

Vaccines

- are weakened versions of a disease pathogen that are given to people to protect them from getting the disease later.
- allows your body to create **antibodies** against the disease
- now **memory B-cells** will be activated if the virus tries to attack.

Allergies

- an unusually high sensitivity to some substance called **allergen**
any substance that causes an allergic reaction.
ex. pollen, nuts, cats, dairy...
- severe allergies can cause **anaphylactic shock**
- body releases chemical called **histamine** to fight allergen
↳ common symptoms are runny nose and watery eyes

AIDS - Acquired Immunodeficiency Syndrome

- AIDS is caused by a virus called HIV.
- HIV attacks the immune system by infecting **helper T-cells**
↳ when other pathogens or antigens enter the body, the immune system can't activate **Killer T-cells** or **B-cells**.
- AIDS is transmitted by blood and semen

pg. 117 #1-17