



Behavioural Interventions and Their Impact on HIV Transmission Among Female Sex Workers in Southern Tanzania: A Longitudinal Study

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Abstract

Female sex workers (FSWs) in Southern Tanzania are at high risk for HIV infection due to risky sexual behaviors and limited access to prevention services. A longitudinal study design was employed, involving structured interviews and observational data collection over two years. Quantitative analysis included logistic regression models to assess intervention efficacy. Findings from the study indicate that behavioural interventions significantly reduced HIV risk behaviors among FSWs by 25% (95% confidence interval: -30% to -18%). The findings suggest that sustained, targeted interventions can effectively decrease HIV transmission rates among this high-risk population. Future research should focus on replicating and expanding the successful intervention strategies in broader settings to achieve greater impact. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, sex work, longitudinal, intervention, prevention, behavioural, epidemiology

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