



# Methodological Assessment of Public Health Surveillance Systems in Ghana: A Quasi-Experimental Approach to Clinical Outcome Measurement

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**Published:** 25 November 2008 | **Received:** 10 July 2008 | **Accepted:** 30 September 2008

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**DOI:** [10.5281/zenodo.18866028](https://doi.org/10.5281/zenodo.18866028)

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## Abstract

Public health surveillance systems are crucial for monitoring infectious diseases in Ghana's healthcare sector. A quasi-experimental design was employed to evaluate the effectiveness and accuracy of surveillance data collection methods. The analysis revealed a significant proportion (45%) of inaccuracies in reported case counts due to underreporting and misclassification. The reviewed systems need enhancements, particularly in data quality control measures. Enhanced training for surveillance personnel and the implementation of robust validation procedures are recommended. 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 geography, public health surveillance, quasi-experimental design, clinical outcome measurement, methodological assessment, infectious disease monitoring, Ghana*

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