

الأسبوع السابع عشر :-

Immunity : is the body's ability to fight off harmful micro-organisms – pathogens– that invade it.

The immune system produces antibodies or cells that can deactivate pathogens , Fungi, protozoans, bacteria, and viruses are all potential pathogens.





infectious disease is one in which minute organisms, invisible to the naked eye, invade and multiply within the body. Many of these organisms are *contagious*, that is they spread between people in close contact.



Types of immunity

1– Natural immunity .

2– Acquired immunity .

Natural or (**innate**) immunity : basic immunity which may be genetically passed on from one generation to other generation .

Acquired immunity : Acquired during life time and divided to :

1- Active : it is the resistance developed as a result of antigenic stimulus active acquired immunity may be :

A- Natural : This acquired after infection

B- Artificial: This acquired artificially by inoculation

2- Passive acquired immunity : it may be

A- Natural : transmission of antibodies from the mother to the fetus can occur through placenta and breast feed .

B- Artificial : produce by injection of serum of animals that been immunized activity.





– **Antigen** : Protein , poly saccharide or poly peptid when introduced in to the body stimulates the production of antibody and react specifically with such antibody .

– **Antibody** : Is hormonal substance produce in response to antigenic stimulus it serve as protective agent against organism .

Thank You

Questions?

Comments and opinions would be appreciated.