

Bioterrorism and infectious agents a new dilemma for the 21st century emergin

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What are the emerging infectious diseases of the 21st century?

Which of the following infectious diseases is the most likely biological terrorism agent? Viral Hemorrhagic Fevers (VHFs). Along with smallpox, anthrax, plague, botulism, and tularemia, hemorrhagic fever viruses are among six agents identified by the Centers for Disease Control and Prevention (CDC) as the most likely to be used as biological weapons.

What are the Category A Bioterrorism agents?

What is meant by Bioterrorism? "Bioterrorism refers to the intentional release of biological agents or toxins for the purpose of harming or killing humans, animals or plants with the intent to intimidate or coerce a government or civilian population to further political or social objectives." INTERPOL Bioterrorism incident pre-planning and response ...

What infectious diseases are the most concerning in the 21st century? One of the important challenges for the 21st century is the development of safe and effective vaccines for the 3 greatest microbial killers worldwide: HIV/AIDS, malaria, and tuberculosis. These 3 diseases account for one-third to one-half of healthy years lost in less developed countries [3].

What are the top 3 infectious diseases in the world? "Big Three" Infectious Diseases: Tuberculosis, Malaria and HIV/AIDS.

What are the emerging diseases of bioterrorism? However, emerging infectious diseases and most of the potential bioterrorism agents cause uncommon illnesses, such as inhalational anthrax, tularemia, monkeypox, and MERS CoV, and most facilities do not have the laboratory capability to test for these agents. This makes case finding very difficult.

What are the three agents causing bioterrorism?

What are the most common infectious agents used in bioterrorism?

Why is bioterrorism especially threatening? Some biological agents are designated Tier 1 agents because they have the highest risk of being used for a terrorist event. They can cause many deaths or harm the economy or important infrastructure. They pose a severe threat to public health and safety.

What is an example of bioterrorism? In October 2001, bioterrorism in the U.S. became a reality again when four letters laced with anthrax were sent through the U.S. Postal Service. The attacks resulted in the illness in 22 people, the death of 5, and fear and anxiety in millions of others.

What is the deadliest biological weapon? Special vaccines have been created, tested, and approved to deal with the two most lethal biological agents that can also be most easily weaponized: anthrax and smallpox.

Why is bioterrorism controversial? The consequences of the deliberate release of biological agents or toxins by state or non-state actors could be dramatic. In addition to the tragic loss of lives, such events could cause food shortages, environmental catastrophes, devastating economic loss, and widespread illness, fear and mistrust among the public.

Is bioterrorism a felony? Criminal use of a chemical weapon or biological weapon in the second degree is a class A-II felony.

How does bioterrorism affect humans? A biological attack is the intentional release of a pathogen (disease causing agent) or biotoxin (poisonous substance produced by a living organism) against humans, plants, or animals. An attack against people could be used to cause illness, death, fear, societal disruption, and economic

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damage.

What is the emerging disease of the 21st century? Seven agents that have made a significant appearance, particularly in the 21st century, are reviewed, including: Ebola and Marburg hemorrhagic fevers, human monkeypox, bovine spongiform encephalopathy, severe acute respiratory syndrome (SARS), West Nile virus, and avian influenza.

What is the most important thing that leads to an emerging infection in people? For an emerging disease to become established at least two events have to occur – (1) the infectious agent has to be introduced into a vulnerable population and (2) the agent has to have the ability to spread readily from person-to-person and cause disease.

What is the deadliest disease in history?

What disease has no cure?

What is the deadliest contagious disease? Each year, tuberculosis (TB) kills about 1.3 million people worldwide—that's more deaths than HIV/AIDS and malaria combined. TB is the world's deadliest infectious disease (though briefly eclipsed by COVID-19), killing someone every 20 seconds. But, despite its massive fatality rate, TB rarely makes headlines.

What disease has the lowest survival rate? Rabies. Rabies, likely the most well-known of the highly rated diseases, is almost always fatal, with less than 20 cases of human survival from it reported, according to the CDC.

What are current emerging infectious diseases?

What is an example of an emerging infectious disease? Influenza (or flu) is an example of an emerging disease that is due to both natural and human factors. Influenza virus is infamous for its ability to change its genetic information.

What are new emerging viral infections? Newly emerging viruses such as the Ebola virus, severe acute respiratory syndrome (SARS)-, Middle East respiratory syndrome (MERS)-coronavirus, and the avian influenza virus are serious threats to public health and have become a global concern.

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What are emerging diseases new or newly identified infections in a population? Emerging infectious diseases are diseases that (1) have not occurred in humans before (this type of emergence is difficult to establish and is probably rare); (2) have occurred previously but affected only small numbers of people in isolated places (AIDS and Ebola hemorrhagic fever are examples); or (3) have occurred ...

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