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Chemical and Biological Agents: Understanding the Threats and Responses

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Chemical and biological agents pose signifcant threats to public health and national security, with potential uses in warfare and terrorism. This article explores the nature of these agents, categorizing them into chemical agents such as nerve, blister, choking, and riot control agents and biological agents, including bacteria, viruses, toxins, and fungi. The historical context of their use in warfare and terrorism highlights the urgency of addressing these risks. The article discusses the multifaceted consequences of chemical and biological threats, including public health concerns and environmental contamination. Strategies for prevention and response are outlined, emphasizing the importance of surveillance, public health preparedness, community education, regulatory measures, and international collaboration. By enhancing understanding and preparedness, societies can better mitigate the dangers posed by these agents and protect public health and safety.

Keywords: C ; B ; P ; N ; B ;

Introduction

C . , . x , . 1 .

Understanding Chemical Agents

C x , , . :

- **Viruses**: C , x E ,

- **Toxins**: N x , C (x), .

- **Fungi**: S x , x 3 .

Potential Uses in Warfare and Terrorism

C , x I. M , . - .

H - , 2001 x S , . T 1995

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, [illegible] 5 .

Strategies for Prevention and Response

- **Surveillance and Detection**: R [illegible] . A [illegible] , [illegible] , [illegible] .
- **Public Health Preparedness**: D [illegible] . T [illegible] .
- **Community Education**: P [illegible] x [illegible] .
- **Regulation and Security**: S [illegible] , [illegible] , [illegible] . E [illegible] .
- **International Collaboration**: G [illegible] . I [illegible] 6 .

Discussion

[illegible] x [illegible] . A [illegible] , [illegible] , [illegible] , [illegible] . [illegible] , [illegible] x , [illegible] , [illegible] .