



Community-Based Maternal Care Interventions and Birth Outcome Improvement in Urban Nigerian City Centers Over Two Years

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Abstract

Urban Nigerian city centers face significant maternal health challenges, particularly in terms of improved birth outcomes. A randomized controlled trial was conducted with urban Nigerian women, where participants were randomly assigned to either receive standard healthcare services or additional maternal care support provided by trained community health workers. There was an observed improvement in neonatal survival rates among the intervention group (52% reduction compared to baseline), though the exact proportion of improved outcomes varied across different indicators such as low birth weight and preterm births. The study suggests that comprehensive community-based maternal care interventions can lead to significant improvements in birth outcomes, although further research is needed to confirm these findings in diverse settings. Further studies should be conducted to validate the effectiveness of these interventions across different urban centers and socio-economic contexts. Policy makers could consider scaling up these programmes based on promising initial results. 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, Maternal Health, Community-Based Interventions, Birth Outcomes, Randomized Controlled Trial, Public Health Strategies, Neonatal Mortality Reduction*

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