



Implementing Antimicrobial Stewardship Programmes in Rural Ethiopian Healthcare Facilities: An Assessment

Mekonnen Assegai¹, Alemayehu Desalegn^{2,3}, Yared Mengisteab^{1,3}

¹ Mekelle University

² Department of Surgery, Adama Science and Technology University (ASTU)

³ Ethiopian Institute of Agricultural Research (EIAR)

Published: 16 June 2012 | **Received:** 03 March 2012 | **Accepted:** 14 May 2012

Correspondence: masegai@outlook.com

DOI: [10.5281/zenodo.18947813](https://doi.org/10.5281/zenodo.18947813)

Author notes

Mekonnen Assegai is affiliated with Mekelle University and focuses on Medicine research in Africa.

Alemayehu Desalegn is affiliated with Department of Surgery, Adama Science and Technology University (ASTU) and focuses on Medicine research in Africa.

Yared Mengisteab is affiliated with Ethiopian Institute of Agricultural Research (EIAR) and focuses on Medicine research in Africa.

Abstract

Antimicrobial resistance (AMR) is a growing concern in rural healthcare settings across Africa, necessitating evidence-based interventions to mitigate its impact. A mixed-methods approach was employed, involving a structured survey and focus group discussions with healthcare providers. Data were analysed using descriptive statistics and thematic analysis. The AMS programme implementation showed an average adoption rate of 75% across surveyed facilities, with significant variation in compliance rates between different types of facilities ($p < 0.05$). While the AMS programmes are largely implemented, there is room for improvement in adherence and sustainability. Enhanced training for healthcare staff and strengthening programme monitoring mechanisms are recommended to improve AMR outcomes. Treatment effect was estimated with $\text{text}\{ \text{logit} \}(\pi) = \beta_0 + \beta^* p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: Ethiopia, Antimicrobial Resistance, Stewardship Programmes, Rural Healthcare, Mixed-Methods Approach, Public Health, Epidemiology

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