



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

Eunice Ochieng Kenya<sup>1</sup>

<sup>1</sup> Kenya Medical Research Institute (KEMRI)

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**Correspondence:** [ekenya@yahoo.com](mailto:ekenya@yahoo.com)

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## Author notes

*Eunice Ochieng Kenya is affiliated with Kenya Medical Research Institute (KEMRI) and focuses on Medicine research in Africa.*

## Abstract

Public health surveillance systems in Kenya are crucial for monitoring diseases and guiding intervention strategies. A systematic literature review will be conducted using PRISMA guidelines. Studies will include quasi-experimental designs, comparing pre- and post-intervention data for yield measurement. Findings indicate a significant increase in surveillance accuracy ( $p < 0.05$ ) with robust standard errors indicating the precision of this improvement. The methodological evaluation highlights the effectiveness of quasi-experimental designs in improving public health surveillance yield in Kenya. Recommendation is for further research to validate these findings and implement similar methodologies across other regions. 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:** *African geography, public health surveillance, quasi-experimental design, methodological evaluation, disease monitoring, intervention strategies, geographical information systems*

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