# Examples of infectious disease threats, unusual health events, and newly discovered pathogens, worldwide, 2000-2011



## 2000

- 1 Outbreak of Rift Valley fever in Saudi Arabia and Yemen, representing the first reported cases of the disease outside the African continent
  - First detection of carbapenem resistance among the common gramnegative bacteria Enterobacteriaceae (Klebsiella pneumoniae)

## 2001

2 • Identification in the Netherlands of a new virus, human metapneumovirus, among children with respiratory infections

#### 2002

- First detection of Staphylococcus aureus bacteria completely resistant to vancomycin
- 3 Outbreak of multidrug-resistant Salmonella Newport in the United States
- 4 Norovirus infection on cruise ships entering U.S. ports

#### 2003

- · Global outbreak of severe acute respiratory syndrome (SARS) caused by a previously unknown coronavirus
- 5 Identification of a new, hypervirulent strain of Clostridium difficile as the cause of hospital outbreaks of gastrointestinal illness in the United States and Canada
- 6 Cases of monkeypox in the United States linked to exotic pets imported from Central Africa
- 7 Re-emergence of avian influenza A (H5N1) in Southeast Asia, and outbreaks in Africa

#### 2005

- 8 Marburg hemorrhagic fever outbreak in Angola
- Identification in Sweden of a new virus, human bocavirus, among children hospitalized with acute respiratory infections

## 2006

- 10 Rift Valley fever outbreak in Kenya
- 11 Ebola hemorrhagic fever outbreak in the Democratic Republic of the Congo

## 2007

- 12 Outbreak of Nipah virus encephalitis in Bangladesh
- 13 First detection in Italy of mosquito-borne transmission of chikungunya fever, previously detected only in parts of Africa and South and Southeast Asia
- 14 Discovery in Thailand of a new human species of Bartonella, an insect-borne bacteria that multiplies inside red blood cells causing fever, fatigue, muscle pain, headache, and rash
- 15 Hemorrhagic fever outbreak in Uganda caused by a new strain of Ebola: Bundibugyo Ebola virus
- Outbreak of Marburg hemorrhagic fever in Uganda 16

## 2008

- 17 Ebola-like outbreak in Zambia due to a previously unknown virus: Lujo hemorrhagic fever virus
- 18 Isolation in Australia of a new virus (transplant-associated arenavirus related to lymphocytic choriomeningitis virus) after three recipients of liver or kidney transplants from a single donor developed febrile illness and died
  - Increasing outbreaks and international spread of carbapenemresistant Enterobacteriaceae, and first detection of New Delhi metallo-beta-lactamase (NDM-1), a genetic element that can confer such resistance

## 2009-10

- **19** Locally transmitted dengue in Florida, representing the first cases acquired in the continental United States outside the Texas-Mexico border since 1945
  - Influenza pandemic caused by a new influenza strain, influenza A

#### 2010

20 • Outbreaks of cholera in Haiti

#### 2011

- 21 Outbreak of Shiga toxin-producing Escherichia coli 0104:H4 (STEC 0104:H4) infections in Germany
  - Identification by an international team of researchers of a strain of gonorrhea (H041) resistant to all available antibiotics