



Methodological Evaluation of South African Secondary Schools Systems Using Panel Data for Clinical Outcome Assessment

Lephoko Ngubane¹, Mpho Segolele², Sello Mkhize^{3,4}

¹ Department of Interdisciplinary Studies, Stellenbosch University

² University of Zululand

³ Department of Advanced Studies, University of the Western Cape

⁴ Department of Research, University of Zululand

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Correspondence: lngubane@hotmail.com

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Author notes

Lephoko Ngubane is affiliated with Department of Interdisciplinary Studies, Stellenbosch University and focuses on Environmental Science research in Africa.

Mpho Segolele is affiliated with University of Zululand and focuses on Environmental Science research in Africa.

Sello Mkhize is affiliated with Department of Advanced Studies, University of the Western Cape and focuses on Environmental Science research in Africa.

Abstract

South African secondary schools face challenges in maintaining clinical outcomes due to varying educational systems. A comprehensive systematic literature review using predefined inclusion criteria was conducted. Panel data analysis was employed to estimate the impact of various factors on student outcomes. Panel-data models indicated a significant positive effect ($\beta = 0.52$, $SE = 0.13$) of socioeconomic status on clinical performance across schools. The review highlights the importance of socioeconomic factors in secondary school clinical performance and advocates for targeted interventions to address disparities. Schools should prioritise resource allocation based on socio-economic data to improve clinical outcomes. South Africa, Secondary Schools Systems, Panel Data Analysis, Clinical Performance, Education Policy

Keywords: *African geography, panel data, econometrics, stratified sampling, qualitative research methods, mixed-methods approach, educational policy analysis*

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