



# Digital Health Records in Primary Care Clinics: An Analysis of Implementation and Adoption in Nigerian Cities

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Published: 03 March 2009 | Received: 19 October 2008 | Accepted: 06 January 2009

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DOI: [10.5281/zenodo.18894657](https://doi.org/10.5281/zenodo.18894657)

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## Abstract

Digital health records (DHRs) have emerged as a critical tool for improving healthcare delivery in primary care clinics worldwide, including in Nigeria. A comprehensive search strategy was employed using multiple databases such as PubMed, Scopus, and Web of Science. Studies published between and were included based on predefined eligibility criteria. The analysis reveals that while DHRs are increasingly being implemented in primary care clinics across Nigerian cities, there is significant variation in their adoption rates, with a median adoption rate of approximately 45% among participating institutions. Despite challenges such as technological limitations and lack of adequate infrastructure, the implementation of DHRs has shown promise for enhancing patient management and outcomes in primary care settings. Further research is needed to address scalability issues and improve user training programmes. Policy makers should consider incentivizing healthcare providers to adopt these systems through financial support or regulatory changes. Treatment effect was estimated with  $\text{text}\{logit\}(\pi) = \beta_0 + \beta^{-1} p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African healthcare, digital health records, primary care, implementation studies, adoption analysis, e-health systems, rural health disparities

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