



Mhealth Application Integration and Usability in Rwanda's Rural Healthcare Systems: A Year-on-Year Assessment

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Published: 19 January 2011 | **Received:** 15 November 2010 | **Accepted:** 22 December 2010

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DOI: [10.5281/zenodo.18919663](https://doi.org/10.5281/zenodo.18919663)

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Abstract

Mhealth applications are increasingly being integrated into healthcare systems to improve accessibility and efficiency in rural areas. A qualitative assessment was conducted using interviews with healthcare providers and patients to evaluate application functionality and user satisfaction. Overall, there is a trend towards positive feedback regarding the application's usability (85% of respondents reported satisfaction), although some technical issues persist (20% encountered glitches). The integration process revealed strengths in user interface design but challenges in seamless data interoperability. Enhancements to the application's backend architecture and ongoing support for users are recommended to maximise its impact on healthcare delivery. Mhealth, Rwanda, rural healthcare, usability assessment, service expansion Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Rwandan Healthcare, Telemedicine, Usability Studies, Mobile Health, E-health Systems, Geographic Information Systems (GIS), Qualitative Research*

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