



# Methodological Evaluation of Public Health Surveillance Systems in South Africa: Quasi-Experimental Design for Risk Reduction Measurement

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## Abstract

Public health surveillance systems are crucial for monitoring disease outbreaks and other public health events in South Africa. A systematic literature review will be conducted to assess the validity and reliability of surveillance data collection methods, focusing on studies published between and . Findings indicate that while most systems use a combination of passive and active reporting mechanisms, there is significant variability in data accuracy due to inconsistencies in reporting practices. The quasi-experimental design will provide insights into the impact of surveillance system improvements on risk reduction outcomes, facilitating evidence-based policy recommendations. Recommendation for policymakers includes enhancing training programmes for health workers and establishing clearer guidelines for data collection protocols. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African, Methodology, Surveillance, Quasi-experimental, Evaluation, Public health, Research design

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