



# **Methodological Assessment and Clinical Outcomes of Maternal Care Facilities in Ghana: A Panel Data Study**

**Esi Ameyawaa<sup>1</sup>**

<sup>1</sup> University of Ghana, Legon

**Published:** 23 December 2009 | **Received:** 24 August 2009 | **Accepted:** 20 November 2009

**Correspondence:** [eameyawaa@aol.com](mailto:eameyawaa@aol.com)

**DOI:** [10.5281/zenodo.18882858](https://doi.org/10.5281/zenodo.18882858)

## **Author notes**

*Esi Ameyawaa is affiliated with University of Ghana, Legon and focuses on Medicine research in Africa.*

## **Abstract**

Maternal care facilities in Ghana are crucial for improving maternal health outcomes, yet their effectiveness varies significantly across different regions. A mixed-methods approach was employed, including quantitative panel-data regression analysis with robust standard errors to evaluate the impact of maternal care on health outcomes. The panel data revealed a significant positive correlation between the number of trained healthcare personnel and reduced maternal mortality rates ( $p < 0.05$ ), suggesting that adequate staffing is essential for improving clinical outcomes. This study provides robust evidence supporting the importance of well-trained healthcare professionals in maternal care facilities to enhance clinical effectiveness. Healthcare authorities should prioritise training and resource allocation to ensure a sufficient number of skilled personnel in maternal care units across Ghana. Treatment effect was estimated with  $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, maternal health, observational study, econometrics, institutional delivery, geographic variation, quality indicators*

## ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

**Email:** [info@parj.africa](mailto:info@parj.africa)

Request your copy of the full paper today!

## SUBMIT YOUR RESEARCH

**Are you a researcher in Africa? We welcome your submissions!**

Join our community of African scholars and share your groundbreaking work.

**Submit at:** [app.parj.africa](http://app.parj.africa)



Scan to visit [app.parj.africa](http://app.parj.africa)

**Open Access Scholarship from PARJ**

Empowering African Research | Advancing Global Knowledge