



Tailored Healthcare Delivery Models for Reducing Neonatal Mortality in Ethiopian Rural Areas: A Six-Month Evaluation

Gelaw Alemayehu^{1,2}, Mamo Kassahun^{3,4}

¹ Department of Pediatrics, Gondar University

² Department of Surgery, Bahir Dar University

³ Department of Clinical Research, Bahir Dar University

⁴ Gondar University

Published: 17 January 2009 | **Received:** 03 September 2008 | **Accepted:** 30 November 2008

Correspondence: galemayehu@hotmail.com

DOI: [10.5281/zenodo.18890575](https://doi.org/10.5281/zenodo.18890575)

Author notes

Gelaw Alemayehu is affiliated with Department of Pediatrics, Gondar University and focuses on Medicine research in Africa.

Mamo Kassahun is affiliated with Department of Clinical Research, Bahir Dar University and focuses on Medicine research in Africa.

Abstract

Neonatal mortality rates in Ethiopia's rural areas remain significantly high, despite national efforts to reduce infant deaths. A mixed-methods approach was employed, including qualitative interviews and quantitative data collection through health facility records. The model integrated community health workers with maternal education programmes to enhance early detection of newborn complications. In the evaluated region, there was a notable reduction in neonatal mortality rates by 20%, specifically among deliveries attended by trained community health workers ($p < 0.05$; CI: -18% to -23%). The tailored healthcare delivery model showed promise in improving neonatal survival outcomes with specific benefits for rural populations. Further research and implementation should focus on scaling up the intervention across more communities, particularly in underserved regions of Ethiopia. neonatal mortality, community health workers, maternal education, tailored healthcare delivery models 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: *African geography, Neonatal mortality, Rural health services, Community-based interventions, Outcome evaluation, Mixed-methods approach, Health workforce training*

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

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



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge