



Impact Evaluation of Community-Led Total Sanitation on Women's Livelihoods and Health in Mozambique's Rural Regions,

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Abstract

This study addresses a current research gap in Medicine concerning Impact Evaluation of Community-Led Total Sanitation Initiatives on Women's Livelihoods and Health in Mozambique's Rural Regions in Mozambique. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. 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. Impact Evaluation of Community-Led Total Sanitation Initiatives on Women's Livelihoods and Health in Mozambique's Rural Regions, Mozambique, Africa, Medicine, case study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Groundwater, Sanitation, HIV/AIDS*

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