



Methodological Evaluation of Maternal Care Facilities Systems in Senegal Using Quasi-Experimental Design for Clinical Outcome Assessment

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Abstract

Maternal care facilities in Senegal have been identified as critical for improving child health outcomes, yet their effectiveness remains subject to scrutiny. A mixed-method approach incorporating quantitative data analysis was employed. Quasi-randomized controlled trials (Q-RCT) were conducted to assess the impact of varying levels of care on neonatal survival rates. Data from Q-RCT indicated a significant positive correlation between improved maternal care and reduced neonatal mortality by 15% in regions implementing enhanced protocols compared to baseline scenarios. The quasi-experimental design provided robust evidence for the efficacy of specific maternal care interventions, highlighting areas needing further improvement. Further research should focus on scaling up successful models across Senegal and integrating community-based support systems to enhance overall outcomes. Maternal Care Systems, Quasi-Experimental Design, Clinical Outcomes, Neonatal Survival Treatment effect was estimated with $text\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, quasi-experimental, evaluation, modelling, determinants, public-health, methodology*

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