



Methodological Evaluation of Public Health Surveillance Systems in Tanzania: Quasi-Experimental Design for Cost-Effectiveness Analysis

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Abstract

Public health surveillance systems in Tanzania are crucial for monitoring infectious diseases such as cholera and malaria. A systematic literature review will be conducted using databases including PubMed and Web of Science. Studies published between and will be included. The analysis reveals that while most surveillance systems are operational, there is a lack of standardised reporting protocols across different districts. Current public health surveillance in Tanzania benefits from technological advancements but requires standardization to enhance comparability and effectiveness. Standardised reporting protocols should be implemented to improve the quality and consistency of surveillance data. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^{-1} p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Tanzania, Public Health Surveillance, Quasi-Experimental Design, Cost-Effectiveness Analysis, Geographic Information Systems, Data Quality Assessment, Epidemiology Methodologies

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