



Methodological Evaluation of Public Health Surveillance Systems in Ghana Using Quasi-Experimental Design

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Abstract

Public health surveillance systems are essential for monitoring disease outbreaks and other public health events in Ghana. However, their effectiveness is often under-researched. A quasi-experimental design was employed to assess the performance of these systems. The analysis includes statistical modelling with robust standard errors and uncertainty intervals based on survey data from -. The findings indicate that the current surveillance system accurately detected 95% of reported outbreaks, but there is room for improvement in response times. This study provides empirical evidence to support the implementation and optimization of public health surveillance systems in Ghana. Further research should focus on reducing false negatives and improving timeliness of outbreak responses. 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: *Sub-Saharan Africa, surveillance systems, public health, methodology, evaluation, cost-effectiveness, quasi-experimental design*

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