

FOCUS POINT

KEEPING DISEASES AWAY

MICROORGANISMS AND DISEASES

DISEASE	CAUSATIVE ORGANISM	SYMPTOMS	MODE OF TRANSMISSION
Tuberculosis	Mycobacterium tuberculosis	<ul style="list-style-type: none">➤ Loss of body weight➤ Fatigue➤ Persistent cough	<ul style="list-style-type: none">➤ When the patient speaks, coughs or sneezes, the pathogen spread into the air and thereby to others
AIDS [Acquired Immuno Deficiency Syndrome]	HIV [Human Immuno Deficiency virus]	<ul style="list-style-type: none">➤ Despite the infection, no specific symptoms appear for days.➤ However, as the lymphocytes are destroyed, the immune system gradually weakens.➤ Even minor illness can be serious➤ This leads to death.	<ul style="list-style-type: none">➤ Through sexual contact with HIV infected person➤ From HIV infected mother to foetus➤ By sharing needles and syringe contaminated with HIV components➤ Through the reception of blood and organ contaminated with HIV
Malaria	Plasmodium [a type of protozoa]	<ul style="list-style-type: none">➤ High fever with shivering➤ Profuse sweating➤ Headache➤ Vomitting➤ Diarrhoea➤ Anaemia	<ul style="list-style-type: none">➤ By the biting of female Anopheles mosquito

HAEMOPHILIA

- Haemophilia is the condition in which excess blood is lost even through minor wounds.

REASON[CAUSES]:-

- The genes that control the synthesis of proteins that helps in the clotting of blood in blood plasma become defective.

SYMPTOMS

- Due to the defect of proteins that help in the blood clotting, blood clotting become fails and excess blood lost even through the small wounds also.

TREATMENT:-

- Since it is a genetic disease, a complete cure is not possible at present. Temporary relief is obtained by identifying the defective protein and injects it.

CANCER

Cancer is caused by uncontrolled division of cells and their spread to other tissues. The normal cells get transformed in to cancerous cells when the control system of cell division fails.

REASONS:-

- 1) Environmental factors
- 2) Smoking.
- 3)Radiations
- 4) Virus
- 5) Hereditary factors.

ACTION:-

- The disease may become complicated with the spread of cancer cells to other parts of the body through blood and lymph.

TREATMENT.

- 1) Surgery 2) Chemotherapy 3) Radiation therapy
- Recovering from the disease is difficult if the disease becomes severe. So early diagnosis of the disease is important in the treatment.

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