

Vaccination Strategies and their Impact on Global Infectious Disease Control

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Abstract

Vaccination strategies play a critical role in global infectious disease control by preventing morbidity, mortality, and transmission of pathogens. This abstract discusses the impact of vaccination strategies on global infectious disease control, focusing on various approaches, their effectiveness, and challenges.

Firstly, it outlines the significance of vaccination in reducing the burden of infectious diseases, highlighting achievements such as the eradication of smallpox and near-elimination of diseases like polio and measles. It discusses the principles of herd immunity and the role of vaccination in achieving population-level immunity, thereby protecting vulnerable individuals and preventing outbreaks.

Secondly, the abstract explores different vaccination strategies, including routine immunization programs, mass vaccination campaigns, catch-up vaccinations, and ring vaccination in outbreak settings. It examines the importance of vaccine development and distribution networks in ensuring equitable access to vaccines globally.

Thirdly, the abstract evaluates the impact of vaccination strategies on disease control through case studies of

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