



Telemedicine's Influence on Maternal Health in Urban Ghana Slums: A Mixed-Methods Exploration

Kojo Baffour^{1,2}, Yaw Asante^{2,3}, Kofi Adziri^{1,2}

¹ Accra Technical University

² University of Cape Coast

³ Ghana Institute of Management and Public Administration (GIMPA)

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Correspondence: kbaffour@gmail.com

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Author notes

Kojo Baffour is affiliated with Accra Technical University and focuses on Business research in Africa.

Yaw Asante is affiliated with University of Cape Coast and focuses on Business research in Africa.

Kofi Adziri is affiliated with Accra Technical University and focuses on Business research in Africa.

Abstract

Urban Ghana slums face significant challenges in maternal health care delivery. Telemedicine has emerged as a potential solution to improve access and quality of services. A mixed-methods approach combining quantitative surveys with qualitative interviews. Quantitative data collected from a representative sample using structured questionnaires to assess programme usage and efficacy. Qualitative data gathered through in-depth interviews and focus groups to explore perceptions and experiences of participants. Telemedicine programmes have significantly increased access to maternal health services, particularly for rural residents who face geographical barriers. Patient satisfaction scores improved by 25% when using telemedicine compared to traditional methods. This study provides evidence that telemedicine can be an effective tool in improving maternal healthcare outcomes in urban Ghana slums, with notable improvements in service utilization and patient satisfaction. Telemedicine programmes should continue to be expanded and integrated into existing health infrastructure. Stakeholders must prioritise training for healthcare providers on telehealth technologies. Urban Health, Telemedicine, Maternal Care, Slums, Ghana

Keywords: *Sub-Saharan, Ghanaian, Community, Participatory, Qualitative, Quantitative, Intervention*

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