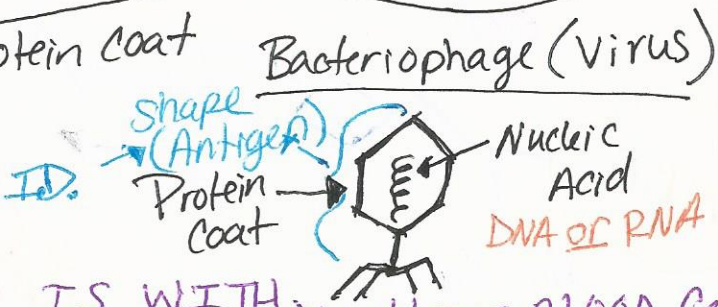


Viruses

1. Non Living: No organelles → Cannot reproduce independantly.
 2. Needs a cell To Reproduce.
 3. Only have one type of Nucleic Acid. (DNA OR RNA)
- Does not have both like cells do.
- RNA & DNA work together for reproduction, Therefore viruses cannot reproduce on their own. RNA → makes protein + Fixes DNA mistakes. DNA → Genetic Info.

Viruses are made of protein → Protein coat

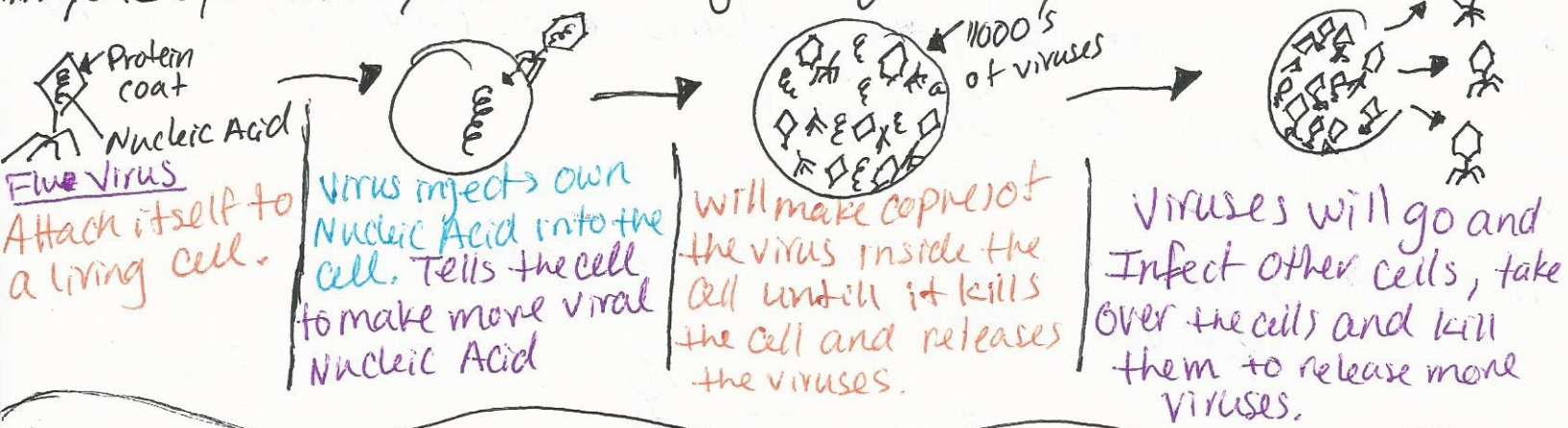
→ The protein coat confuses the cell into thinking it is only protein and can enter the cell and Reproduce.



THE ONLY WAY TO KILL A VIRUS IS WITH WHITE BLOOD CELLS.

