



Community Health Workers' Impact on Tuberculosis Control in Northern Nigerian Villages: Patient Compliance and Treatment Outcomes

Omorieg Oluwatobiloba¹, Chinedu Igbarie^{1,2}

¹ University of Jos

² University of Port Harcourt

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Correspondence: ooluwatobiloba@aol.com

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Author notes

*Omorieg Oluwatobiloba is affiliated with University of Jos and focuses on Medicine research in Africa.
Chinedu Igbarie is affiliated with University of Jos and focuses on Medicine research in Africa.*

Abstract

This study addresses a current research gap in Medicine concerning 3. Impact of Community Health Workers' Programs on Tuberculosis Control in Northern Nigerian Villages: Patient Compliance and Treatment Outcomes in Nigeria. 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. 3. Impact of Community Health Workers' Programs on Tuberculosis Control in Northern Nigerian Villages: Patient Compliance and Treatment Outcomes, Nigeria, 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: *African geography, Community health workers, Tuberculosis control, Patient adherence, Treatment efficacy, Health education, Epidemiology*

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