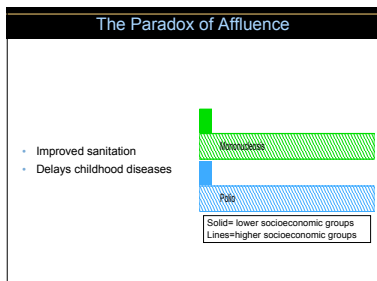
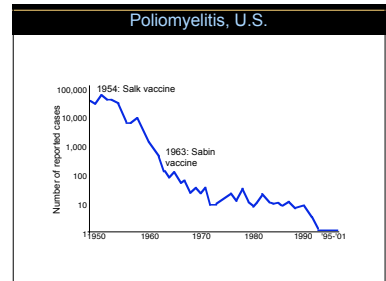
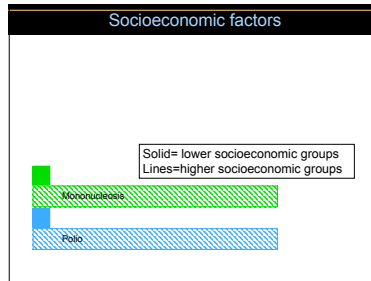
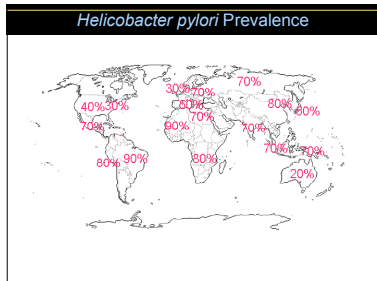
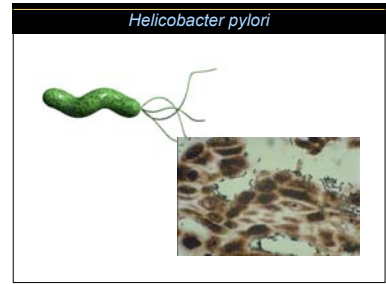
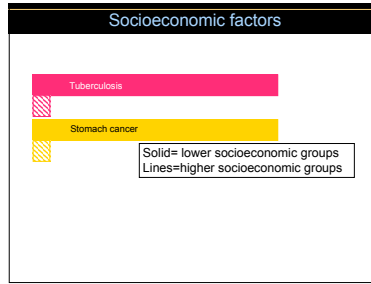


Biology 675

SOCIOPOLITICAL FACTORS

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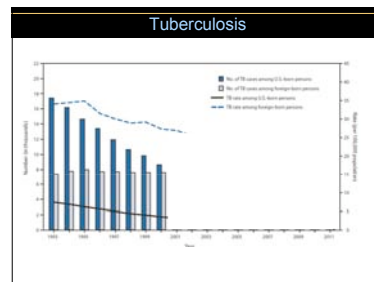
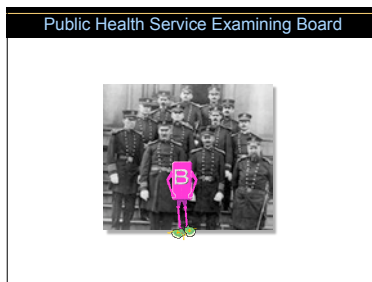
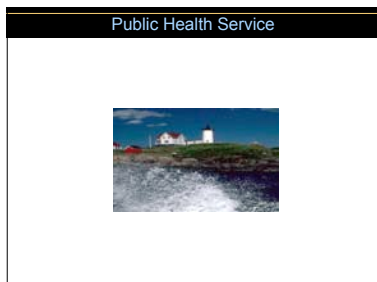


Top 10

Morbidity	Mortality
• Diarrhea	• Pneumonia
• Tuberculosis	• Diarrhea
• Worms	• Tuberculosis
• Malaria	• Malaria
• Hepatitis (HBV, HCV)	• AIDS
• Pneumonia	• Hepatitis B
• STDs	• Measles
• Measles	• Neonatal tetanus
• Pertussis	• Pertussis
• HIV (new infections)	• Worms
• Meningococcal meningitis	

Approximately 50,000 people die each day from infectious disease. What is the best way to decrease this death rate?

