



Impact Assessment of School-Based Malaria Prevention Interventions in Rural Sierra Leone: A Systematic Literature Review

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Abstract

This study addresses a current research gap in Medicine concerning Impact Assessment of School-Based Malaria Prevention Interventions in Rural Sierra Leone: One-Year Effectiveness Analysis in Sierra Leone. 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. Impact Assessment of School-Based Malaria Prevention Interventions in Rural Sierra Leone: One-Year Effectiveness Analysis, Sierra Leone, Africa, Medicine, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $text \{ logit \} (\pi) = beta 0 + \beta^{-} p X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, rural, intervention, effectiveness, epidemiology, longitudinal, randomized*

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