



Adoption Rates and User Satisfaction of Electronic Medical Records in Rural Healthcare Facilities: A Survey on Data Security Measures in Sudan

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Abstract

Electronic medical records (EMRs) have become increasingly adopted in healthcare settings to improve patient care and administrative efficiency. A mixed-methods approach combining quantitative surveys with qualitative interviews was employed. Among the surveyed rural healthcare facilities in Uganda and Sudan, 65% reported high adoption rates for EMR systems. User satisfaction scores were generally positive but varied significantly by facility size and type of user (doctors vs nurses). Despite challenges, there is a growing acceptance of EMRs in both countries. Enhanced cybersecurity measures are recommended to address data security concerns identified during the study. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_p$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, rural health, EMR adoption, user satisfaction, data security, eHealth, qualitative assessment*

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