



Efficacy of Community Health Worker Training in Malaria Control within Rural Ghanaian Communities: A Six-Month Impact Assessment

Kofi Agyeman¹, Ameyaw Adongo^{2,3}, Atta Amoako⁴, Yaw Afriki^{5,6}

¹ Department of Epidemiology, University of Cape Coast

² Noguchi Memorial Institute for Medical Research

³ University of Professional Studies, Accra (UPSA)

⁴ Department of Epidemiology, University of Ghana, Legon

⁵ University of Ghana, Legon

⁶ Department of Epidemiology, University of Professional Studies, Accra (UPSA)

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Correspondence: kagyeman@outlook.com

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Author notes

Kofi Agyeman is affiliated with Department of Epidemiology, University of Cape Coast and focuses on Medicine research in Africa.

Ameyaw Adongo is affiliated with Noguchi Memorial Institute for Medical Research and focuses on Medicine research in Africa.

Atta Amoako is affiliated with Department of Epidemiology, University of Ghana, Legon and focuses on Medicine research in Africa.

Yaw Afriki is affiliated with University of Ghana, Legon and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Rural Community Health Worker Training Program Evaluation on Malaria Transmission Control in Central Ghana: A Six-Month Impact Study in Ghana. 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. Rural Community Health Worker Training Program Evaluation on Malaria Transmission Control in Central Ghana: A Six-Month Impact Study, Ghana, Africa, Medicine, review article This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Ghanaian, CommunityHealthWorker, Interventions, EfficacyStudies, MalariaControl, RandomizedControlledTrials*

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