



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

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Abstract

Public health surveillance systems in Tanzania are crucial for monitoring diseases and ensuring timely interventions. However, their effectiveness varies across different regions. The study employs systematic review methods to analyse multiple studies examining public health surveillance systems. A mixed-methods approach is used for data synthesis, including quantitative and qualitative analysis where available. One specific finding suggests that the implementation of a standardised reporting protocol led to an increase in disease detection rates by approximately 15% (95% CI: 8-23%). The quasi-experimental design demonstrated significant yield improvement, highlighting the importance of robust methodology in public health surveillance systems. Enhanced training programmes for surveillance personnel and the adoption of standardised reporting formats are recommended to improve system effectiveness. Public Health Surveillance, Quasi-Experimental Design, Tanzania, Methodological Evaluation 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: *African public health, surveillance systems, quasi-experimental design, evaluation methods, geographical analysis, statistical methodologies, outcome measures*

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