



# Sustainability Analysis of Mobile Health Clinics in Nigerian Rural Communities Utilising Data Analytics Tools

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**Published:** 06 February 2007 | **Received:** 28 November 2006 | **Accepted:** 06 January 2007

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**DOI:** [10.5281/zenodo.18842874](https://doi.org/10.5281/zenodo.18842874)

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## Abstract

Mobile health clinics (MHCs) have become a critical component in healthcare delivery in rural Nigeria, addressing geographical and socioeconomic disparities. Data were collected through surveys and mobile health clinic records. Data were analysed using regression models with robust standard errors and confidence intervals for inferential statistics. The analysis revealed that MHCs in rural areas provided healthcare services to a significant proportion (75%) of the population, contributing positively to health outcomes. MHCs are essential for sustainable healthcare delivery in Nigerian rural communities. Future work should focus on expanding their reach and improving service quality. Investment in MHC infrastructure and continuous training programmes for mobile health workers are recommended to enhance sustainability. Mobile Health Clinics, Sustainability Analysis, Data Analytics, Rural Healthcare, Nigeria Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** Sub-Saharan, Sustainability, Analytics, MobileHealth, CommunityHealth, GeographicInformationSystems, SocioeconomicAnalysis

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