

FIGHTING DISEASE

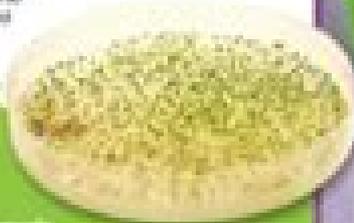
Pathogens are microorganisms that cause infectious diseases. They can be spread through water, food, air, physical contact and bodily fluids. The two main pathogens are bacteria and viruses. Pathogens are not the disease, but they cause the disease.

BACTERIA

Bacteria are microscopic living cells. Some bacteria are helpful and protect against disease, whereas others, such as pathogenic bacteria, are harmful and cause disease. Pathogenic bacteria can adhere to surfaces and damage cells. Bacteria cause illnesses such as tuberculosis, cholera, typhoid and gonorrhoea.

The Growth of Bacteria

Bacterial cells reproduce asexually through a process called binary fission. In binary fission, a cell splits into two genetically identical daughter cells. As bacteria reproduce rapidly, in large numbers, they become more numerous and cause a good reason for concern.



THE BODY'S DEFENCE SYSTEM

The body has several ways of defending itself against pathogens. The first is to prevent pathogens from entering the body. The second is to destroy pathogens that do enter the body. The third is to prevent pathogens from returning to the body.

Prevention: The body's first line of defence is to prevent pathogens from entering the body. This is done by the skin, which acts as a barrier. The body also has a mucous lining in the respiratory and digestive tracts, which traps and destroys pathogens.

Destruction: The body's second line of defence is to destroy pathogens that do enter the body. This is done by white blood cells, which are part of the immune system. White blood cells can kill pathogens and remove them from the body.

Prevention of return: The body's third line of defence is to prevent pathogens from returning to the body. This is done by memory cells, which remember the pathogen and prevent it from returning.

White blood cells destroy pathogens in three ways

1. Phagocytosis: White blood cells surround pathogens and then digest them. This process is called phagocytosis.

2. Producing antibodies: Antibodies are produced by specialised white blood cells when they detect a pathogen. A protein found on the surface of pathogens, the antibodies produced, which are specific to the antigen (detected) then bind and destroy the pathogen. Some white blood cells (memory cells) remain in the blood, so if the same pathogen enters the body again, the antibodies to kill it can be produced quickly.

3. Producing antitoxins: Some white blood cells produce poisonous called antitoxins that neutralise the toxins released by pathogens.

ANTIBIOTICS

Antibiotics destroy or reduce the growth of bacteria without killing the body's cells. Each type of bacteria requires a different antibiotic. Therefore, if you are prescribed the wrong antibiotic, they will not work.

RESISTANCE

Antibiotics can cause bacteria to become resistant to antibiotics, resulting in more serious infections, treated by a more powerful antibiotic, to return the risk of resistance. Failure to complete a full course of antibiotics will also increase the risk of resistance.

Antibiotics cannot destroy viruses because they reproduce inside the body's own cells. This makes it difficult to develop drugs that can kill the virus without destroying the body's cells.

ANTISEPTICS

Antiseptics kill or reduce the growth of microorganisms. They are used to improve hygiene and prevent infection in open wounds.

In the 19th century a physician named Ignaz Semmelweis identified a connection between lack of hand hygiene and the spread of disease. As a result, he started making his team in his ward wash their hands in an antiseptic solution. The antiseptic killed the bacteria on the doctor's hands and cut the spread of disease significantly. Unfortunately, his ideas were ignored at the time because he could not prove the link between microorganisms and disease.

VACCINATIONS

Vaccinations are used to protect against infections. They involve injecting a small amount of dead or weakened pathogens into the body. These harmless pathogens contain antigens that provide specialised white blood cells to produce antibodies to destroy them.

If the same pathogen enters the body again, memory cells in the blood recognise it and produce antibodies to kill it. Sometimes booster injections are required to increase the level of antibodies if they decrease over time.

Benefits

Viruses and bacteria can mutate rapidly, which means that vaccines can quickly become ineffective. Some vaccines currently have to be developed quickly to protect against new mutations and prevent epidemics from occurring.

Advantages

- Vaccinations prevent lots of people from contracting infectious diseases such as polio and measles.
- Epidemics can be prevented by vaccinating large percentages of the population.

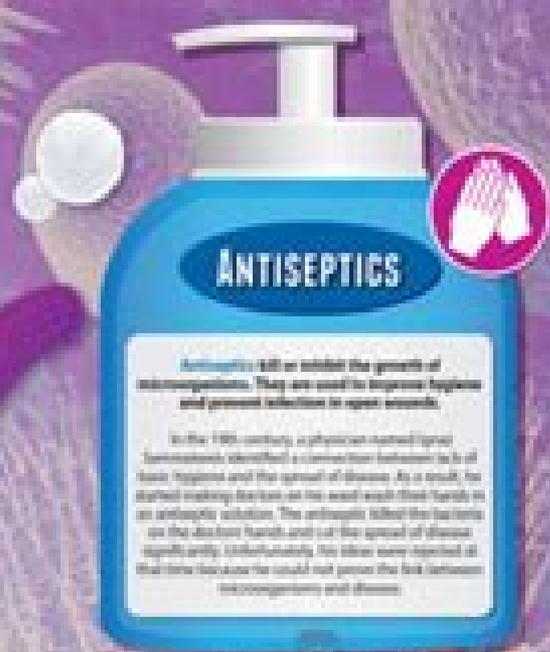
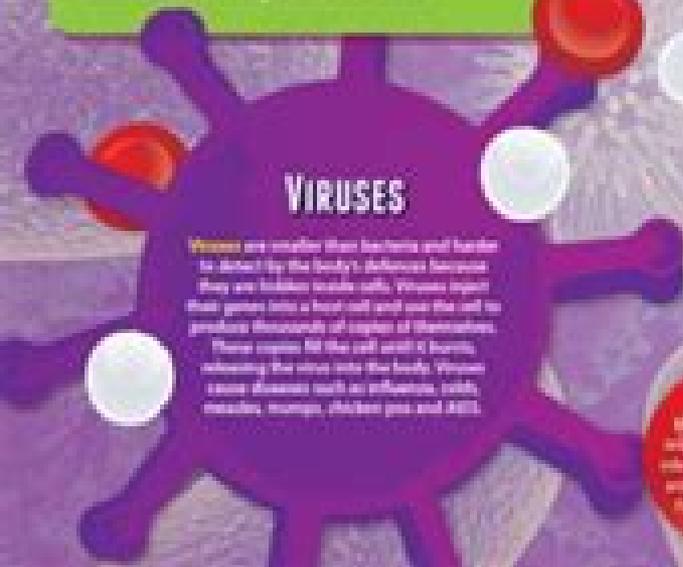
Disadvantages

- Vaccinations do not guarantee immunity to the disease in the future.
- People can experience a side effect to vaccinations such as swelling, high temperature and redness. Some serious reactions such as allergic anaphylaxis.

VIRUSES

Viruses are smaller than bacteria and harder to detect by the body's defences because they are hidden inside cells. Viruses inject their genes into a host cell and use the cell to produce thousands of copies of themselves.

These copies of the cell split it apart, releasing the virus into the body. Viruses cause diseases such as influenza, cold, measles, mumps, chicken pox and AIDS.



Fighting Disease

Ellen Michaud, Alice Feinstein



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