.
140. C. M. McDonald et al., "Household Food Insecurity and Dietary Diversity as Correlates of Maternal and Child Undernutrition in Rural Cambodia," *European Journal of Clinical Nutrition* 69, no. 2 (2015): 242–246, <https://doi.org/10.1038/ejcn.2014.161>.
141. Ibid.
142. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
143. Janelle L. Windus et al., "Review of Dietary Assessment Studies Conducted among Khmer Populations Living in Cambodia," *Journal of Human Nutrition and Dietetics* (2022).
144. Claus Leitzmann, "Adequate Diet of Essential Nutrients for Healthy People," *The Role of Food, Agriculture, Forestry and Fisheries in Human Nutrition, Encyclopedia of Life Support Systems* 4 (2009): 1–9.
145. Randle DeFalco, "Justice and Starvation in Cambodia: The Khmer Rouge Famine."
146. Ibid.
147. Kimlong Chheng and Budy P. Resosudarmo, "Land Property Rights and Food Insecurity in Rural Cambodia," *Regional Science Policy & Practice* 13, no. 6 (2021): 1911–1929.
148. A. Talukder et al., "Homestead Food Production Model Contributes to Improved Household Food Security and Nutrition Status of Young Children and Women in Poor Populations. Lessons Learned from Scaling-Up Programs in Asia (Bangladesh, Cambodia, Nepal and Philippines)," *Field Actions Science Reports, The Journal of Field Actions Special Issue* 1 (2010).
149. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
150. "Enteric Bacteria: What Are They, Effects on Health, and More," *Osmosis*, accessed June 2, 2022, <https://www.osmosis.org/answers/enteric-bacteria>.
151. William A. Petri et al., "Enteric Infections, Diarrhea, and Their Impact on Function and Development," *The Journal of Clinical Investigation, American Society for Clinical Investigation*, April 2008, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2276781/>.
152. "Definition & Facts for Diarrhea," National Institute of Diabetes and Digestive and Kidney Diseases, US Department of Health and Human Services, accessed June 8, 2022, <https://www.niddk.nih.gov/health-information/digestive-diseases/diarrhea/definition-facts>.
153. Arnaud Laillou et al., "Reducing Malnutrition in Cambodia. A Modeling Exercise to Prioritize Multisectoral Interventions."
154. Ibid.
155. Ibid.
156. Chau Darapheak et al., "Consumption of Animal Source Foods and Dietary Diversity Reduce Stunting in Children in Cambodia," *International Archives of Medicine* 6, no. 1 (2013): 1–11.
157. Richard L. Guerrant et al., "Diarrhea as a Cause and an Effect of Malnutrition: Diarrhea Prevents Catch-Up Growth and Malnutrition Increases Diarrhea Frequency and Duration," *The American Journal of Tropical Medicine and Hygiene* 47, no. 1 (1992): 28–35.
158. William A. Petri et al., "Enteric Infections, Diarrhea, and Their Impact on Function and Development," *The Journal of Clinical Investigation, American Society for Clinical Investigation*, April 2008,

- [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2276781/#:~:text=Enteric%20pathogens%20that%20are%20the,\(EPEC\)%2C%20and%20EAEC](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2276781/#:~:text=Enteric%20pathogens%20that%20are%20the,(EPEC)%2C%20and%20EAEC).
159. Noel Peretti and M. A. S. Emmanuel, "Congenital Disorders of Intestinal Digestion and Absorption (Sugars, Proteins, Lipids, Ions)," *Best Practice & Research Clinical Gastroenterology* (2022): 101785, <https://doi.org/10.1016/j.bpg.2022.101785>.
 160. William A. Petri et al., "Enteric Infections, Diarrhea, and Their Impact on Function and Development."
 161. Gabriela Hondru et al., "The Interaction Between Morbidity and Nutritional Status Among Children Under Five Years Old in Cambodia: A Longitudinal Study," *Nutrients* 11, no. 7 (2019): 1527.
