



Methodological Evaluation of Maternal Care Facilities in Ghana: A Difference-in-Differences Approach to Assess Clinical Outcomes,

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Abstract

{ "background": "Maternal care facilities in Ghana have undergone significant reforms since , with varying impacts on clinical outcomes for mothers and newborns.", "purposeandobjectives": "This systematic literature review aims to evaluate the methodological rigor of studies assessing these facility improvements by applying a difference-in-differences approach.", "methodology": "A comprehensive search strategy was employed across multiple databases focusing on publications from to present. Studies were included if they utilised a difference-in-differences model to analyse clinical outcomes post-reform in maternal care facilities in Ghana.", "findings": "The analysis revealed that the application of the difference-in-differences model showed mixed results, with some studies indicating significant improvements in neonatal mortality rates while others reported no substantial change.", "conclusion": "While the difference-in-differences approach provided a robust framework for evaluating intervention effects, inconsistencies in study methodologies and data quality hindered definitive conclusions on clinical outcomes.", "recommendations": "Future research should standardise methodological approaches to ensure comparability across studies and enhance the reliability of findings.", "keywords": "maternal care facilities, Ghana, difference-in-differences, clinical outcomes, systematic review", "contributionstatement": "This study introduces a novel application of the difference-in-differences model in evaluating maternal healthcare reforms in Ghana, offering insights into its methodological strengths and limitations." } { "Background", "Purpose and Objectives", "Methodology", "Findings", "Conclusion", "Recommendations", "Keywords", "Contribution Statement" }

Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 p \xi$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ghana, maternal health, care facilities, clinical outcomes, difference-in-differences, econometric methods, randomized controlled trials, longitudinal studies*

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