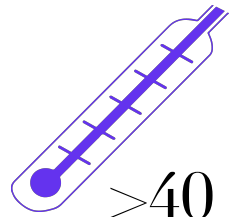


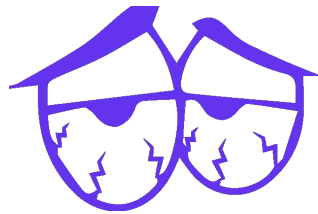
MEASLES

Symptoms:

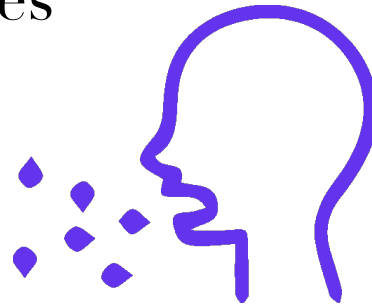


high fever

>40 °C / 104 °F



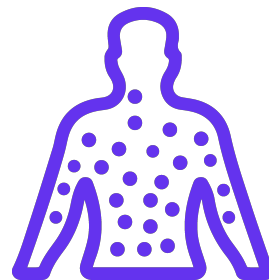
red,
watery
eyes



cough, runny nose

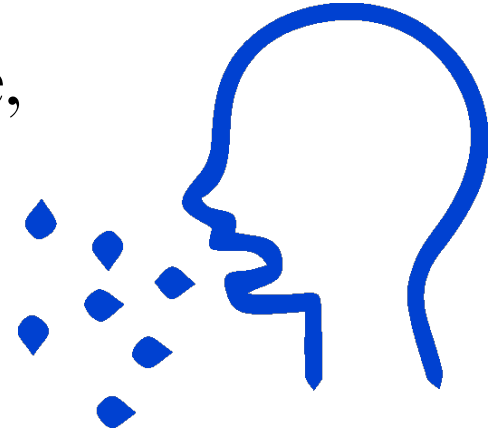


White spots inside mouth after
2-3 days; Rash of tiny red spots
appears after 3-5 days and then
spreads from head to body



Transmission:

cough, sneeze,
or breathing



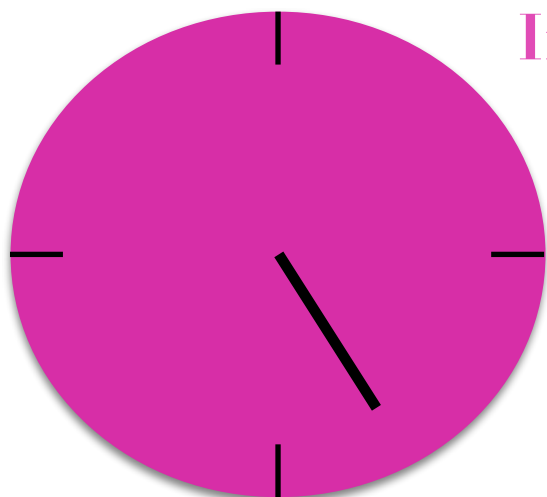
(airborne & can survive up to
2 hours in air or on a surface)



Mortality Rate:

134,200 deaths
globally in 2015

a leading cause of death in children
worldwide despite vaccine available



Incubation Period:

10-14 days

Communicable Period:

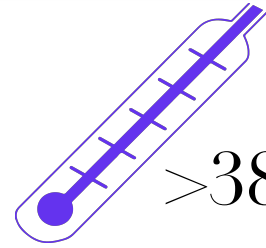
4 days before rash
to 4 days after rash

Severe acute respiratory syndrome

SARS

Symptoms:

body ache
diarrhea



fever
 $>38\text{ }^{\circ}\text{C} / 100.4\text{ }^{\circ}\text{F}$



fatigue

headache



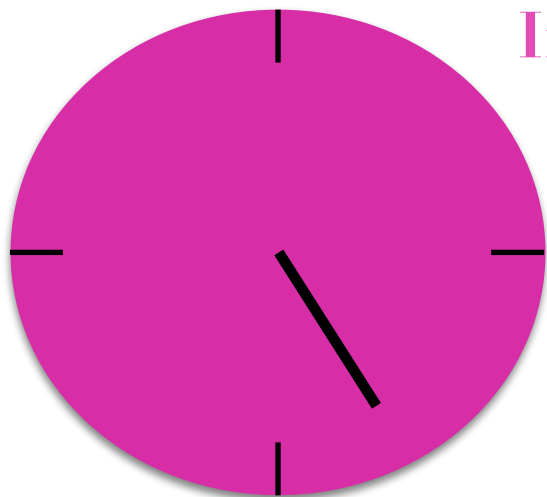
After 7-10 days most
patients develop pneumonia

