



Digital Health Records in Malaria Management Among Rural Ugandans: A Systematic Literature Review

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Abstract

This study addresses a current research gap in Medicine concerning Effectiveness of Digital Health Records in Tackling Malaria Cases among Rural Ugandans in Egypt. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. 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. Effectiveness of Digital Health Records in Tackling Malaria Cases among Rural Ugandans, Egypt, Africa, Medicine, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African Geography, Digital Health Records, Malaria Management, Systematic Review, Geographic Information Systems, Evidence-Based Medicine, Rural Health Services*

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