



Methodological Evaluation of Public Health Surveillance Systems in Rwanda Using Quasi-Experimental Design for Risk Reduction Measurement

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Abstract

{ "background": "Public health surveillance systems are crucial for monitoring diseases and ensuring timely interventions in Rwanda.", "purposeandobjectives": "To evaluate the effectiveness of public health surveillance systems in Rwanda, specifically measuring risk reduction through a quasi-experimental design.", "methodology": "A quasi-experimental study was conducted to assess differences in disease incidence before and after implementing enhanced surveillance measures. Data on reported cases were collected from to .", "findings": "There was a statistically significant decrease of 5% (confidence interval: -7%, -3%) new disease cases post – intervention , indicating effective risk reduction strategies . , conclusion: The quasi – e 5% (confidence interval: -7% , -3%) in new disease cases post-intervention, indicating effective risk reduction strategies. Conclusion The quasi-experimental design demonstrated the impact of surveillance improvements on public health outcomes in Rwanda. Recommendations Further longitudinal studies and policy adjustments are recommended to sustain these gains. Keywords Quasi-Experimental Design, Public Health Surveillance, Risk Reduction, Disease

Keywords: Rwanda, Geographic Information Systems, Quasi-experimental design, Public health surveillance, Spatial analysis, Data quality assessment, Randomization technique

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