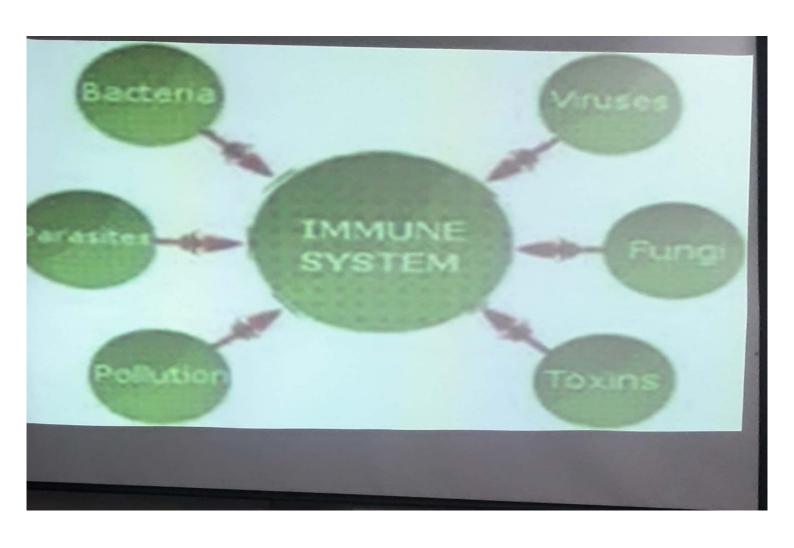






- Immunology = study of structure and function of the immune system
- ▶ Immune system = cells, tissues, and molecules that mediate resistance to infections
- ► Immunity = resistance of a host to pathogens and their toxic effects
- ▶ Immune response = collective and coordinated response to the introduction of foreign substances in an individual mediated by the cells and molecules of the immune system

