



Methodological Evaluation of Public Health Surveillance Systems in Uganda: A Randomized Field Trial

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Abstract

Public health surveillance systems in Uganda are crucial for monitoring infectious diseases such as cholera and malaria. However, their effectiveness varies widely across different regions. A comprehensive search strategy was employed using databases like PubMed and Google Scholar. Studies were included if they provided quantitative data on surveillance outcomes or methodologies used. The review identified several themes related to the structure, implementation, and evaluation of public health surveillance systems in Uganda. For instance, a randomized field trial found that incorporating community engagement strategies led to an average 15% reduction in reporting delays (95% CI: 7-23%). The systematic review provides insights into the efficacy of different surveillance methodologies and highlights the importance of stakeholder collaboration for improving health outcomes. Public health officials are encouraged to adopt randomized field trials as a methodological approach to evaluate the efficiency of their systems and incorporate community engagement strategies in future implementations. 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: *Public health, surveillance systems, Uganda, randomized trials, methodological evaluation, infectious diseases, geographic variation*

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