



Adoption Rates in Public Health Surveillance Systems: A Randomized Field Trial in Ethiopia

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Abstract

Public health surveillance systems are crucial for disease detection and response in developing countries like Ethiopia. A randomized controlled trial was conducted in selected healthcare facilities across Ethiopia. Participants were randomly assigned to either receive standard training or no additional support. In the control group, only 35% of participants reported using the surveillance system regularly, compared to 70% in the intervention group who received additional training and incentives. The randomized field trial demonstrated that targeted interventions significantly improved adoption rates of public health surveillance systems. Healthcare facilities should prioritise regular training sessions and performance-based rewards to enhance the effectiveness of these systems. Public Health Surveillance, Adoption Rates, Randomized Field Trial, 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: *African geography, Public health surveillance, Randomized controlled trial, Adoption rates, Health facility intervention, Methodological evaluation, Community engagement*

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