

# New Pathogens



## Dengue

1970

Only nine countries had Dengue Fever. In 2019, there were over 400 million infections worldwide.



## West Nile

1999

Approximately 1,000 cases/year.



## Ebola

2013

Originated in Guinea resulted in 28,600 cases.



## Zika

2007, 2013 (French Polynesia), 2015 (Brazil) spread to 86 countries. Resulted in 200k cases and 8,600 birth malformations in Brazil.



1970-  
2020



## Lyme

1975

At least 30,000 cases/year.



## SARS

2002

Severe Acute Respiratory Syndrome. Highly infectious, 10% fatal, resulted in 8,000 cases in 37 countries.



## MERS

2012

Bat reservoir; camel intermediary. Identified in Saudi Arabia; 1,842 cases, 35% fatal.



## COVID19

2019

SARS-CoV2; global pandemic in nearly all countries.

