



Methodological Evaluation of Public Health Surveillance Systems in Senegal: A Randomized Field Trial Approach

Mamadou Diallo¹, Seyni Diop^{1,2}

¹ Cheikh Anta Diop University (UCAD), Dakar

² Department of Internal Medicine, Institut Pasteur de Dakar

Published: 02 January 2008 | **Received:** 08 August 2007 | **Accepted:** 06 November 2007

Correspondence: mdiallo@yahoo.com

DOI: [10.5281/zenodo.18867758](https://doi.org/10.5281/zenodo.18867758)

Author notes

Mamadou Diallo is affiliated with Cheikh Anta Diop University (UCAD), Dakar and focuses on Medicine research in Africa.

Seyni Diop is affiliated with Department of Internal Medicine, Institut Pasteur de Dakar and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of public health surveillance systems systems in Senegal: randomized field trial for measuring clinical outcomes in Senegal. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Methodological evaluation of public health surveillance systems systems in Senegal: randomized field trial for measuring clinical outcomes, Senegal, Africa, Medicine, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. 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: *Sub-Saharan, surveillance, methodology, randomized-control, evaluation, outcomes, public-health*

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