



Mobile Healthcare Clinic Services Expansion and Patient Satisfaction in Northern Nigeria Highlands: Education Impact on Health Literacy

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Abstract

The Northern Nigeria Highlands face significant healthcare disparities due to remote locations and limited access to medical services. A mixed-methods approach was employed, including pre- and post-surveys for quantitative data collection and focus group discussions for qualitative insights. Patient demographics were stratified by gender and age to ensure comprehensive coverage. Patient satisfaction scores increased significantly from 72% to 85% after mobile clinic services expansion, with a notable improvement in health literacy education among female participants ($p < 0.01$). The findings suggest that targeted health literacy interventions can enhance patient satisfaction and improve healthcare outcomes for rural populations. Continued implementation of mobile clinics coupled with ongoing health literacy programmes is recommended to address disparities in remote areas. Patient Satisfaction, Mobile Healthcare Clinics, Health Literacy Education, Northern Nigeria Highlands 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: *Geographic, Highlands, Mobile Health Clinics, Patient Satisfaction, Health Literacy Education, Community Health, Mixed-Methods Approach*

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