



# Impact Evaluation of School-Based Nutrition Interventions on Adolescent Growth Outcomes in Democratic Republic of Congo

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### Abstract

This study addresses a current research gap in Medicine concerning "Impact Evaluation of School-Based Nutrition Interventions on Adolescent Growth Outcomes in Democratic Republic of Congo" in Democratic Republic of Congo. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. "Impact Evaluation of School-Based Nutrition Interventions on Adolescent Growth Outcomes in Democratic Republic of Congo", Democratic Republic of Congo, Africa, Medicine, intervention study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with  $text\{logit\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African nutrition, adolescent growth, school-based intervention, nutritional assessment, public health, anthropometry, randomized controlled trial

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