



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

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Abstract

Public health surveillance systems in Ghana are crucial for monitoring diseases and outbreaks but may suffer from inefficiencies and biases. A mixed-method approach combining quantitative analysis with qualitative interviews was employed. The study utilised logistic regression for system performance assessment. The preliminary findings suggest that while the system detects a majority of reported cases (85%), there is room for reducing false positives to enhance reliability and reduce unnecessary interventions. This methodological evaluation provides insights into improving public health surveillance systems in Ghana, contributing to more effective disease control strategies. Investigate ways to minimise false positives without compromising the system's ability to alert on potential outbreaks. Treatment effect was estimated with $\text{text}\{\logit\}(\pi) = \beta_0 + \beta_1 X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, surveillance, methodology, bias, evaluation, reliability, validity*

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