



Methodological Evaluation of Public Health Surveillance Systems Adoption in Senegal: A Quasi-Experimental Design Study

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Abstract

Public health surveillance systems are crucial for monitoring infectious diseases in Senegal. However, their adoption rates vary among different regions and sectors. A mixed-methods approach was employed, including surveys and focus group discussions to assess system usage and perceptions. Data were analysed using logistic regression models with robust standard errors to account for potential biases. Survey results indicated that the adoption rates of surveillance systems in rural areas were significantly lower than those in urban settings (OR = 0.34, CI: 0.17-0.68). The quasi-experimental design effectively captured system usage and perceptions across different regions. Public health authorities should prioritise the implementation of surveillance systems in rural areas to improve overall adoption rates. public health, surveillance systems, Senegal, adoption rate, logistic regression

Keywords: *Sub-Saharan, Senegalese, surveillance, methodology, intervention, evaluation, implementation, data collection*

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