Pandemics and epidemics - How many are you already aware of?

Epidemic is a term that is often broadly used to describe any problem that has grown out of control. An epidemic is defined as "an outbreak of a disease that occurs over a wide geographic area and affects an exceptionally high proportion of the population."

An epidemic is an event in which a disease is actively spreading. In contrast, the term pandemic relates to geographic spread and is used to describe a disease that affects a whole country or the entire world.

### TED TALKS

https://ed.ted.com/lessons/how-pandemics-spread

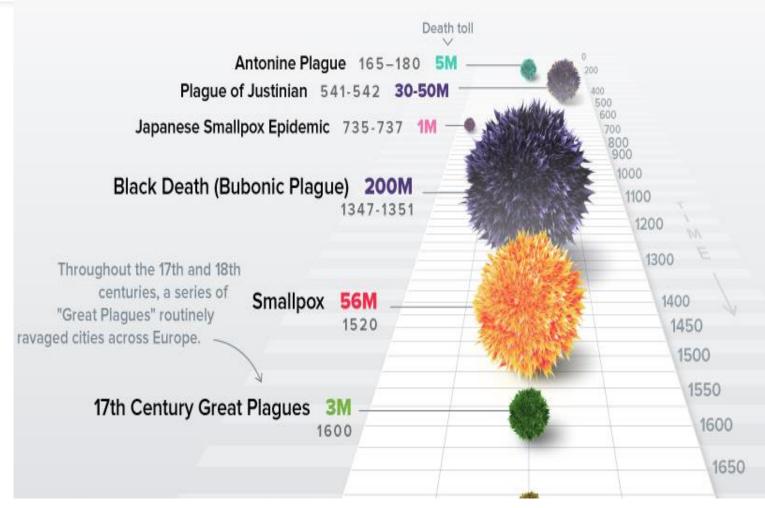


### Epidemics and Pandemics - Articles

- https://www.visualcapitalist.com/history-of-pandemics-deadliest/
- <a href="https://www.livescience.com/worst-epidemics-and-pandemics-in-history.html">https://www.livescience.com/worst-epidemics-and-pandemics-in-history.html</a>
- <a href="https://www.history.com/news/pandemics-end-plague-cholera-black-death-smallpox">https://www.history.com/news/pandemics-end-plague-cholera-black-death-smallpox</a>
  Some interesting historical ones.
- <a href="https://www.cdc.gov/flu/pandemic-respurces/basics/past-pandemics.html">https://www.cdc.gov/flu/pandemic-respurces/basics/past-pandemics.html</a>
- <a href="http://theconversation.com/10-misconceptions-about-the-1918-flu-the-greatest-pandemic-in-history-133994">http://theconversation.com/10-misconceptions-about-the-1918-flu-the-greatest-pandemic-in-history-133994</a>

# HISTORY OF PANDEMICS

**PAN-DEM-IC** (of a disease) prevalent over a whole country or the world.



THROUGHOUT HISTORY, as humans spread across the world, infectious diseases have been a constant companion. Even in this modern era, outbreaks are nearly constant.

Here are some of history's most deadly pandemics, from the Antonine Plague to COVID-19.



#### [HIGHEST TO LOWEST]

#### 200M

Black Death (Bubonic Plague)



What reasons/ contributing factors might explain these statistics?





40-50M 30-50M Spanish Flu Plaque of Justinian





The plague originated in rats and spread to humans via infected fleas. The outbreak wiped out 30-50% of Europe's population. It took more than 200 years for the continent's population to recover.

Smallpox killed an estimated 90% of Native Americans. In Europe during the 1800s, an estimated 400,000 people were being killed by smallpox annually. The first ever vaccine was created to ward off smallpox.

The death toll of this plague is still under debate as new evidence is uncovered, but many think it may have helped hasten the fall of the Roman Empire.



25-35M HIV/AIDS 1981-PRESENT



12M The Third Plague 1855



Antonine Plague 165-180



17th Century **Great Plagues** 1600



1.1M Asian Flu 1957-1958



Russian Flu 1889-1890



consensus on death tolls.

A series of Cholera outbreaks spread around the world in the 1800s killing millions of people. There is no solid

Hong Kong Flu 1968-1970



1M Cholera 6 outbreak 1817-1923

## Thoughts and Discussion



- From your reading and research:
- What do these epidemic / pandemics have in common?
- Whose responsibility is it to deal with these pandemics?
- What are some misconceptions people have about pandemics?
- Why is it important that we read from reliable sources of information?
- How do we know if a piece of research is reliable?

