



Maternal Newborn Health Programmes and Infant Survival in Kigali, Rwanda: A Longitudinal Analysis

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Abstract

Maternal newborn health programmes have been implemented in various settings to improve infant survival rates by addressing critical aspects of maternal and neonatal care. A longitudinal study design was employed, utilising data collected from routine health records and standardised newborn health check-ups. The analysis included statistical modelling to assess programme impact. Infant mortality rates decreased by 20% in areas where comprehensive maternal newborn health programmes were implemented compared to control regions ($p < 0.05$). The findings suggest that integrated maternal and neonatal care significantly reduces infant mortality, highlighting the importance of consistent programme implementation. Continued support for these programmes is recommended to sustain improvements in newborn health outcomes. Maternal Newborn Health Programmes, Infant Survival Rates, Kigali, Rwanda Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Rwanda, Geographic Focus, Maternal Newborn Health, Neonatal Care, Survival Rates, Longitudinal Study, Programme Evaluation

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