



Methodological Evaluation of District Hospitals' Systems in Kenya Using Quasi-Experimental Design to Measure Adoption Rates

Kiplagat Wanjiku Cheruiyos^{1,2}, Oscar Mungai Kibet^{1,3}, Wambugu Ngugi Gitonga⁴, Muriuki Oyugi Njuguna^{4,5}

¹ Department of Pediatrics, Technical University of Kenya

² Department of Pediatrics, African Population and Health Research Center (APHRC)

³ African Population and Health Research Center (APHRC)

⁴ Department of Internal Medicine, Maseno University

⁵ Strathmore University

Published: 15 March 2011 | **Received:** 31 October 2010 | **Accepted:** 10 February 2011

Correspondence: kcheruiyos@aol.com

DOI: [10.5281/zenodo.18923788](https://doi.org/10.5281/zenodo.18923788)

Author notes

Kiplagat Wanjiku Cheruiyos is affiliated with Department of Pediatrics, Technical University of Kenya and focuses on Medicine research in Africa.

Oscar Mungai Kibet is affiliated with Department of Pediatrics, Technical University of Kenya and focuses on Medicine research in Africa.

Wambugu Ngugi Gitonga is affiliated with Department of Internal Medicine, Maseno University and focuses on Medicine research in Africa.

Muriuki Oyugi Njuguna is affiliated with Department of Internal Medicine, Maseno University and focuses on Medicine research in Africa.

Abstract

District hospitals in Kenya play a crucial role in healthcare delivery, yet their operational efficiency varies significantly across different districts. A quasi-experimental design was employed with data collected from surveys and administrative records. The study aimed at identifying factors influencing protocol adoption using logistic regression analysis. There is a notable difference ($p < 0.05$) in the proportion of hospitals adopting protocols over two years, suggesting variations in district-specific healthcare policies impact adoption rates. The quasi-experimental design successfully identified key drivers affecting protocol adoptions but did not reveal uniform reasons across all districts. District health authorities should prioritise training and support programmes to enhance the implementation of medical protocols. district hospitals, healthcare systems, adoption rates, quasi-experimental design, logistic regression Treatment effect was estimated with $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African healthcare, quasi-experimental design, adoption rates, district hospitals, medical systems, resource allocation, evaluation methodology

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