## Memory Box - Task

Extension - Create a fact file on the individuals / organisations that have helped combat these pandemics.

Chose on of the epidemics from History.

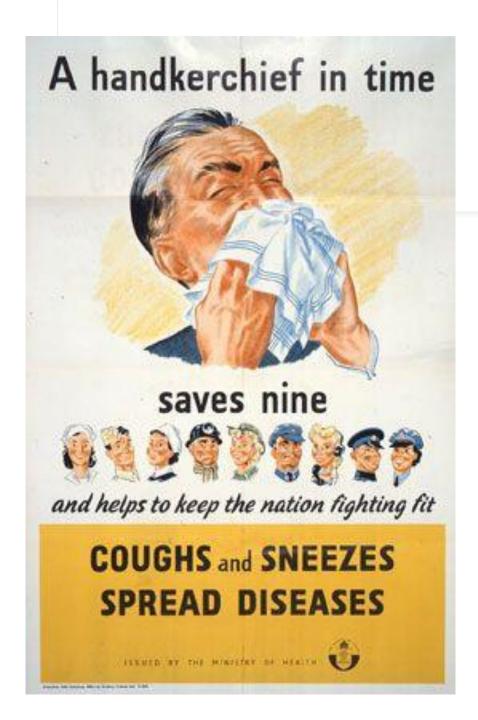
Write a diary entry about: the causes and symptoms of the disease/virus.

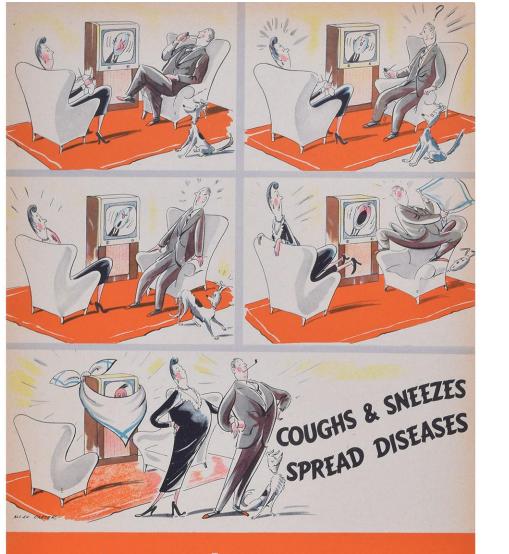
What is being done to deal with it?

What has the impact been? (Challenge – keep it accurate to the historical context).

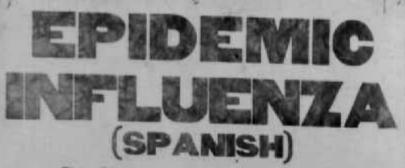
OR

Create a public information leaflet / poster / broadcast on what everyone's roles and responsibilities are in dealing with your chosen out break.





trap the germs in your handkerchief



This Disease is Highly Communicable. It May Develop into a Severe Pneumonia.

There is no medicine which will prevent it.

Keep away from public meetings, theatres and other places where crowds are assembled.

Keep the mouth and nose covered while coughing or sneezing.

When a member of the household becomes ill, place him in a room by himself.

The room should be warm, but well ventilated.

The attendant should put on a mask before entering the room of those ill of the disease.

#### TO MAKE A MASK

Take a piece of colleger themselves 0 = 16 cycles, build it to notice 0.5 = 8 cm/ms. Next field this to make it 5 = 4 cockes. The cords about 10 cockes long at each cockes. Apply ones among and more at about it for making the property of the property of



ISSUED BY THE PROVINCIAL BOARD OF HEALTH

## INFLUENZA

FREQUENTLY COMPLICATED WITH

### PNEUMONIA

IS PREVALENT AT THIS TIME THROUGHOUT AMERICA.
THIS THEATRE IS CO-OPERATING WITH THE DEPARTMENT OF HEALTH.

### YOU MUST DO THE SAME

IF YOU HAVE A COLD AND ARE COUGHING AND SNEEZING DO NOT ENTER THIS THEATRE

### GO HOME AND GO TO BED UNTIL YOU ARE WELL

Coughing Sneezing or Spitting Will Not Be Permitted In The Theatre. In case you must cough or Sneeze, do so in your own hand kerchief, and if the Coughing or Sneezing Perstats Leave The Theatre At Once.

This Theatre has agreed to co-operate with the Department Of Health in disseminating the truth about Influenza, and thus serve a great educational purpose.

# HELP US TO KEEP CHICAGO THE HEALTHIEST CITY IN THE WORLD

JOHN DILL ROBERTSON

