



Frequency Rates and Risk Behaviors Change in HIV Prevention Interventions for Commercial Sex Workers in Urban Southern Nigeria: An Intervention Adoption Study

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Abstract

HIV prevalence among commercial sex workers (CSWs) in urban Southern Nigeria remains high despite various prevention interventions. A comprehensive survey design was employed including quantitative data collection through structured interviews and qualitative insights from focus group discussions. Findings indicate that the intervention adoption frequency rates varied significantly across different market districts, with an average of 75% coverage in urban areas compared to only 40% in rural settings. Analysis also revealed a reduction in high-risk sexual behaviors after six months of interventions ($p < 0.05$, CI: -21.3%, +8.9%). The study underscores the importance of tailored intervention strategies and community engagement for effective HIV prevention among CSWs. Further studies should explore the long-term sustainability of these interventions and their impact on broader public health outcomes. Treatment effect was estimated with $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Commercial Sex Workers, HIV Prevention, Interventions Adoption, Risk Behaviors, Quantitative Studies, Prevalence Rates*

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