Incubation Period:

2-7 days

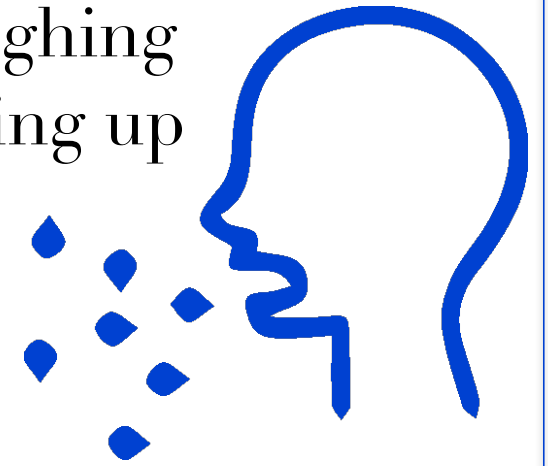
Communicable Period:

only with symptoms



Transmission:

sneezing or coughing
(droplet spreading up
to ~3 ft)



contact with infectious droplets
through broken skin or membranes



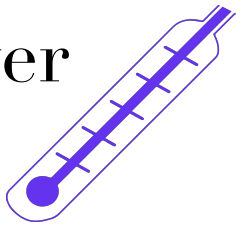
Mortality Rate:

774 deaths of
8,098 cases
during 2003
outbreak

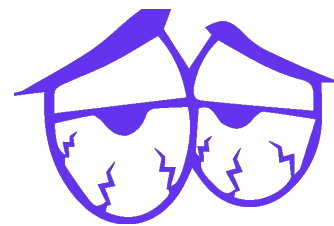
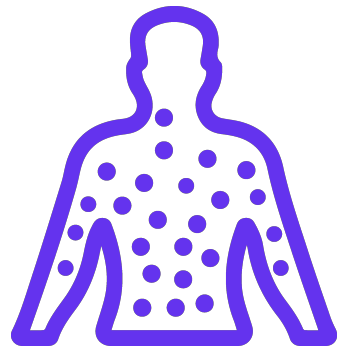
ZIKA

Symptoms: many people have no or minor symptoms only

fever



rash



red, watery eyes

joint pain



birth defects of microcephaly and Guillain-Barre syndrome (GBS)

Incubation Period:

3-12 days after bite

Communicable Period:

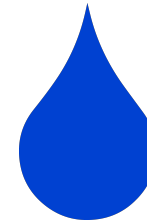
likely a few weeks; before, during, and after symptoms

Transmission:



Aedes species
mosquito bites

Mother can
pass Zika to
fetus



Sexual activity; other blood-borne modes being investigated



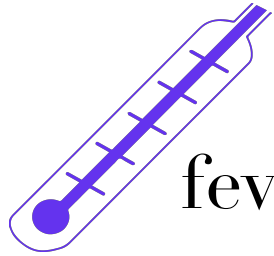
Mortality Rate:

6 deaths of 110,000
cases as of 2015-2016

Microencephaly complications in newborns are serious but not fatal

EBOLA

Symptoms:



fever

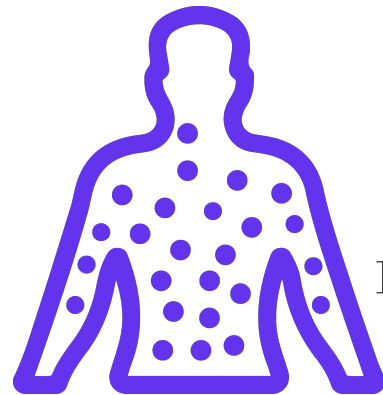


headache

diarrhea
body ache



vomiting



rash

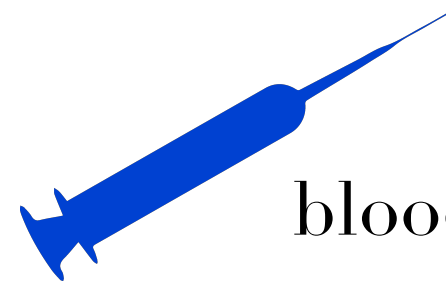
Incubation Period:

2-21 days (average of
8-10 days) after exposure

Communicable Period:

not contagious until
symptoms appear

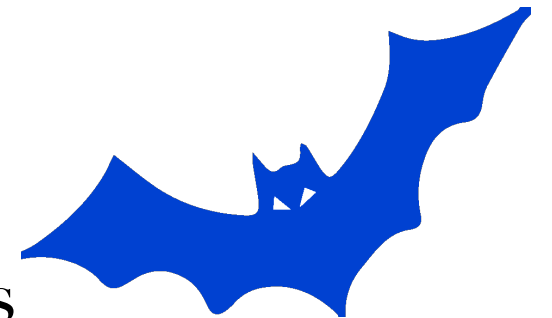
Transmission:



blood, body fluids, or
contaminated objects



infected fruit
bats or primates



Mortality Rate:



