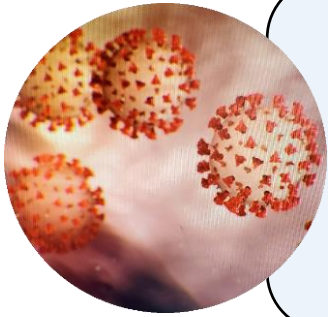
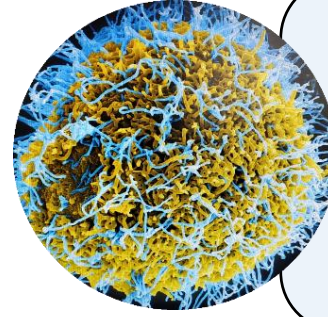


# The World's Deadliest Viruses



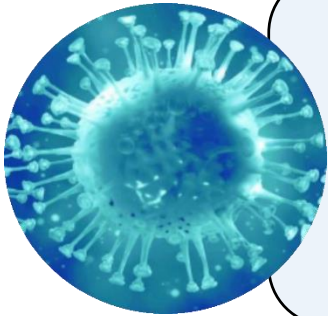
## Sars-CoV-2 (COVID-19)

**First Identified:** 2019                      **Mortality Rate:** 6%  
**Route of Transmission:** airborne, droplet, contact  
**Symptoms:** fever, cough, shortness of breath, fatigue, muscle or body aches, loss of taste or smell, nausea, vomiting, diarrhea, & congestion  
**Current Outbreaks:** 2020 global pandemic  
**Infections:** 6.11 M (2020)                      **Deaths:** 370,000 (2020)  
**Incubation Period:** 5-14 Days                      **Vaccine:** No licensed vaccine



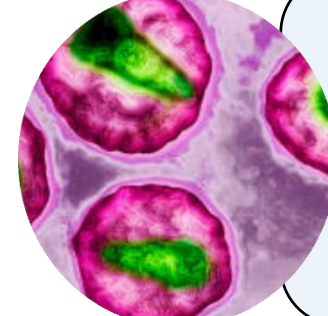
## Ebola Virus Disease (EVD)

**First Identified:** 1976                      **Mortality Rate:** 65%  
**Route of Transmission:** blood, body fluids, or tissue, contact with contaminated objects, infected fruit bats, apes, or monkeys  
**Symptoms:** fevers, aches, fatigue, vomiting, hemorrhage, & bruising  
**Current Outbreaks:** Democratic Republic of Congo 2018- present  
**Infections:** 3406 (2019)                      **Deaths:** 2243 (2019)  
**Incubation Period:** 2-21 Days                      **Vaccine:** No licensed vaccine



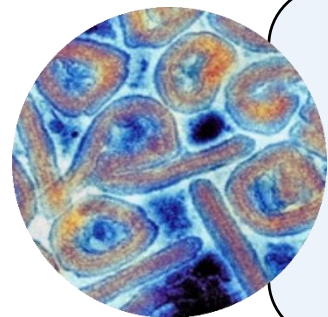
## Influenza A, B, & C Viruses

**First Identified:** 1933 (first isolated)                      **Mortality Rate:** 1%  
**Route of Transmission:** airborne and contact with infected surfaces  
**Symptoms:** fever, cough, sore throat, congestion, headache, & fatigue  
**Current Outbreaks:** seasonal October through April each year  
**Infections:** 39-56 M (2018-2019)                      **Deaths:** 24-62K (2018-2019)  
**Incubation Period:** 1-4 Days                      **Vaccine:** first in 1940's



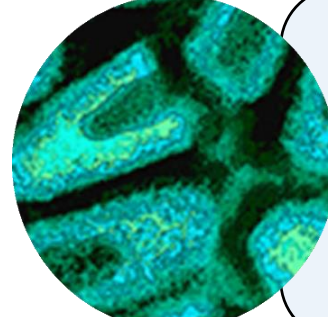
## Human Immunodeficiency Virus (HIV)

**First Identified:** 1983                      **Mortality Rate:** 95% after 10 years  
**Transmission:** blood, semen, rectal or vaginal fluids, & breast milk  
**Symptoms:** sore throat, swollen glands, muscle aches, rash, nausea, night sweats vomiting, & diarrhea  
**Current Outbreaks:** global epidemic ongoing  
**Infections:** 74.9 M as of 2018                      **Deaths:** 32 M as of 2018  
**Incubation Period:** 40-60 Days                      **Vaccine:** No licensed vaccine



## Marburg Virus (Hemorrhagic Fever)

**First Identified:** 1967                      **Mortality Rate:** 23% - 90%  
**Route of Transmission:** contact with blood, body fluids, or tissue of a person who is infected or died for Marburg  
**Symptoms:** fevers, bleeding, shock, organ failure, & death  
**Current Outbreaks:** 2014 Uganda  
**Infections:** 1 (2014)                      **Deaths:** 1 (2014)  
**Incubation Period:** 5-10 Days                      **Vaccine:** No licensed vaccine



## Rabies Virus

**First Identified:** 18<sup>th</sup> C BC                      **Mortality Rate:** 100% once symptomatic  
**Transmission:** saliva of infected animals  
**Symptoms:** irritability or aggressiveness, confusion, bizarre or strange thoughts, or hallucinations, muscle spasms, seizures, & paralysis  
**Current Outbreaks:** 95% of cases occur in Africa  
**Infections:** 100,000 (2017-2018)                      **Deaths:** 59,000 per year  
**Incubation Period:** 3-8 week                      **Vaccine:** 1885