



Telemedicine in Ghanaian Rural Areas: Evaluation of Maternal Health Outcomes in Lesotho

Motsoho Metsola¹, Mokhotlong Motlhaotla²

¹ National University of Lesotho

² Department of Clinical Research, National University of Lesotho

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Correspondence: mmetsola@aol.com

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Author notes

*Motsoho Metsola is affiliated with National University of Lesotho and focuses on Medicine research in Africa.
Mokhotlong Motlhaotla is affiliated with Department of Clinical Research, National University of Lesotho and focuses on Medicine research in Africa.*

Abstract

Telemedicine has emerged as a promising solution to address healthcare disparities in underserved rural areas of Ghana and Lesotho. A mixed-methods approach was employed, combining quantitative data from surveys with qualitative insights from interviews and focus group discussions. Initial analysis suggests a positive trend in prenatal care utilization among participants who received telemedicine services compared to those without, indicating an improvement in health outcomes. Telemedicine appears effective in enhancing maternal healthcare access in rural settings, particularly for women living far from urban centers. Future research should explore the long-term sustainability and scalability of these interventions across different geographic regions. telemedicine, maternal health, Ghana, Lesotho, mixed-methods Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, Geographic Information Systems, Qualitative Research, Quantitative Data, Telehealth, Community Health Workers, Outcome Evaluation*

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