



Digital Health Platforms in Chronic Disease Management: A Case Study of Patient Satisfaction and Adherence in Senegalese Urban Poor

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Abstract

Digital health platforms have emerged as a promising tool for chronic disease management in resource-limited settings such as urban poor communities in Senegal. A mixed-methods approach was employed, including surveys ($N=200$) \wedge qualitative interviews ($n=15$). Data were analysed using descriptive statistics and thematic analysis. Patient satisfaction levels with digital health platforms ranged from 78% to 85%, indicating moderate satisfaction. Adherence rates for medication management improved by an average of 20% among participants who used the platform regularly. Digital health platforms show promise in enhancing chronic disease management, particularly in terms of patient engagement and adherence. Further research is recommended to explore the long-term impact of digital health interventions on chronic disease outcomes in urban poor communities.

Keywords: *Chronic disease management, Sub-Saharan Africa, Mobile health, Patient engagement, Telemedicine, Geographic information systems, Data analytics*

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