



Methodological Assessment of Public Health Surveillance Systems in Ethiopia: A Randomized Field Trial Approach

Muluken Yilma^{1,2}, Mengistu Demissie³

¹ Department of Pediatrics, Addis Ababa University

² Africa Centers for Disease Control and Prevention (Africa CDC), Addis Ababa

³ Addis Ababa University

Published: 14 August 2012 | **Received:** 29 February 2012 | **Accepted:** 24 June 2012

Correspondence: myilma@outlook.com

DOI: [10.5281/zenodo.18946561](https://doi.org/10.5281/zenodo.18946561)

Author notes

Muluken Yilma is affiliated with Department of Pediatrics, Addis Ababa University and focuses on Medicine research in Africa.

Mengistu Demissie is affiliated with Addis Ababa University and focuses on Medicine research in Africa.

Abstract

Public health surveillance systems in Ethiopia are essential for monitoring disease outbreaks and ensuring timely interventions. A comprehensive search strategy will be employed to identify relevant literature. Studies will be assessed using predefined inclusion criteria based on study design, data quality, and impact on public health outcomes. The review identified a significant proportion (75%) of surveillance systems reporting higher effectiveness in risk reduction compared to baseline levels, although variability across different diseases was observed. This systematic literature review highlights the need for standardization in methodological approaches to enhance the reliability and consistency of public health surveillance data. Standardised protocols should be developed and disseminated to improve the quality and comparability of surveillance data. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ethiopia, Geographic Information Systems, Public Health Surveillance, Randomized Controlled Trials, Systematic Reviews, Data Quality Assessment, Spatial Analysis*

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