



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

Omar Kibet<sup>1</sup>

<sup>1</sup> Technical University of Kenya

**Published:** 13 May 2009 | **Received:** 16 December 2008 | **Accepted:** 23 March 2009

**Correspondence:** [okibet@hotmail.com](mailto:okibet@hotmail.com)

**DOI:** [10.5281/zenodo.18884044](https://doi.org/10.5281/zenodo.18884044)

## Author notes

*Omar Kibet is affiliated with Technical University of Kenya and focuses on Medicine research in Africa.*

## Abstract

Public health surveillance systems are crucial for monitoring infectious diseases in developing countries like Kenya. A mixed-methods approach combining quantitative data analysis with qualitative interviews to assess system performance and identify areas for improvement. The median time from symptom onset to reporting was reduced by 24% in the intervention group compared to baseline, indicating improved efficiency. The trial validated the effectiveness of targeted interventions on reducing detection delays in public health surveillance systems. Implementing data-driven strategies and regular system audits are recommended for enhancing surveillance capabilities. 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:** Kenya, Public Health Surveillance, Randomized Field Trial, Methodology, Evaluation, Epidemiology, Data Quality Assurance

## ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

**Email:** [info@parj.africa](mailto:info@parj.africa)

Request your copy of the full paper today!

## SUBMIT YOUR RESEARCH

**Are you a researcher in Africa? We welcome your submissions!**

Join our community of African scholars and share your groundbreaking work.

**Submit at:** [app.parj.africa](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge