


Biology 675

The impact of disease on human history



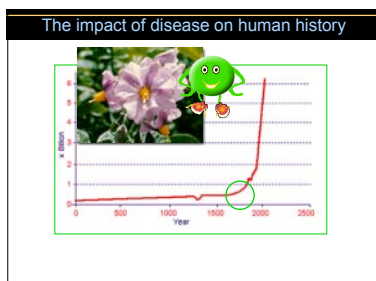
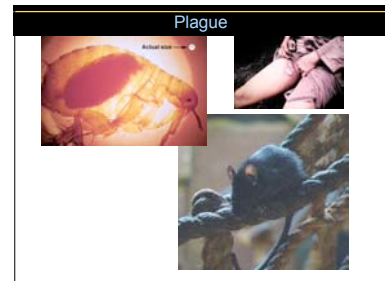
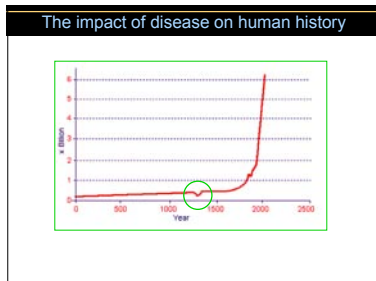
© Christine Case, Bayline College

The impact of disease on human history

| | | | |
|------------|-----------|-----|--|
| Greece | 430 B.C. | 70% | |
| W. Europe | 1347 A.D | 50% | |
| Hispaniola | 1492-1518 | 35% | |
| Paris | 1499 | 40% | |
| Peru | 1527-1600 | 75% | |
| U.K. | 1665 | 75% | |

The impact of disease on human history

| | | | |
|-----------|---------|------|--|
| N. Amer. | 1775-82 | 35% | |
| N. Dakota | 1837 | 95% | |
| Fiji | 1875 | 25% | |
| World | 1918 | 0.5% | |
| World | 1981- | 25% | |



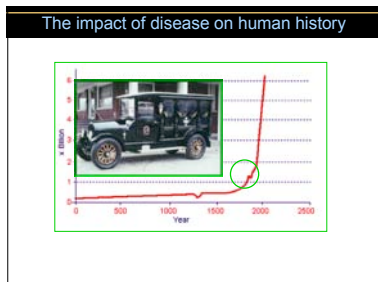
Phytophthora ramorum

Frustrating hunt for California tree killer

gen banks not clear infection

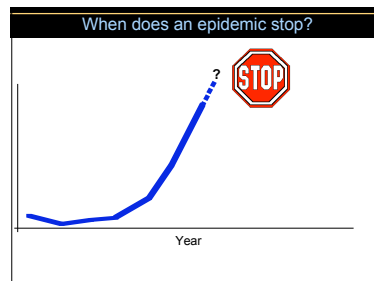
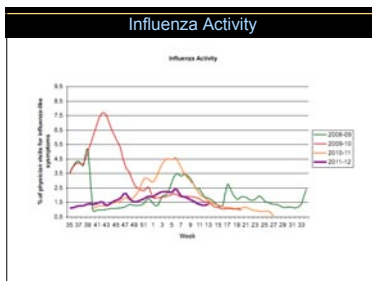
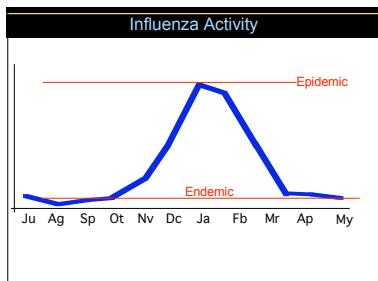
Soil or water not host





BioBucks

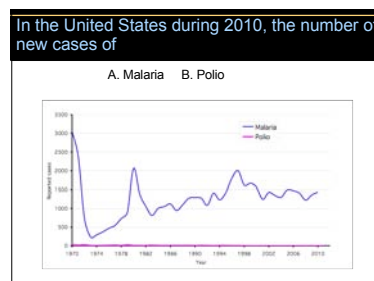
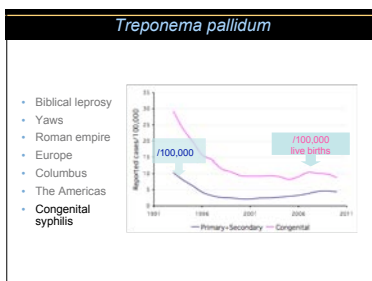
- Did authorities have the right to take Mary's stool (feces)?
- Did authorities have the right to take Mary's blood?
- Was her sentence appropriate & just?



