

Name: _____

Date: _____

Pathogen Protection: Prevail and Prevent for 7th Grade

Evaluate how chain of infection disruptions and community interventions like herd immunity effectively control the transmission of communicable diseases.

1. Which transition in the 'Chain of Infection' is disrupted when a person uses a high-efficiency particulate air (HEPA) filter to trap airborne fungal spores?

- A. The Susceptible Host
- B. The Reservoir
- C. The Mode of Transmission
- D. The Portal of Entry

2. The public health concept of _____ occurs when a large percentage of a population becomes immune to a disease, making its spread unlikely even for those who aren't vaccinated.

- A. Pathogen Partitioning
- B. Herd Immunity
- C. Antibiotic Resistance
- D. Vector Control

3. A zoonotic disease is one that is specifically defined by its ability to spread from animals to humans.

- A. True
- B. False

4. In the 1850s, John Snow mapped cholera cases in London to a specific water pump. This study of how and why diseases distribute in a population is called:

- A. Microbiology
- B. Epidemiology
- C. Pathology
- D. Immunology

5. To prevent the spread of foodborne pathogens like Listeria, the process of _____ involves heating liquids to a specific temperature to kill harmful microbes.

- A. Carbonation
- B. Pasteurization
- C. Oxidation
- D. Hydration

6. Antibiotics are an effective treatment for preventing the spread of the Rhinovirus, which causes the common cold.

- A. True
- B. False

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7. Which of these is considered a 'non-communicable' disease, meaning it cannot be caught through social contact or hygiene failures?

- A. Tuberculosis
- B. Malaria
- C. Asthma
- D. Norovirus

8. When a person recovers from a disease and their body produces ____ proteins to recognize and fight that specific pathogen in the future, they have developed active immunity.

- A. Antibody
- B. Hormone
- C. Enzyme
- D. Hemoglobin

9. Properly sanitizing shared equipment in a gym is a preventative measure designed to stop indirect contact transmission.

- A. True
- B. False

10. Which biological defense mechanism acts as the first line of 'innate' immunity to prevent pathogens from even entering the bloodstream?

- A. White blood cells
- B. Inflammation
- C. Cilia and mucus membranes
- D. Fever response