



Provider Satisfaction and Patient Flow in Public Hospitals: A Meta-Analysis of Electronic Health Records Implementation in Nairobi, Kenya

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Abstract

Electronic Health Records (EHRs) have been implemented in public hospitals across Nairobi, Kenya, to improve patient flow and provider satisfaction. A comprehensive search strategy was employed to identify relevant studies from the literature. Data were extracted using predefined inclusion criteria, and statistical models accounting for publication bias were applied. Provider satisfaction scores increased by an average of 25% following EHR implementation, while patient flow improvements varied between hospitals with a median reduction of 18%. EHR systems have shown promise in enhancing provider satisfaction and potentially reducing patient wait times in Nairobi's public hospitals. Further studies are recommended to explore broader health system impacts and cost-effectiveness analyses should be conducted before widespread implementation. Electronic Health Records, Provider Satisfaction, Patient Flow, Meta-Analysis, Nairobi Hospitals 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: *Sub-Saharan, Geographic Information Systems (GIS), Randomized Controlled Trials (RCTs), Quality of Care, Evidence-Based Medicine*

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