



# Methodological Evaluation of District Hospital Systems in Senegal: A Randomized Field Trial on Cost-Effectiveness —

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### Abstract

District hospitals in Senegal play a critical role in healthcare delivery, yet their effectiveness and cost-effectiveness are poorly understood. A randomized field trial was conducted across selected districts to measure the efficiency of district hospitals. Data on patient outcomes, resource utilization, and costs were collected using standardised tools. The study revealed that implementing telemedicine services reduced inpatient stays by 15% with a cost-saving effectivity ratio of

*2 : 1 per case treated . This randomized field trial provides evidence on the effectiveness of district hospital systems*

*\text{logit}(\pi)=\beta\_0+\beta^{\text{top}} X\_i*, and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, African, Social-Ecological, Systemic, BudgetImpact, EvidenceBased, HealthcareReform*

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