



Public Health Surveillance Systems Adoption Rates in Ghana: A Panel Data Evaluation

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Abstract

Public health surveillance systems are crucial for monitoring infectious diseases and managing outbreaks in Ghana. A panel data approach was employed to analyse the adoption rates of these systems. The study utilised logistic regression models for estimating the probability of system adoption as a function of various socio-economic and administrative variables. The analysis revealed that regions with higher levels of urbanization were significantly more likely to adopt public health surveillance systems (odds ratio = 1.25, CI: 1.07-1.46). Public health surveillance system adoption in Ghana is influenced by urbanization and other socio-economic factors. Investment in infrastructure and training programmes should be prioritised to enhance the effectiveness of public health surveillance systems across all regions of Ghana. Public Health Surveillance, Logistic Regression, Urbanization, Adoption Rates

Keywords: *Sub-Saharan, infectious diseases, epidemiology, surveillance, panel data, econometric analysis, health policy*

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