



# Effectiveness of Mobile Health Clinics in Tuberculosis Diagnosis and Treatment Compliance in Southern Nigeria: A Three-Month Assessment

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## Abstract

Mobile health clinics have emerged as a critical tool in addressing healthcare access challenges, particularly for tuberculosis (TB) diagnosis and treatment compliance in resource-limited settings. A mixed-methods approach combining quantitative data on clinic attendance, test results, and qualitative feedback from patients and healthcare providers was employed. Mobile clinics recorded an average compliance rate of 85% in TB treatment completion, with significant improvement observed in areas with limited infrastructure compared to urban centers. The mobile health clinics demonstrated effective patient engagement and adherence to TB treatment protocols, highlighting their role as a flexible solution for healthcare access. Further studies should explore scalability and cost-effectiveness of mobile clinics on a larger scale, particularly in underserved rural regions. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, Mobile clinics, Tuberculosis diagnostics, Treatment adherence, Community health services, Spatial epidemiology, Randomized controlled trials*

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