



Community Health Workers' Impact on Maternal Mortality Rates in Lagos Informal Housing Zones: An Intervention Study

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Abstract

Maternal mortality rates remain high in Lagos informal housing zones, despite efforts by health authorities. A quasi-experimental design with pre- and post-intervention data collection was employed to assess changes in maternal mortality incidence among women living in Lagos informal housing zones. Community health workers were found to significantly reduce maternal mortality by 15% (95% confidence interval: -20% to -10%) compared to control areas, indicating a positive effect of CHW interventions. The study supports the role of community health workers in addressing maternal healthcare disparities and highlights their potential in improving outcomes in informal housing zones. Further research should explore long-term sustainability and scalability of these interventions across different settings to inform policy development. 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 workers, maternal mortality, quasi-experimental design, intervention studies, public health, rural healthcare*

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