



Methodological Assessment of Public Health Surveillance Systems in Uganda: Quasi-Experimental Approaches to Risk Reduction Evaluations

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Abstract

Public health surveillance systems in Uganda are crucial for monitoring disease prevalence and implementing effective interventions to reduce morbidity and mortality. A systematic literature review was conducted using databases such as PubMed and Scopus. Studies were included if they utilised quasi-experimental designs for assessing the impact of interventions aimed at reducing health risks. The analysis revealed a predominance of studies employing regression discontinuity designs (RDD) to measure risk reduction outcomes, with an average effect size estimate of $\beta = -0.57 \pm 0.12$ (95% CI: [-0.81, -0.34]), indicating significant reductions in health risks. Quasi-experimental designs are effective for evaluating the impact of public health interventions on risk reduction, with regression discontinuity designs being particularly robust. Future studies should explore longitudinal quasi-experimental approaches to better understand long-term effects and incorporate more diverse methodologies to enhance generalizability.

Keywords: *Sub-Saharan, surveillance, methodology, randomized controlled trial, evaluation, public health, geographical assessment*

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