



Development and Evaluation of a Mobile Health Surveillance App for Urban Youth in Accra, Ghana: An Innovative Approach to Healthcare Accessibility

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Abstract

Urban youth in Accra face significant barriers to accessing healthcare services due to geographical dispersion of health facilities and limited availability of transportation. A mixed-methods approach was employed, including user surveys ($n=150$) \wedge *qualitative interviews with stakeholders* ($n=20$). App functionality was tested in a pilot group of 30 participants. The app demonstrated an engagement rate of 78% among its users, indicating a positive acceptance of the tool for health information dissemination. The mobile health surveillance app successfully addressed barriers to healthcare access and improved youth engagement in preventive care activities. Further development should focus on integrating more advanced features such as telehealth consultations and personalized health recommendations.

Keywords: *African Geography, Mobile Health, Surveillance Apps, Youth Health, Telemedicine, Geographic Information Systems, Quantitative Research*

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