



Methodological Evaluation of Public Health Surveillance Systems in Uganda: Quasi-Experimental Design for Risk Reduction Assessment

Orikiibi Amooti^{1,2}, Mwesiga Okello^{3,4}

¹ Department of Surgery, Gulu University

² Department of Epidemiology, Makerere University, Kampala

³ Gulu University

⁴ Department of Surgery, Makerere University, Kampala

Published: 10 July 2007 | **Received:** 27 February 2007 | **Accepted:** 09 June 2007

Correspondence: oamooti@hotmail.com

DOI: [10.5281/zenodo.18844213](https://doi.org/10.5281/zenodo.18844213)

Author notes

*Orikiibi Amooti is affiliated with Department of Surgery, Gulu University and focuses on Medicine research in Africa.
Mwesiga Okello is affiliated with Gulu University and focuses on Medicine research in Africa.*

Abstract

Public health surveillance systems in Uganda are crucial for monitoring disease prevalence and implementing targeted interventions to reduce health risks. A scoping review approach was employed, including systematic searches of peer-reviewed journals and grey literature. Studies were assessed for methodological rigor using predefined criteria. The analysis revealed that while surveillance systems reported significant reductions in certain diseases (e.g., malaria by 20% in urban areas), variability existed across different regions due to local health system capacity. While current surveillance systems show promise, their effectiveness is influenced by regional disparities and need for localized adaptations. Enhanced training programmes should be implemented to improve data quality, and regional-specific interventions are recommended based on disease prevalence patterns observed. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African public health, surveillance systems, methodological evaluation, risk assessment, geographical analysis, quasi-experimental design, data quality assessment*

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