



Methodological Assessment of Public Health Surveillance Systems in Senegal: A Randomized Field Trial Approach

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Abstract

Public health surveillance systems in Senegal are crucial for monitoring infectious diseases and ensuring timely interventions. A mixed-method approach combining quantitative data analysis with qualitative interviews to assess system performance. The randomized field trial revealed an improvement in timely notification rates by 20% compared to baseline conditions (95% CI: 18-22%). The enhanced surveillance led to more effective disease control measures, demonstrating the need for continuous system optimization. Public health authorities should prioritise stakeholder engagement and resource allocation to improve operational efficiency. Public Health Surveillance, Clinical Outcomes, Randomized Field Trial, Senegal Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, geospatial, triangulation, intervention, evaluation, randomized, cluster*

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