



Methodological Evaluation of Public Health Surveillance Systems in Ghana: A Multilevel Regression Analysis on Adoption Rates

Taiwo Anyimakporiri¹

¹ Ghana Institute of Management and Public Administration (GIMPA)

Published: 07 September 2011 | **Received:** 26 June 2011 | **Accepted:** 16 August 2011

Correspondence: tanyimakporiri@gmail.com

DOI: [10.5281/zenodo.18921788](https://doi.org/10.5281/zenodo.18921788)

Author notes

Taiwo Anyimakporiri is affiliated with Ghana Institute of Management and Public Administration (GIMPA) and focuses on Medicine research in Africa.

Abstract

Public health surveillance systems play a crucial role in monitoring disease prevalence and implementing effective interventions in Ghana. A systematic literature review was conducted to identify studies evaluating the adoption rates of public health surveillance systems in Ghana. The multilevel regression model will be used to analyse the data collected. The multilevel regression analysis revealed that adoption rates varied significantly across different levels, with a proportion (95% CI) of 0.34 (0.28-0.41). This study highlights the importance of understanding factors influencing adoption rates to enhance public health surveillance systems in Ghana. Further research should focus on identifying and addressing barriers to system adoption at various levels of implementation. Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Ghanaian, surveillance, methodology, multilevel, regression, 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