



Methodological Evaluation of District Hospitals Systems in Senegal: Quasi-Experimental Design for Adoption Rates Measurement

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Abstract

District hospitals in Senegal are critical to healthcare access but face challenges in adopting modern medical practices. A mixed-methods approach combining quantitative survey data and qualitative interviews was employed. The study utilised logistic regression to model adoption rates, with robust standard errors accounting for potential biases. District hospital staff showed moderate interest in adopting new diagnostic tools (35% expressed willingness), indicating a need for targeted educational interventions. The quasi-experimental design proved effective in measuring adoption rates but highlighted the complexity of implementation challenges. Future studies should prioritise stakeholder engagement and tailored training programmes to enhance adoption success. Senegal, District Hospitals, Quasi-Experimental Design, Adoption Rates Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: African healthcare, intervention study, methodological evaluation, quasi-experimental design, medical practice adoption, district hospitals, Senegal

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