



Telemedicine in Northern Ghana: Twelve-Month Service Delivery and Outcomes Analysis

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Abstract

Telemedicine has shown promise in improving healthcare access to remote areas, particularly in regions with challenging terrain such as Northern Ghana's mountainous landscapes. A mixed-methods approach was employed, combining quantitative data on service utilization with qualitative feedback from patients and healthcare providers. Teleconsultations were used in 75% of cases, with a significant improvement noted in the timely provision of specialist consultations compared to previous face-to-face services ($p < 0.01$). Telemedicine significantly enhanced access to healthcare services for patients living in remote areas of Northern Ghana. Continue and expand telemedicine services, incorporating feedback from users into future improvements. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, telehealth, e-medicine, mHealth, mobile technology, rural healthcare, mixed methods

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