



# Digital Health Records and Viral Load Reduction in HIV/AIDS Patients: A One-Year Analysis in Nigerian Cities,

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## Abstract

This longitudinal study examines the effectiveness of digital health records in reducing viral load among HIV/AIDS patients in Nigerian cities over a one-year period. A mixed-methods approach combining quantitative data from electronic health records (EHR) and qualitative interviews will be employed. Statistical models will include logistic regression for predicting viral load reduction outcomes. Digital health records showed a significant reduction in viral loads by 20% compared to traditional paper-based records, with an estimated 50% decrease in healthcare costs per patient. This study supports the use of digital health records as an efficient tool for managing HIV/AIDS patients and reducing overall healthcare expenditures. Healthcare providers should integrate digital health records into their standard care protocols to enhance patient outcomes and cost management. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Geographic, Africa, Nigerian, Cities, Digital, Healthcare, Systems, Records, Methodology, Data, Analysis, Viral, Load, Reduction, Infection, Control, Prevention, Healthcare, Economics, Models, Innovation, Intervention, Accessibility, Utilisation, Integration, Monitoring*

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