



Methodological Evaluation of Community Health Centre Systems in Senegal Using Difference-in-Differences Model for Adoption Measurement

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Abstract

Community health centers (CHCs) in Senegal have been established to improve healthcare access and quality in underserved areas. A systematic literature review was conducted to identify studies employing DiD models for measuring CHC adoption rates. Studies were selected based on relevance and methodological rigor. The analysis revealed that the DiD model effectively captured changes in CHC usage over time, with a substantial increase observed in CHC visits following their introduction. The use of DiD models provided robust evidence for understanding adoption rates of CHCs in Senegal. Future studies should explore alternative methods to further validate these findings. Further research is recommended to compare the effectiveness of different DiD model specifications and to consider potential confounders that may affect adoption rates. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Sub-Saharan, geographical, intervention studies, quasi-experimental, adoption rates, difference-in-differences, spatial analysis

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