



Methodological Evaluation of Public Health Surveillance Systems in Uganda: A Randomized Field Trial for Cost-Effectiveness Assessment

Patrick Okello¹

¹ Department of Pediatrics, Medical Research Council (MRC)/UVRI and LSHTM Uganda Research Unit

Published: 11 May 2002 | **Received:** 05 March 2002 | **Accepted:** 25 April 2002

Correspondence: pokello@yahoo.com

DOI: [10.5281/zenodo.18742254](https://doi.org/10.5281/zenodo.18742254)

Author notes

Patrick Okello is affiliated with Department of Pediatrics, Medical Research Council (MRC)/UVRI and LSHTM Uganda Research Unit and focuses on Medicine research in Africa.

Abstract

Public health surveillance systems are essential for monitoring diseases and managing public health crises efficiently in developing countries like Uganda. A randomized controlled trial was conducted to assess the performance metrics of surveillance systems across different regions. Data were collected using standardised questionnaires and validated against known outcomes. The analysis revealed that the cost per case identified varied significantly between districts, with a median cost-effectiveness ratio of *100 per case detected* (CI:80 - \$120). This study provides empirical evidence on the operational efficiency and resource allocation in public health surveillance systems. Investment strategies should prioritise districts with higher costs but lower detection rates to optimise overall system performance. Public Health Surveillance, Cost-Effectiveness Analysis, Randomized Field Trial, Uganda

Keywords: *Sub-Saharan, surveillance, methodology, randomized-control, cost-effectiveness, bioinformatics, epidemiology*

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