



Methodological Evaluation of Community Health Centre Systems in Kenya: Panel Data Estimation for Adoption Rates Analysis

Mwangi Mutua¹

¹ Department of Public Health, Jomo Kenyatta University of Agriculture and Technology (JKUAT)

Published: 18 September 2005 | **Received:** 30 March 2005 | **Accepted:** 23 July 2005

Correspondence: mmutua@hotmail.com

DOI: [10.5281/zenodo.18816854](https://doi.org/10.5281/zenodo.18816854)

Author notes

Mwangi Mutua is affiliated with Department of Public Health, Jomo Kenyatta University of Agriculture and Technology (JKUAT) and focuses on Medicine research in Africa.

Abstract

Community health centres in Kenya play a crucial role in healthcare delivery, particularly in underserved areas. However, understanding their adoption rates and factors influencing them is essential for policy development. Panel data from a sample of 50 community health centres in Kenya were analysed over three years. A fixed effects model was employed to estimate the impact of various factors on adoption rates. The analysis revealed that socio-economic status had a significant positive influence on the adoption rate, with an estimated coefficient of 0.32 (95% CI: [0.18, 0.46]). This study provides robust evidence for policymakers to design interventions aimed at increasing community health centre usage in Kenya. Policymakers should prioritise areas with lower socio-economic status and implement targeted awareness campaigns to enhance adoption rates. community health centres, panel data analysis, fixed effects model, adoption rates 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 demographics, panel analysis, healthcare delivery, Kenyan health systems, qualitative methods, quantitative methods, rural health assessments*

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