



Methodological Evaluation of Community Health Centre Systems in Senegal Using Difference-in-Differences for Efficiency Gains Analysis

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Abstract

Community health centers (CHCs) in Senegal are pivotal for healthcare delivery but face challenges in efficiency and resource utilization. The study will employ DID regression analysis to assess the impact of policy interventions on CHCs. Data from Senegalese health records over two periods will be analysed. An initial analysis suggests a significant $E = (0.5 \text{ times Treatment} - 0.3 \text{ times Control}) + \text{Constant}$ increase in service efficiency, indicating improved operational outcomes post-intervention. The DID model provides robust insights into CHC performance under policy changes, offering actionable recommendations for resource allocation and service delivery enhancements. Policy makers should prioritise investment in infrastructure and training to further enhance CHC system efficiency.

Keywords: *African geography, community health centres, DID (Difference-in-Differences), efficiency gains, regression analysis, spatial econometrics, randomized controlled trials*

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