



Impact Assessment of Community-Based Healthcare Interventions for Malaria Prevention among Urban Youth in Nairobi, Kenya

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Published: 12 December 2011 | **Received:** 29 August 2011 | **Accepted:** 01 November 2011

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DOI: [10.5281/zenodo.18920775](https://doi.org/10.5281/zenodo.18920775)

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Abstract

This study addresses a current research gap in Medicine concerning Impact Assessment of Community-Based Healthcare Interventions for Malaria Prevention among Urban Youth in Nairobi, Kenya 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. Impact Assessment of Community-Based Healthcare Interventions for Malaria Prevention among Urban Youth in Nairobi, Kenya, Kenya, Africa, Medicine, longitudinal study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, urbanization, intervention studies, longitudinal analysis, public health, epidemiology, community participation*

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