

# A Quasi-Experimental Evaluation of Cost-Effectiveness in Nigerian Community Health Centre Systems

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## ABSTRACT

**Background:** Community health centres are a cornerstone of primary care delivery in many African nations, yet rigorous economic evaluations of their systems are scarce. Existing studies often lack robust counterfactuals, limiting causal inference on cost-effectiveness.

**Purpose and objectives:** This study aimed to evaluate the cost-effectiveness of an enhanced service delivery model within community health centre systems, using a quasi-experimental design to estimate the incremental cost per disability-adjusted life year (DALY) averted.

**Keywords:** *Community health centres, Cost-effectiveness analysis, Quasi-experimental design, Health systems evaluation, Sub-Saharan Africa*

### Article Highlights

- Difference-in-differences analysis of 50 community health centres.
- Incremental cost-effectiveness ratio: ₦4,850 per DALY averted.
- 78% probability of cost-effectiveness at standard GDP threshold.
- Evidence supports scaling enhanced models in resource-constrained systems.

### Methodological Note

The study employed a quasi-experimental design with matched controls and cluster-robust standard errors, addressing a key gap in causal inference for health economic evaluations in primary care.

*This analysis provides robust economic evidence for primary care system investment in Sub-Saharan Africa.*



## ABSTRACT-ONLY PUBLICATION

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



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