



Nutrition Intervention Programme for School-Age Children in Dar es Salaam Slums: A Longitudinal Feeding Study

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Abstract

Child malnutrition is prevalent in Dar es Salaam slums, affecting school-age children's growth and development. A longitudinal feeding study was conducted with school-age children from five randomly selected slum areas, using a randomized controlled trial design. Participants were followed for one academic year. There was a significant improvement in dietary intake and nutritional status among the intervention group ($p < 0.05$), with an average increase of 12% in hemoglobin levels compared to controls. The nutrition intervention programme demonstrated effectiveness in improving the health outcomes of school-age children in Dar es Salaam slums. Further research should explore scalability and sustainability of this model across other slum areas in Tanzania. Nutrition Intervention, School-Age Children, Slum Areas, Hemoglobin Levels 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 Nutrition, Feeding Study, Malnutrition Prevention, School Health, Random Allocation, Intervention Evaluation, Growth Monitoring

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