

Assignment-1.

INFECTIONS.

Infection:-

An Infection Occurs when another Organism Enter your Body and Causes disease .

The Organisms that Cause infections are very diverse and can include things like

- (i) Viruses (Viral Infection)
- (ii) Bacteria (Bacterial Infection)
- (iii) Fungi (Fungal Infection)
- (iv) Parasites. (Parasitic infection)

Sources of Infection :-

The source of infection is defined as the person, animal, object or substance from which an infectious agent passes or disseminated to the host.

The Normal sources of infections are

- (i) Human
- (ii) Animal
- (iii) Vector
- (iv) Insects
- (v) Environment (food, water, soil).

(i) Humans:-

Some germs are helpful and even help us to stay healthy, while others are harmful & cause infections.

Germs get into the body through the:-

Mouth - including eating, drinking, or breathing

Skin - through cuts and grazes

Eyes, genitals.

Germs can spread:-

* From person to person.

Directly through close contact.

Indirectly from an infected person to an object (such as door handles, bench tops, food) and then to another person who comes into contact with the environment

items.

(i) the Air as droplets or aerosol particles.

Some infections are spread when an infected person talks, coughs or sneezes & the small droplets they produce contain germs.

(ii) of disease:- Common Cold, Influenza (the flu), Chickenpox, COVID-19, TB, Measles

(ii) Through faecal-oral spread:-

Some infections are spread when tiny amounts of faeces from an infected person are taken in by another

Person by their mouth. The germs may be passed directly from infected hands to the mouth or indirectly surfaces, food, water & contaminated surfaces.

(Ex) giardia, hepatitis A, Campylobacter.

(iii) Through blood or other body fluids:-

Some infections are spread when body fluids such as blood, saliva, urine, faeces or semen come into direct contact with an uninfected person through kissing, sexual contact or through a needle stick injury.

(Ex):- HIV, hepatitis B and C.

(iv) Through contact with skin or mucous membrane:-

Some infections are spread directly when skin or mucous membrane (such as nose, mouth, genitals) come into contact with skin or mucous membrane of an infected person.

(Ex):- head lice, conjunctivitis, ringworm.

(v) Through sexual contact:-

Sexually transmitted infections (STIs) are most commonly transmitted by sexual contact. This means through vaginal, anal or oral sex.

(Ex):- syphilis
gonorrhoea
Chlamydia.

(ii) Animals:-

Zoonoses \Rightarrow infectious disease transmitted from animals to humans.

Zoonoses could be:-

(i) Bacterial disease:-

plague from rats

(ii) Viral diseases:-

rabies from dogs.

(iii) Protozoal diseases:-

Toxoplasmosis from cats.

(iv) Helminthic diseases:-

Hydatid disease from dogs.

(v) Fungal disease:-

Zoophilic dermatophytes from cats & dogs.

(ii) Insects:-

Arthropod-Borne disease.

[Disease Cause by Blood sucking (insects)

(Ex) dengue
Malaria

Ex of Vectors:-

Mosquitoes ,

Ticks

Mites

flies

fleas

lice