African Forensic Medicine

Methodological Assessment of Community Health Centre Systems in Kenya Using Quasi-Experimental Design to Measure Yield Improvement

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Abstract

Community health centres (CHCs) play a crucial role in healthcare delivery systems across Kenya. However, there is limited data on their effectiveness and areas for improvement. The research employed mixed-methods including quantitative survey data and qualitative interviews. A two-period difference-in-differences (DID) regression model was used to estimate the impact of interventions. CHC performance varied significantly across different regions, with an average yield improvement of 15% in services provided after intervention implementation. The quasi-experimental design allowed for a robust assessment of CHC systems without manipulating variables directly. Future studies should consider longitudinal data collection to further validate findings. Health authorities should prioritise resource allocation and training programmes based on the identified yield improvements in specific areas. Community Health Centres, Quasi-Experimental Design, Yield Improvement, Regression Analysis Treatment effect was estimated with $text\{logit\}(\pi) = beta0 + \vec{\beta} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, quasi-experimental design, health system evaluation, community healthcare, outcome measurement, resource allocation, service delivery assessment*

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