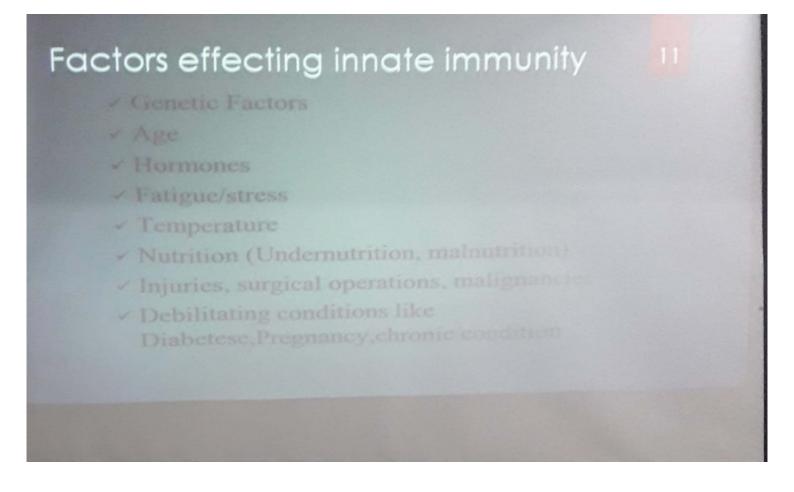


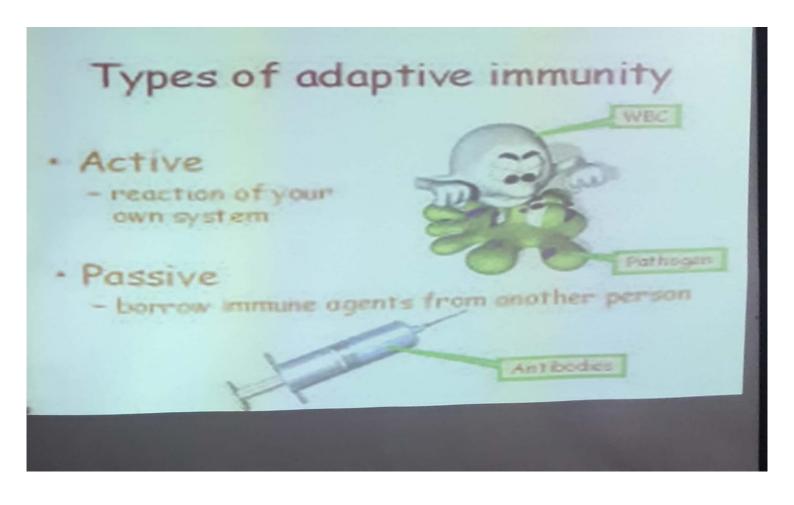


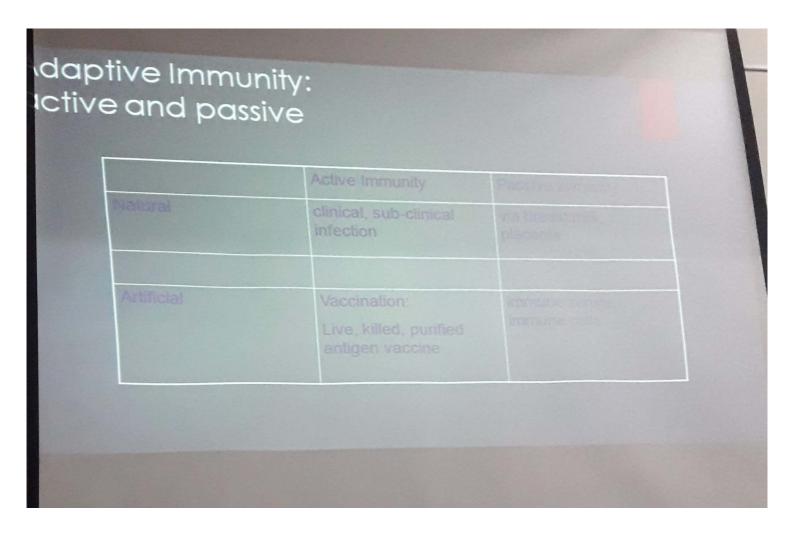
## Types of Immunity

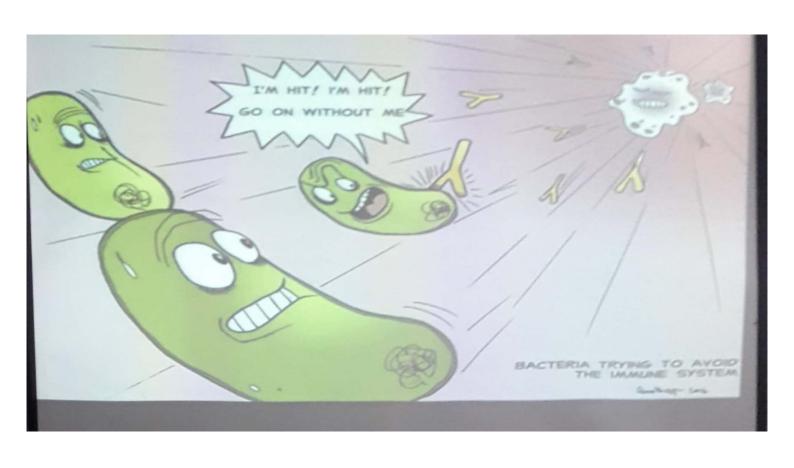
- Innate (non-adaptive)
  - first line of immune response
  - relies on mechanisms that exist before infection
- Acquired (adaptive)
  - Second line of response (if innate fails)
  - relies on mechanisms that adapt after infection
  - handled by T- and B- lymphocytes
  - one cell determines one antigenic determinant

