



School-Based Nutrition Programmes and Their Impact on Academic Performance Among Adolescent Girls in Nairobi Slums, 2009

Cheruyot Matiokai¹

¹ Department of Pediatrics, Pwani University

Published: 24 May 2009 | **Received:** 01 April 2009 | **Accepted:** 02 May 2009

Correspondence: cmatiokai@yahoo.com

DOI: [10.5281/zenodo.18884291](https://doi.org/10.5281/zenodo.18884291)

Author notes

Cheruyot Matiokai is affiliated with Department of Pediatrics, Pwani University and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning School-Based Nutrition Intervention Programs for Adolescent Girls in Nairobi Slums: Impact on Academic Performance in Kenya. 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. School-Based Nutrition Intervention Programs for Adolescent Girls in Nairobi Slums: Impact on Academic Performance, Kenya, Africa, Medicine, intervention study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, adolescent nutrition, randomized controlled trial, dietary intervention, academic achievement, slum communities, public health nutrition*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge