



# Mobile Health Platforms for Malaria Diagnosis in Rural Mozambique Villages: A Field Study

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## Abstract

This study addresses a current research gap in Medicine concerning Efficacy of Mobile Healthcare Platforms for Malaria Diagnosis in Rural Mozambique Villages in Mozambique. 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. Efficacy of Mobile Healthcare Platforms for Malaria Diagnosis in Rural Mozambique Villages, Mozambique, Africa, Medicine, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with  $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, African, Spatio-Temporal Analysis, Telemedicine, Malaria, HIV/AIDS, Geospatial Technology*

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