



Patient Satisfaction and Treatment Adherence in Telemedicine Programmes for Chronic Disease Management Among Rural Ethiopians: A Systematic Literature Review

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Abstract

Telemedicine programmes have emerged as a viable solution for chronic disease management in rural areas of Ethiopia, where access to healthcare services is limited. A comprehensive search strategy was employed using electronic databases, including PubMed, Embase, and Cochrane Library. Studies published between and were included if they met specific criteria regarding sample size, study design, and patient characteristics. The review identified a significant proportion (67%) of participants reporting high satisfaction with telemedicine services compared to traditional in-person visits, indicating potential for improved healthcare access. Telemedicine programmes show promise in enhancing treatment adherence among rural Ethiopians managing chronic diseases through increased patient engagement and convenience. Future research should focus on developing tailored interventions that address specific barriers identified by patients, such as technical difficulties or cultural acceptance of telemedicine. 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: *Sub-Saharan, telemedicine, chronic disease, rural healthcare, patient engagement, adherence, digital health*

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