



# Community-Based HIV Testing Strategies in Eastern Congolese Border Townships: Acceptance Rates and Treatment Adoption Impact

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## Abstract

Eastern Congolese border townships are facing a significant HIV epidemic, with limited healthcare resources and infrastructure. A mixed-methods approach combining quantitative surveys and qualitative interviews was employed to gather data from participants aged 18-45. Participants showed high acceptance of the testing strategy, with an acceptance rate of 72%, but only a minority (20%) reported adopting treatment within six months. Community-based HIV testing strategies are well-received by local populations but require further efforts to increase treatment uptake. Enhanced follow-up services and community engagement initiatives are recommended to improve treatment adoption rates. HIV Testing, Treatment Adoption, Community-Based Strategies, Eastern Congo Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African Geography, Community Health Interventions, HIV Epidemiology, Qualitative Research, Quantitative Analysis, Test Acceptance Rates, Treatment Adherence Promotion*

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