



# Home-Based Child Health Care Packages for Neonatal Sepsis Prevention in Nairobi Slums: A Case Study

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## Abstract

This case study examines the implementation of home-based child health care packages (HBCHCPs) in Nairobi slums to prevent neonatal sepsis. A mixed-method approach was employed, incorporating quantitative data on infant health records and qualitative insights from interviews with parents and caregivers. Data collection lasted for six months, with a sample size of 200 infants in the intervention group and 150 in the control group. Participants demonstrated high compliance rates (96%) with HBCHCPs, indicating their practicality as an additional preventive measure. Parental knowledge about sepsis prevention improved significantly by over 70%, suggesting effective educational components within the package. The home-based care packages were found to be a feasible and effective tool for reducing neonatal sepsis rates in Nairobi slums, with notable improvements in parental education levels. Further studies should explore scalability and cost-effectiveness of HBCHCPs across other urban areas. Implementation guidelines should also be developed based on the successful model observed here. Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, neonatal sepsis, home-based care, slum health, qualitative research, community engagement, infection control*

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