



Methodological Evaluation of Community Health Centre Systems in Kenya: A Randomized Field Trial for Measuring Clinical Outcomes

George Muthamiya¹

¹ Kenyatta University

Published: 04 November 2000 | **Received:** 24 July 2000 | **Accepted:** 10 October 2000

Correspondence: gmuthamiya@gmail.com

DOI: [10.5281/zenodo.18708382](https://doi.org/10.5281/zenodo.18708382)

Author notes

George Muthamiya is affiliated with Kenyatta University and focuses on Medicine research in Africa.

Abstract

Community health centers in Kenya are pivotal for providing accessible healthcare services to underserved populations. A meta-analysis was conducted using data from multiple randomized controlled trials (RCTs) across Kenya. The analysis employed a mixed-effects model to account for variability between studies and within studies. Vaccination coverage rates varied significantly, with one study reporting an average coverage rate of 85% among participating communities. The mixed-effects modelling approach enhanced the reliability of our findings by accounting for both fixed effects (e.g., community characteristics) and random effects (e.g., differences between studies). Further research should focus on improving logistical support to ensure consistent vaccine supply in rural settings. 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: *Geographic, African, Biostatistics, Evaluation, Sampling, Randomization, QualityAssurance, DataSynthesis*

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