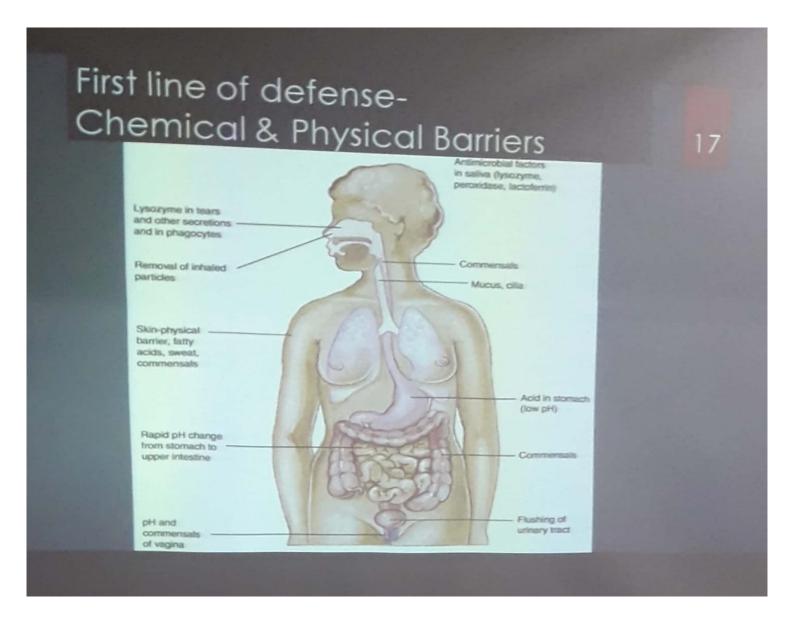
## Factors effecting innate immunity Genetic Factors Age Hormones Fatigue/stress Temperature Nutrition (Undernutrition, malnutrition) Injuries, surgical operations, malignances Debilitating conditions like Diabetese Pregnancy, chronic condition





