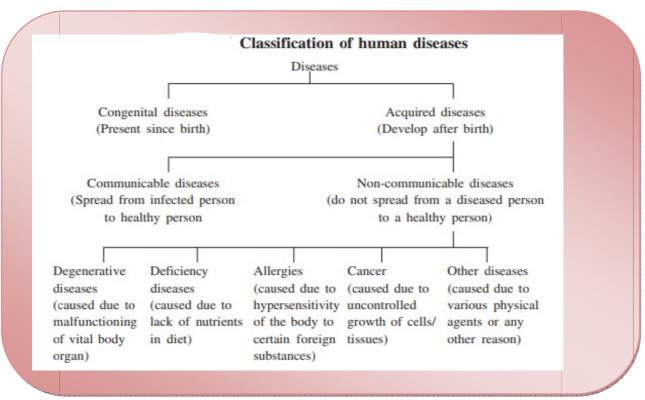
Lesson-29 Some Common Human Disease • Any malfunctioning process which interferes with the normal functioning of the body is called a disease. In other words, disease may be defined as a disorder in the physical, physiological, psychological or social state of a person caused due to nutritional deficiency, physiological disorder, genetic disorder, pathogen or any other reason.



Acquired diseases are studied under two categories:

	Communicable Disease	Non-Communicable Disease			
1.	Caused by some biological agents or	Caused due to some specific factor, such as			
	pathogens, such as viruses, bacteria,	malfunctioning of some vital organ, and			
	protozoans and helminths (worms).	deficiency of nutrients.			
2.	Spread from one person to another	Do not spread from one person to another by			
	through contact, water, air, and food, etc.	contact.			
3.	The concern of the diseases involves the	The concern of the disease is restricted to the			
	society as these are related to community	individual only			
	health.				

- The diseases which spread from one diseased person to another through contaminated food, water or contact or through insects and animals are called communicable diseases. These are caused by different causative agents (pathogens).
- The pathogen can enter body by various means and multiply and interfere with normal body functions and activities.

DISEASES CAUSED BY VIRUS								
Diseases	Pathogen	Mode of 1		Incubatio S		Symptoms		
		transmission	n pe	eriod				
Chicken pox	Chicken pox virus (voricella)	By contact or through scabs			appe Dark back	Fever, headache and loss of ppetite Dark red-coloured rash on the back and chest which spreads on the whole body		
Measles	Virus (Rubeola)	By air	(ii) mou		(ii) mou	Common cold Small white patches in and throat. (iii) rashes on body		
Poliomyelitis	Polio Virus	Virus enters inside the body through food or water	7-14	•		fness of neck, fever, loss of a support		
Rabies	Rabies	Bite by a rabid dog.		3 months (ii) mus		Painful contraction of scles of throat and chest. (iii) oking and fear of water ling to death.		
Hepatitis B virus.		Mainly through contaminated water.		15-160 days. nau yel		ody ache, Loss of appetite and usea, Eyes and skin become llowish, urine deep yellow in lour. And Enlarged liver		
Influenza		Coughing and sneezing. Direct contact with infected person.	(aver	(average co		udden onset of fever with ough, sore throat, muscular ches and a headache.		
Dengue	Dengue virus	bite of an infected Aedes aegypti mosquito	4 to 6 days		High fever, generally 104-105 °C (40 °F), which may last 4-5 days. Headache, pain in the joints and muscles, body aches. Nausea or vomiting, Pain behind the eyes which worsens with eye movement.			
	DIS1	EASES CAUSED BY	BAC'	TERIA				
Diseases	Pathogen	Mode of transmission	Incubati period		on Symptoms			
Tuberculosis	Mycobacterium tuberculosis	Airborne-discharged through sputum, cou	2-10 weeks		ch	Persistent fever and coughing. (ii) Chest pain and blood comes out with the sputum. (iii) General weakness.		
Typhoid	Salmonella typhi	Through contaminat food and water				Continuous fever, headache, slow pulse rate. (ii) Reddish rashes appear on the belly. (iii) In extreme cases, ulcers may		

