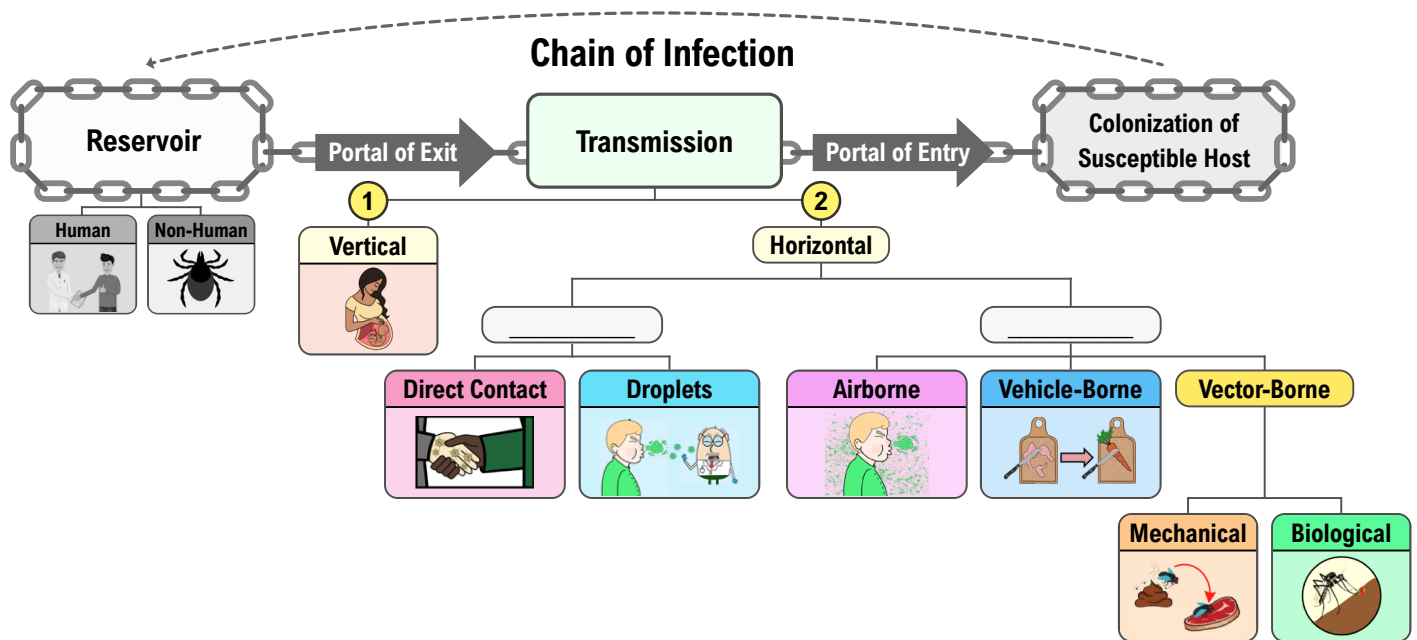


## TOPIC: DISEASE TRANSMISSION

- ◆ 2 general ways pathogens are transmitted: ① Vertical Transmission ② Horizontal Transmission (*direct* or *indirect*)

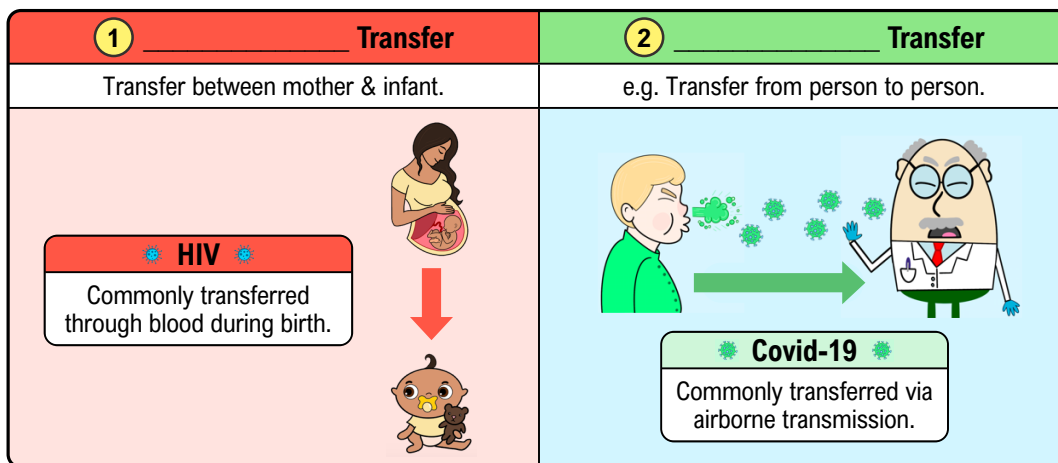


## TOPIC: DISEASE TRANSMISSION

### Vertical vs. Horizontal Disease Transmission

◆ *Recall:* Transmission of a pathogen is categorized into \_\_\_\_ general types:

- ① **Vertical Transmission:** *direct* transfer from a mother to her \_\_\_\_\_ through natural processes.
  - Pathogen typically transferred during *pregnancy, birth, or breastfeeding*.
- ② **Horizontal Transmission:** any *other* method of transmission that is \_\_\_\_\_ vertical transmission.
  - Can be *direct* or *indirect* transfer between humans, animal to human, or environment to human.



## PRACTICE

Which of the following is the major difference between vertical and horizontal disease transmission?

- a) Vertical transmission only occurs with genetic disorders. Horizontal transmission occurs with infectious diseases.
- b) Vertical transmission only occurs between mother & baby. Horizontal transmission is any other mode of transmission.
- c) Vertical transmission occurs between mother & baby. Horizontal transmission occurs between father & baby.
- d) Vertical transmission is a form of indirect transmission. Horizontal transmission is a form of direct transmission.