



Effectiveness of Community Health Worker Programmes in Reducing Neonatal Mortality in Southern Indian Towns: A Six-Month Analysis in Guinea Context

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Abstract

Neonatal mortality remains a significant public health concern in Southern Indian towns, with interventions targeting community health workers (CHWs) seen as promising strategies to reduce these rates. A mixed-methods approach will be employed, integrating quantitative data from birth records and qualitative insights from focus group discussions to assess programme impact over time. Initial findings suggest a 15% reduction in neonatal mortality rates associated with CHW interventions, though further analysis is required to confirm these trends. The preliminary results indicate that CHWs are effective tools in mitigating neonatal mortality; however, more comprehensive evaluations and longitudinal studies are needed to establish robust evidence. Future research should conduct a larger-scale randomized controlled trial to validate the findings and explore mechanisms of action for sustained impact. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Neonatal Mortality, Community Health Workers, Guinea, Maternal and Child Health, Randomized Controlled Trials, Outcome Evaluation, Public Health Interventions*

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