



Methodological Evaluation of Community Health Centre Systems in Nigeria using Difference-in-Differences for System Reliability Assessment

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Abstract

Community health centres in Nigeria face challenges in service delivery and reliability due to varying infrastructural support. A DiD approach was employed to assess changes in service delivery quality between pre-intervention and post-intervention periods. Uncertainty in findings is addressed through robust standard errors. There is a significant increase of 20% in the number of health consultations reported after implementing infrastructure improvements, with an estimated effect size of 0.8 (95% CI: [0.6, 0.9]). The DiD model effectively measures system reliability and highlights areas requiring further intervention. Enhanced funding for maintenance and training programmes is recommended to sustain the observed improvements in service delivery. Community Health Centres, Difference-in-Differences (DiD), Infrastructure Improvements, Service Delivery Quality

Keywords: *Nigerian, geospatial, DiD, reliability, healthcare systems, evaluation, intervention effectiveness*

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