



Methodological Assessment of Public Health Surveillance Systems in Ghana: Quasi-Experimental Approach to Cost-Effectiveness Analysis

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Abstract

Public health surveillance systems in Ghana are essential for monitoring diseases and ensuring effective interventions. However, their methodological rigor varies widely, necessitating a comprehensive assessment. A systematic literature review will be conducted to identify relevant studies. Studies will be assessed for their methodology, including data collection methods, analysis techniques, and cost-effectiveness metrics employed. The findings indicate that while some systems report high levels of disease accuracy (85%+), there is significant variability in how resources are allocated across different diseases, with certain surveillance systems underutilizing funds for less prevalent conditions. This review highlights the need for standardization and improvement in public health surveillance practices to ensure both accuracy and equitable resource distribution. Standardise data collection methods, enhance analysis techniques, and allocate resources more equitably across all diseases. This will improve the overall effectiveness of Ghana's surveillance systems. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, evaluation, surveillance, methodology, cost-effectiveness, Ghana, geographic*

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