



# Electronic Prescription Systems in Tanzanian Hospitals: Adherence Rates and Safety Enhancements Evaluation

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## Abstract

Electronic Prescription Systems (EPs) have been introduced in healthcare settings to reduce medication errors and improve patient safety. A mixed-method approach was employed, including surveys among healthcare professionals and observational studies at selected hospitals. Survey results indicated an overall adherence rate of 75% for electronic prescriptions compared to manual systems, with a significant reduction in error rates attributed to the system's features. The EPs have contributed to enhanced safety by reducing medication errors and improving process efficiency. Continuation and further development of EPs are recommended as they demonstrate clear benefits for patient care and hospital operations. Electronic Prescription Systems, Medication Errors, Hospital Safety, Tanzania Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_1$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Tanzania, Electronic Prescription Systems (EPs), Medication Errors, Safety Enhancements, Mixed-Methods Approach, Geographic Health Information System, Evidence-Based Medicine*

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