Immunity

Immunology

Immunology is made of Immune + logy = Immunology. That means the complete study of Immune (Our body’s bodyguard) system which majorly include antigen and antibody and their interaction, resulting in desirable or undesirable biological action. Reference- NK Jain (Microbiology)

Natural Immunity

Species

Racial

Individual

Acquired Immunity

Active

Passive

Artificial

Vaccine

- Dead or Extract attenuated Toxoids

Natural

Congenital Colostrums

Artificial

Antiserum

Antitoxin

Species

Man is susceptible for plague but not fowls. Mice are not affected by typhoid fever but man suffers.

Race

Negroes possess high resistance to yellow fever than white man. Negroes and white Indian are more susceptible to TB than Caucasian race.

Individuals

Children of age 2-5 are susceptible to diphtheria whereas most adult are immune to it.

Natural/Clinical Subclinical

Artificial

Vaccine- Dead or Extract attenuated Toxoids

Natural

Acquired Immunity

Antibody formed in a mother in response to disease may be transferred to fetus through the placental blood.

Artificially Acquired Immunity

This is acquired by injecting the preparation known as antiserum. These are the Antibodies produced in animal.

Artificial

Vaccine- live or dead

Natural

Acquired Immunity

Antibody formed when a person recover from- diphtheria, small pox and poliomyelitis. A person become immune because it’s his antibody producing cell has received an adequate stimulus.

Artificial

This is acquired by the administration of antigen usually by injection. Example- Vaccine either live or dead.

Bone Marrow

Stem Cells

Thymus Maturation

T- Lymphocyte

Lymphoblasts

Cell Mediated Reactions

Antigenic Stimulation

Co-operation

“Busra” or GALT Maturation

B- Lymphocyte

Plasma Cells

Humoral Antibody Synthesis

Antigenic Stimulation

Diagram is Made By Solution Pharamacy Inc.

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