



# Quasi-Experimental Methodological Assessment of Community Health Centre Systems in Ghana: An Efficiency Gain Evaluation

Abena Kwasi Amoako<sup>1</sup>, Kofi Essien Abban<sup>2,3</sup>, Nana Adjoah Mensah<sup>1,4</sup>

<sup>1</sup> Department of Pediatrics, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi

<sup>2</sup> University of Cape Coast

<sup>3</sup> Kwame Nkrumah University of Science and Technology (KNUST), Kumasi

<sup>4</sup> Department of Pediatrics, University of Ghana, Legon

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**Correspondence:** [aamoako@hotmail.com](mailto:aamoako@hotmail.com)

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## Author notes

*Abena Kwasi Amoako is affiliated with Department of Pediatrics, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi and focuses on Medicine research in Africa.*

*Kofi Essien Abban is affiliated with University of Cape Coast and focuses on Medicine research in Africa.*

*Nana Adjoah Mensah is affiliated with Department of Pediatrics, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi and focuses on Medicine research in Africa.*

## Abstract

Community health centres in Ghana have been established to improve access to healthcare services, particularly for rural populations. However, their effectiveness and efficiency require rigorous evaluation. A mixed-method approach was employed, including quantitative data analysis from surveys and administrative records alongside qualitative interviews with healthcare providers and patients. The study used regression analysis to model efficiency gains. Analysis revealed that resource adequacy had a significant positive impact on patient satisfaction scores ( $\beta = +0.32$ ,  $SE = \pm 0.15$ ), indicating an improvement in service quality despite resource constraints. The quasi-experimental design allowed for the identification of efficiency gains without manipulating treatment interventions, providing robust evidence for future policy development. Efforts should focus on enhancing resource management and training healthcare staff to maximise operational effectiveness and patient care outcomes. Community Health Centres, Efficiency Gains, Quasi-Experimental Design, Regression Analysis

**Keywords:** *Geographic, Sub-Saharan, Health Systems, Efficiency, Evaluation, Randomization, Quasi-Experimental*

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