



Telemedicine in Urban Youth Healthcare: A Systematic Review of Mitigating Challenges in Lagos, Nigeria

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Abstract

Telemedicine has emerged as a promising solution to address healthcare challenges in urban youth settings, particularly in resource-constrained environments such as Lagos, Nigeria. A comprehensive search strategy was employed across multiple databases including PubMed and Web of Science, with a focus on studies published from 2000 to 2020. Studies were screened based on predefined inclusion criteria related to telemedicine applications in urban youth healthcare settings. Analysis revealed that while telemedicine showed promise in improving access to healthcare services among urban youth, implementation challenges such as technical malfunctions and patient reluctance persisted, necessitating tailored strategies for overcoming these issues. Telemedicine holds significant potential for enhancing healthcare accessibility and quality among urban youth in Lagos. However, addressing persistent challenges will require innovative solutions that incorporate user-centric design approaches. Healthcare policymakers should prioritise telemedicine infrastructure development to ensure reliable service delivery. Additionally, targeted interventions aimed at improving patient acceptance are essential for maximising the benefits of telemedicine in this setting. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African geography, telehealth, youth health, resource scarcity, e-health, mHealth, qualitative research

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