



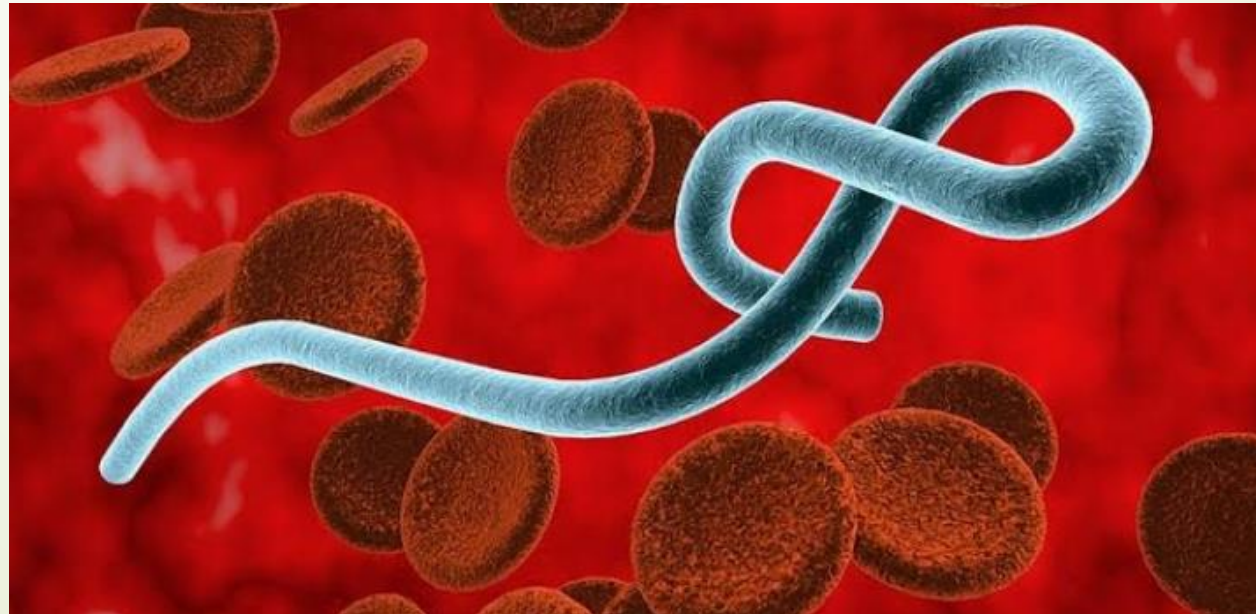
Source: WHO

Ebola

One of the deadliest Disease

Ebola virus

- It is a filament shaped virus belongs to family filoviridae
- Name came From Ebola river Zaire, DRC
- It was discovered in 1976
- The genetic material is RNA
- Which causes disease Called Ebola viral disease or Ebola
- Average death rate is 50 percentage



Ebola

- Viral Haemorrhagic fever of human or other primates caused by ebola virus
- Deadliest diseases with symptoms starts from 2 days to a week
- **The virus is transmitted to people from wild animals and spreads in the human population through human-to-human transmission.**
- 2014-15 outbreaks in West Africa.
- **Case fatality rates have varied from 25% to 90% in past outbreaks**



Source: World health organisation

Transmission

- Ebola is introduced into the human population by blood/ meat/ secretion of wild animals like chimpanzees, monkey and Fruit bats in tropical rainforest.
- Human to human transmission is by
- Direct contact of blood from infected person or dead bodies
- Object contaminated with virus from blood /vomit/feces.
- Health Care workers from infected patients
- Breast feeding babies from their mother.



Symptoms

- Fever
- Fatigue
- Muscle pain
- Headache
- Sore throat
- Vomiting
- Diarrhoea
- Rash
- Symptoms of impaired kidney and liver function
- In some cases, both internal and external bleeding (for example, oozing from the gums, or blood in the stools).
- Laboratory findings include low white blood cell and platelet counts and elevated liver enzymes.

Diagnosis

- ELISA
- RT-PCR
- ELECTRON MICROSCOPE
- ISOLATION BY VIRAL CULTURE

Treatment

- Rehydration with fluid orally or intravenous
- Immune therapies
- Drug therapies
- Vaccine under trail- rVSV-ZEBOV (Used in recent outbreaks in west Africa).





Prevention and control

- **Reducing the risk of wildlife-to-human transmission**
- **Reducing the risk of human-to-human transmission**
- **Outbreak containment measures**, including safe and dignified burial of the dead
- **Reducing the risk of possible sexual transmission**
- **Reducing the risk of transmission from pregnancy related fluids and tissue**