



Implementing Mobile Health Apps to Reduce Maternal Mortality in Nigerian Villages: A Mixed-Methods Study

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Abstract

Maternal mortality remains a significant health challenge in Nigerian villages, despite recent efforts to improve maternal care. A mixed-methods study combining quantitative data from app usage logs and qualitative interviews with community leaders and healthcare providers in eight randomly selected villages. Mobile apps were used by 60% of pregnant women, leading to a 15% reduction in maternal mortality cases reported in the first trimester compared to non-users. The mobile health app intervention showed promise but faced significant technical and cultural barriers during implementation. Implementers should prioritise user-friendly technology training and community engagement strategies for widespread adoption. Maternal Mortality, Mobile Health Apps, Nigeria, Mixed-Methods Study

Keywords: *African geography, mixed methods, qualitative assessment, mobile technologies, health informatics, data triangulation, rural healthcare delivery*

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