

Perm State Medical University named after
Academician E. A. Wagner
of the Ministry of Healthcare of the Russian
Federation

PATHOLOGIC AND NON PATHOLOGIC GERMS IN HUMAN ORGANISM

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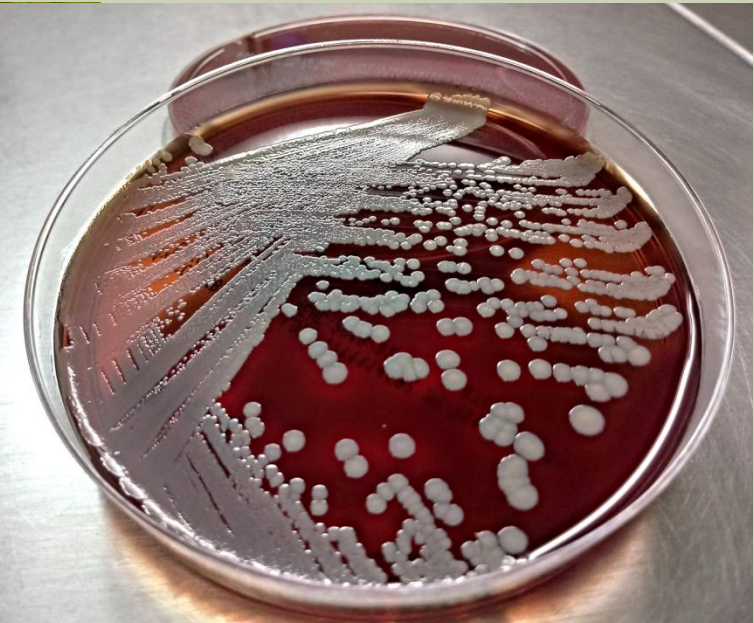
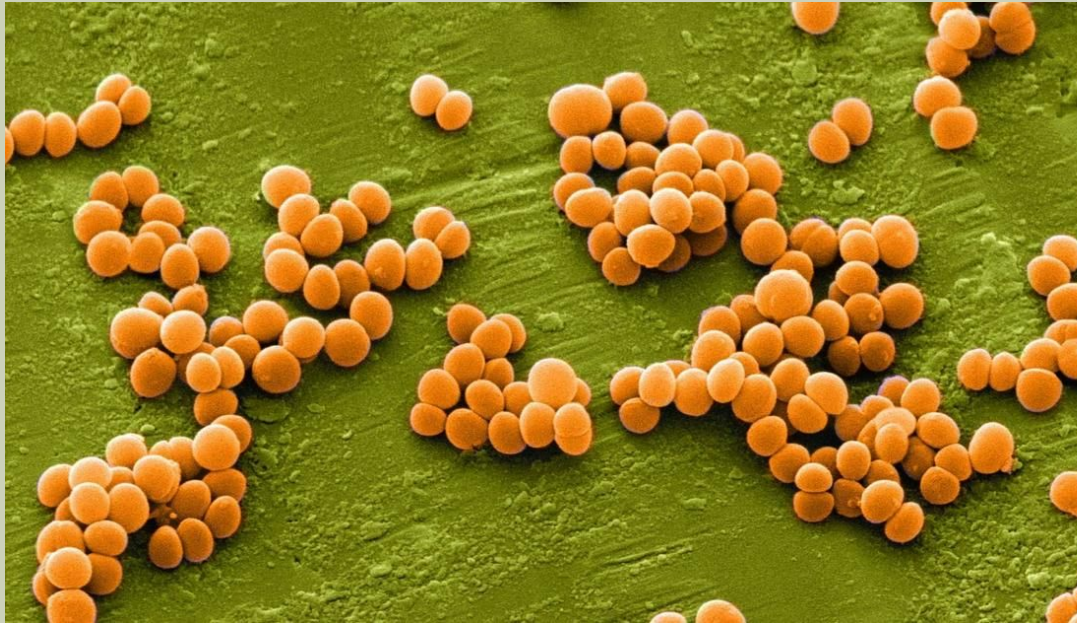
CONTENT

