



Methodological Validation of Secondary School Systems in Ghana: A Replication Study

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Abstract

Ghana's secondary school systems have been subject to various evaluations aimed at improving educational outcomes. However, there is a need for methodological validation of these systems to ensure their reliability and efficacy. The methodology employed includes random allocation of schools to control and treatment groups, data collection through standardised assessments, and statistical analysis using a linear regression model with robust standard errors to account for potential confounding variables. The study adheres to ethical guidelines and uses validated measurement tools. A significant proportion ($p < 0.05$) of schools in the treatment group showed improved academic performance compared to those in the control group, indicating a positive impact of the risk reduction strategies implemented. The replication study confirms the reliability and validity of the evaluation techniques used previously, providing robust evidence for future research and policy-making in Ghana's secondary education systems. Based on this study's findings, further evaluations should be conducted to identify specific aspects of risk reduction strategies that are most effective. Additionally, continuous monitoring and adjustment of these strategies may enhance their impact over time. secondary schools, Ghana, replication study, risk reduction, educational evaluation The empirical specification follows $Y = \beta_{0+\beta} p X + varepsilon$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, African, Ghanaian, schools, reliability, validity, randomization, evaluation methodologies*

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