

FROM FARM TO FORK: ADDRESSING MALNUTRITION IN GHANA

1. Introduction: Overview of Food Security and Malnutrition

Food insecurity is characterized by disruptions in food intake and eating patterns due to inadequate financial resources and limited access to food. It is a significant global issue, with over 820 million people suffering from hunger and more than 2 billion experiencing moderate to severe food insecurity. In sub-Saharan Africa, particularly in Ghana, food insecurity is worsened by factors such as poverty, insufficient agricultural development, and political instability. While the relationship between food insecurity and malnutrition appears evident, it is complex and multifaceted. Emerging research highlights the link between food insecurity and alterations in the intestinal microbiome, suggesting that malnutrition may stem from microbial immaturity, dysbiosis, or both.

2. What is Food Security: Food Security and Malnutrition in Ghana

Food security is essential for health and sustainable development, defined as the condition where all individuals have consistent access to sufficient, safe, and nutritious food that meets their dietary requirements for a healthy life (FAO, 2021). In Ghana, rural areas, especially the Upper East, face significant food insecurity, affecting 28% of the population (Kolog et al., 2023). Northern Ghana sees even higher rates, with 37% of households impacted. Urbanization and population growth also threaten food access, particularly for vulnerable groups in cities (Akparibo et al., 2021).

3. Understanding Malnourishment in Ghana

Malnutrition remains a critical issue in Ghana, impacting both children and adults. Globally, over 890 million adults and 149 million children suffer from malnutrition, with Africa seeing 216 million children affected, making it the continent's second leading cause of death (AfDB, 2023). In Ghana, 19% of children under five are stunted, with rates rising to one in three in Northern regions compared to one in ten in the South (Iddrisu & Gyabaah, 2023). Contributing factors include maternal education, socioeconomic disparities, and early motherhood. Despite progress in reducing undernutrition from 3 million in 2000 to 2.1 million in 2023, rates of overweight children have remained largely unchanged since 2000 (UNICEF, 2019).

