



# Methodological Evaluation of Public Health Surveillance Systems in Ghana: Quasi-Experimental Design for Efficiency Assessment

Taiwo Adzubecki<sup>1</sup>

<sup>1</sup> University of Cape Coast

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

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## Author notes

*Taiwo Adzubecki is affiliated with University of Cape Coast and focuses on Medicine research in Africa.*

## Abstract

Public health surveillance systems in Ghana are crucial for monitoring disease outbreaks and managing public health interventions effectively. A meta-analysis approach will be employed to compare methodologies used across different surveillance systems. Key performance indicators such as timeliness and accuracy will be assessed using robust standard errors. The analysis reveals that while some systems are timely in reporting, there is a notable variability in the quality of data collected, particularly concerning the completeness of health records. This study concludes with recommendations for system enhancements based on identified inefficiencies and strengths observed within various surveillance frameworks. Enhancements should include improvements to record-keeping systems and training programmes for healthcare workers to ensure more accurate and timely data reporting. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, African, surveillance, methodology, evaluation, intervention, effectiveness*

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