							rupture resulti of the patient.	
Cholera	olera Vibrio cholerae		Contaminated food and water. Housefly is the carrier			6 hours to 2-3 days	Acute diarrhoea and watery stool. (ii) Muscular cramps. (iii) Loss of minerals through urine. (iv) Dehydration leads to death.	
Diphtheria (Occurs in children of 1-5 years of age.)	in diphthereae of 1-5		Through air (droplet infection)		2-4 days	Fever, Sore throat (ii) Oozing semisolid material in the throat which develops into a tough membrane. The membrane may cause clogging (blocking) of air passage, resulting into death		
Leprosy	Myo lepr	obacterium ae	Prolong with person			Affects skin. (ii) Formation of nodules and ulcer. (iii) Scabs and deformities of fingers and toes. (iv) Infected areas lose sensation.		
		DISEA	SES CA	USED BY	PRC	OTOZOAN		
	Malaria different species of Plasmodium		By bite of female Anopheles mosquitoes		Approx.12 days	Headache, nausea and muscular pain. (ii) Feeling of chilliness and shivering followed by fever (iii) The patient becomes weak and anaemic. (iv) If not treated properly secondary complications may lead to death.		
Amoebiasis (Amoebic dysentery)	, ,		Contaminated food and water		l	Formation of ulcers in intestine. (ii) Abdominal pain and nausea. (iii) Acute diarrhoea and mucus in stool.		
		DIS	EASES	CAUSED	BY V	VORMS		
Diseases	ases Pathogen			Mode of transmission		Incubation period	Symptoms	
Filariasis Filarial worm (Wuo bancrofti)		Bites of mosquitoes - Aedes and Cu		Culex.		(i)Fever (ii) Swelling of legs which appear as legs of elephant, so this disease is also called elephantiasis		
			N-COMIN	TUNICAB	LE DI	SEASES		
Diseases		Causes	Sym		Symp	otoms	Preventi cure	ion and
from the pancre		eas. (ii) Mental stress credity from parents (More glucose in blood. (ii) Frequent urination (iii) Feeling thirsty and hungry frequently. (iv) Reduced healing		Control weight of the body. (ii) Controlled diet. (iii) Less sugar		

		capacity of injury. (v) body weakness	insulin before meals, if required
Cardio vascular diseases	Deposition of cholesterol leads to heart attack.	(i) Due to reduced blood and oxygen supply, available to the muscles, Health heart's efficiency is affected. (iii) Obesity (over weight) Hypertension Persistent high blood pressure (BP) (ii) It may damage the arteries of kidney.	(i) Avoid mental tension. (ii) Low fat diet (iii) Body Weight must be under control. (iv) Medicines may be taken as per doctor's advice. (v) Avoid smoking and alcohol (vi) Electrocardiogram (ECG) can diagnose the disease. (vii) Bypass surgery is performed in extreme cases.
Osteoporosis	age dependent disorder with loss of the normal density of bone	Symptoms of osteoporosis are related to the location of the fracture.	Vitamin D and calcium supplements. lifestyle and diet are also recommended

Sexually Transmitted Diseases (STD).

•Diseases which spread by sexual contact are called sexually transmitted diseases

- •Syphilis, gonorrhoea, and AIDS are some sexually transmitted diseases.
- Gonorrhoea is caused by a bacterium (Neisseria gonorrhoeae).
- •Syphilis is caused by a long, corkscrew bacterium (*Treponema pallidum*).
- •AIDS (Acquired Immuno Deficiency Syndrome) is caused by HIV. It is a disease of cell-mediated immune system of the body.

Test Yourself

- •1. What are the differences between deficiency disease and degenerative disease? give some examples.
- •2. Write down the causal organism, symptoms and preventive measures of the disease Typhoid and Filariasis.
- •3.Malaria is caused by mosquito bite, but why it is called as protozoan disease?