



Zoonotic Disease Surveillance in Northern Nigerian Villages: A Community-Based Intervention Evaluation

Chinwe Christopher¹

¹ University of Ibadan

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Correspondence: cchristopher@aol.com

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Author notes

Chinwe Christopher is affiliated with University of Ibadan and focuses on Medicine research in Africa.

Abstract

Zoonotic diseases pose significant health risks in northern Nigerian villages, affecting both human and animal populations. The surveillance systems are crucial for early detection and control of such diseases. A mixed-methods approach was employed, including surveys, focus group discussions, and data analysis. There was a significant decrease ($p < 0.05$) in reported zoonotic disease cases by 27% after the implementation of surveillance systems compared to before. Community-based zoonotic disease surveillance significantly reduced reported incidence rates, contributing positively to public health outcomes. Further research should explore scalability and cost-effectiveness of these interventions across different regions. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Anthrax, Community-Based, Epidemiology, Surveillance, Vaccination, Vector-Control*

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