



Resilience Dynamics in Health Systems during Epidemics across Ethiopia: A Mixed-Methods Exploration

Kidan Mezlek¹, Mekonnen Wolde^{2,3}, Debre Zeit Abebe², Yared Fantaw^{3,4}

¹ Bahir Dar University

² Addis Ababa Science and Technology University (AASTU)

³ Department of Advanced Studies, Africa Centers for Disease Control and Prevention (Africa CDC), Addis Ababa

⁴ Jimma University

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Correspondence: kmezlek@hotmail.com

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Author notes

Kidan Mezlek is affiliated with Bahir Dar University and focuses on African Studies research in Africa.

Mekonnen Wolde is affiliated with Addis Ababa Science and Technology University (AASTU) and focuses on African Studies research in Africa.

Debre Zeit Abebe is affiliated with Addis Ababa Science and Technology University (AASTU) and focuses on African Studies research in Africa.

Yared Fantaw is affiliated with Department of Advanced Studies, Africa Centers for Disease Control and Prevention (Africa CDC), Addis Ababa and focuses on African Studies research in Africa.

Abstract

Health systems in Africa have faced significant challenges during epidemics, necessitating a deeper understanding of resilience mechanisms. A Mixed-Methods Study combining qualitative interviews with quantitative data analysis was conducted in Ethiopian healthcare settings during epidemics. Interviews were structured and analysed for themes related to system responsiveness and community engagement. Mixed-methods analysis revealed a resilient health system that demonstrated effective communication strategies, albeit with variations across regions regarding vaccine uptake rates (38% vs 45%). The findings underscore the need for tailored interventions based on regional-specific challenges to enhance overall resilience during future epidemics. Policy recommendations include strengthening community engagement and enhancing equitable access to vaccines, particularly in underserved areas. Health System Resilience, Mixed-Methods Study, Ethiopia, Epidemic Response

Keywords: *Ethiopia, Geopolitical, Quantitative Analysis, Qualitative Research, Community Participation, Systems Theory, Participatory Action Research*

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