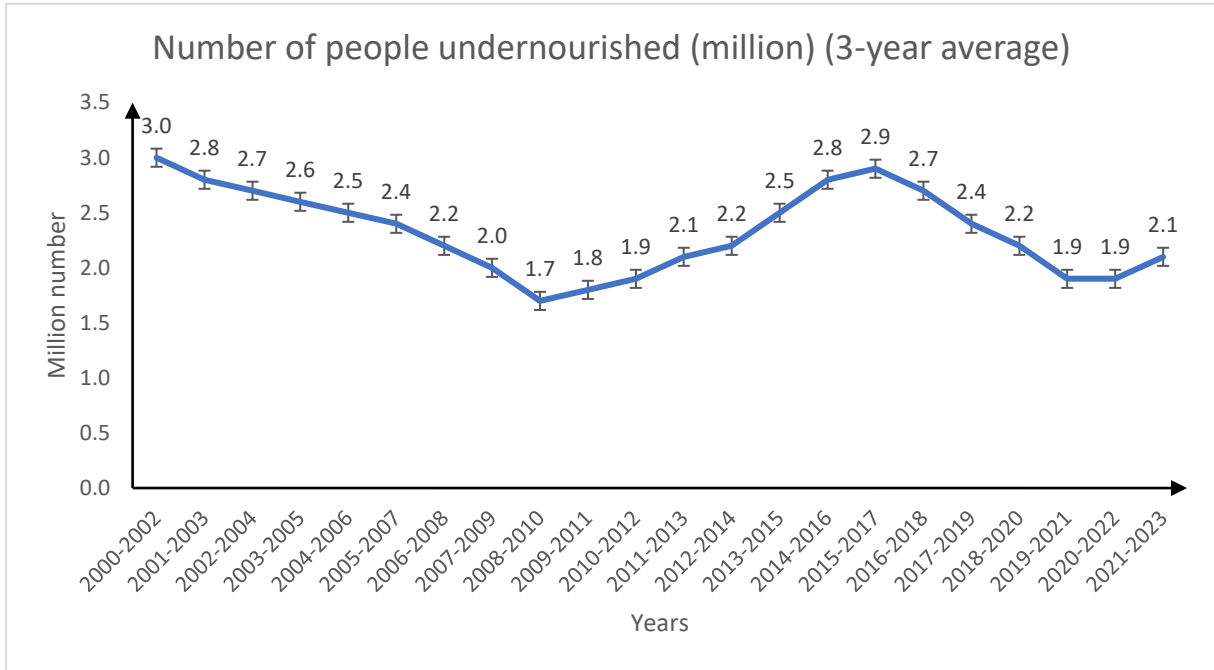


Figure 1: Number of undernourished people in Ghana.

Source: FAOSTAT (2024)

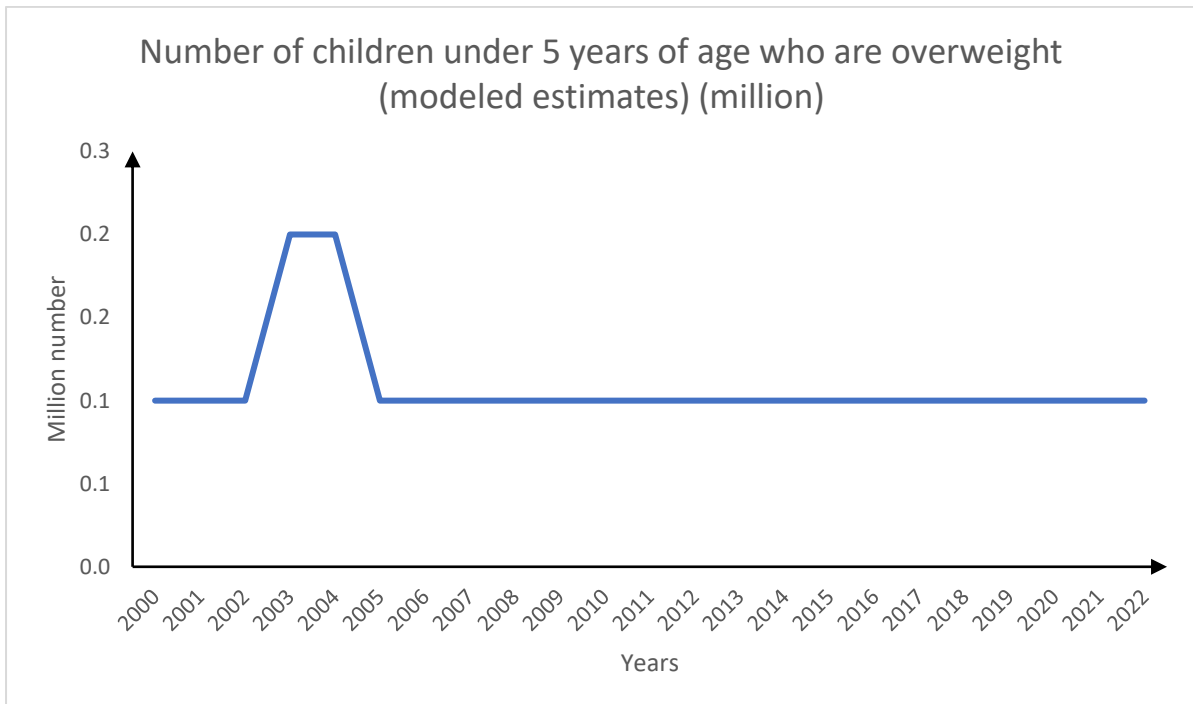


Figure 2: Number of overweight children under 5 years in Ghana.

