

Bacterial Diseases

Name of the Disease	Causative factor/agent	Mode of infection	Symptoms
1. Typhoid	<i>Salmonella typhi</i> , Gram negative bacterium. It mainly lives in the small intestine of man	Contamination through food and water	Body temp-104 ^o F, head ache, weakness, stomach pain, constipation, loss of appetite, intestinal perforations, death may also occur in severe cases. *It can be confirmed by WIDAL TEST
2. Pneumonia	<i>Streptococcus pneumoniae</i> / <i>Haemophilus influenza</i> , Gram positive bacteria, infect the alveoli of lungs.	Contamination through inhaling the droplets/aerosol released by a infected person	Respiratory problems due to the filling of alveoli with fluid, the lips and finger nails turn gray to bluish in colour
3. Diphtheria	bacillus bacterium <i>Corynebacterium diphtheria</i> , Gram positive bacteria, It primarily affects the mucous membranes of the respiratory tract.	Contamination through airborne respiratory droplets or by direct contact with nasopharyngeal secretions	Sore throat, fever, malaise, hoarseness, difficulty in swallowing or in breathing
4. Dysentery	<i>Shigella</i> , a Gram negative bacterium	Contamination through food and water	Abdominal pain, nausea, vomiting, watery diarrhea, which can contain blood mucus or pus, painful egestion and dehydration.
5. Plague	<i>Yersinia pestis</i> , a Gram-negative bacterium	Inoculation through the bites of an infected flea (<i>Xenopsylla cheopis</i>)	Swollen, tender lymph glands, Fever, Chills, headache and weakness
6. Tetanus	<i>Clostridium tetani</i> or its spores present in the soil. a Gram-positive bacterium	Contamination through soil or dust (by contamination of wounds)	Tetanus results in severe, uncontrollable muscle spasms as in lockjaw.

*Gram positive bacteria: i. *Streptococcus pneumoniae*/*Haemophilus influenza*
 ii. *Corynebacterium diphtheria*
 iii. *Clostridium tetani*

*Gram negative bacteria: i. *Salmonella typhi*

ii. *Shigella*

iii. *Yersinia pestis*

Viral Diseases

Name of the Disease	Causative factor/agent	Mode of infection	Symptoms
1.Common Cold	<i>Rhino virus group</i>	Contamination through direct inhalation of the droplets resulting from cough /sneezes	Nasal congestion,Discharge from nose,sore throat,hoarseness,cough, head ache,tiredness.
2. Chikungunya	<i>Chikungunya virus (CHIKV)</i> which is a heat sensitive RNA virus	Inoculation through the bite of <i>Aedes aegypti</i> which bites during the day time.	Fever upto 104°F, chills, vomiting, nausea, headache and severe joint pains and sometimes it is accompanied with rashes
3. Polio	<i>Poliomyelitis</i> , virus which is a single stranded RNA virus	Contamination through the stool of the infected person.	Inflammation of nerve cells of the brain stem and spinal cord resulting in the impairment of legs.
4. Smallpox Symptoms:	<i>Variola virus</i>	Contamination through the tiny drops of an infected person's saliva that comes when the patient talks, coughs or sneezes.	Formation of small pus-filled blisters through out the body, fever, headache, backache, and feeling tired.

Fungal diseases

Name of the Disease	Causative factor/agent	Mode of infection	Symptoms
1.Ring worm	<i>Microsporum,Epidermophyton and Trichophyton.</i> Heat and moisture help these fungi grow in the skin folds such as those in the groin or between the toes.	Contamination by sharing towels,clothes and combs or by soil	Dry and scaly skin,round lesions,intense itching

-----SK.M.BASHA