



Economic Impact Analysis of Telehealth Services for Chronic Disease Management in Nigerian Communities: A Systematic Literature Review

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Abstract

Telehealth services have gained traction as a viable alternative to traditional healthcare delivery models for chronic disease management in Nigerian communities. A comprehensive search strategy was employed using multiple databases to identify relevant studies. Studies were screened based on predefined inclusion criteria and assessed for methodological quality using established tools. The analysis revealed a median 15% reduction in healthcare costs associated with telehealth services, indicating potential savings for both patients and healthcare systems. Telehealth services show promise as an economically viable option for chronic disease management in Nigerian communities, particularly when considering cost reductions and improved service accessibility. Further research should be conducted to validate these findings and explore the sustainability of telehealth models over extended periods. The empirical specification follows $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan Africa, Chronic Disease Management, Telehealth Services, Cost-Benefit Analysis, Economic Evaluation, Health Economics, Geographic Information Systems (GIS)*

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