**Introduction:**

- Immunity Refers to Resistance show by the Host against any Foreign antigens including Micro-Organism.

**Classification:**

![Immunity Diagram]

**Innate Immunity:**
- Immunity which may be genetically passed on from one generation to another generation.

1. **Species innate Immunity:**
   - Resistance towards Micro-Organism among a Species.

   Ex: Anthrax Bacillus Present in Soil

   - In Chicken 🐔 - immunity present Against Anthrax
   - In Human Being 🤖 - it Cause Anthrax Disease because of Absence of Immunity against Anthrax.

**Acquired Immunity:**

1. **Active Immunity:**
   - 1. Natural Active.
   - 2. Artificial Active.

2. **Passive Immunity:**
   - 1. Natural Passive.
2. **Racial Innate Immunity** :-
   - Resistance towards a Micro-Organism among races of a Species.

   Ex :- American Negros (काले लोग) Are more Susceptible to Tuberculosis than the American White.
   - American Negros - 80 % TB Cases
   - American White - 20 % TB Cases

3. **Individual Immunity** :-
   - Difference Present against the agents in immune power.
     - Adult = More Immunity
     - Child & Old Persons = Less immunity

   Other Variation :- Endocrine (Hormones), Nutrition

**Acquired Immunity** :-
- Resistance Acquired by Individual During Life (Birth to Death).

1. **Active Immunity** :- (इसमें Body में Antigen जायेगा)

   A. **Natural Active Immunity** :-
      - Through Clinical and Sub-clinical *infection or Disease*.

   B. **Artificial Active Immunity** :-
      - Immunity that is Obtained by *Vaccination*.

   Ex :- BCG, Measles Vaccine
2. Passive Immunity :- (इसमे Antibody शरीर में जायेगी)

A. Natural Passive Immunity :-
   I. Vertical Transmission :- Through Placenta (IgG)
   II. By Breast feeding (by Milk) :- IgA (At Birth)

B. Artificial Passive Immunity :-
   • Immunity that is Obtained by Readymade Immunoglobulins (Ig) and Antitoxins.

· Special Point for Review ·

★ Active Immunity में Body में Antigen जाएगा उसके परिणाम स्वरूप शरीर में Resistance Antibody बनेगी।
★ Passive Immunity में Body में Antibody जाएगी उसके परिणाम स्वरूप Body में Resistance बनेगा।
★ Natural Passive Immunity में immunity (IgA & IgG) माँ से बच्चों में जाति है
★ Artificial Active Immunity में immunity, immunization के द्वारा Produce करते हैं
★ Artificial Passive Immunity में immunity, Antitoxin एवं Readymade Antibody देकर produce करते हैं
★ Immunoglobulins (Ig) :-
   1) IgA
   2) IgG
   3) IgD
   4) IgE
   5) IgM

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