



Methodological Assessment of Rural Clinics Systems in Kenya: A Randomized Field Trial for Clinical Outcomes Evaluation

Kaguri Mworiai^{1,2}, Mukiri Njoroge³, Chirichuru Mutaiwa^{4,5}

¹ University of Nairobi

² Jomo Kenyatta University of Agriculture and Technology (JKUAT)

³ Department of Internal Medicine, Kenyatta University

⁴ Department of Pediatrics, University of Nairobi

⁵ Department of Clinical Research, Kenyatta University

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Correspondence: kmworiai@outlook.com

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Author notes

Kaguri Mworiai is affiliated with University of Nairobi and focuses on Medicine research in Africa.

Mukiri Njoroge is affiliated with Department of Internal Medicine, Kenyatta University and focuses on Medicine research in Africa.

Chirichuru Mutaiwa is affiliated with Department of Pediatrics, University of Nairobi and focuses on Medicine research in Africa.

Abstract

Rural clinics in Kenya face challenges in maintaining consistent clinical outcomes due to varying system methodologies. A comprehensive systematic literature review was conducted using databases such as PubMed and Embase. Studies were screened based on predefined eligibility criteria focusing on randomized field trials that evaluated clinical performance metrics. The analysis revealed a significant variation ($p < 0.05$) in the effectiveness of different diagnostic tools used across clinics, with some methods showing a higher success rate than others. While most studies adhered to standard methodologies, there is room for improvement in adopting more robust and consistent evaluation techniques. Clinic administrators should consider implementing standardised data collection protocols and conducting regular performance audits to enhance clinical outcomes. 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: *Kenya, Rural Health, Systematic Review, Methodology, Clinical Outcomes, Randomized Trials, Quality Improvement*

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