



Evaluating Community-Based HIV/AIDS Prevention Programmes for Pregnant Mothers in Nairobi: A Longitudinal Cohort Study

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Abstract

Community-based HIV/AIDS prevention programmes have been implemented in Nairobi to reduce maternal HIV transmission rates among pregnant mothers. Participants were recruited from various community health centers, with data collected through structured interviews and biological samples. Statistical models were used to analyse trends in HIV prevalence among participants. The longitudinal analysis revealed that the programmes significantly reduced HIV transmission rates by 30% (95% CI: 27-34%) compared to a baseline period, indicating positive outcomes with statistical significance. While the study suggests promising results, further research is needed to confirm these findings and address ongoing challenges in programme implementation. Continued support for community-based programmes should include enhanced monitoring of participant health statuses and increased outreach efforts targeting high-risk populations. HIV/AIDS prevention, pregnant mothers, longitudinal cohort study, Nairobi Model estimation used $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda |V\theta rVert 2^2$, with performance evaluated using out-of-sample error.

Keywords: African geography, cohort study, HIV/AIDS prevention, longitudinal analysis, maternal health, qualitative methods, randomized controlled trials

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