



Methodological Evaluation of Public Health Surveillance Systems Adoption in Ethiopia: A Quasi-Experimental Design Study

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Abstract

Public health surveillance systems are crucial for monitoring infectious diseases in Ethiopia, where healthcare infrastructure can be limited. A quasi-experimental design was employed with a sample of 150 healthcare facilities randomly selected from regions across Ethiopia. Surveys were conducted to measure system adoption using standardised tools. Among the surveyed facilities, 72% reported adopting at least one aspect of the surveillance system, indicating moderate levels of integration into routine operations. The findings suggest that while there is some uptake of public health surveillance systems in Ethiopia, more support and training are needed to enhance their effectiveness. Health authorities should prioritise capacity building for healthcare providers to improve adoption rates and system performance. Public Health Surveillance Systems, Quasi-Experimental Design, Healthcare Providers, Detection of Outbreaks Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Geographic Surveillance, Quasi-Experimental Design, Public Health Systems, Adoption Rates, Methodology, Evaluation

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