VIRUS Reproduction

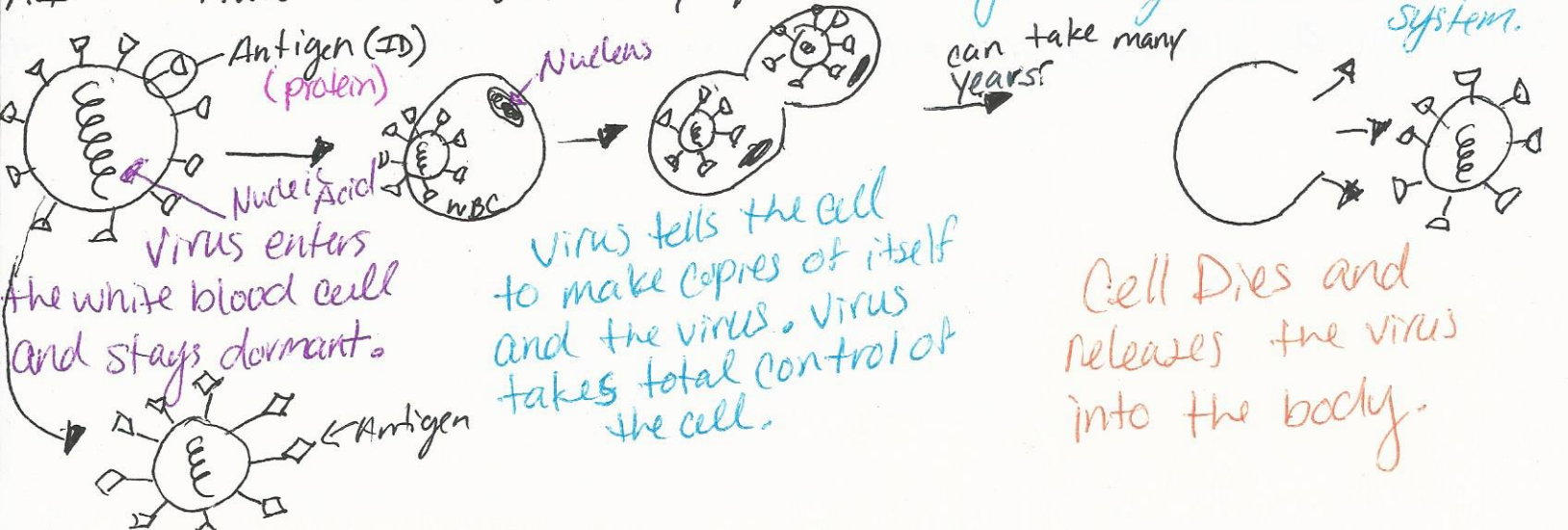
Lytic Cycle: Flu, Influenza. Very fast cycle → 1-3 days to get sick



Lysogenic Cycle: HIV, Herpes → very slow cycle → Take years to get symptoms.

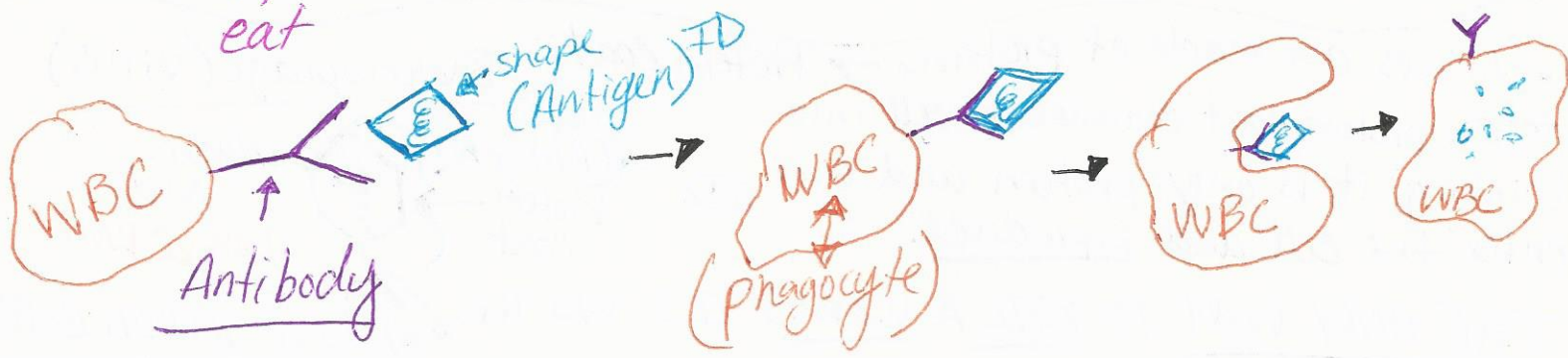
HIV → Human Immunodeficiency Virus → Attacks your white blood cells

AIDS → Auto immune deficiency Syndrome → you no longer have an immune system.



Immune System

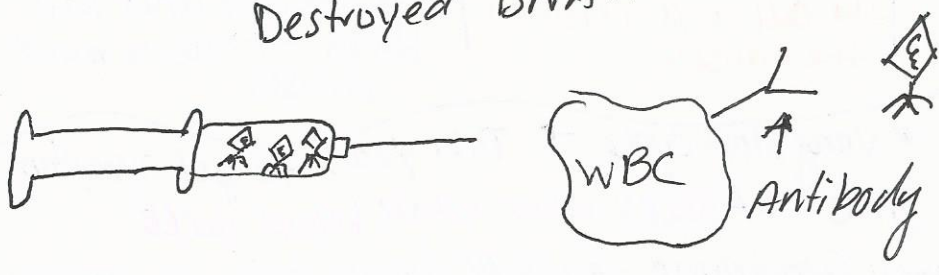
- White blood cells (WBC) → protect body / fight diseases + infections
- 2 types of WBC → T-cells, B-cells
- T-cell (phagocyte) → Eats the virus



Production of WBC → Bone marrow
 WBC are released from → Lymph Nodes

• Protection of the body → Symptoms → Ex: Runny nose, coughing, sneezing, production of mucus.

Vaccines → "Dead" or Damaged version of the virus
 Destroyed DNA or RNA



Vaccines will help the body recognize the virus antigen so that when the virus enters the body, the body

can recognize the virus and kill it before it can affect your body & make you sick.