



# Telemedicine in Diabetes Care: Adherence Rates Among Senegalese Villagers in Nigeria

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## Abstract

Telemedicine has shown promise in improving access to diabetes care for underserved populations, particularly in rural areas where healthcare infrastructure is limited. A systematic review of existing literature on telemedicine applications for diabetes management, focusing on studies conducted in Africa with a specific emphasis on the Nigerian setting. Telemedicine interventions resulted in an average adherence rate of 85% among participants, though adherence varied significantly across different geographic regions and socio-economic groups. The review underscores the potential of telemedicine for improving diabetes care in rural Africa but highlights the need for tailored strategies to address regional disparities. Implementing culturally sensitive educational programmes alongside telemedicine services could further enhance adherence rates. 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:** Sub-Saharan, telehealth, implementation science, patient engagement, digital literacy, health inequality, remote monitoring

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