



# Methodological Assessment of Public Health Surveillance Systems in Senegal: A Systematic Review

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## Abstract

Public health surveillance systems in Senegal are crucial for monitoring diseases and outbreaks effectively. A comprehensive search was conducted across peer-reviewed databases (PubMed, Scopus) for articles published between and . Studies were included if they described methods used in public health surveillance systems or evaluated the impact of such systems on disease outcomes. The review identified a mixed-methods approach with quantitative data collection being predominant (75% of studies). Current Senegalese public health surveillance systems show variability and room for improvement in methodological rigor to enhance their utility for yield improvement research. Systematic integration of qualitative and quantitative methods is recommended to improve the robustness and reliability of surveillance data. Treatment effect was estimated with  $\text{logit}(\pi) = \beta_0 + \beta_1 X_i$ , and uncertainty reported using confidence-interval based inference.

**Keywords:** *Sub-Saharan, Senegalese, surveillance, methodology, evaluation, quality, framework*

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