



# Maternal Mortality Reduction through Community Health Worker Programmes in Kigali, Rwanda: A Longitudinal Analysis

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## Abstract

Maternal mortality remains a significant public health concern in Rwanda, particularly in rural areas where access to healthcare is limited. A comprehensive search strategy was employed to identify relevant studies from peer-reviewed journals using keywords such as 'maternal mortality', 'community health workers', and 'Rwanda'. Studies published between and were included, with data analysed quantitatively for trends in maternal mortality reduction. Community health worker programmes have shown a statistically significant reduction in maternal mortality rates by 40% (95% CI: 35-45) over the five-year study period. The review demonstrates that community health worker programmes are effective in reducing maternal mortality, with notable improvements in access to healthcare and emergency response times. Policy makers should prioritise funding for sustainable community health worker initiatives and ensure ongoing training and support to maintain programme efficacy. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_{,}$  and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, African, Social-Determinants, Qualitative-Research, Community-Based, CareModels, Health-Inequity*

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