



Methodological Evaluation of Community Health Centre Systems in Kenya: Randomized Field Trial for System Reliability Assessment

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Abstract

Community health centres play a crucial role in healthcare delivery in Kenya, particularly in underserved areas. A mixed-methods approach was employed, including quantitative surveys and qualitative interviews. Data were collected from CHCs in three regions over two years. The findings indicate that CHCs in the region had an average response rate of 85% for routine health check-ups, with significant variability across different districts. System reliability varied significantly between districts, influenced by factors such as infrastructure and community engagement. Future research should focus on improving these areas to enhance service delivery. Investment in infrastructure and training of CHC staff is recommended to improve the reliability of services provided. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, longitudinal study, mixed-methods, reliability assessment, randomized trials, community health centres, evaluation methodology*

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