



Adoption and Acceptability Dynamics of Electronic Health Records in Rural Kenyan Clinics Over Two Decades

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Abstract

The adoption of electronic health records (EHRs) in rural Kenyan clinics has been a subject of interest due to their potential to improve healthcare delivery and data management. The study employed longitudinal observational research design with a mixed-method approach involving quantitative surveys and qualitative interviews in selected clinics. A significant proportion (65%) of clinics adopted EHRs by the end of the second decade, with acceptability levels ranging from 40% to 80%, indicating increasing acceptance over time. The findings suggest a gradual increase in both adoption and acceptability of EHR systems in rural Kenyan clinics, influenced by technological advancements and healthcare policy changes. Future research should explore the long-term impacts of EHRs on clinic operations and patient outcomes, while policymakers should consider incentives for further EHR integration. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Rural, Electronic Health Records (EHRs), Adoption Rates, Acceptability, Geographic Mapping, Qualitative Analysis, Longitudinal Study*

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