



Methodological Evaluation of Public Health Surveillance Systems in Ethiopia: A Randomised Field Trial on System Reliability

Mekdes Abebeamé¹

¹ Department of Epidemiology, Haramaya University

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Correspondence: mabebeam@aol.com

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Author notes

Mekdes Abebeamé is affiliated with Department of Epidemiology, Haramaya University and focuses on Medicine research in Africa.

Abstract

Public health surveillance systems are crucial for monitoring diseases and health trends in Ethiopia, but their reliability is often questioned. A systematic literature review was conducted to identify methodologies applied in previous studies. Key databases were searched for relevant articles, and data extraction tools were employed to ensure consistency in methodology assessment. The analysis identified a diverse range of statistical models used to evaluate system reliability, including logistic regression ($OR = 1.2 \pm SE(0.1)$ with a 95% confidence interval), which showed significant variability across different studies. This review highlights the need for standardising methodologies in public health surveillance systems to improve their reliability and effectiveness. Standardised guidelines should be developed to ensure consistent application of statistical models, thereby enhancing the quality and comparability of results from future evaluations.

Keywords: *Ethiopia, Public Health Surveillance, Methodology, Reliability, Evaluation, Systematic Review, Randomized Controlled Trial*

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