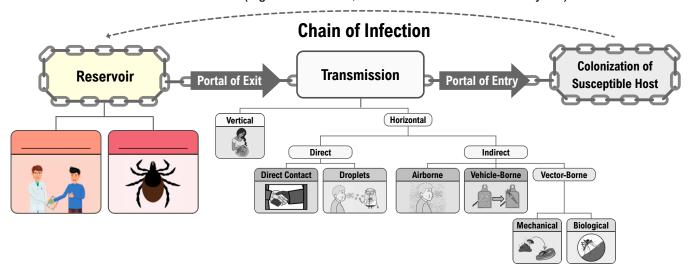
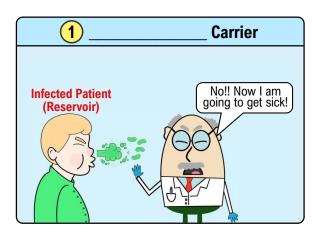
TOPIC: RESERVOIRS OF INFECTION

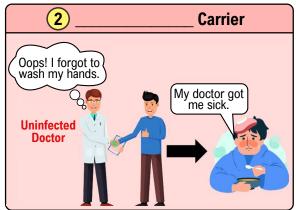
- ◆ Recall: ______: the natural habitat where the pathogen persists long-term (lives, grows, & multiplies).
 - Can be either human or non-human (e.g. other animals, or inanimate/environmental objects).



Human Reservoirs: Carriers of Disease

- ◆ ______: organism capable of *transmitting* pathogens; may not show signs & symptoms.
 - 1) Active Carrier: ______ person that sheds the pathogen & can transmit the disease.
 - Asymptomatic Carrier: active carrier that does _____ show signs or symptoms.
 - 2) Passive Carrier: _____-infected but contaminated person that mechanically transmits pathogens.
 - E.g. a healthy doctor forgets to wash their hands after treating an infected patient.





TOPIC: RESERVOIRS OF INFECTION

PRACTICE

Which of the following statements about active disease carriers is false?

- a) Active carriers are always infected with the disease (unlike passive carriers).
- b) Active carriers may be symptomatic or asymptomatic.
- c) Active carriers are always symptomatic.
- d) All of the above are false.

PRACTICE

SARS-CoV-2 virus (Covid-19) is a very contagious virus and most individuals infected by the virus show symptoms. However, some people infected with the disease do not show symptoms at all. These people are:

a) Passive, symptomatic carriers.

c) Active, symptomatic carriers.

e) b or c.

b) Passive, asymptomatic carriers.

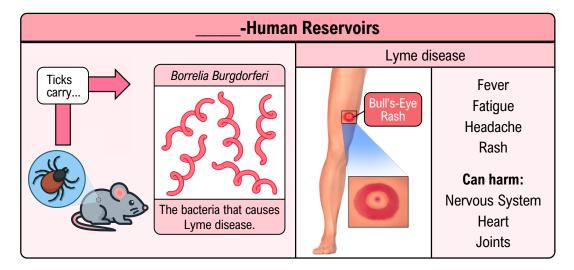
d) Active, asymptomatic carriers.

f) c or d.

TOPIC: RESERVOIRS OF INFECTION

Non-Human Reservoirs

- ◆ Non-human reservoirs are the source of MANY diseases & are very difficult to control.
 - Environmental reservoirs like _____ & ____ are the most common & problematic.
- ◆ Zoonoses: diseases that *originate* in an ______ but can be transmitted *directly* or *indirectly* to a human.
 - Examples include rabies (dogs), plague (fleas), salmonellosis (poultry), & Lyme disease (mice).



PRACTICE

The following answer choices list a disease followed by the primary organism(s) that carries that disease. Which of the following is not an example of a zoonotic disease?

a) Measles virus; humans.

c) Yersinia pestis (plague); rodents and fleas.

b) Rabies virus; all mammal species.

d) West Nile virus; birds and mosquitos.

PRACTICE

A tick infected with *Borrelia burgdorferi* bacteria bites a human and transfers the bacteria to the human. The human soon shows signs of Lyme disease. The wound the tick makes on the human's skin is the pathogen's:

a) Portal of exit.

c) Portal of entry.

b) Reservoir.

d) Chain of infection.