Methodological Evaluation of Community Health Centre Systems in Nigeria: Panel Data Estimation for Clinical Outcomes Assessment

Femi Adebimpe[1], Olalekan Oyedele[2], Chinedu Ifeyinfa[3,4]

[1] Department of Pediatrics, National Centre for Technology Management (NACETEM)

[2] Department of Epidemiology, National Centre for Technology Management (NACETEM)

[3] Nnamdi Azikiwe University, Awka

[4] Department of Pediatrics, University of Nigeria, Nsukka

Correspondence: fadebimpe@yahoo.com

Author notes

Femi Adebimpe is affiliated with Department of Pediatrics, National Centre for Technology Management (NACETEM) and focuses on Medicine research in Africa.

Olalekan Oyedele is affiliated with Department of Epidemiology, National Centre for Technology Management (NACETEM) and focuses on Medicine research in Africa.

Chinedu Ifeyinfa is affiliated with Nnamdi Azikiwe University, Awka and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning Methodological evaluation of community health centres systems in Nigeria: panel-data estimation for measuring clinical outcomes in Nigeria. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Methodological evaluation of community health centres systems in Nigeria: panel-data estimation for measuring clinical outcomes, Nigeria, Africa, Medicine, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Treatment effect was estimated with $text\{logit\}(\pi) = beta\,0 + \beta^{\top} p\,X_i$, and uncertainty reported using confidence-interval based inference.

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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