Treponema pallidum

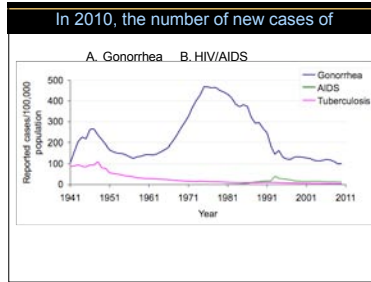
"Miriam was leprosy as snow..."
(October 02-10)

"...it is the infection of leprosy...the priest shall isolate him who has the infection..."
(Leviticus 13)



In 2010, the number of new cases of

A. Gonorrhea B. HIV/AIDS



Worldwide, the primary method of transmission of AIDS is

A. Blood transfusions
 B. IV drug use
 C. Homosexual sex
 D. Heterosexual sex
 E. Being born to an HIV+ mother

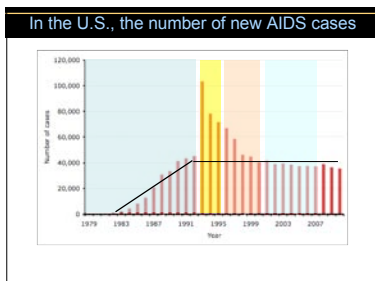
Worldwide, the primary method of transmission of AIDS is

| Region | Males : Females | Number |
|---------------------------|-----------------|-----------|
| North America | 9.3:1 | 1,000,000 |
| Oceania | 7:1 | 30,000 |
| Western Europe | 7:1 | 500,000 |
| Eastern Europe | 5:1 | 20,000 |
| Asia & S.E. Asia | 14:1 | 500,000 |
| Sub-saharan Africa | 1:1 | 6,000,000 |
| Caribbean & Latin America | 1:1 | 1,000,000 |



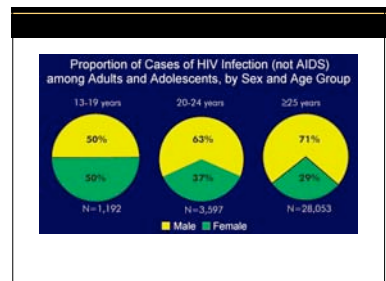
In the U.S., the number of new AIDS cases

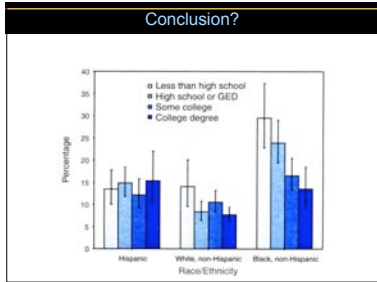
A. Between 1981 and 1992
 B. Between 1993 and 1995
 C. Between 1996 and 2000
 D. Between 2001 and 2007
 E. All are equal



The likelihood that a 24-year old with AIDS contracted the disease as a

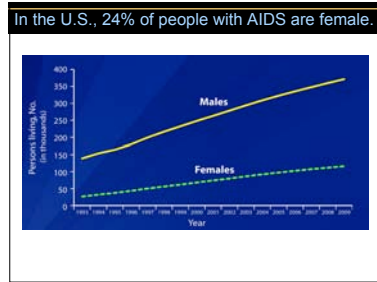
A. Young adult
 B. Teenager
 C. Equal





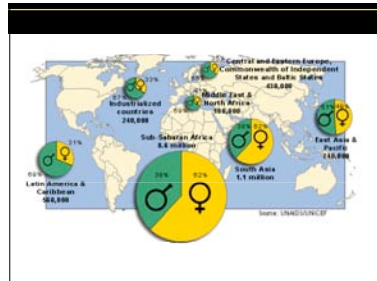
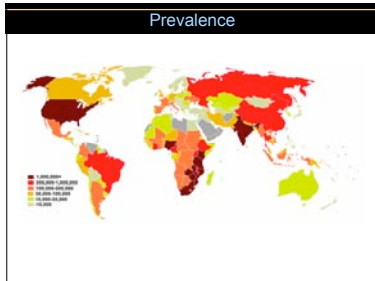
During heterosexual intercourse between 24 and 44 years of age, the likelihood that the

A. Woman will get AIDS
 B. Man will get AIDS
 C. Equal



Worldwide, the ranking of AIDS as a cause of death among persons of all races?

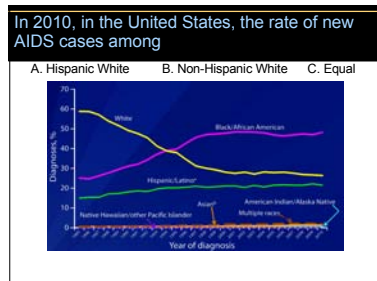
Diarrheal disease
 Heart disease
 HIV/AIDS
 Lower respiratory infection
 Malaria
 Stroke
 Tuberculosis

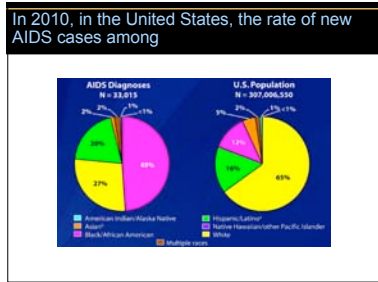


- 1/3 of the population of sub-Saharan African will die in the next 10 years.
- What can/should we do?

In 2010, in the United States, the rate of new AIDS cases among

A. Hispanic White B. Non-Hispanic White C. Equal





The incidence of AIDS in

A. New York
 B. California
 C. Equal

