# The Black Plague



1347 - 1351

### Why did the plague hit Europe so hard?

By 1300 Europeans were farming as much land as they could cultivate, leading to a population crisis and overcrowding.

Excessive rain due to climate changes produced three years of crop failures between 1315-17.



Some villages lost up to 15% of their peasant population.

Starvation and poverty gave way to susceptibility to disease.

The lack of sanitation procedures for keeping extremely crowded towns clean created a breeding ground of disease.

The Bubonic Plague wiped out one-third of Europe's population between 1347 and 1351 - only 4 years!

#### 3 Forms of the Plague



Bubonic Plague painful lymph node swellings, buboes

Septicemic Plague also called "blood poisoning", attacked the blood system





Pneumonic Plague attacked the respiratory system

#### Causes of the Plague

Myths



It was a punishment from God.

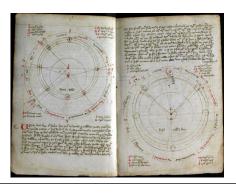


Foreigners or those of a different religion had poisoned the wells



Bad air

The position of the planets



#### The Bubonic Plague



Swellings "egg" or "apple"
Fever of 101-105 degrees
Headaches and Aching joints
Nausea
Vomiting of blood
General feeling of malaise

People with swellings might have a chance.

Swellings expanded until they burst - poison was released.

Mortality rate: 30-40% Whole process: 3-5 days

#### The Pneumonic Plague



1-7 days for symptoms to appear

Mortality Rate: 90-95%

2nd most common form of the plague

Slimy sputum tinted with blood infected the lungs

Bacteria in saliva coughed or sneezed up by sick persons



#### The Septicemic Plague

DIC: disseminated intravascular coagulation (bleeding under the skin)

Attacked the blood system (Blood Poisoning)



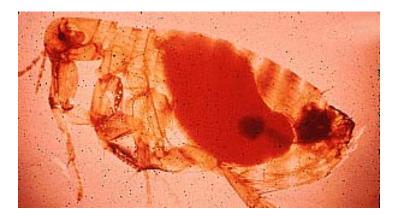
caused the skin to turn dark purple, almost black: The Black Death

Victims usually died the same day symptoms appeared.

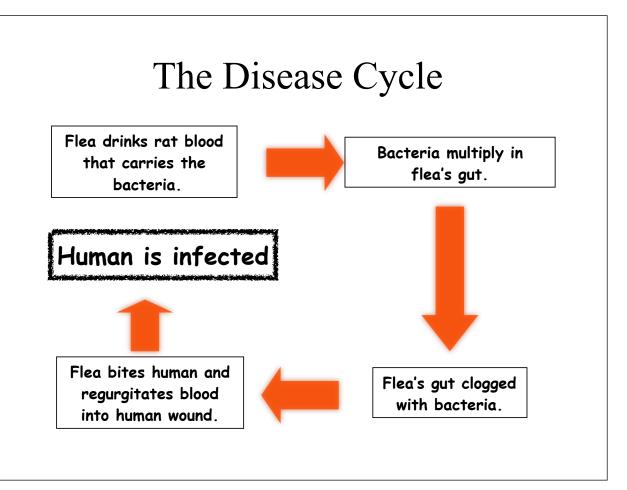
Mortality Rate: close to 100%

## Transmission of the Bubonic and Septicemic Plague

Direct contact with a flea



The Bacteria (Yersinia pestis) carried by rodents
Fleas infest animals, primarily rats
Then move to human hosts
The oriental rat flea, Xenopsylla cheopis









Flagellanti: self-inflicted "penance" for sins

"Leeching"

A Doctor's Robe



"Golden Circle" obligatory badge

Pograms against Jews



