



Mapping HIV/AIDS Knowledge and Practices in Rural Uganda: A Randomized Controlled Trial Analysis

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Abstract

This study addresses a current research gap in Engineering concerning Mapping HIV/AIDS Knowledge and Practices Among Rural Ugandan Women: A Randomized Controlled Trial Analysis in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Mapping HIV/AIDS Knowledge and Practices Among Rural Ugandan Women: A Randomized Controlled Trial Analysis, Uganda, Africa, Engineering, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The maintenance outcome was modelled as $Y = \beta_0 + \beta_1 X + u + \epsilon$, with robustness checked using heteroskedasticity-consistent errors.

Keywords: *Sub-Saharan, African, HIV/AIDS, epidemiology, randomized controlled trial, community engagement, geographic information systems, GIS, public health initiatives*

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