



Public Health Response Dynamics to Ebola Outbreaks in West Africa Revisited: A Comparative South African Perspective

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Abstract

Public health responses to infectious diseases have evolved over time, particularly in response to Ebola virus outbreaks in West Africa. Understanding these responses is crucial for improving future preparedness and management strategies. The review methodology involves comprehensive searches of databases such as PubMed and Scopus. Eligible studies were selected based on predefined inclusion criteria focusing on public health responses to Ebola outbreaks in West Africa. A notable finding is the significant variation in response strategies across countries, with South Africa's approach emphasising early detection and rapid containment measures. This review underscores the importance of tailored public health interventions for effective management of infectious diseases like Ebola. Public health authorities should prioritise standardised training programmes for healthcare workers and continuous monitoring to enhance preparedness against future outbreaks. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Ebola, West Africa, Public Health, Control Measures, Epidemic Response, Transmission Dynamics, Geographic Epidemiology*

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