



Telemedicine in Diabetic Foot Ulcer Management Among Rural Kenyan Patients: A Two-Year Analysis

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Abstract

Diabetic foot ulcers (DFUs) are a significant health burden in rural Kenya, where access to specialized care is limited. A mixed-methods approach including patient surveys and clinical data analysis was employed. Teleconsultations were conducted via secure video platforms, supplemented by regular follow-ups. Telemedicine significantly reduced the time to first consultation (mean reduction of 25% compared to in-person visits) without compromising ulcer healing rates. Telemedicine effectively enhanced access and quality of care for DFU management among rural Kenyan patients, with a notable improvement in patient satisfaction scores (mean increase by 30%). Continued implementation of telemedicine services is recommended to further expand coverage and improve outcomes. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Diabetes, Diabetic Foot Ulcers, Telemedicine, E-health, Epidemiology, Qualitative Analysis*

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