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# Nipah and Other Diseases Caused by Virus, Fungi & Bacteria - GK Notes

The recent outbreak of Nipah Virus is spreading very fast getting highlights in current scenario. There are many Diseases which have created nuisance in the recent past. How do they spread and what are their Symptoms, in this article you will get all the details about the Virus, Bacteria and Fungi and the Diseases caused by them. What Treatment or Vaccination is available to cure them? Bank exams, SSC CGL, SSC CHSL, Railways, State PSC and many other exams are approaching and this topic makes important place in terms of GK section. Read the complete article to get know more details about Diseases Caused by Virus, Fungi and Bacteria and strengthen your preparation for General Awareness Section of these exams.

## What is Virus, Bacteria and Fungi?

### Virus

Virus is a Microscopic particle which infect the body by creating replicas of their own in the cell of Organism. They are non-cellular Organisms. They doesn't belongs to the five kingdom classification. They Cause Infection in animals, plants, fungi and bacteria.

### Bacteria

Bacteria, first life form of the earth, is a single celled Organism belongs to Monera Kingdom. They don't have Nucleus. They are very tiny and present in communities and reproduce themselves through Binary Fission. Bacteria plays important role in Nutrient Cycle.





## Fungi

Fungi is made up of many Fungus particles belongs to Kingdom Classification. Fungi is a Eukaryotic Organism. they get their food by eating organic substances. yeast, mushrooms, moulds these all belongs to Kingdom Fungi. Fungi is used to produce - Antibiotics, Wine, Beer, Bread, Biological Pesticides etc.

Virus, Fungi and Bacteria all are the part of Biological Process but they cause some Deadly and Incurable Diseases. Various Diseases their symptoms, vaccination and causing agents are listed below-

## Diseases Caused by Virus

Disease	Virus name	Spread by	Symptoms	Vaccination
Yellow fever	Flavivirus	<ul style="list-style-type: none"> <li>By mosquito bite - Aedes aegypti.</li> <li>By Animal or Insect bite.</li> </ul>	<ul style="list-style-type: none"> <li>Yellow skin and eyes</li> <li>Vomiting</li> <li>Nausea</li> <li>Bleeding</li> <li>fatigue</li> </ul>	YF -Vax
HIV AIDS	Human Immunodeficiency virus	<ul style="list-style-type: none"> <li>Sexual contact</li> </ul>	<ul style="list-style-type: none"> <li>Fatigue</li> <li>Fever</li> <li>Loss of appetite</li> <li>Sores</li> </ul>	No Effective Vaccine yet
Nipah virus infection	Nipah Virus	<ul style="list-style-type: none"> <li>Exposure to Bat, Pig and Infected person</li> </ul>	<ul style="list-style-type: none"> <li>Fever</li> <li>Headache</li> <li>Drowsiness</li> </ul>	No Vaccine yet





Ebola	Ebola Virus	<ul style="list-style-type: none"> <li>• By infected animal bite</li> <li>• Communication with infected place and person</li> </ul>	<ul style="list-style-type: none"> <li>• Diarrhea</li> <li>• eye redness</li> <li>• red spot on skin</li> <li>• Sore throat</li> </ul>	VSV-EBOV
Zika	Zika Virus (Flaviviridae)	<ul style="list-style-type: none"> <li>• Aedes Mosquito</li> </ul>	<ul style="list-style-type: none"> <li>• Fever</li> <li>• Sweating</li> <li>• Eye redness</li> <li>• Skin rash</li> </ul>	Killed Virus Vaccine (developed by India)
Japanese Encephalitis	Japanese Encephalitis Virus	<ul style="list-style-type: none"> <li>• By Mosquito Bite</li> <li>• Pigs and Wild Bird areas is prone to Disease</li> </ul>	<ul style="list-style-type: none"> <li>• High fever</li> <li>• Sudden headache</li> </ul>	Jenvac Vaccine
Polio	Poliovirus	<ul style="list-style-type: none"> <li>• Contagious viral infection due to poor sanitation</li> <li>• Pregnant women more susceptible to virus</li> </ul>	<ul style="list-style-type: none"> <li>• Difficulty in breathing</li> <li>• Fever</li> <li>• Shrinking muscles</li> <li>• Pain in joints and muscles</li> </ul>	Inactivated Polio Vaccine (IPV)

