



# Quantifying the Effectiveness of Mobile Health Monitoring Devices in Maternal Healthcare Access Among Urban Slum Dwellers in Zimbabwe and Eritrea,

Tesfalem Gebreab<sup>1</sup>, Abayneh Tessema<sup>1</sup>, Eshag Alemayehu<sup>1,2</sup>, Zewdeh Assefa<sup>1</sup>

<sup>1</sup> Eritrea Institute of Technology

<sup>2</sup> University of Asmara (currently closed/reorganized)

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

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## Author notes

*Tesfalem Gebreab is affiliated with Eritrea Institute of Technology and focuses on Arts & Humanities research in Africa.*

*Abayneh Tessema is affiliated with Eritrea Institute of Technology and focuses on Arts & Humanities research in Africa.*

*Eshag Alemayehu is affiliated with Eritrea Institute of Technology and focuses on Arts & Humanities research in Africa.*

*Zewdeh Assefa is affiliated with Eritrea Institute of Technology and focuses on Arts & Humanities research in Africa.*

## Abstract

This study examines the impact of mobile health monitoring devices on maternal healthcare access among urban slum dwellers in Zimbabwe and Eritrea. A mixed-methods approach was employed, including surveys and focus group discussions among women living in urban slums. Data were collected through structured questionnaires and analysed using statistical software. Mobile health devices showed a significant improvement in healthcare access for mothers in both countries, with over 70% of users reporting better monitoring compared to traditional methods. The findings suggest that mobile health monitoring is an effective tool for enhancing maternal care in urban slums but highlights the need for infrastructure improvements and user education. Recommendations include expanding device availability, training healthcare providers on their use, and conducting further research to refine applications.

**Keywords:** *Sub-Saharan, slum, telemedicine, prevalence, accessibility, intervention, epidemiology*

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