

# INFECTIOUS DISEASES



# INFECTIOUS DISEASE

- Diseases in which microbes are the immediate cause are called Infectious diseases.
- They are also called communicable diseases, because they can be communicated from the diseased person to the healthy person by air, food, physical contact & insects.
- Examples:- Chicken pox, measles, cold, AIDS, Swine flu.



# INFECTIOUS AGENTS

○ The disease causing organisms are:-

➤ Virus

*Eg:- small pox, measles, influenza, ebola*

➤ Bacteria

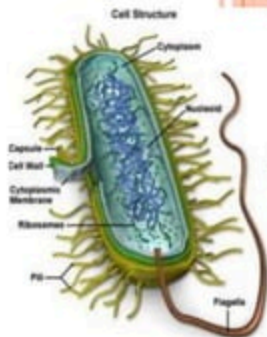
*Eg:- tuberculosis, pneumonia, salmonella, anthrax*

➤ Fungi

*Eg:- athlete's foot, ringworm, skin infections*

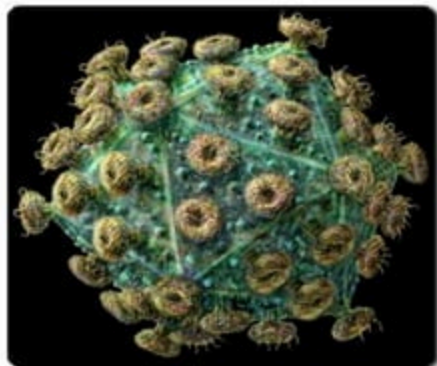
➤ Protozoa

*Eg:- malaria, kala azar, toxoplasmosis*



# VIRUS

- *It is the smallest parasite.*
- *It enters the cell and take over.*
- *It causes cold/ flu, influenza, dengue, AIDS,*



# BACTERIA

- *It is a single cell microorganism.*
- *It releases toxins.*
- *Examples:-*
  - *food poisoning- bacteria in the food*
  - *tetanus- bacteria on the objects/ soil.*



# FUNGI

- *All the fungi are not harmful , like yeast, mushroom, mold fungi.*
- *some cause rashes, like ringworm and athlete's foot.*



# TRANSMISSION OF DISEASES

- *Pathogens can be transmitted to a host from a reservoir four main ways;*
  1. ***By direct contact:** exchange of body fluid especially during sexual intercourse*
  2. ***By an object:** people handle contaminate objects then touch face, nose, eyes, etc...*
  3. ***Through the air:** person coughs or sneezes spreading droplets which are then inhaled*
  4. ***By a vector:** insects such as mosquitoes, ticks spread pathogens between hosts or reservoirs*



# CONTAMINATED FOOD

- *Animal bites*
- *Eating bad food*
- *Rabies, Malaria, Bird flu*
- *HIV/ AIDS*





# CONTAMINATED OBJECT

- *Most infections die quickly when exposed to air*
- *Some can live on objects*
- *Lice*



# CONTACT WITH CONTAMINATED PERSON

- ***Skin to skin contact***
- ***Sneeze/ cough***
- ***Cold/ STI/ flu/ chicken pox***



# ENVIRONMENTAL SOURCES

- *Food/ water/ soil*
- *Lead poisoning/ food poisoning*
- *Fungi/ mold/ pathogens in water*
- *Old food left out*
- *Contaminated animals*



# STAGES OF DISEASE

1. *Incubation Period*
2. *Prodromal Period*
3. *Acute Stage*
4. *Recovery Stage*
5. *Convalescence*
6. *Immunity*
7. *Exposure*



# *EXPOSURE & INCUBATION*

- ***Exposure = contact***



- ***Incubation = growth/ maturation***
- ***No signs/ symptoms***
- ***Pathogen/ parasite grows and multiplies***



# PRODROMAL STAGE

- ***Slight signs & symptoms***
- ***Ex: achy/ sore/ tired***
- ***Contagious!***



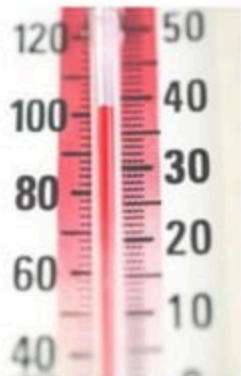
## ACUTE STAGE

- **Severe symptoms**
- **Most contagious**
- **Most affected**



## RECOVERY STAGE

- ***Signs/ symptoms begin to decrease***
- ***Temperature is reduced***
- ***Feeling better***





# COVALESCENCE

- *Infection is gone*
- *Still not quite 100%*
- *Can relapse*
- *Need rest, sleep, healthy diet, antibiotics*




# IMMUNITY

- ***Feel 100%***
- ***Body has antibodies***
- ***Cannot catch same infection***



# INFECTIOUS DISEASES : MAY DEATH

- Infectious diseases are a leading cause of death worldwide.
  - Responsible for a quarter to a third of all deaths worldwide.
  - Account for more than half of all death in children under the age of 5.
  - Of the top ten causes of death compiled by the world Heath organization, five are due to infectious diseases.
  - In addition to human toll, infectious diseases present a large financial burden.
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*Thank you*

