

## Disease Caused by Virus, Bacteria, Protozoa

Diseases are rather common and can occur anytime. However, not many are conversant in what exactly causes them. A disease refers to any deviation from the normal functioning of an organism on a biological level. It is generally accompanied by certain symptoms which are not part of our daily biological functions. There are different types of diseases that are caused by different types of organisms.

Diseases caused by virus, bacteria, protozoa are all different in nature. Candidates who are preparing for [SSC exams](#) must know that **diseases caused by bacteria** and **diseases caused by virus** and how they are different from each other. After all, these are commonly asked questions in the Biology section. Hence, we are providing candidates with detailed notes on the same below.

### Bacterial Diseases

Bacterial diseases are caused by the namesake bacteria. They are single-celled, microscopic organisms that obtain nourishment from their surroundings. Some bacteria are beneficial to our health; they aid in the proper functioning of the digestive system and prevent hazardous germs from entering.

However, a lot of bacteria are also known to spread bacterial diseases that can cause a lot of discomfort. The cure for these diseases is often other microorganisms that are utilized in the production of pharmaceuticals and vaccinations.

### Disease caused by Bacteria

Diseases caused by bacteria are the most common among humans. As bacteria are present almost everywhere, these types of diseases are the most frequent. One of the most common diseases caused by bacteria is the whooping cough and pneumonia. To avoid such diseases, one should always try to keep their surroundings clean. Maintaining your hygiene is one of the best ways to prevent diseases caused by bacteria or any other organism.

### 15 Diseases Caused by Bacteria

The most common bacterial diseases are listed here. Some of these diseases are cured easily however, others can be quite deadly as well. Hence, knowing them and how to prevent them is crucial. Know the various bacterial diseases in addition to what bacteria cause them below.

- **Whooping Cough** - It is caused by a bacterium called *Bordetella pertussis*.
- **Diphtheria** - It is caused by *Corynebacterium diphtheriae*.
- **Cholera** - It is caused by *Vibrio cholera*.
- **Leprosy** - It is caused by *Mycobacterium leprae*.
- **Pneumonia** - It is caused by *Streptococcus pneumonia*.
- **Tetanus** - It is caused by *Clostridium tetani*.



- **Typhoid** - It is caused by Salmonella typhi. Typhoid is caused by protozoa.
- **Tuberculosis** - It is caused by Mycobacterium tuberculosis.
- **Plague** - It is caused by Yersinia pestis.
- **Strep Throat** - It is caused by A Streptococcus
- **Salmonellosis** - It is caused by Salmonella.
- **Urinary Tract Infections** - It is caused by E. coli.
- **Clostridioides difficile** - It is caused by C. diff.
- **Gonorrhea** - It is caused by the Neisseria gonorrhoeae bacterium.
- **Chlamydia** - It is caused by Chlamydia trachomatis

## What are Viruses?

Viruses are even more microscopic than bacteria. They're not even a complete cell. They're just genetic material (DNA or RNA) wrapped in a protein coating. To replicate, they must utilize the structures of another cell. This means they'll only be able to survive if they're living inside of something else (such as a person, animal, or plant). Diseases caused by viruses are quite common hence, taking precautions against viruses is a must.

## Disease Caused by Viruses

Viruses are quite dangerous hence, diseases caused by them can take a long time to heal. In certain cases, they are also fatal. Check out the list of diseases caused by viruses below.

- **Chickenpox** - It is caused by the Varicella-zoster virus.
- **Small Pox** - It is caused by the Variola virus.
- **Common Cold** - It is caused by Rhinovirus.
- **AIDS (Acquired Immuno Deficiency Syndrome)** - It is caused by Human Immunodeficiency Virus (HIV).
- **Measles** - It is caused by the Measles virus.
- **Mumps** - It is caused by the Mumps virus.
- **Rabies** - It is caused by the Rabies virus (Rhabdoviridae family).
- **Dengue fever** - It is caused by the Dengue virus.
- **Viral encephalitis** - It is an inflammation of the brain. It is caused by the rabies virus, Herpes simplex, poliovirus, measles virus, and JC virus.

## What are Protozoans?

Protozoa, like bacteria, are single-celled organisms. They are, however, larger than bacteria and include a nucleus and other cell features, resembling plant and animal cells. Moisture is a favorite of protozoa. As a result, contaminated water is frequently used to spread intestinal illnesses and the diseases they induce, such as amebiasis and giardiasis. Typhoid is caused by protozoa

## Disease Caused by Protozoa

The diseases caused by Protozoa are provided below. These diseases are usually treatable in less time however, they should be avoided by ensuring hygiene.



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- **Malaria:** It is spread by Anopheles mosquitoes. The Plasmodium parasite that causes malaria is neither a virus nor a bacteria.
- **Amoebic dysentery:** It is caused by Entamoebahistolytica.
- **Sleeping sickness:** It is caused by Trypanosomabrucei.
- **Kala-azar** It is caused by Leishmaniadonovani.

### Disease Caused by Worms

Worms are a cause of many diseases that can be harmful to our bodies. These diseases can turn human bodies into hosts through which these worms grow stronger. Check the list of diseases caused by worms below.

- **Tapeworm:** They are intestinal parasites. It cannot live on its own. It survives within the intestine of an animal including a human.
- **Filariasis:** It is caused by a thread.
- **Pinworm:** It is caused by a small, thin, white roundworm called Enterobiusvermicularis.

### What are Worms?

Worms are invertebrate animals that belong to several different families. Worms are animals belonging to the groups Annelida (earthworms, polychaetes), Nematoda (roundworms), Nemertea (ribbon worms), and Platyhelminthes (worms) (flatworms). To put this in context, mammals, birds, fish, and reptiles all belong to the same phylum Chordata, which means that a human is significantly more closely connected to a fish than many worms.



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