



# Methodological Evaluation of District Hospitals Systems in Senegal: Quasi-Experimental Design for Cost-Effectiveness Assessment

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## Abstract

District hospitals in Senegal play a crucial role in healthcare delivery, but their efficiency and cost-effectiveness are often underutilized. A mixed-method approach was employed, including surveys, interviews, and cost-benefit analysis. Data were analysed using regression models to estimate cost-effectiveness ratios (CER). The analysis revealed that the average CER for patient care efficiency in district hospitals is 0.8 per unit of input. *Despite financial constraints, there are opportunities for improving resource allocation*  $\wedge se$   $\text{logit}(\pi) = \beta_0 + \beta^{\text{top}} X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *African geography, district hospitals, healthcare delivery, quasi-experimental design, cost-effectiveness analysis, mixed-methods, evaluation methodology*

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