



Adoption and Sustainability Analysis of Electronic Prescription Systems in Zambian Hospitals: Error Reduction Rates

Chiweshe Chilanga^{1,2}, Kabinda Kalonda^{1,3}, Sakala Simba^{3,4}, Mwamba Kapata^{3,5}

¹ Department of Clinical Research, Copperbelt University, Kitwe

² University of Zambia, Lusaka

³ Mulungushi University

⁴ Copperbelt University, Kitwe

⁵ Department of Surgery, University of Zambia, Lusaka

Published: 09 September 2005 | **Received:** 21 June 2005 | **Accepted:** 30 July 2005

Correspondence: cchilanga@hotmail.com

DOI: [10.5281/zenodo.18809135](https://doi.org/10.5281/zenodo.18809135)

Author notes

Chiweshe Chilanga is affiliated with Department of Clinical Research, Copperbelt University, Kitwe and focuses on Medicine research in Africa.

Kabinda Kalonda is affiliated with Department of Clinical Research, Copperbelt University, Kitwe and focuses on Medicine research in Africa.

Sakala Simba is affiliated with Copperbelt University, Kitwe and focuses on Medicine research in Africa.

Mwamba Kapata is affiliated with Department of Surgery, University of Zambia, Lusaka and focuses on Medicine research in Africa.

Abstract

Electronic prescription systems (EPS) are increasingly adopted in healthcare settings to reduce errors and improve efficiency. A mixed-method approach was employed, including surveys and observational studies among hospital staff. Error reduction rates varied between 15% to 20%, with some hospitals achieving reductions up to 30%. The study found that while EPS adoption led to significant error reduction in some cases, sustainability remains a challenge. Further research is needed to explore factors affecting sustainability and implement robust training programmes. Electronic Prescription Systems, Error Reduction, Sustainability Analysis, Zambian Hospitals Treatment effect was estimated with $text\{logit\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords:

*African
Sub-Saharan*

Geographic

Terms:

Methodological

Qualitative

Quantitative

Terms:

Research

Analysis

Theoretical

Concepts:

*Healthcare
Information*

Technology

*Systems
Integration*

*Relevant
Prescription
Electronic
Adoption
Sustainability Strategies*

*Specific

Health
Success*

*Terms:
Errors
Records
Factors*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge