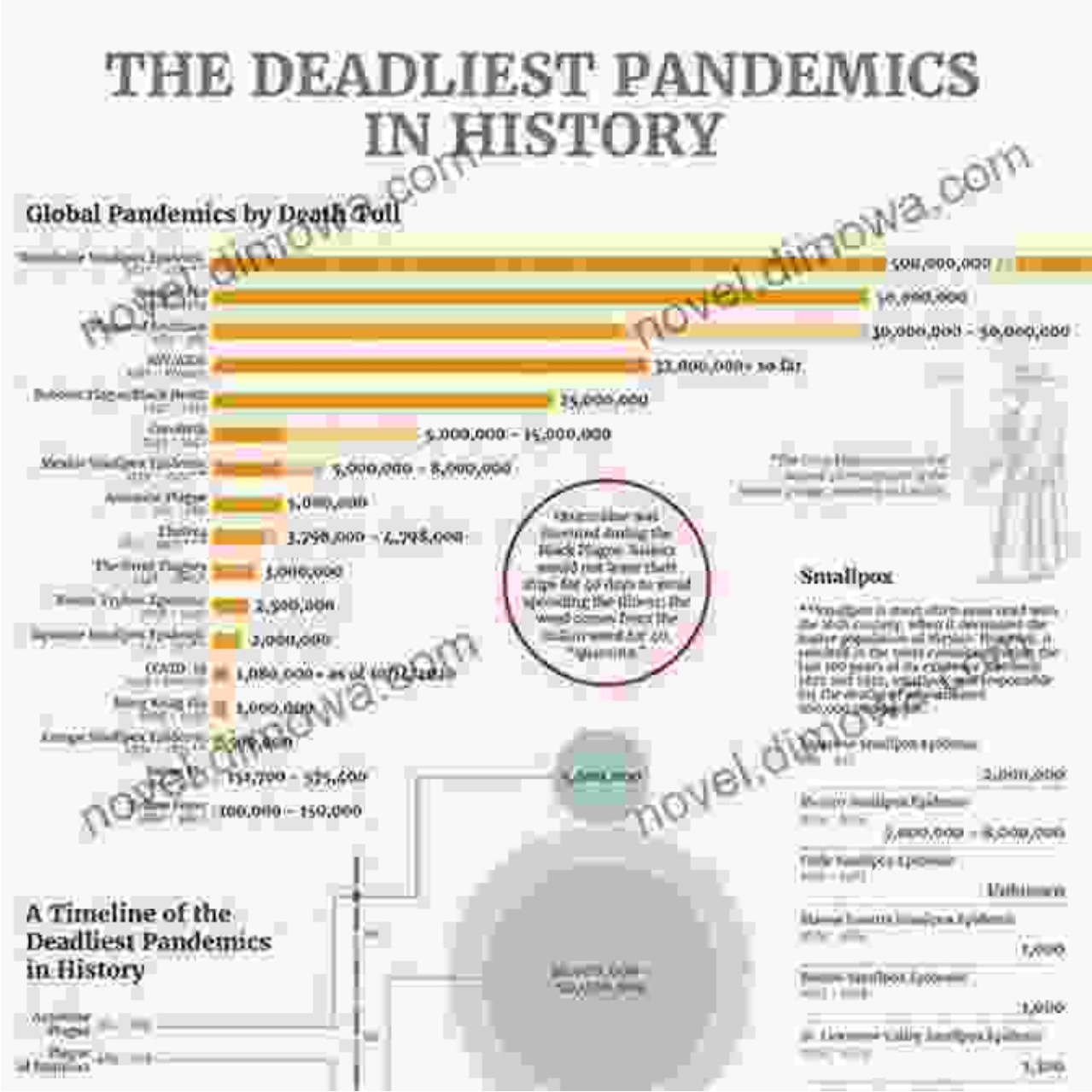


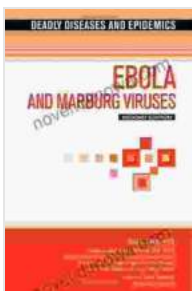
Ebola and Marburg Viruses: The Deadly Epidemics That Shook the World



Ebola and Marburg viruses are two of the most deadly viruses known to humankind. They cause severe illness with high mortality rates, and there

is no specific cure. Outbreaks of these viruses have occurred sporadically in Africa, and have caused significant public health emergencies.