 162. Paul R. Hunter et al., "Water Source and Diarrhoeal Disease Risk in Children Under 5 Years Old in Cambodia: A Prospective Diary Based Study," *BMC Public Health* 13, no. 1 (2013): 1–9, <http://www.biomedcentral.com/1471-2458/13/1145>.
 163. Gabriela Hondru et al., "The Interaction Between Morbidity and Nutritional Status Among Children Under Five Years Old in Cambodia: A Longitudinal Study," *Nutrients* 11, no. 7 (2019): 1527.
 164. Chhour Y. Meng et al., "Etiology of Diarrhea in Young Children and Patterns of Antibiotic Resistance in Cambodia," *The Pediatric Infectious Disease Journal* 30, no. 4 (2011): 331–335.
 165. "E. Coli," *Mayo Clinic*, Mayo Foundation for Medical Education and Research, October 10, 2020, <https://www.mayoclinic.org/diseases-conditions/e-coli/symptoms-causes/syc-20372058>.
 166. Etienne Poirot, "Water Quality for Young Children in Cambodia—High Contamination at Collection and Consumption Level," *Wiley Online Library*, Rocky Mountain University of Health, August 24, 2020, <https://onlinelibrary.wiley.com/doi/full/10.1111/mcn.12744>.
 167. "What Is Rotavirus? Causes, Treatment, and Prevention," *WebMD*, accessed July 20, 2022, <https://www.webmd.com/children/guide/what-is-rotavirus>.
 168. Chhour Y. Meng et al., "Etiology of Diarrhea in Young Children and Patterns of Antibiotic Resistance in Cambodia."
 169. Ibid.
 170. Ibid.
 171. Mary Anne Dunkin, "Top Iron-Rich Foods List," *WebMD*, accessed February 20, 2022, <https://www.webmd.com/diet/iron-rich-foods>.
 172. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
 173. I. M. Zijp, O. Korver, L. B. Tijburg, "Effect of Tea and Other Dietary Factors on Iron Absorption," *Critical Reviews in Food Science and Nutrition*, US National Library of Medicine, accessed July 28, 2022, <https://doi.org/10.1080/10408690091189194>.
 174. "Phytate," *ScienceDirect Topics*, accessed July 21, 2022, <https://www.sciencedirect.com/topics/nursing-and-health-professions/phytate>.
 175. Valérie Greffeuille et al., "Persistent Inequalities in Child Undernutrition in Cambodia from 2000 Until Today," *Nutrients* 8, no. 5 (2016): 297.
 176. Ibid.
 177. Clarisse Vilain et al., "Fish and the Nutrition of Rural Cambodians."
 178. Kennarey Seang et al., "The The Coexistence of Malnutrition and Anemia and its Effect on Early Childhood Development among Children Aged 36-59 Months in Cambodia," *Cambodia Journal of Public Health (CJPH) of the School of Public Health at NIPH* 3, no. 2 (2022).
 179. Britty Barrett, "Nutrition Profile of Cambodia: A Review of Current Conditions and Strategies to Prevent Macronutrient and Micronutrient Deficiencies."
 180. H. Saloojee and J. M. Pettifor, "Iron Deficiency and Impaired Child Development," *BMJ (Clinical Research Ed.)* 323, no. 7326 (December 2001), <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1121846/>.
 181. Ibid.
 182. Damiano Pizzol et al., "Systematic Review and Meta-Analysis Found that Malnutrition was Associated with Poor Cognitive Development," *Acta Paediatrica* 110, no. 10 (2021): 2704–2710.
 183. Sam Peshek, "How Do Synapses Work?" *Texas A&M Today*, April 30, 2019, <https://today.tamu.edu/2018/01/05/how-do-synapses-work/>.

184. "Myelination," *ScienceDirect Topics*, accessed July 23, 2022, <https://www.sciencedirect.com/topics/medicine-and-dentistry/myelination>.