1. Types of harmful bacteria
2. Staphylococcus aureus
3. Salmonella typhi
4. Clostridium tetan
5. Mycobacterium tuberculosis
6. Beneficial bacteria
7. Lactobacillus acidophilus
8. Acidophilus bifidus
9. Escherichia coli

TYPES OF HARMFUL BACTERIA

Titles	Habitat	Harm
Mycobacteria	food, water	tuberculosis, leprosy, ulcer
Tetanus rod	soil, skin, digestive tract	tetanus, muscle spasms, respiratory failure
Plague wand (considered by experts as a biological weapon)	only in humans, rodents and mammals	bubonic plague, pneumonia, skin infections
Helicobacter pylori	human gastric mucosa	gastritis, peptic ulcer, produces cytotoxins, ammonia
Anthrax sticks	the soil	anthrax
Botulism stick	food, contaminated utensils	poisoning

STAPHYLOCOCCUS AUREUS



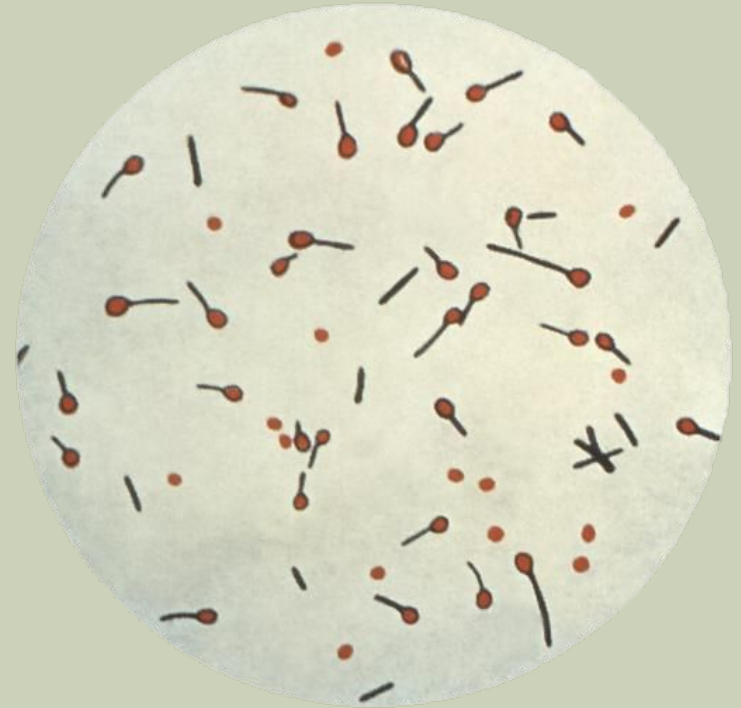
One of the most resistant bacteria is methicillin. This microorganism can cause not one, but several infectious diseases. Some types of these bacteria are resistant to powerful antibiotics and antiseptics.