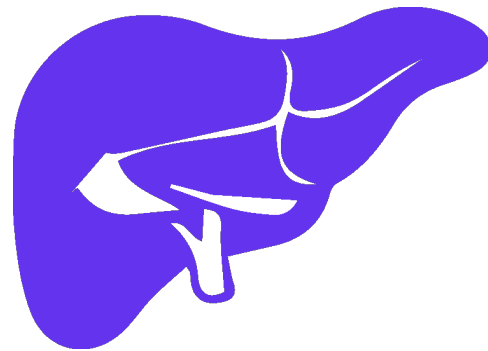
Fatality rate ~50%;
ranging from 25%
to 90% in past
outbreaks

HEPATITIS C

Symptoms:

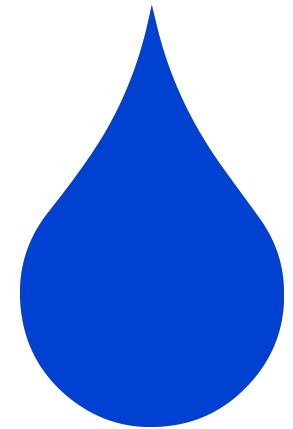
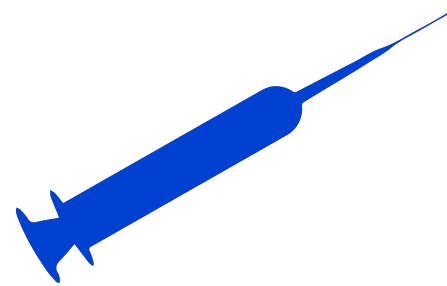
Acute Hepatitis C Virus (HCV) is often asymptomatic and 15-45% of patients spontaneously clear the virus

Few symptoms until liver damage occurs



Transmission:

blood borne



Mortality Rate:

19.368 deaths
in 2013

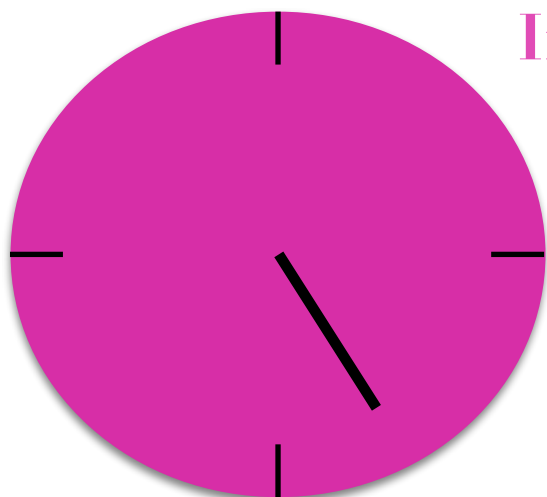
more americans die of HCV
infection than from all other
infectious diseases combined!

Incubation Period:

2 weeks to 6 months

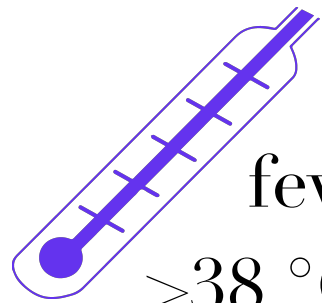
Communicable Period:

1 or more weeks *before*
symptomatic, then contagious
indefinitely



RABIES

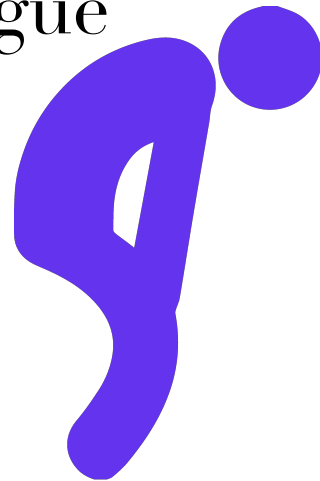
Symptoms:



fever

$>38\text{ }^{\circ}\text{C}$ / $100.4\text{ }^{\circ}\text{F}$

fatigue



eventually, fatal inflammation of the brain and spinal cord develops leading to either excited behavior or paralysis and coma

Incubation Period:

