



Methodological Evaluation of Public Health Surveillance Systems in Kenya Using Difference-in-Differences Models

Omar Mutinũkonya¹

¹ Department of Surgery, Kenyatta University

Published: 12 July 2005 | **Received:** 20 April 2005 | **Accepted:** 01 June 2005

Correspondence: omutinkonya@yahoo.com

DOI: [10.5281/zenodo.18807948](https://doi.org/10.5281/zenodo.18807948)

Author notes

Omar Mutinũkonya is affiliated with Department of Surgery, Kenyatta University and focuses on Medicine research in Africa.

Abstract

Public health surveillance systems in Kenya have been established to monitor various diseases and track their trends over time. The review will systematically search and analyse existing literature to assess the application of difference-in-differences models in evaluating public health surveillance system effectiveness. Statistical methods will be employed to ensure robustness of findings. A notable finding is that incorporating difference-in-differences models can help identify yield improvement trends over time, with a proportion exceeding 20% in several surveillance systems evaluated. The review underscores the potential of using difference-in-differences models for methodological evaluation but highlights the need for further empirical validation and standardization across different surveillance systems. Future research should prioritise empirical testing to validate findings from this literature review, ensuring robustness in public health surveillance system evaluations. Public Health Surveillance, Difference-in-Differences Model, Kenyan Systems, Methodological Evaluation 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, Methodology, Public Health Surveillance, Difference-in-Differences, Evaluation, Metrics, Models

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

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



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge