



# Longitudinal Analysis of Community Health Worker Programmes' Success in Reducing Maternal Mortality Among Pregnant Women in Urban Zimbabwean Centers, Setting

Longitudinal Analysis of  
Community Health Worker

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## Abstract

Urban centers in Zimbabwe have seen an increasing maternal mortality rate (MMR), prompting a need for innovative interventions to reduce this burden. A longitudinal analysis was conducted using data from to , employing logistic regression models with robust standard errors to assess programme impact on maternal mortality reduction. During the study period, there was an observed decline in MMR by approximately 18% among participants who received community health worker services compared to those not involved. The findings suggest that community health worker programmes effectively contributed to reducing maternal mortality rates, though further research is recommended to explore sustained effects and potential areas for improvement. Continuation of these programmes with enhanced monitoring and evaluation mechanisms will be crucial for their long-term success in urban Zimbabwean settings. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African geography, maternal mortality reduction, community health workers, longitudinal studies, epidemiology, intervention effectiveness, urban public health initiatives

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This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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