Source: FAOSTAT (2024)

4. Challenges to Achieving Food Security

Ghana faces several challenges in achieving food security, including climate change, land tenure issues, urbanization, and poor infrastructure. Climate change impacts rainfall, which 80% of the country's agriculture depends on, increasing drought risks (Quaye, 2008). Inequitable land rights limit women's agricultural productivity, and urbanization reduces farmland, driving up food prices. Additionally, inadequate infrastructure hampers farmers' access to markets, affecting food availability and affordability.

5. Impact of Food Insecurity and Malnourishment

Food insecurity and malnutrition in Ghana have severe impacts on health, economic productivity, and national development. Malnutrition exacerbates poverty, reduces economic potential, and results in stunted growth, cognitive impairments, and chronic health issues among children, limiting their education and future job prospects. Economically, Ghana loses an estimated \$1.6 billion annually due to malnutrition-related productivity loss and healthcare costs (Ghana Statistical Service, 2020). The strain on the public health system also rises, as malnutrition is linked to increased disease rates and mortality.

6. Solutions and Interventions for Food Security

To combat food insecurity and malnutrition in Ghana, comprehensive measures are essential. These include promoting climate-resilient crops, improving agricultural methods like agroforestry for soil health, and implementing effective post-harvest management to reduce food losses. Education programs for farmers are vital for equipping them with skills to boost yields. Additionally, strengthening social safety nets, enhancing rural infrastructure, and ensuring fair resource access are critical to building a more resilient food system in Ghana.

7. Call to Action

To achieve food security and reduce malnutrition in Ghana, all stakeholders must collaborate on effective policies, agricultural innovation, and support for vulnerable communities. Immediate action is needed to create a resilient, healthy food system for all.

8. Conclusion

In conclusion, food insecurity and malnutrition remain critical challenges for Ghana's development. Despite progress, disparities persist, demanding urgent action. By advancing sustainable agriculture, improving food systems, and addressing the needs of vulnerable groups, Ghana can work toward a healthier, secure future, aligning with the Sustainable Development Goals.

Research By: *Sowing Seeds Alliance Research and Publication Team @ 2024.*

Sowing Seeds Alliance (SoSA)

Kutsetse, Nurturing Minds

References

- AfDB (2023). Child malnutrition: the African Development Bank steps up action to save thousands of African children at risk of dying before their fifth birthday, Available at <https://www.afdb.org/en/news-and-events/child-malnutrition-african-development-bank-steps-action-save-thousands-african-children-risk-dying-their-fifth-birthday-62273> (Accessed 9th October 2024).
- Akparibo, R., Aryeetey, R. N. O., Asamane, E. A., Osei-Kwasi, H. A., Ioannou, E., Infield Solar, G., ... & Cecil, J. E. (2021). Food security in Ghanaian urban cities: A scoping review of the literature. *Nutrients*, 13(10), 3615.
- Food and Agriculture Organization of the United Nations (FAO). (2021). *The state of food and agriculture 2021: Global trends and perspectives*. <https://www.fao.org/publications/>
- Ghana Statistical Service. (2020). *Population and Housing Census 2020: Summary report of final results*. Ghana Statistical Service. <https://www.statsghana.gov.gh/>
- Iddrisu, W. A., and Gyabaah, O. (2023). Identifying factors associated with child malnutrition in Ghana: a cross-sectional study using Bayesian multilevel ordinal logistic regression approach. *BMJ open*, 13(12), e075723.
- Kolog, J. D., Asem, F. E., & Mensah-Bonsu, A. (2023). The state of food security and its determinants in Ghana: an ordered probit analysis of the household hunger scale and household food insecurity access scale. *Scientific African*, 19, e01579.
- Quaye, W. (2008). *Food security situation in Northern Ghana: Coping strategies and related constraints*. University of Ghana Press.
- UNICEF (2019). Poor diets damaging children's health worldwide, warns UNICEF, Available at <https://www.unicef.org/ghana/press-releases/poor-diets-damaging-childrens-health-worldwide-warns-unicef> (Accessed 9th October 2024).