



# Methodological Assessment and Adoption Rates in Public Health Surveillance Systems in Nigeria: A Difference-in-Differences Analysis

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## Abstract

Public health surveillance systems in Nigeria play a crucial role in monitoring disease outbreaks and implementing effective interventions. However, there is variability in their methodological approaches and adoption rates across different regions. A comprehensive search strategy was employed to identify relevant studies. The DiD model will be used to analyse the data, controlling for potential confounders such as socio-economic factors and regional variations. Our analysis suggests that while there is a general trend towards improved methodological approaches over time, adoption rates vary significantly across different states in Nigeria. The DiD model effectively highlights these differences, indicating that certain regions are adopting new methodologies more rapidly than others. Public health officials should prioritise the adoption of best-practice methods to enhance surveillance efficiency and effectiveness. 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:** *Sub-Saharan, surveillance, evaluation, adoption, methodology, intervention, geographical*

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