



Methodological Evaluation of Rural Clinics Systems in Senegal Using Panel Data for Clinical Outcomes Measurement

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Abstract

Rural clinics in Senegal face challenges in delivering consistent quality healthcare services. A mixed-method approach combining quantitative econometric analysis with qualitative assessments of clinic operations, focusing on a longitudinal dataset spanning five years. Panel-data regression models revealed significant improvements in patient recovery rates ($p < 0.05$) after implementing standardised protocols at clinics. Standardised clinical guidelines and regular training programmes have led to enhanced patient care outcomes in rural Senegalese health centers. Continue monitoring clinic performance, expand data collection on patient satisfaction, and promote sustainable funding mechanisms for healthcare facilities. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African geography, panel data, econometrics, qualitative assessment, healthcare delivery, rural health systems, methodological evaluation*

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