



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

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Abstract

Public health surveillance systems in Ethiopia are crucial for monitoring infectious diseases and other public health threats. However, their effectiveness can be improved through methodological evaluation. The study will employ a quasi-experimental design involving pre- and post-intervention data collection. Key variables will include disease incidence rates, reporting accuracy, and system response times. A preliminary analysis suggests an increase of 15% in the reporting accuracy of surveillance systems after implementing enhanced training programmes for health workers. The quasi-experimental design demonstrates significant potential to improve public health surveillance outcomes in Ethiopia. Future research should explore scalability and cost-effectiveness. Implementing ongoing monitoring and regular system audits are recommended to sustain the improvements observed post-intervention. Quasi-Experimental Design, Public Health Surveillance, Ethiopia, Reporting Accuracy

Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ethiopia, Geographic Information Systems, Public Health Surveillance, Quasi-Experimental Design, Spatial Analysis, Evaluation Metrics, Data Quality Assurance*

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