This book provides a comprehensive overview of these viruses, from their discovery and evolution to their epidemiology, clinical manifestations, and treatment. It also discusses the challenges of controlling and preventing outbreaks, and the need for continued research to develop effective vaccines and therapies.



Ebola and Marburg Viruses (Deadly Diseases & Epidemics (Hardcover)) by Tara C. Smith

★ ★ ★ ★ ☆ 4.5 out of 5

Language : English

File size : 2747 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Word Wise : Enabled

Print length : 104 pages



Discovery and Evolution

Ebola virus was first identified in 1976 in the Democratic Republic of the Congo. Marburg virus was first identified in 1967 in Germany and Yugoslavia. Both viruses are members of the Filoviridae family, which also includes the Reston and Cuevavirus genera.

Ebola and Marburg viruses are closely related, and share many similarities in their genome, structure, and replication. However, they are also distinct in some important ways. For example, Ebola virus is more virulent than Marburg virus, and it causes a more severe illness.

Epidemiology

Ebola and Marburg viruses are primarily found in Africa. Ebola virus has been found in several countries in Central and West Africa, including the Democratic Republic of the Congo, Uganda, Sudan, and Guinea. Marburg virus has been found in several countries in East and Southern Africa, including Angola, the Democratic Republic of the Congo, Kenya, and Uganda.

Outbreaks of these viruses occur sporadically, and can range in size from a few cases to hundreds or even thousands of cases. The largest Ebola outbreak on record occurred in West Africa in 2014-2016, and resulted in over 11,000 deaths.

Clinical Manifestations

Ebola and Marburg viruses cause a severe illness with a high mortality rate. Symptoms of Ebola and Marburg virus infection include:

- Fever
- Headache
- Muscle aches
- Joint pain
- Nausea
- Vomiting
- Diarrhea
- Rash

- Bleeding

Ebola virus infection can also lead to organ failure, including liver failure, kidney failure, and respiratory failure.

Treatment

There is no specific cure for Ebola or Marburg virus infection. Treatment is supportive and includes:

- Fluids and electrolytes
- Antiviral medications
- Blood transfusions
- Dialysis
- Ventilator support

Prevention

There are several steps that can be taken to prevent Ebola and Marburg virus infection, including:

- Avoiding contact with infected people
- Using personal protective equipment when caring for infected people
- Washing hands frequently with soap and water
- Avoiding contact with animals that may be infected with the virus
- Eating only cooked meat and vegetables
- Getting vaccinated against Ebola and Marburg virus

Challenges

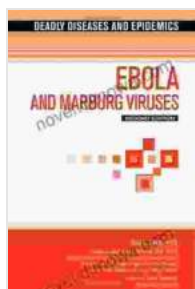
Controlling and preventing outbreaks of Ebola and Marburg virus can be challenging. These viruses are highly contagious, and they can spread rapidly in close-knit communities.

In addition, there is no specific cure for Ebola or Marburg virus infection. This means that supportive care is the only option for treating patients, and mortality rates can be high.

Ebola and Marburg viruses are two of the most deadly viruses known to humankind. They cause severe illness with high mortality rates, and there is no specific cure.

Outbreaks of these viruses can occur sporadically, and they can have a significant impact on public health. However, there are steps that can be taken to prevent and control these outbreaks.

This book provides a comprehensive overview of Ebola and Marburg viruses, from their discovery and evolution to their epidemiology, clinical manifestations, and treatment. It also discusses the challenges of controlling and preventing outbreaks, and the need for continued research to develop effective vaccines and therapies.



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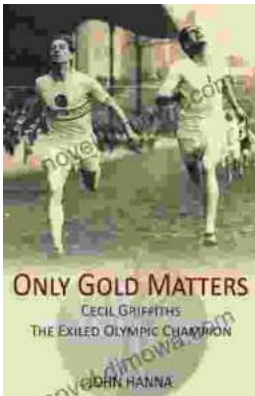
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