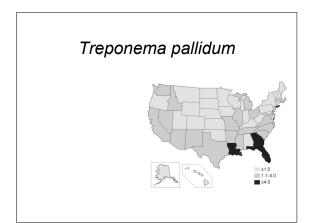
Disease

- Signs
- Symptoms

Etiology

- Infection
- Pathogen
- Virulence

Behavior



Portals of Entry

The microbes' view:

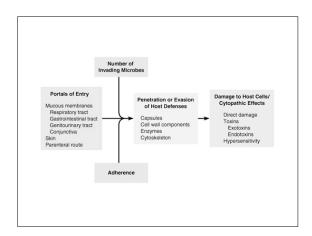
Infectious Dose_{50%} (ID₅₀)

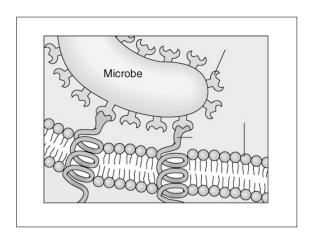


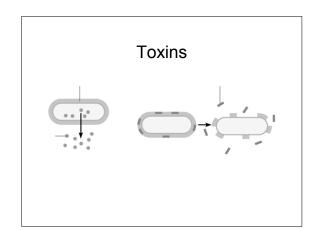
ID_{50}

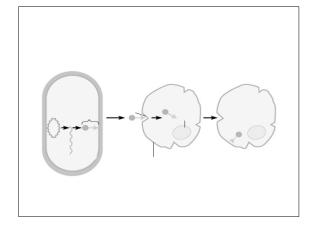
Number of bacteria	Number of dead mice	% dead mice
10	1	
100	3	
1000	6	

What's the ID₅₀?









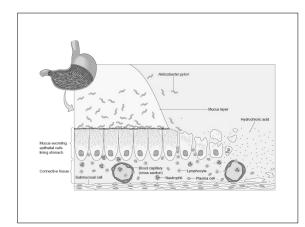
- Gram +
- Metabolic product
- Protein
- Specific action
- Heat labile
- Hi toxicity
- No fever
- Small LD₅₀

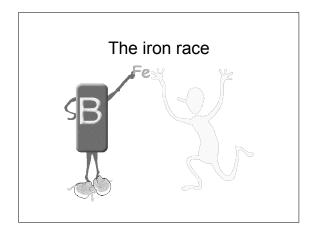
- Gram -
- Structural, LPS
- Lipid A
- General action
- UCHCIAI ACIO
- Heat stable
- · Lo toxicity
- Fever
- High LD₅₀

Enzymes

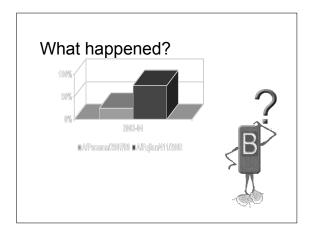
Gastric (peptic) and duodenal ulcers are caused by

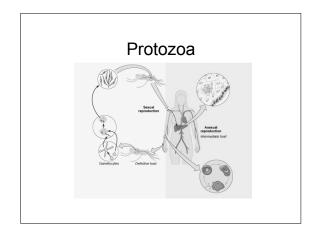
- A. Diet.
 B. Excess acid production.
 C. Stress.
 D. A bacterial infection.
 E. A, B, and C above.





Cytopathic effects





Fungi

