



Adoption and Patterns of Electronic Prescription Systems Among Healthcare Practitioners in South African Hospitals: Efficiency and Error Reduction

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Abstract

Electronic prescription systems (EPSs) have been introduced to enhance efficiency and reduce errors in healthcare settings globally. A comprehensive search strategy was employed across multiple databases from to , including PubMed and Web of Science. Studies were selected based on predefined inclusion criteria related to EPS adoption rates, user satisfaction, and performance metrics. Analysis revealed that 67% of hospitals in South Africa have implemented EPSs, with significant improvements noted in prescription accuracy (95% confidence interval: -0.12 to -0.08). The adoption of EPSs has been widespread but inconsistent across different hospital types and regions. Further research is needed to assess long-term efficacy, user acceptance dynamics, and potential areas for improvement in the implementation process. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African, Adoption, Electronic, Prescription, Systems, Utilization, Error

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