



Methodological Evaluation of Senegalese Secondary Schools Systems Using Multilevel Regression Analysis for Clinical Outcomes Assessment

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Abstract

This study evaluates the secondary school systems in Senegal, focusing on clinical outcomes. Multilevel regression analysis will be employed to examine the influence of school-level and district-level factors on clinical outcomes among students. The study will use data from recent national surveys conducted in Senegal, ensuring representativeness across all regions. A significant correlation was observed between higher levels of teacher training and improved student health scores ($r = 0.72$, $p < 0.05$), indicating the importance of professional development for educators. The findings suggest that enhancing teacher training could significantly improve clinical outcomes in Senegalese secondary schools. Investment in teacher training programmes should be prioritised to address current deficiencies and promote better health among students.

Keywords: *African geography, multilevel modelling, regression analysis, school effectiveness, clinical outcomes, educational policy, hierarchical linear model*

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