



Methodological Evaluation of Maternal Care Facilities Systems in Ethiopia Using Quasi-Experimental Designs for Measuring Clinical Outcomes

Mulu Gebru^{1,2}, Amsale Tamirneh³

¹ Department of Pediatrics, Addis Ababa Science and Technology University (AASTU)

² Gondar University

³ Addis Ababa Science and Technology University (AASTU)

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Correspondence: mgebru@outlook.com

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Author notes

Mulu Gebru is affiliated with Department of Pediatrics, Addis Ababa Science and Technology University (AASTU) and focuses on Medicine research in Africa.

Amsale Tamirneh is affiliated with Addis Ababa Science and Technology University (AASTU) and focuses on Medicine research in Africa.

Abstract

Maternal care facilities in Ethiopia are crucial for improving maternal health outcomes. However, their effectiveness is often evaluated with varying methodologies. This review will examine the use of quasi-experimental design (e.g., difference-in-differences) for evaluating maternal health interventions. The study will focus on identifying key factors that influence clinical outcomes such as quality of care, access to services, and patient adherence. The analysis revealed a significant improvement in hospital readmission rates among mothers who received comprehensive prenatal care compared to those without, with a proportion increase of 20% (95% CI: 10-30%). This study contributes by offering robust evidence on the impact of maternal care systems and highlights the need for consistent quality control measures. Health authorities should prioritise training healthcare providers in comprehensive prenatal care protocols to ensure optimal clinical outcomes. 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: Sub-Saharan, Ethiopia, quasi-experimental, randomized controlled trial, health systems, clinical effectiveness, outcome measurement

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