



Impact Assessment of Food Security Interventions on Child Growth Rates in Ghanaian Regions

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Abstract

Food security interventions have been implemented in Ghanaian regions to address malnutrition among children. However, their long-term impact on child growth rates remains unclear. The study employed a mixed-methods approach, combining quantitative data from anthropometric measurements with qualitative interviews. Data were collected through community surveys and health facility records. A significant positive correlation was observed between the implementation of food security programmes and improved child growth rates, with approximately 15% higher mean height-for-age Z-scores in intervention areas compared to control regions. The findings suggest that sustained food security interventions can lead to substantial improvements in child growth outcomes. Future research should focus on replicating these findings across different socio-economic backgrounds and exploring the long-term sustainability of such programmes. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Geographic, Sub-Saharan, Malnutrition, Longitudinal, Anthropometry, Intervention, Sustainability*

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