SALMONELLA TYPHI



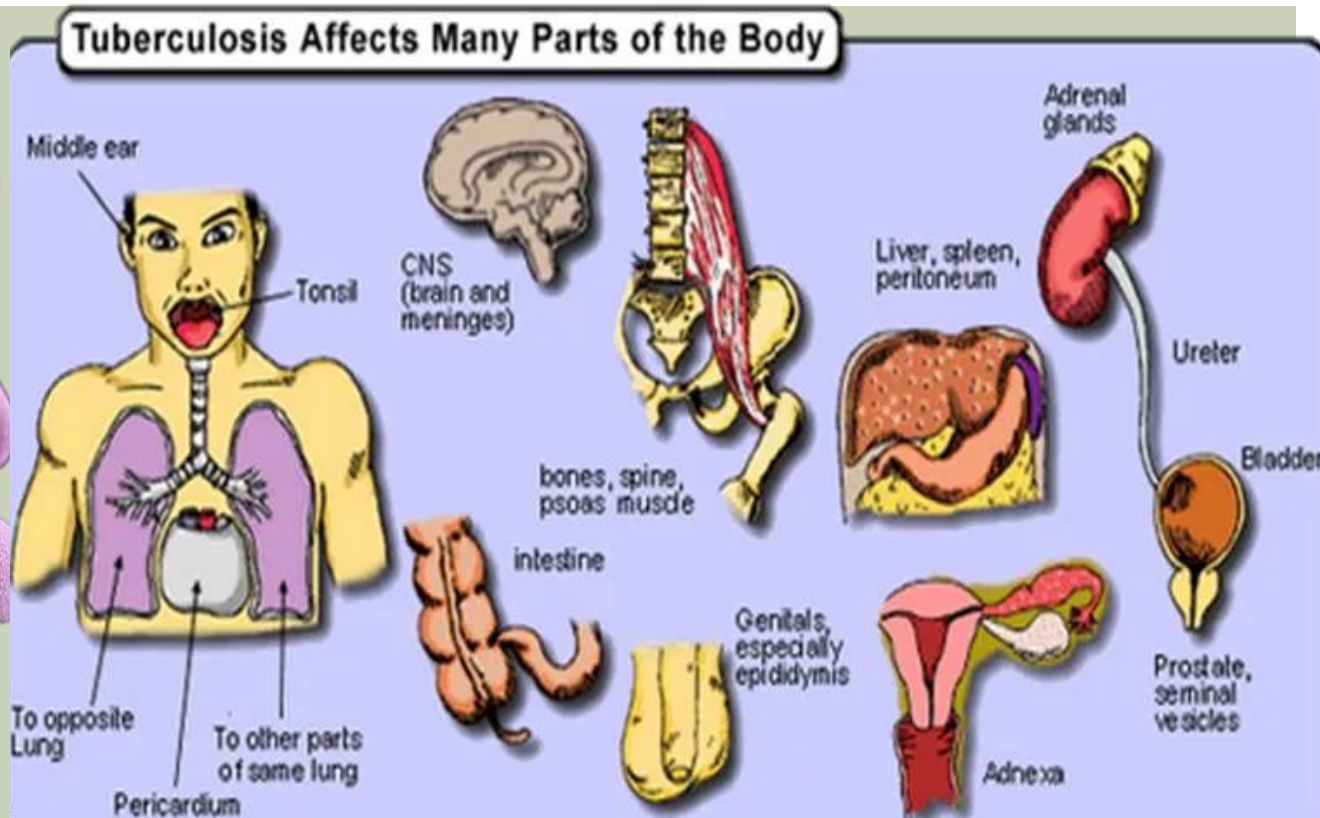
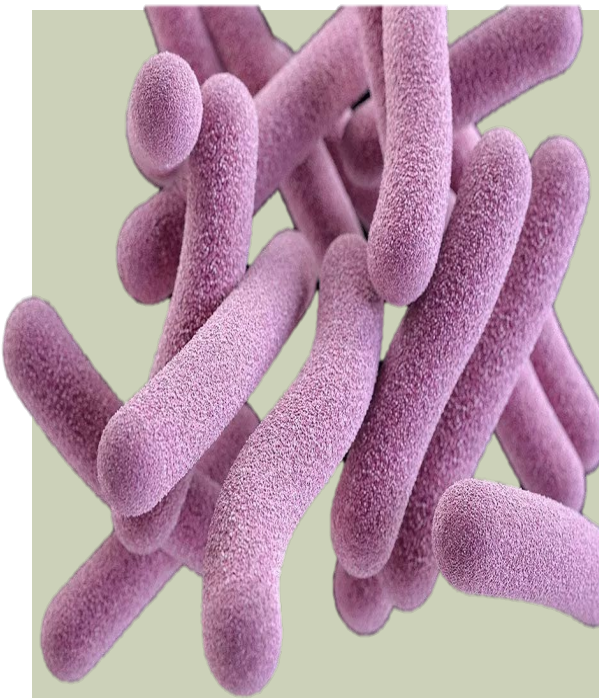
They cause an acute intestinal infections and typhoid fever. The bacterium is very resistant to various external influences. It lives well in water, on vegetables, fruits and reproduces well in milk products.

