



Mobile App Usability and Acceptance for Cancer Screening among Rural Senegalese Farmers in Uganda: A Comparative Study

Kizza Musoke¹

¹ Department of Cybersecurity, Makerere University, Kampala

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Correspondence: kmusoke@gmail.com

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Author notes

Kizza Musoke is affiliated with Department of Cybersecurity, Makerere University, Kampala and focuses on Computer Science research in Africa.

Abstract

Mobile applications designed for cancer screening have shown promise in urban settings but their feasibility and effectiveness in rural areas, particularly among farmers, need further investigation. The study employed a mixed-methods approach involving surveys (n=200) and qualitative interviews (n=15). App usability was evaluated using the System Usability Scale (SUS), while acceptance levels were analysed through content validity indices. Data on early detection outcomes were collected from medical records. Users reported high SUS scores ($M = 78.4$, $SD = 9.6$) indicating good overall usability. Acceptance was notably higher for apps with integrated educational resources ($p < 0.01$), contributing to improved early detection of breast and cervical cancers in the study population. The mobile app intervention demonstrated significant benefits in enhancing cancer screening practices among rural farmers, suggesting a feasible strategy for wider implementation in similar contexts. Future research should focus on refining app content and expanding user testing to ensure broader applicability across different cultural settings. Mobile Apps, Cancer Screening, Rural Farmers, Usability, Acceptance

Keywords: *African Geography, Mobile Usability, Acceptance Studies, Cultural Adaptation, Early Detection Models, Geographic Information Systems, Qualitative Research Methods*

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