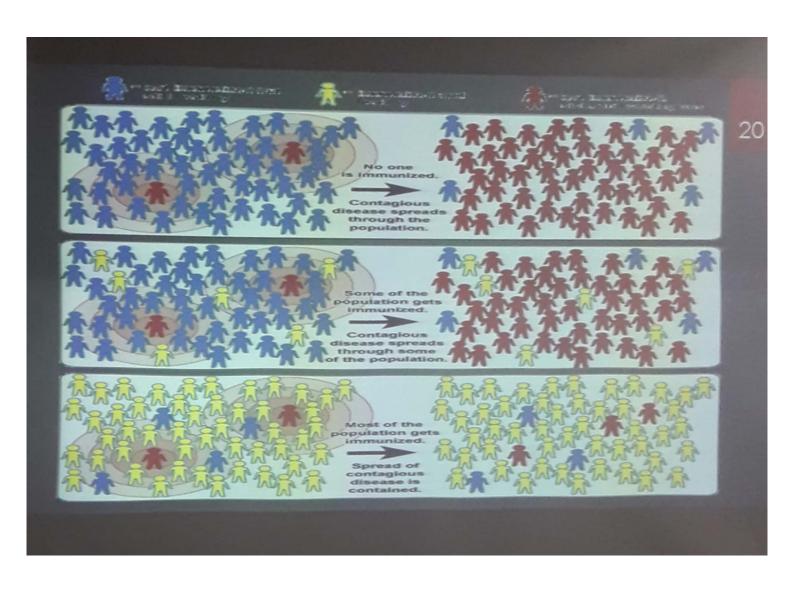


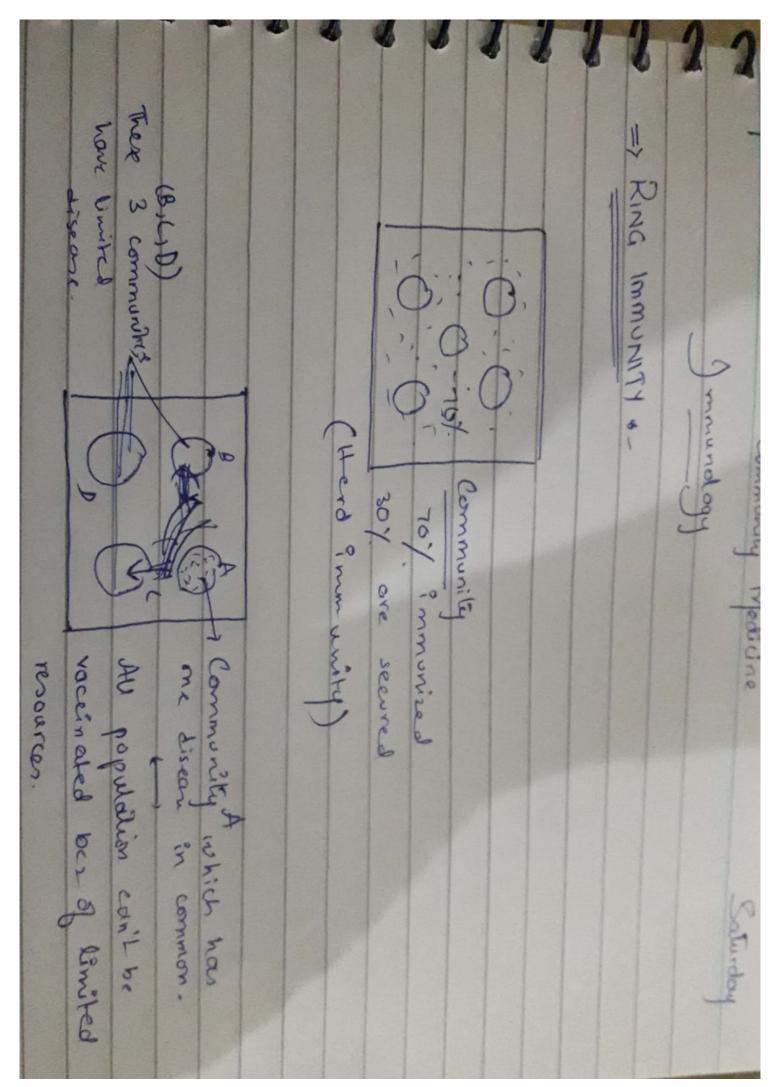




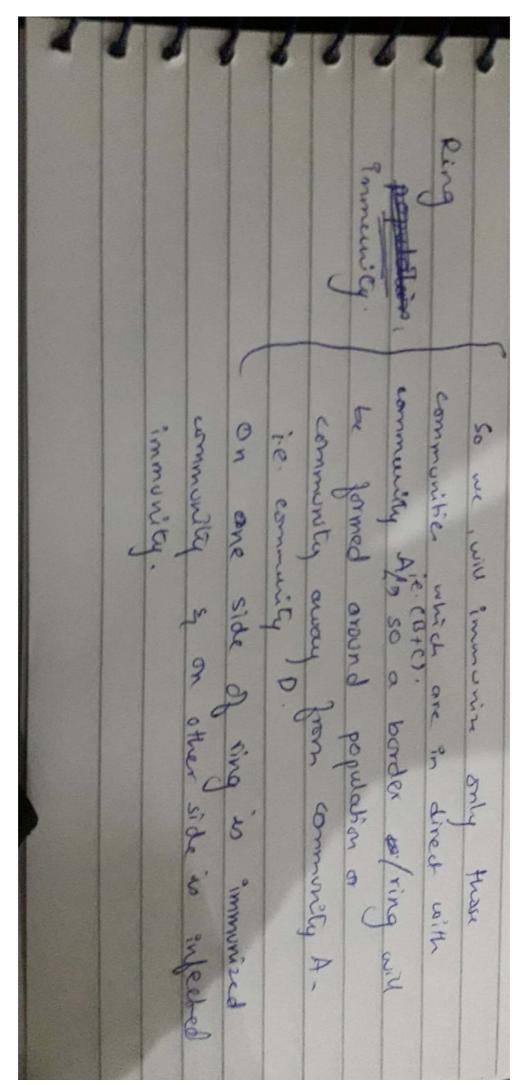








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