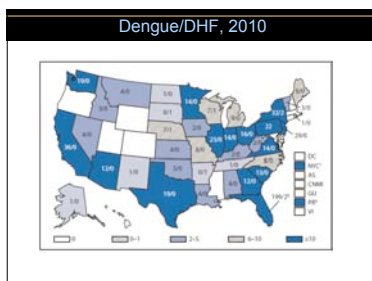
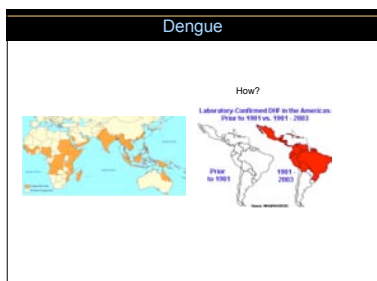
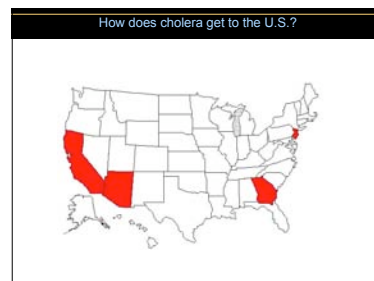
	U.S.	Somalia
Literacy rate	95.5%	54.8%
Access to safe H ₂ O	100%	35%
Mortality rate	8.5%	18.1%
GNP	\$22,450	\$150
% food	138%	81%



1990 Immigration Act

*...communicable diseases of public health significance...

- Cholera
- Diphtheria
- Infectious tuberculosis
- Plague
- Smallpox
- Yellow fever
- Viral hemorrhagic fevers (e.g., Marburg, Ebola)



BioBucks

- Should the U.S. provide treatment for the treatable diseases in Table 1?
- Does Immigration Law favor the rich?
- Should the U.S. provide vaccinations for immigrants?
- Should all applicants receive vaccinations or only those accepted for immigration?

Whodunit?

- Measles result in severe complications, including encephalitis, pneumonia, and death.
- San Diego, 2008
- Measles has not been endemic in the United States since 1997, although limited outbreaks continue to be caused by _____

Whodunit?

- Measles result in severe complications, including encephalitis, pneumonia, and death.
- San Diego, 2008
- Measles has not been endemic in the United States since 1997, although limited outbreaks continue to be caused by _____
- The index patient was an unvaccinated boy aged 7 years who had visited Switzerland with his family, returning to the United States.
- A total of 11 additional measles cases in unvaccinated infants and children.

State School Laws

- Diphtheria
- Pertussis (whooping cough)
- Tetanus
- Haemophilus influenzae* type b Measles
- Mumps
- Rubella
- Polio
- Hepatitis B
- Vaccinia (chicken pox) (Some states)

Whodunit?

New Hampshire 2009

A US woman diagnosed with a rare gastrointestinal anthrax case may have _____ spores _____

Title 42 Federal Regulations

As with animal trophy materials, animal tissue must be properly processed to render it non-infectious. Some products that are more difficult to render non-infectious, such as gourd-skin drums from Haiti, which have been associated with anthrax, may not be imported.

Public Health 71.54

All of the following are true about anthrax except

- A. It is caused by a virus.
- B. It was discovered in 1877.
- C. It is treatable with penicillin.
- D. It occurs naturally in the U.S.

Bacillus anthracis

Bioweapons

- Anthrax
- Botulism
- Hemorrhagic fever
- Plague
- Smallpox
- Tularemia

Smallpox

- 1100 B.C. –Asia
- 1614 –Europe
- 1717 –Montagu
- 1775 –American epidemic
- 1798 –Jenner
- 1967 –WHO vaccination
- 1972 –U.S. stops vaccination
- 1978 –Last case of smallpox
- 1979 –Smallpox eradicated
- 1995 –Cultures destroyed
- 2002 –Who has cultures?
- 2005 –Vaccination plan