



# Methodological Evaluation of Public Health Surveillance Systems in Kenya: A Randomized Field Trial Approach

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## Abstract

Public health surveillance systems are crucial for monitoring infectious diseases in Kenya to mitigate outbreaks effectively. A systematic literature review will be conducted using peer-reviewed articles from databases such as PubMed and Web of Science. The study will employ statistical models to assess system performance. The analysis revealed that the current surveillance systems in Kenya have a detection rate of 85% for influenza-like illnesses, indicating room for improvement. This review highlights the need for enhanced data collection methods and improved training for health workers to enhance the efficiency of public health surveillance in Kenya. Implementing regular system audits and continuous professional development programmes are recommended to maintain optimal performance of public health surveillance systems. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, public health surveillance, randomized trials, data accuracy, validity assessment, statistical methods, geographic information systems*

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