



# Evaluation of Community-Based Healthcare Services in Tuberculosis Control within Nigerian Rural Areas,

Chidera Okoro<sup>1</sup>, Nnaemeka Anyakwui<sup>2</sup>

<sup>1</sup> Department of Epidemiology, University of Abuja

<sup>2</sup> Department of Surgery, University of Abuja

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**Correspondence:** [cokoro@aol.com](mailto:cokoro@aol.com)

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## Author notes

*Chidera Okoro is affiliated with Department of Epidemiology, University of Abuja and focuses on Medicine research in Africa.*

*Nnaemeka Anyakwui is affiliated with Department of Surgery, University of Abuja and focuses on Medicine research in Africa.*

## Abstract

Tuberculosis (TB) remains a significant public health concern in Nigeria, particularly in rural areas where access to healthcare services is limited. A mixed-methods approach was employed, including surveys, focus group discussions, and qualitative observations to assess service coverage, patient adherence, and health outcomes. Community outreach efforts significantly increased TB screening rates by 25% compared to baseline levels in the control area. However, challenges persist with low medication compliance due to perceived side effects and cost. While community-based healthcare services have improved TB detection, ongoing support is needed to enhance patient adherence and address financial barriers. Implementing a tiered treatment model that includes free medications for high-risk groups and subsidised rates for low-income patients could improve compliance. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Community-based healthcare, Geography of TB, Epidemiology, Public health policy, Rural development, Community surveillance, Health education campaigns*

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