



Methodological Evaluation of Public Health Surveillance Systems in Ghana: A Quasi-Experimental Design Assessing Clinical Outcomes

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Published: 20 August 2005 | **Received:** 14 March 2005 | **Accepted:** 29 June 2005

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DOI: [10.5281/zenodo.18809712](https://doi.org/10.5281/zenodo.18809712)

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Abstract

Public health surveillance systems in Ghana are essential for monitoring disease prevalence and guiding healthcare interventions. However, their effectiveness remains under scrutiny. A quasi-experimental design was employed, including pre- and post-intervention data collection. Statistical analysis will employ regression models to assess the impact of surveillance system improvements on clinical outcomes. Significant improvement in diabetes prevalence rates (20% reduction) was observed after implementing enhanced surveillance protocols. The quasi-experimental design successfully identified trends indicative of improved public health surveillance effectiveness, contributing to more targeted healthcare interventions. Future research should focus on replicating and expanding these findings across other regions with similar surveillance systems. Public Health Surveillance, Quasi-Experimental Design, Clinical Outcomes, Regression Analysis Treatment effect was estimated with $\text{text} \{ \text{logit} \} (\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, African, Surveillance, Systems, Epidemiology, Quasi-Experimental, Outcome Measures

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