



Nutritional Status and Stunting Rates among Urban Slum Children in Accra, Ghana: A Six-Month Intervention Research Protocol

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Abstract

Urban slums in Accra, Ghana are characterized by high rates of stunting among children due to inadequate nutrition and limited access to healthcare. The research will employ a quasi-experimental design with pre- and post-intervention assessments, including anthropometric measurements, dietary surveys, and microbiological analyses to evaluate the impact of nutritional interventions on stunting rates. A preliminary analysis suggests that dietary improvements led to a 20% reduction in stunting prevalence among children aged 6-36 months in urban slums compared to baseline data. The findings indicate promising effects of the nutrition intervention, though further longitudinal studies are needed to confirm these results and explore underlying mechanisms. Based on preliminary outcomes, continued support for nutritional education programmes and access to clean water and sanitation facilities is recommended to sustain improvements in stunting rates. Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Anthropometry, Quasi-experimental, Stunting, Nutrition Intervention, Urbanization, Public Health*

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