



Maternal Care Packages and Neonatal Mortality in Congolese Rural Districts: A Longitudinal Study of Service Integration

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Abstract

Maternal care packages have been proposed as a means to improve neonatal outcomes in resource-limited settings. This study aims to evaluate their impact on neonatal mortality rates. A longitudinal study design was employed, focusing on a cohort of mothers delivering in Congolese rural areas. Data collection included maternal health records and newborn health outcomes over two years. Maternal care packages were associated with a statistically significant reduction ($p < 0.05$) in neonatal mortality rates by 23% compared to control groups. This study supports the efficacy of integrated maternal newborn care packages in improving neonatal health outcomes, particularly in resource-limited settings. Further implementation and evaluation are recommended to ensure sustainability and scalability of these interventions. 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, Maternal Newborn Care Packages, Neonatal Mortality, Service Integration, Longitudinal Study, Congolese Rural Districts, Quantitative Analysis*

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