



# WBCS 2022



**SCIENCE**

# DISEASES



12:30 PM



27 APRIL 2022

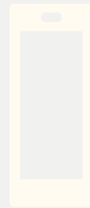


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# Diseases





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# Diseases



**Infectious Diseases**

**Non-Infectious Diseases**

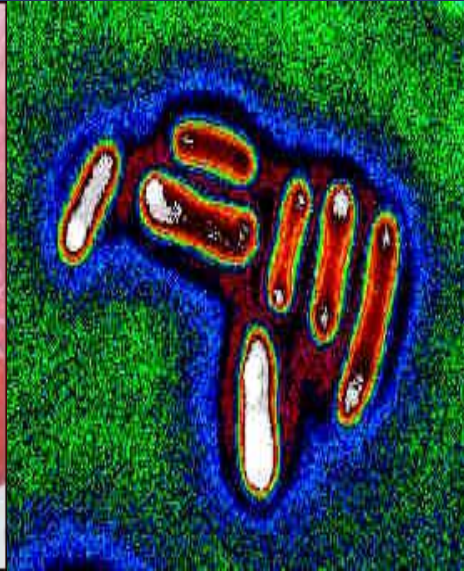
# Infectious Diseases

A disease that can be passed from organism to organism  
Caused by tiny organisms called **PATHOGENS**

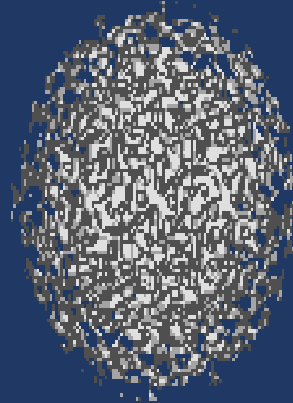
**VIRUSES**



**BACTERIA**



**FUNGI**



**PROTOZOA**



Diseases		Virus Type	Infected Area	Transmission
1	Influenza	RNA	Respiratory Tract	Droplets
2	Chicken pox ( Varicella)	DNA	Skin, Nervous System	Droplets, Contact
3	Measles (Rubeola)	RNA	Respiratory Tract, Skin	Droplets, Contact
4	Mumps (Epidemic Parotitis)	RNA	Salivary Glands, Blood	Droplets
5	Small Pox (Variola)	DNA	Skin, Blood	Contact, Droplets
6	Yellow Fever	RNA	Liver, Blood	Mosquito ( Aedes Aegypti)
7	Dengue Fever	RNA	Blood, Muscles	Mosquito ( Aedes Aegypti )

Diseases		Virus Type	Infected Area	Transmission
8	Hepatitis A	RNA	Liver	Food, Water, Contact
9	Hepatitis B	DNA	Liver	Contact with body Fluids
10	Viral Gastroenteritis	Many RNA Viruses	Intestine	Food, Water
11	Viral Fevers	Many RNA Viruses	Blood	Contact,arthropods
12	Cytomegalovirus Disease	DNA	Blood, Lungs	Contact, Congenital transfer
13	AIDS	Retrovirus ( RNA)	T-lymphocytes	Contact with body Fluids
14	Rabies	RNA	Brain, Spinal cord	Conact with body Fluids
15	Polio	RNA	Intestine,Brain, Spinal Cord	Food, Water, Contact

Diseases	VIRUS TYPE	INFECTED AREA	Transmission
Anthras	Bacillus Anthracis	Skin, Lung	Environment
Cholera	Vibrio Cholerae	Intestine	Food
Leprosy	Mycobacterium Leprae	Skin, Bones, Peripheral Nerves	Contact
Salmonellosis	Salmonella	Intestine	Food
Syphilis	Treponema Pallidum	Skin, Cardiovascular Organs	Contact
Tuberculosis	Mycobacterium Tuberculosis	Lung	Air
Typhoid	Salmonella Typhi	Blood, Skin	Bugs, Contact

- Fungi is a large group of eukaryotes. fungus provide us important foods , drugs as antibiotics , also are important for degenerating dead plants and animals in the world.
  - Fungus grow faster in humid and shade environment.
- Protozoan infections are responsible for diseases that affect many different types of organisms, including plants, animals, and some marine life. Many of the most prevalent and deadly human diseases are caused by a protozoan infection, including **African Sleeping Sickness, amoebic dysentery, and malaria.**

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# **Immune System**

**(the immune system identifies the pathogen and produces helper cell)**

- ❖ **Distinguishing between the different kinds of pathogens.**
- ❖ **Reacting to each kind according to its type.**

## **When a pathogen enters the body**

- **It works by damaging individual cells within the organs.**
- **In some cases it attacks an entire body system.**

# **NON-INFECTIOUS DISEASES**

- **Not caused by pathogens in the body**
- **Not spread from organism to organism**
- **Non-infectious diseases are caused by malfunction in the body**
- **sun , radiation , chemicals , smoking , drugs , alcohol.**

# TYPES OF NON INFECTIOUS DISEASES

**Diabetes**

**Asthma**

**Parkinson's Disease**

**Skin Cancer**

# **Diabetes**

**A disease that results in glucose (sugar) level being higher than normal. It is caused by the person's inability to either produce or use properly a natural chemical made in the body (pancreas called insulin)**

