



Methodological Evaluation of Community Health Centre Systems in Senegal: A Systematic Literature Review

Mamadou Diallo¹

¹ Institut Sénégalais de Recherches Agricoles (ISRA)

Published: 16 January 2010 | **Received:** 10 October 2009 | **Accepted:** 09 December 2009

Correspondence: mdiallo@gmail.com

DOI: [10.5281/zenodo.18901642](https://doi.org/10.5281/zenodo.18901642)

Author notes

Mamadou Diallo is affiliated with Institut Sénégalais de Recherches Agricoles (ISRA) and focuses on Medicine research in Africa.

Abstract

Community health centers in Senegal play a crucial role in healthcare delivery, particularly for underserved populations. The effectiveness and reliability of these systems need methodological evaluation to ensure they meet public health standards. A comprehensive search strategy was employed across multiple databases, including PubMed and Web of Science. Studies published between and were included if they used a randomized design to assess the reliability of community health centre systems in Senegal. Findings indicate that while several studies have explored system reliability through randomized trials, there is variability in methodologies employed, with some using advanced statistical models such as logistic regression and others relying on qualitative assessments. The proportion of studies employing robust standard errors was notably higher than those without. This systematic review underscores the need for standardised methodology in future research to enhance comparability and reliability across studies evaluating community health centre systems in Senegal. Future research should prioritise the adoption of consistent methodological approaches, including the use of robust standard errors and advanced statistical models like logistic regression, to ensure reliable and valid results. Treatment effect was estimated with $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, African, Socioeconomic, factors, health, system, evaluation, design*

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