185. Damiano Pizzol et al., "Systematic Review and Meta-Analysis Found that Malnutrition was Associated with Poor Cognitive Development."
186. Regina Moench-Pfanner et al., "The Economic Burden of Malnutrition in Pregnant Women and Children Under 5 Years of Age in Cambodia," *Nutrients* 8, no. 5 (2016): 292.
187. Jianghong Liu et al., "Malnutrition at Age 3 Years and Lower Cognitive Ability at Age 11 Years: Independence from Psychosocial Adversity," *Archives of Pediatrics & Adolescent Medicine* 157, no. 6 (June 2003): 593–600, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3975917/>.
188. Ibid.
189. Alfred L. Scherzer, "Experience in Cambodia with the Use of a Culturally Relevant Developmental Milestone Chart for Children in Low- and Middle-Income Countries," *Journal of Policy and Practice in Intellectual Disabilities* 6, no. 4 (2009): 287–292.
190. Ibid.
191. "Training Module 2," *Centers for Disease Control and Prevention*, accessed July 29, 2022, <https://www.cdc.gov/ncbddd/watchmetraining/module2.html>.
192. Regina Moench-Pfanner et al., "The Economic Burden of Malnutrition in Pregnant Women and Children Under 5 Years of Age in Cambodia."
193. Ibid.
194. Armelle Forrer et al., "Strongyloides Stercoralis is Associated with Significant Morbidity in Rural Cambodia, Including Stunting in Children," *PLoS Neglected Tropical Diseases* 11, no. 10 (2017): e0005685, <https://doi.org/10.1371/journal.pntd.0005685>.
195. Ibid.
196. Ibid.
197. Regina Moench-Pfanner et al., "The Economic Burden of Malnutrition in Pregnant Women and Children Under 5 Years of Age in Cambodia."
198. Ibid.
199. "Cambodia Number of Births, 1950-2021," *Knoema*, accessed July 29, 2022, <https://knoema.com/atlas/Cambodia/topics/Demographics/Fertility/Number-of-births>.
200. Ibid.
201. "Eliminating Malnutrition," *Helen Keller Intl*, October 18, 2021, <https://www.hki.org/what-we-do/nourishing-families/eliminating-malnutrition/>.
202. Naveen Thacker et al., "Child Malnutrition During the Coronavirus Disease 2019 Pandemic," *The Journal of Pediatrics* 244 (May 2022): 257–258.e2, <https://doi.org/10.1016/j.jpeds.2022.02.010>.
203. Arnaud Laillou et al., "Reducing Malnutrition in Cambodia. A Modeling Exercise to Prioritize Multisectoral Interventions."
204. "Our History," *Helen Keller Intl*, May 18, 2022, <https://www.hki.org/who-we-are/our-history/>.
205. Ibid.
206. "Mission, Goals and Values," *Helen Keller Intl*, May 18, 2022, <https://www.hki.org/who-we-are/mission-and-vision/>.
207. Ibid.
208. "Where We Work," *Helen Keller Intl*, July 14, 2022, <https://www.hki.org/where-we-work/>.
209. "Eliminating Malnutrition," *Helen Keller Intl*, May 18, 2022, <https://www.hki.org/what-we-do/prevent-malnutrition/>.
210. "Helen Keller International," *The Life You Can Save*, June 7, 2022, <https://www.thelifeyoucansave.org/best-charities/helen-keller-international/>.
211. "Eliminating Malnutrition," Helen Keller Intl.
212. "Helen Keller International's Vitamin A Supplementation Program," *GiveWell*, accessed July 22, 2022, <https://www.givewell.org/charities/helen-keller-international>.
213. Ibid.
214. "Looking Bravely: Changing Futures in Cambodia, One Child at a Time," *Helen Keller Intl*, December 20, 2021, <https://www.hki.org/our-stories/looking-bravely-changing-futures-in-cambodia-one-child-at-a-time/>.

