



Mobile Health Clinics and Chronic Disease Management in Sierra Leone: An Adoption Study

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Abstract

Mobile health clinics have been introduced in various settings to improve access to healthcare services, particularly for chronic disease management among underserved populations. A mixed-methods approach was employed, combining quantitative data from clinic registration records and qualitative insights through interviews with patients and healthcare providers. Mobile health clinics were adopted by approximately 45% of the target population in Sierra Leone. Patients reported higher satisfaction with mobile clinics compared to traditional facilities ($p < 0.01$). The findings suggest that mobile health clinics can effectively enhance chronic disease management outcomes and patient experiences, warranting further implementation strategies. Future research should explore the long-term sustainability of mobile clinic programmes in Sierra Leone and identify best practices for integration into existing healthcare systems. Mobile Health Clinics, Chronic Disease Management, Adoption Rates, Patient Satisfaction, Sierra Leone 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: *Chronic Disease Management, Mobile Health Clinics, Geographic Information Systems, Qualitative Research, Quantitative Analysis, Community Engagement, Health Informatics*

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