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## Emerging and re-emerging infectious diseases

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**Abstract** In human history, numerous infectious diseases have emerged and re-emerged. Aside from many others, the so-called 'exotic' agents in particular are a threat to our public health systems due to limited experience in case management and lack of appropriate resources. Many of these agents are zoonotic in origin and transmitted from animals to man either directly or via vectors. The reservoirs are often infected subclinically or asymptotically and the distribution of the diseases basically reflects the range and the population dynamics of their reservoir hosts. As examples, emergence/re-emergence is discussed here for diseases caused by filoviruses, hantaviruses, paramyxoviruses, flaviviruses and *Yersinia pestis*. In addition, bioterrorism is addressed as one factor which has now to be considered in infectious disease emergence/re-emergence. Preparedness for known and unknown infectious diseases will be a top priority for our public health systems in the beginning of the millennium.

**Keywords** Emerging/re-emerging · Marburg  
and Ebola viruses · Hantaviruses · West Nile virus ·  
Nipah virus · Plague · Bioterrorism

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### Introduction

Epidemics and pandemics of infectious diseases are associated with human history. The best known examples for pandemics are the plague in the mid-1300s, influenza of the early 1900s with more than 20 million deaths, and currently the acquired immunodeficiency syndrome (AIDS) with more than 24 million deaths. As of 1999 [91] worldwide, infectious diseases as cause of death ranked second, with >25% of deaths in man, and first with 63% in death among children under the age of four [91]. Almost 90% of all deaths were caused by a handful of diseases such as AIDS (number one with age 5 and older), diarrhoeal diseases, tuberculosis, malaria, measles as well as acute respiratory infections [91]. Infectious diseases also caused 48% of premature deaths and were one of the biggest causes of disabilities worldwide. Tropical diseases are estimated to afflict half a billion people, or 1 out of 10 of the world's population, and to claim 20 million lives annually. These infectious diseases disproportionately affect people living in tropical, underdeveloped regions of the world.

The discovery of penicillin in 1929 and the subsequent development of other antibiotics were great achievements leading to a decline in the death toll of infectious diseases. Large efforts in vector control for arthropod-borne diseases have been very successful in preventing infections in various parts of the world. Similarly, vaccines against diseases such as measles, pertussis, diphtheria and polio have prevented large portions of the world's population from contracting these diseases. This, plus the eradication of smallpox due to a global vaccination program indicated a possible victory over infectious diseases. However, the increasing numbers of drug-resistant agents or pesticide-resistant vectors, the specific lack of proper drugs to treat viral diseases and the inability to provide proper drug treatment for protozoal, helminthic and fungal infections in developing countries make infectious disease control a serious and challenging worldwide public health problem for the new millennium.

# Emerging And Reemerging Infectious Diseases Nih Publication

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