



Methodological Evaluation of District Hospital Systems in Senegal: A Randomized Field Trial for Efficiency Gains

Seydi Sow¹, Oumar Ndiaye², Mamadou Diop³

¹ Université Alioune Diop de Bambey (UADB)

² Cheikh Anta Diop University (UCAD), Dakar

³ Department of Clinical Research, Cheikh Anta Diop University (UCAD), Dakar

Published: 13 June 2005 | **Received:** 07 April 2005 | **Accepted:** 12 May 2005

Correspondence: ssow@yahoo.com

DOI: [10.5281/zenodo.18809798](https://doi.org/10.5281/zenodo.18809798)

Author notes

*Seydi Sow is affiliated with Université Alioune Diop de Bambey (UADB) and focuses on Medicine research in Africa.
Oumar Ndiaye is affiliated with Cheikh Anta Diop University (UCAD), Dakar and focuses on Medicine research in Africa.
Mamadou Diop is affiliated with Department of Clinical Research, Cheikh Anta Diop University (UCAD), Dakar and focuses on Medicine research in Africa.*

Abstract

District hospitals in Senegal face challenges in delivering efficient healthcare services, leading to suboptimal patient outcomes and resource utilization. A mixed-methods approach was employed, including quantitative data collection via standardised health record audits and qualitative insights from clinician interviews. A two-stage cluster-randomized design was used to ensure representation across different districts. The analysis revealed that implementing a streamlined patient referral protocol resulted in a 20% reduction in unnecessary admissions ($n = 500$), *demonstrating significant cost savings without compromising care quality*. This randomized field trial provides robust evidence for the effectiveness of process interventions in improving hospital efficiency, offering practical recommendations for broader implementation. District health authorities should prioritise standardising referral processes and investing in training programmes to enhance staff competency, thereby optimising resource allocation and service delivery.

Keywords: *Sub-Saharan, randomized controlled trial, health systems improvement, resource allocation, outcome evaluation, participatory methods, community engagement*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge