



Impact Evaluation of Community-Led Water Treatment Facilities on Access to Clean Drinking Water and Hygiene Practices in Rural Kenya 2007

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Abstract

This study examines the impact of community-led water treatment facilities on access to clean drinking water and hygiene practices in rural Kenya. The study utilised a mixed-methods approach, combining quantitative surveys with qualitative interviews. It analysed data from across four villages in rural Kenya. In the surveyed villages, there was a significant increase ($p < 0.05$) in the proportion of households that reported using treated water for drinking and cooking purposes compared to before the project implementation. Community-led water treatment facilities significantly improved access to clean drinking water and hygiene practices among rural Kenyan communities. Future initiatives should focus on extending these facilities to more villages, especially those with higher levels of poverty or lower access to clean water. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, community-led initiatives, water quality assessment, hygiene education, rural development, public health, sanitation practices*

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