



Evaluating Community Health Centre Systems in Kenya Using Quasi-Experimental Design: A Methodological Assessment

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Abstract

Community health centres (CHCs) play a vital role in healthcare delivery in Kenya, yet their effectiveness and efficiency require rigorous evaluation. A mixed-methods approach combining quantitative data analysis with qualitative interviews was employed to assess the performance of CHCs. The quasi-experimental design compared pre- and post-intervention outcomes across randomly selected CHCs, allowing for a controlled comparison of system-level improvements. The findings indicated that there was an average improvement in service delivery efficiency by 15% following intervention measures, with significant reductions in patient wait times (mean reduction 20 minutes). This study provides empirical evidence supporting the efficacy of the quasi-experimental design for evaluating CHC systems and highlights the importance of continuous quality improvement. Based on our findings, it is recommended that further interventions be focused on enhancing staff training and resource allocation strategies in CHCs to sustain these improvements. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, community health centers, quasi-experimental design, evaluation methods, outcome measurement, resource allocation, programme effectiveness*

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