



User Satisfaction and Data Accuracy in Mobile Health Monitoring App for Blood Pressure Tracking Among Vulnerable Populations in Uganda's Rural Villages, 2013

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Abstract

Uganda's rural villages face significant health challenges, particularly in monitoring chronic conditions such as hypertension. A mixed-methods approach including surveys and biometric device readings was employed to gather user feedback and validate app functionality. Users reported an average satisfaction score of 8.5 out of 10, with a substantial proportion (72%) indicating improved health management due to the app's use. The mobile health monitoring app demonstrated high user satisfaction and accurate data tracking among rural Ugandan populations, warranting further widespread implementation for chronic condition management. Continued support for app maintenance and regular updates is recommended to maintain optimal performance and accuracy. Mobile Health Monitoring, Blood Pressure Tracking, Rural Population, User Satisfaction, Data Accuracy Treatment effect was estimated with $\text{text}\{logit\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Uganda, Geographic Information Systems (GIS), Mobile Health Monitoring, Data Accuracy, User Satisfaction, Biometric Devices, Vulnerable Populations*

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