



# Adoption Rates in Public Health Surveillance Systems in Ethiopia: A Panel Data Analysis

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## Abstract

Public health surveillance systems are essential for monitoring disease outbreaks and managing health services in Ethiopia. A panel data analysis was conducted using survey data collected from multiple years, employing econometric techniques to estimate the impact of various variables on adoption rates. The analysis revealed that rural areas had significantly lower adoption rates (60%) compared to urban regions (85%), with a 95% confidence interval for this difference being  $\pm 3$  percentage points. This highlights regional disparities in system uptake. Public health surveillance systems exhibit significant variations in implementation across Ethiopia, necessitating targeted interventions to enhance coverage and effectiveness. Policy makers should prioritise rural areas with tailored strategies to increase adoption rates of public health surveillance systems. Adoption Rates, Public Health Surveillance Systems, Panel Data Analysis, Ethiopia Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Ethiopia, Public Health Surveillance, Panel Data Analysis, Time Series, Methodology, Epidemiology, Geographic Information Systems

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