



Methodological Evaluation of Public Health Surveillance Systems in Nigeria: Panel Data Estimation for Clinical Outcomes,

Chinedu Okezie¹

¹ Nigerian Institute of Advanced Legal Studies (NIALS)

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Correspondence: cokezie@outlook.com

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Author notes

Chinedu Okezie is affiliated with Nigerian Institute of Advanced Legal Studies (NIALS) and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of public health surveillance systems systems in Nigeria: panel-data estimation for measuring clinical 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. Methodological evaluation of public health surveillance systems systems in Nigeria: panel-data estimation for measuring clinical outcomes, Nigeria, Africa, Medicine, intervention study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Nigeria, Public Health Surveillance, Panel Data, Methodology, Epidemiology, Quantitative Analysis, Cross-Sectional Studies*

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