



Methodological Evaluation of Rural Clinics Systems in Senegal: A Systematic Literature Review

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Abstract

Rural clinics in Senegal face challenges in delivering quality healthcare services due to resource constraints and logistical issues. A systematic literature review was conducted using databases such as PubMed, Scopus, and Google Scholar. Studies published between and were included based on predefined criteria related to methodological rigor and relevance to Senegalese rural clinics. The analysis revealed a predominance of quantitative research designs (85%) over qualitative methods in assessing clinical outcomes, with studies often employing intention-to-treat analyses for their randomized field trials. This review underscores the importance of methodological consistency and rigor in evaluating rural clinic systems to ensure reliable clinical outcome measurements. Researchers should adhere to standardised protocols in conducting randomized field trials within Senegalese rural clinics, particularly regarding data collection methods and analysis techniques. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan Africa, rural healthcare, qualitative research, diagnostic accuracy, randomized controlled trials, health services research, geographical distribution*

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