## **Diabetes may lead to :-**

**Kidney disease ,  
Heart disease,  
Vision problems**

**Asthma :-** Affects the lungs and the airways that deliver air to the lungs.

**Causes periodic attacks of wheezing and difficulty breathing.**

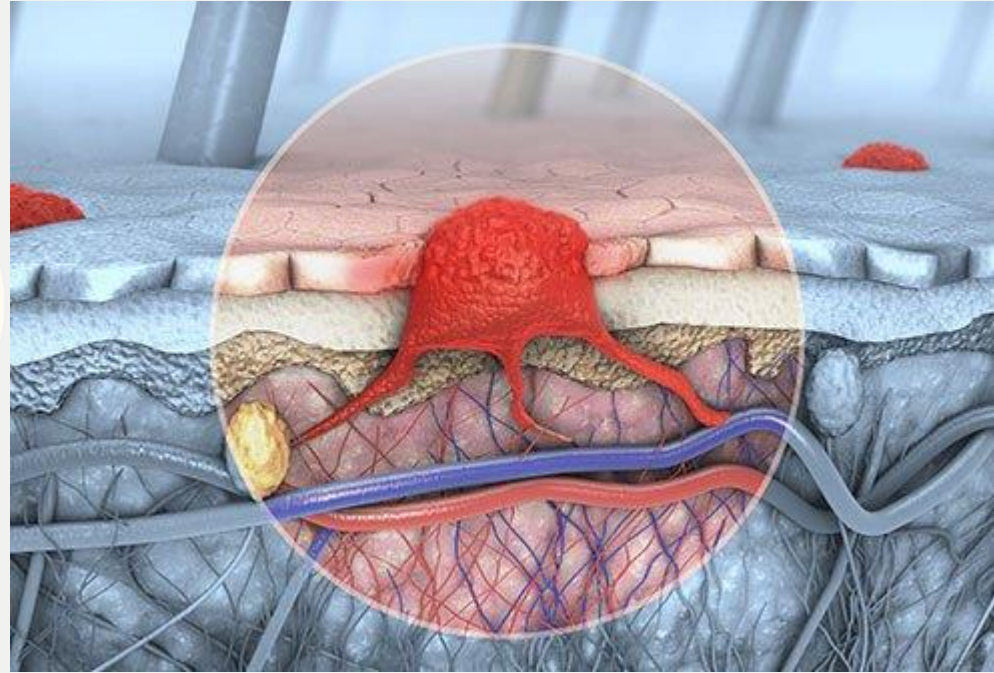
**Parkinson's Disease:-** Disease of the nervous system that occurs when nerve cell in the brain stop functioning properly , affecting the muscular system.

**Major symptoms :-** Severe shaking (tremors)  
Disabilities involving movement at present , there is no cure .



# Skin Cancer

Skin cancer is an abnormal growth of skin cells. It generally develops in areas that are exposed to the sun, but it can also form in places that don't normally get sun exposure.



## **AIDS (Acquired immunodeficiency syndrome)-**

1. AIDS is a disease that can develop in people with HIV (Human immunodeficiency virus). It's the most advanced stage of HIV.
2. HIV kills CD4 cells. Healthy adults generally have a CD4 count of 500 to 1,500 per cubic millimeter. A person with HIV whose CD4 count falls below 200 per cubic millimeter will be diagnosed with AIDS.

**HIV Test-** An enzyme-linked immunosorbent assay, also called ELISA, is a test that detects and measures antibodies in your blood.



# Vitamin deficiency diseases chart

<b>Vitamin generic</b>	<b>Vitamin chemical name(s)</b>	<b>Deficiency disease</b>
<b>Vitamin A</b>	all-trans-Retinol	Night blindness, hyperkeratosis, and keratomalacia
<b>Vitamin B1</b>	Thiamine	Beriberi, Wernicke-Korsakoff syndrome
<b>Vitamin B2</b>	Riboflavin	Ariboflavinosis, glossitis, angular stomatitis



<b>Vitamin generic</b>	<b>Vitamin chemical name(s)</b>	<b>Deficiency disease</b>
Vitamin B3	Niacin, Niacinamide, Nicotinamide riboside	Pellagra
Vitamin B5	Pantothenic acid	Paresthesia
Vitamin B6	Pyridoxine, Pyridoxamine, Pyridoxal	Anemia, Peripheral neuropathy
Vitamin B7	Biotin	Dermatitis, enteritis
Vitamin B9	Folates, Folic acid	Megaloblastic anemia and deficiency during pregnancy is associated with birth defects, such as neural tube defects

Vitamin generic	Vitamer chemical name(s)	Deficiency disease
Vitamin B12	Cyanocobalamin	Pernicious anemia
Vitamin C	Ascorbic acid	Scurvy
Vitamin D	Calciferol	Rickets and osteomalacia
Vitamin E	Tocopherols, Tocotrienols	mild hemolytic anemia in newborn infants
Vitamin K	Phylloquinone, Menaquinones	Bleeding diathesis



*Thank  
you*

