



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

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Abstract

Public health surveillance systems are crucial for monitoring diseases and managing public health responses in Uganda. However, their effectiveness and cost-effectiveness remain under scrutiny. A mixed-methods approach combining qualitative interviews and document reviews will be employed. Data collection will involve semi-structured interviews with stakeholders from various sectors, supplemented by review of surveillance system documentation. Interviews revealed that while the systems are operational, there is a need for standardisation to enhance their reliability and comparability across different settings in Uganda. The quasi-experimental design will provide insights into the cost-effectiveness of these surveillance systems, aiding policymakers in resource allocation decisions. Standardisation recommendations should be implemented to ensure uniformity and efficiency in public health surveillance efforts. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, surveillance systems, qualitative methodology, public health, cost-effectiveness analysis, quasi-experimental design, evaluation methodologies*

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