CLOSTRIDIUM TETAN



Clostridium tetan is also one of the most dangerous bacteria. It produces a poison called tetanus exotoxin. Every year 60 thousands of people die from this disease.

MYCOBACTERIUM TUBERCULOSIS

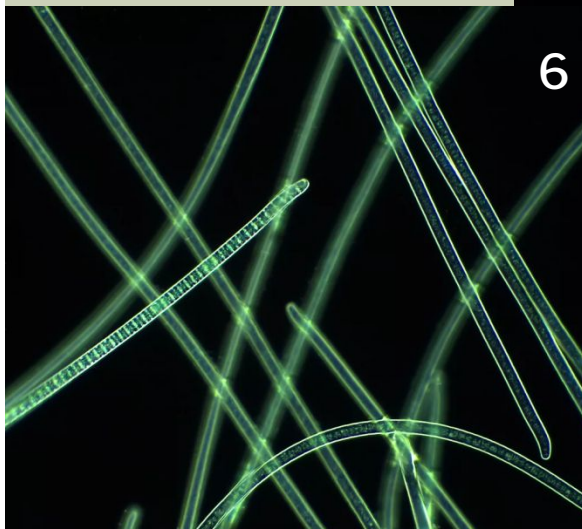
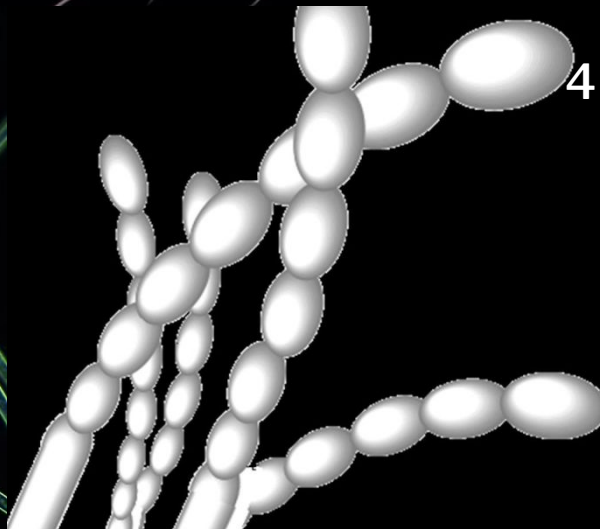
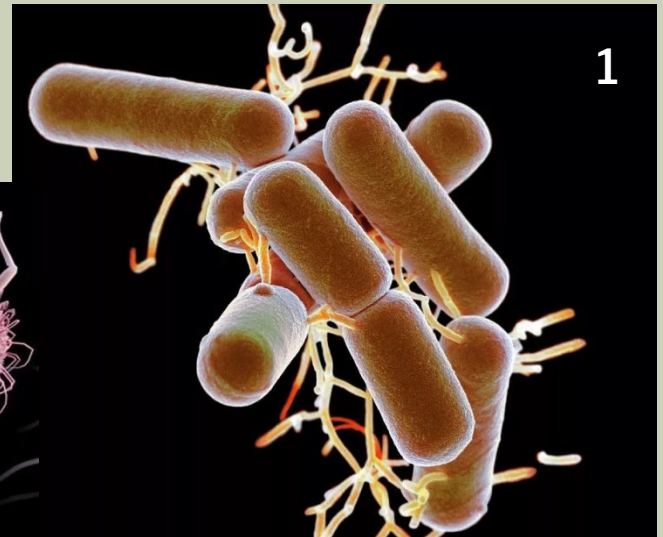


This is another bacterium that can lead to death. It causes tuberculosis, which is resistant to drugs.

