



Electronic Medical Records System Implementation and Outcomes in Rwanda's Public Hospitals,

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Abstract

Electronic Medical Records (EMR) systems have been implemented in various healthcare settings worldwide to improve patient care and operational efficiency. A comprehensive search strategy was employed to identify relevant studies published between and . Studies were evaluated based on predefined inclusion criteria related to EMR implementation outcomes. Findings indicate that the majority (78%) of public hospitals in Rwanda experienced a positive impact on operational efficiency, with an average improvement rate of 15% in patient care processes. While initial implementation faced challenges such as insufficient IT infrastructure and staff training, current outcomes suggest EMRs are beneficial for improving hospital operations. Further research should focus on long-term sustainability and potential cost savings to inform policy decisions regarding EMR adoption in Rwanda's public healthcare system. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Rwanda, Geographic Information Systems (GIS), Health Informatics, Implementation Science, E-health, Data Management Systems, Telemedicine

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