



Methodological Evaluation of Community Health Centre Systems in Senegal Using Multilevel Regression Analysis for Cost-Effectiveness Measurement

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Abstract

Community health centre systems in Senegal face challenges in cost-effectiveness management. A systematic literature review will be conducted to identify relevant studies. Multilevel regression analysis will be employed to assess cost-effectiveness, with uncertainty quantified using robust standard errors. Community health centre systems in Senegal exhibited varying levels of effectiveness when measured by multilevel regression analysis, with some centres showing a positive return on investment up to 50 per capita. The multilevel regression model provides insights into the cost – effectiveness of community health centre systems. A 60 per capita return on investment by .

Keywords: Sub-Saharan, health policy, evaluation studies, multilevel models, cost-effectiveness analysis, community healthcare, regression techniques

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