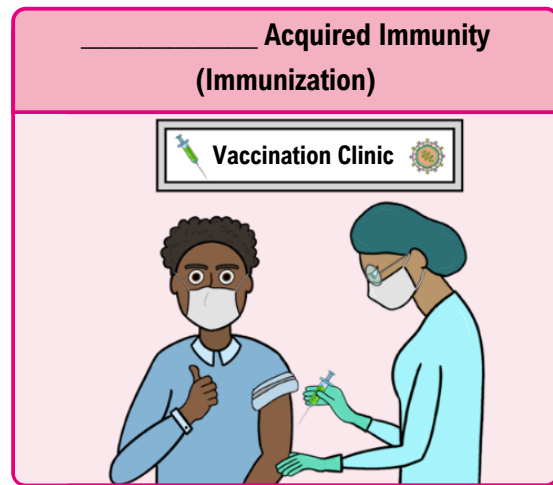
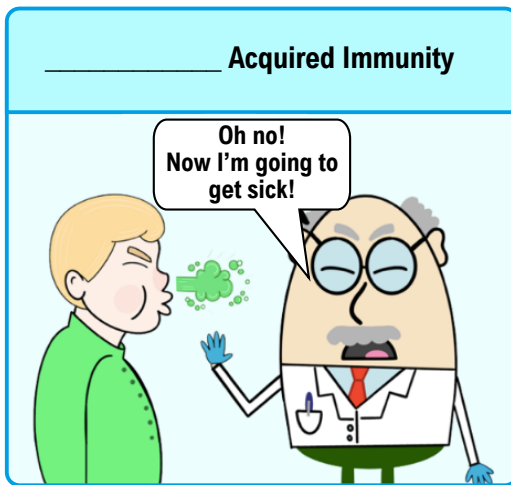


TOPIC: TYPES OF ACQUIRED IMMUNITY

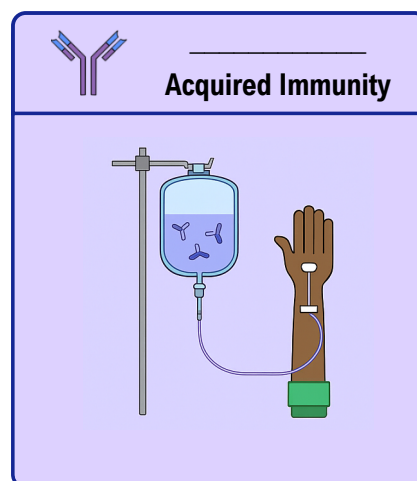
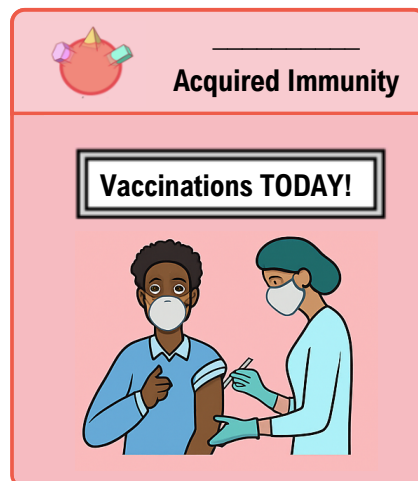
Types of Acquired Immunity: Natural vs. Artificial

- ◆ **Naturally Acquired Immunity:** immunity attained naturally, _____ medical interventions.
- ◆ **Artificially Acquired Immunity:** immunity _____ by medical interventions (process called an **immunization**).
 - **Immunizing Agent:** type of *immunotherapy* used for immunization against _____/toxins (e.g. vaccines).
 - **Immunotherapy:** any medical intervention that _____ immune system's behavior to prevent/treat disease.



Types of Acquired Immunity: Active vs. Passive

- ◆ **Active Immunity:** direct _____ exposure allows body to _____ its own *long-term* immunity with *memory*.
- ◆ **Passive Immunity:** pre-made _____ are passively _____ (WITHOUT antigen exposure).
 - Provides *short-term* immunity with _____ *memory* (once antibodies degrade, protection is lost).

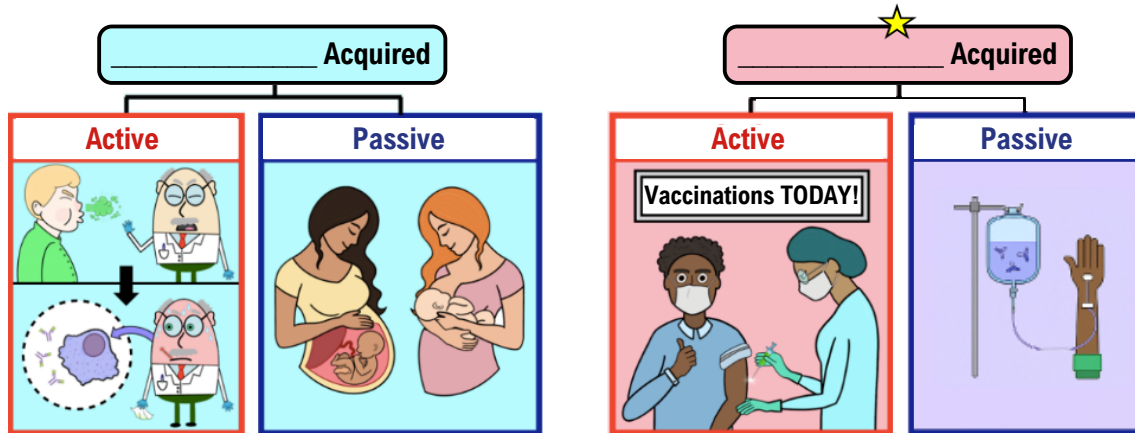


TOPIC: TYPES OF ACQUIRED IMMUNITY

4 Types of Acquired Immunity

◆ *Recall:* Immunity can be acquired naturally/artificially or **actively/passively**.

- ▶ Naturally Acquired **Active**: natural exposure to **antigens** allows body to build immunity (e.g. _____).
- ▶ Naturally Acquired **Passive**: _____ **antibodies** are passed to her infant via placenta &/or breast milk.
- ▶ Artificially Acquired **Active**: *medical intervention* introduces **antigen** to induce immunity (e.g. _____).
- ▶ Artificially Acquired **Passive**: *medical intervention delivers antibodies* to induce immunity (e.g. antibody infusion).



★ Our lessons focus on artificially acquired immunity.

PRACTICE

Vaccination is used to build what type of immunity in a patient?

- a) Natural passive immunity.
- b) Artificial passive immunity.
- c) Natural active immunity.
- d) Artificial active immunity.

PRACTICE

Breast feeding provides what form of immunity to the infant?

- a) Natural active immunity.
- b) Artificial active immunity.
- c) Natural passive immunity.
- d) Artificial passive immunity.

TOPIC: TYPES OF ACQUIRED IMMUNITY

PRACTICE

Which of the following provides active immunity for an individual?

- a) A patient receiving tetanus immune globulin (antibody) therapy.
- b) A patient receiving an inactivated influenza vaccine.
- c) A patient receiving immune globulin (antibody) injections to prevent hepatitis.
- d) A baby consuming its mother's breast milk that contains COVID-19 antibodies.