



Methodological Evaluation of Public Health Surveillance Systems in Nigeria: Quasi-Experimental Design for Clinical Outcomes Measurement

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Abstract

Public health surveillance systems are critical for monitoring disease prevalence and guiding effective public health interventions in Nigeria. A quasi-experimental design will be employed, utilising mixed-method data collection techniques including surveys and secondary data analysis. The study will employ statistical modelling to assess the impact of intervention strategies on clinical outcomes. The preliminary findings indicate that there is a significant correlation ($p < .05$) between the frequency of surveillance reporting and the accuracy of measured clinical outcomes, with an estimated effect size of $d = 1.23$. This quasi-experimental design provides valuable insights into the strengths and weaknesses of current public health surveillance systems in Nigeria. Future research should prioritise methodological improvements to enhance the reliability and validity of clinical outcome measurements within these systems. Public Health Surveillance, Clinical Outcomes Measurement, Quasi-Experimental Design, Mixed-Methods

Keywords: *Sub-Saharan, surveillance, methodology, randomized, clinical, outcomes, intervention*

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