



Policy Interventions and Surveillance Coverage in Rural Tuberculosis Notification Rates: A Case Study from Benin Sub-Saharan Africa

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Abstract

Tuberculosis (TB) remains a significant public health concern in rural areas of Sub-Saharan Africa, including Benin. Surveillance coverage and timely notifications are crucial for effective TB control. A mixed-methods approach was employed, combining quantitative analysis (notification rates) with qualitative interviews to explore contextual factors influencing surveillance effectiveness. Notification rates showed a significant increase from baseline after policy interventions were implemented, particularly in areas with higher poverty indices and lower healthcare infrastructure. Policy-driven interventions significantly improved TB surveillance coverage in rural Benin, highlighting the importance of multifaceted approaches to enhance public health outcomes. Continued support for community-based TB programmes and enhanced collaboration between national and local health authorities are recommended to sustain these improvements. 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, rural, surveillance, intervention, notification, control, epidemiology*

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