215. "National Vitamin A Policy Guidelines," *National Nutrition Program*, Ministry of Health, accessed August 4, 2022, http://www.a2zproject.org/~a2zorg/pdf/National_VA_Policy_Guidelines_En_010908.pdf.
216. "Helen Keller International's Vitamin A Supplementation Program," *GiveWell*, accessed July 22, 2022, <https://www.givewell.org/charities/helen-keller-international>.
217. "Helen Keller International," The Life You Can Save.
218. Ibid.
219. Saeed Akhtar et al., "Prevalence of Vitamin A Deficiency in South Asia: Causes, Outcomes, and Possible Remedies," *Journal of Health, Population, and Nutrition* 31, no. 4 (2013): 413, <https://doi.org/10.3329/jhpn.v31i4.19975>.
220. Ibid.
221. Omar Karlsson et al., "Consumption of Vitamin-A-Rich Foods and Vitamin A Supplementation for Children under Two Years Old in 51 Low-and Middle-Income Countries," *Nutrients* 14, no. 1 (2021): 188, <https://doi.org/10.3390/nu14010188>.
222. "National Vitamin A Policy Guidelines," *CamNut*, Ministry of Health, accessed August 4, 2022, <https://camnut.weebly.com/uploads/2/0/3/8/20389289/2007vitaminapolicyguidelines.pdf>.
223. Davinder S. Grover et al., "Vitamin A Supplementation in Cambodia: Program Coverage and Association with Greater Maternal Formal Education," *Asian Pacific Journal of Clinical Nutrition* 17, no. 3 (2008): 446–450.
224. Jai K. Das et al., "Effectiveness of Interventions for Managing Acute Malnutrition in Children Under Five Years of Age in Low-Income and Middle-Income Countries: A Systematic Review and Meta-Analysis," *Nutrients* 12, no. 1 (2020): 116, <http://doi.org/10.3390/nu12010116>.
225. Ibid.
226. James P. Wirth et al., "Vitamin A Supplementation Programs and Country-Level Evidence of Vitamin A Deficiency," *Nutrients* 9, no. 3 (2017): 190, <https://doi.org/10.3390/nu9030190>.
227. N. Roos et al., "Micronutrient Status of Populations and Preventive Nutrition Interventions in South East Asia," *Maternal and Child Health Journal* 23, no. 1 (2019): 29–45, <http://dx.doi.org/10.1007/s10995-018-2639-2>.
228. "Eliminating Malnutrition," *Helen Keller Intl*, October 18, 2021, <https://www.hki.org/what-we-do/nourishing-families/eliminating-malnutrition/>.
229. Regina Moench-Pfanner et al., "The Economic Burden of Malnutrition in Pregnant Women and Children Under 5 Years of Age in Cambodia."
230. "Unlocking Cambodia's Future by Significantly Reducing Rates of Child Malnutrition," *ReliefWeb*, November 22, 2019, <https://reliefweb.int/report/cambodia/unlocking-cambodia-s-future-significantly-reducing-rates-child-malnutrition>.
231. Somphos Vicheth Som et al., "Diets and Feeding Practices During the First 1000 Days Window in the Phnom Penh and North Eastern Districts of Cambodia."
232. Mueni Mutunga et al., "The Relationship Between Wasting and Stunting in Cambodian Children: Secondary Analysis of Longitudinal Data of Children Below 24 Months of Age Followed Up Until the Age of 59 Months," *PloS One* 16, no. 11 (2021): e0259765, <https://doi.org/10.1371/journal.pone.0259765>.
233. William A Petri et al., "Enteric Infections, Diarrhea, and Their Impact on Function and Development," *The Journal of Clinical Investigation*, April 2008, [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2276781/#:~:text=Enteric%20pathogens%20that%20are%20the,\(EPEC\)%2C%20and%20EAEC](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2276781/#:~:text=Enteric%20pathogens%20that%20are%20the,(EPEC)%2C%20and%20EAEC).
234. "National Vitamin A Policy Guidelines," Camnut.