



# Electronic Patient Records and Diagnostic Accidents in Kenyan Hospitals: A Comparative Study

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**Published:** 14 August 2002 | **Received:** 21 May 2002 | **Accepted:** 06 July 2002

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**DOI:** [10.5281/zenodo.18740034](https://doi.org/10.5281/zenodo.18740034)

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## Abstract

This study addresses a current research gap in Medicine concerning Investigation into the Effectiveness of Electronic Patient Record Systems on Diagnostic Errors in Kenyan Hospitals in Kenya. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Investigation into the Effectiveness of Electronic Patient Record Systems on Diagnostic Errors in Kenyan Hospitals, Kenya, Africa, Medicine, comparative study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T X_p$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** African Healthcare, Geographic Medicine, Electronic Health Records, Diagnostic Accuracy, System Evaluation, Regional Comparisons, Data Integrity

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