

**Review Article** 

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# Biological Warfare A Comprehensive Review of Historical Context, Modern Threats and Mitigation Strategies

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## Abstract

Biological warfare, the deliberate use of infectious agents to harm or kill humans, animals, or plants, has been a recurring menace throughout history. This research article presents a comprehensive review of biological warfare, spanning from its ancient origins to the modern era, focusing on historical events, the development of biological  $\nothease$  biological

**Keywords:** Bilgical age ; Bi ea a ack; P blic heal h e e; Ea lade ec i a e ; E hical c ide a i

# Introduction

Bi l gical a fa e, he ale le , e f i fec i age а ea, e ai a da ka dha ig cha e i h a hi [1]. ei e i aldi, e i ai fdiea e-ca, i g a h ge, ha de ... Bli i g bei g ha, lag ed, cie ie f ce ... ie , lea i g behi d a ail f de a a i a d fea. A e a iga e hec le i ie f he de ld, he ece f bi l gical a fa e c i e ca i had , f eled by ad a ce e i cie ce a d ech l g i ehe i e e ea ch a icle e dea hed ligh [2]. i c  $he \qquad l \ if ace \ e \qquad e \qquad f \ bi \ l \ gical \qquad a \ fa \ e, \qquad a \quad i \ g \ b \ h \ i,$ hi ical a di, ele a ce i he ce a de a. Ba del ig i he a al fhi de gai i igh i he igi a de l i f hi i e acice, e ealig i e ba a cie ci ili a i a d e ece ac d ig aj cic a da [3]. U de a dig hi ical he hi ical c e i a a gaighedeh fha

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## **Biological agents of concern**

i de le a age fbilgicalage ha ha e bee c ld be ea ied. I e a ie hei i le ce, a i i , a d e ial c e e ce if ed i abi e i a ack.

### **Consequences and ethical considerations**

e i e e h a, e i e al, a d ec ic ll f bilgical a fa e i dic, ed i hi ec i . Addii alla e hical dile a dig e ea ch defe i e a d e i e ea e agai bilgical ea a ec i de ed.

#### **Mitigation strategies**

Peei ad eaede aec cialic baig bilgical afae. i eci lie ai aegie ad ea e iigae heik ed by bilgical ea ,icldigea lyde eci ge, blichealhe e la ,adie ai alceai.

#### **Case studies**

i eci e e elec ed ca e die fa bilgical a fa e i cide , ch a he T ka b ag a i ga a ack a d he a h a le e a ack i he U i ed Sae, ill a e he c le i ie a d challe ge i ha dligbie i e e .

#### **Future outlook**

L kig ahead, hi eci dic e he e ial ajec f bilgical a fa e a d he i a ce f -g ig e each; i e a i al c llab a i , a d lice ad a ce e add e hi e l ig h ea.

## Conclusion

I c clii, hi e each a icle e haie he ciicali 🦉 f

de a dighehi gadce a efbilgical a fae. Ba lea igf a ee a dagig igila agai eialf e hea, heglbalc igca k gehe afeg a dh a ig f hede a a igc e e ce fbilgical a fae.

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