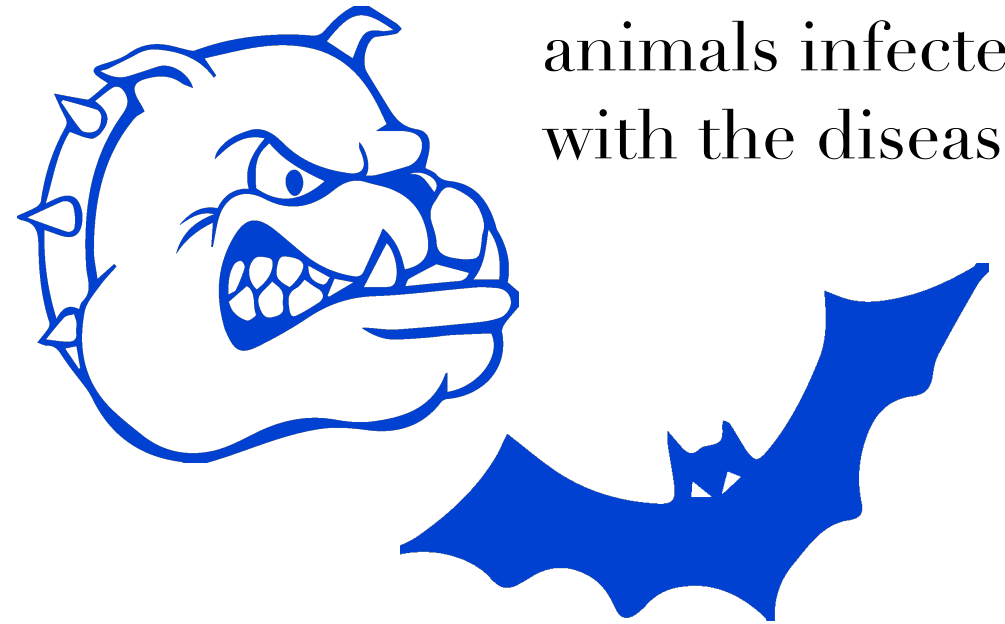
1-3 months

Communicable Period:

late in the disease, in the infected animal

Transmission:

bites from animals infected with the disease



Mortality Rate:

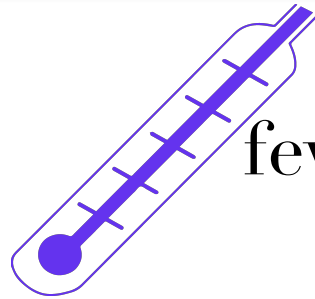
Almost always fatal following the onset of symptoms

Severe acute respiratory syndrome **COVID 19**

Symptoms:

body ache

Fatigue



fever



cough

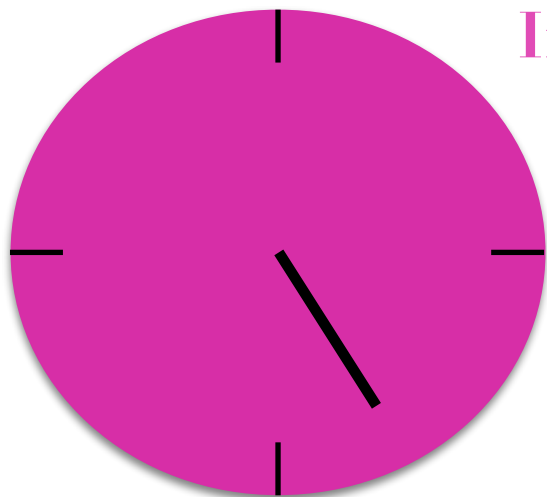
Many patients develop pneumonia in second week

Incubation Period:

2-14 days

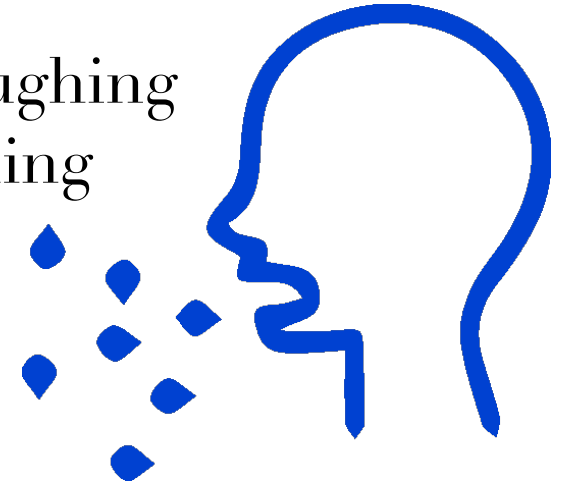
Communicable Period:

not yet known



Transmission:

sneezing or coughing
(droplet spreading
up to ~6 ft)



contact with infectious droplets
through broken skin or membranes



Mortality Rate:

~1-8% but the
rate is not yet
well-characterized
due to limited
tests available