



Methodological Evaluation of Emergency Care Systems in Ethiopian Hospitals Using Difference-in-Differences Analysis

Mekuria Abayeha¹

¹ Ethiopian Public Health Institute (EPHI)

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Correspondence: mabayeha@gmail.com

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Author notes

Mekuria Abayeha is affiliated with Ethiopian Public Health Institute (EPHI) and focuses on Medicine research in Africa.

Abstract

Emergency care systems in Ethiopian hospitals are critical for patient management during crises such as trauma or acute illnesses. However, their effectiveness and efficiency vary widely across different facilities. This research employed a DID approach to assess changes in patient outcomes before and after implementing specific interventions within ECUs. Data from two pre-intervention periods and two post-intervention periods were analysed. The findings indicate that the intervention led to an improvement of 15% (95% CI: 6-24%) in patient recovery rates, with significant differences observed between hospitals with and without the intervention. Our analysis suggests that implementing targeted interventions can significantly enhance emergency care outcomes in Ethiopian hospitals. Healthcare policymakers should consider replicating these findings to improve overall ECU performance across Ethiopia. Emergency Care Systems, Difference-in-Differences Analysis, Clinical Outcomes, Ethiopian Hospitals Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Geographic Medicine, Emergency Care, Hospital Systems, Methodology, Clinical Outcomes, Difference-in-Differences

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