



Adoption Patterns of Electronic Prescription Systems in Nigerian Public Hospitals: A Cost-Effectiveness Analysis

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Published: 28 December 2008 | Received: 27 August 2008 | Accepted: 24 November 2008

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DOI: [10.5281/zenodo.18875401](https://doi.org/10.5281/zenodo.18875401)

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Abstract

Electronic prescription systems (EPSs) have been adopted in various healthcare settings to improve efficiency and patient safety. However, their adoption patterns vary significantly across different regions and contexts. A mixed-method approach was employed, including surveys of hospital administrators and a cost-benefit analysis model to assess the financial impact of adopting an EPS system. Surveys revealed that while 45% of public hospitals in Nigeria have implemented EPSs, there is significant variation in adoption rates across different regions. Cost-benefit analyses indicated that implementing an EPS could reduce administrative costs by up to 20%, with a net present value (NPV) of

1.5 $\frac{\text{million}}{\text{five}}$ years. The results suggest that while cost – effectiveness varies, the introduction of EPSs ∈ Nigerian p

$\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Geographical, Public Health, Electronic Health Records, Cost-Benefit Analysis, Implementation Science, Telemedicine, Geographic Information Systems

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