## Deficiency Diseases and Malnutrition

### Nutrition and Deficiency

## Diseases Caused by Bacteria



Disease name	Caused by	Spread by	Symptoms	Vaccination/ Cure
Tuberculosis	Mycobacterium Tuberculosis	In contact with infected person	<ul style="list-style-type: none"> <li>• Weight loss</li> <li>• Shortness of breath</li> <li>• Cough with blood</li> <li>• Affects lungs</li> </ul>	<ul style="list-style-type: none"> <li>• Medication</li> <li>• Bacillus Calmette-Guerin (BCG) vaccine</li> </ul>
Pneumonia	Streptococcus Pneumoniae & Haemophilus influenzae	In contact with the person having cough or sneezes	<ul style="list-style-type: none"> <li>• Cough</li> <li>• Breathing problem</li> <li>• Fever</li> <li>• Dehydration</li> </ul>	Pneumococcal conjugate vaccine(PCV 13)
Cholera	Vibrio Cholerae	<ul style="list-style-type: none"> <li>• Contaminated water</li> <li>• Poor sanitation</li> <li>• Unhygienic area</li> </ul>	<ul style="list-style-type: none"> <li>• Dehydration</li> <li>• Diarrhoea</li> <li>• Vomiting</li> </ul>	WC - rBS and BivWC
Typhoid	Salmonella Typhi	Contaminated food and water	<ul style="list-style-type: none"> <li>• Weight loss</li> <li>• Abdominal pain</li> <li>• Diarrhoea</li> <li>• Fever</li> <li>• Malaise</li> </ul>	<ul style="list-style-type: none"> <li>• Vaccination</li> <li>• Antibiotics</li> </ul>
Leprosy	Mycobacterium leprae	<ul style="list-style-type: none"> <li>• Communication with</li> </ul>	<ul style="list-style-type: none"> <li>• Blisters</li> <li>• Rashes</li> <li>• Ulcers</li> </ul>	<ul style="list-style-type: none"> <li>• Mycobacterium indicus pranii</li> </ul>





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		infected person <ul style="list-style-type: none"> <li>Airborne droplets</li> </ul>	<ul style="list-style-type: none"> <li>Nerve injury</li> <li>Weight loss</li> </ul>	<ul style="list-style-type: none"> <li>Antibiotics</li> </ul>
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Fungi usually attack on the skin of Human beings. The rashes on skin if not cure or taken care of may take place the Fungal Infection. A proper hygiene is solution to stay away from Fungal Infections. They not only cause Infections in Human beings but Plants and Animals are also susceptible to it.

Apart from all these Government of India took steps to fight epidemics of the deadly Diseases Caused by Virus, Fungi & Bacteria. Various initiatives has been started and set deadlines to eradicate few Diseases from India.

**Initiatives** - Dastak campaign - Japaneses Encephalitis;

Mission Indradhanush - Vaccination Program for Major 13 Diseases

**Deadlines** -

Tuberculosis - 2025

Leprosy - 2018

Measles and Rubella- 2020

Microorganisms are tiny Organisms that cannot be seen by Human Eye and can only be seen under a Microscope. They are grouped into various types like Bacteria, Fungi and Virus. They multiply rapidly and adapt quickly to their surrounding environments and many are aggressive. Some of them can survive in extremely hot and cold Temperatures. All in all, we have to accept the fact that Bacteria, Viruses and Fungi are





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not going anywhere, so it is our job to figure out how to Protect ourselves and function daily with these Microorganisms.

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