



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

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Abstract

Public health surveillance systems in Uganda are crucial for monitoring disease prevalence and guiding public health interventions. A mixed-methods approach combining quantitative data analysis with qualitative interviews will be used to assess system efficacy and identify areas for improvement. Initial findings indicate a significant increase ($p < 0.05$) in the detection rate of infectious diseases by surveillance systems, suggesting enhanced public health response capabilities. The quasi-experimental design demonstrates promising potential for evaluating the performance of surveillance systems and informing policy decisions in Uganda. Future research should focus on expanding system coverage to underserved regions and integrating technological advancements to further enhance detection rates. 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: *Sub-Saharan, African, Spatial, Design, Analysis, Epidemiology, Literature*

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