BENEFICIAL BACTERIA

There are many beneficial bacteria in human organism. For example:

1. Lactic acid,
2. Bifidobacteria,
3. Esherichia coli,
4. Streptomyces,
5. Mycorrhiza,
6. Cyanobacteria.

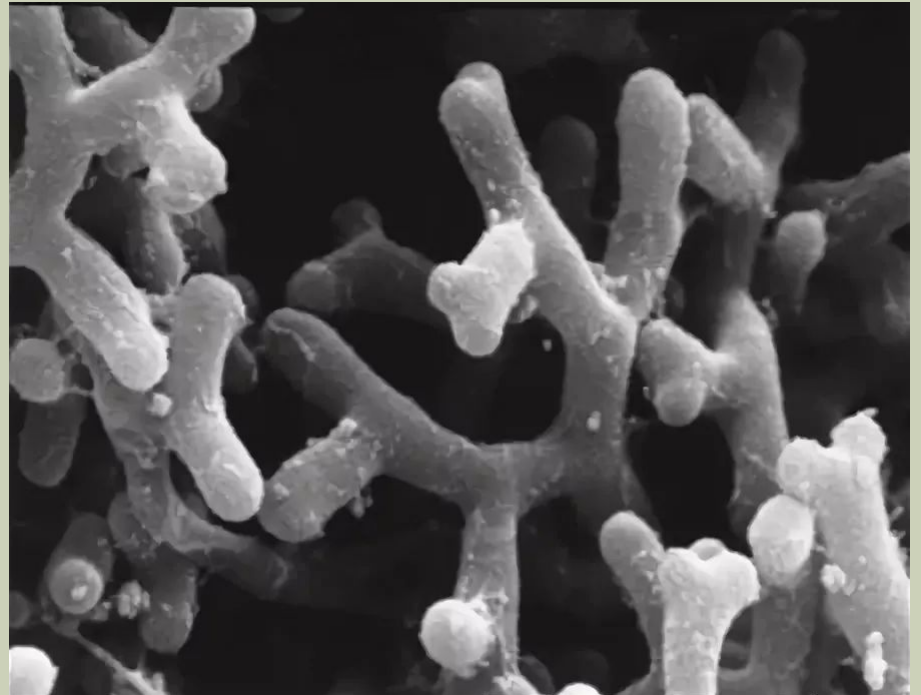
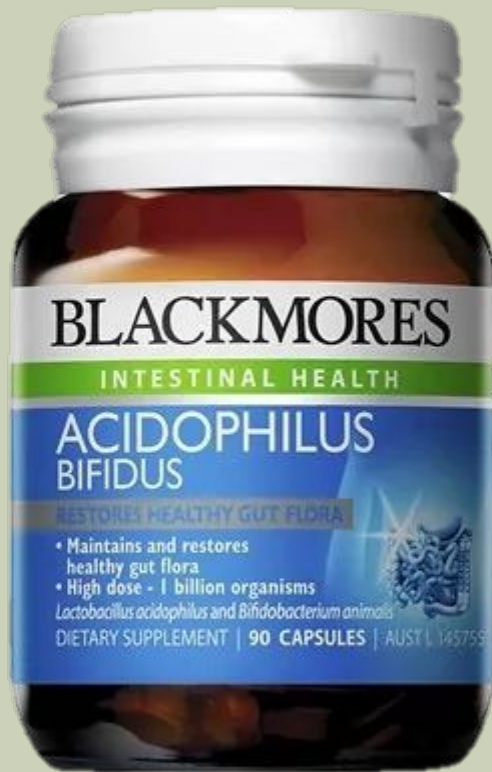


LACTOBACILLUS ACIDOPHILUS



These are the most friendly bacteria. They are found in milk products, also they are added to meat, yogurt, and other dietary supplements for better results. In the human body, they are found in the oral cavity, intestine, vagina, etc.

ACIDOPHILUS BIFIDUS



- They also help reduce the growth of pathogenic bacteria
- They help reduce cholesterol levels
- They clean the bloodstream and boost the immune system

ESCHERICHIA COLI



Enterobacteria (colibacillus) produce substances that inhibit the growth of pathogenic viruses, bacteria, staphylococci, fungi, promote the improvement of the microflora after antibiotic treatment.

Thank you
for
attention