



The Impact of Home-Based Child Healthcare Services on Infant Mortality Rates in Kenyan Villages: A Performance Outcomes Study

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Abstract

Home-based child healthcare (HCHC) services in Kenyan villages aim to reduce infant mortality rates through preventive and curative care. The study employed a mixed-methods approach combining quantitative survey data with qualitative interviews to assess service utilization and impact in selected villages. Immunization coverage increased by 20% among infants who received HCHC services, indicating higher adherence to vaccination protocols compared to control groups. Home-based child healthcare services significantly improved immunization outcomes, supporting their potential as a cost-effective intervention for reducing infant mortality rates in rural Kenya. Policymakers should prioritise scaling up HCHC programmes that include comprehensive maternal and neonatal health education to enhance overall impact. 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, infant mortality, home-based care, preventive medicine, curative healthcare, mixed-methods approach, community health services

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