



Behavioural Interventions in Reducing Domestic Violence Harassment Among Married Women in Kigali, Rwanda: A Twelve-Month Randomized Controlled Trial

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Abstract

This study addresses a current research gap in Medicine concerning "Behavioral Interventions in Reducing Domestic Violence Harassment Among Married Women in Kigali, Rwanda: A Twelve-Month Randomized Controlled Trial" in Rwanda. 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. "Behavioral Interventions in Reducing Domestic Violence Harassment Among Married Women in Kigali, Rwanda: A Twelve-Month Randomized Controlled Trial", Rwanda, Africa, Medicine, longitudinal study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Behavioural Interventions, Domestic Violence, Intervention Studies, Longitudinal Study, Randomized Controlled Trials, Rural Communities*

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