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## Understanding Human Cases and Vaccines

### Description

H5N1 bird flu has been detected in dairy cows in the U.S., raising concerns about potential human infections. While the risk to the general public is currently low, health officials are closely monitoring the situation. The government is preparing millions of vaccine doses to combat the virus, with two candidates already identified. Experts believe the U.S. is better prepared for a potential bird flu pandemic compared to previous outbreaks like Covid-19. Discussions with mRNA vaccine makers are also underway to explore additional vaccine options. Surveillance systems are in place to monitor the spread of the virus, with a focus on identifying genetic changes that may impact human health. Antiviral drugs are available for treatment, but precautions such as avoiding contact with infected animals are recommended. Stay informed and take necessary precautions to protect yourself from potential bird flu outbreaks.

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### Vocabulary List:

1. **Detected** // (verb): Discover or identify the presence of something.
2. **Infections** // (noun): The process of infecting or the state of being infected.
3. **Pandemic** // (noun): An outbreak of a disease that occurs over a wide geographic area and affects an exceptionally high proportion of the population.
4. **Surveillance** // (noun): Close observation especially of a suspected spy or criminal.
5. **Antiviral** // (adjective): Acting to prevent/inhibit/counteract the growth and reproduction of viruses.
6. **Precautions** // (noun): Actions taken in advance to protect against possible danger/failure or injury/safeguards.

### Vocabulary quizzes

#### Multiple Choice ( Select the Correct answer for each question. )

1. What tiny particles may cause harm to marine life and ecosystems?  
Option: Chemicals  
Option: Microplastics  
Option: Pollution  
Option: Sperm
2. What type of substances are often found in polluted environments?  
Option: Sperm  
Option: Chemical



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Option: Inflammation

Option: Pollution

3. How might one feel if caught in a situation that draws unwanted attention?

Option: Hopeless

Option: Embarrassed

Option: Breakthrough

Option: Receptor

4. What type of medication is specifically designed to combat viruses?

Option: Antiviral

Option: Pandemic

Option: Surveillance

Option: Infections

5. Which field of study involves the study of heredity and variation of organisms?

Option: Resilience

Option: Genetics

Option: Cognitive

Option: Antioxidants

6. Which type of DNA is passed down from the mother to her offspring?

Option: Mitochondrial

Option: Preventive

Option: Issued

Option: Reckless

7. What behavior is characterized by a lack of concern for the consequences of one's actions?

Option: Endorsed

Option: Reckless

Option: Compulsive

Option: Impulsive

8. Which neurotransmitter is associated with pleasure and reward?

Option: Inflammation

Option: Chemical

Option: Obesity

Option: Dopamine

9. What biological response occurs when the body is combating infection or injury?

Option: Agonist

Option: Inflammation

Option: Detected



Option: Pandemic

10. Which emotion might a person feel when facing a seemingly impossible situation?

Option: Resilience

Option: Hopeless

Option: Breakthrough

Option: Surveillance

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. High levels of \_\_\_\_\_ can have detrimental effects on the environment.

12. The \_\_\_\_\_ of water sources by harmful substances can pose serious health risks.

13. A sedentary lifestyle and poor diet can contribute to the development of \_\_\_\_\_.

14. The presence of microplastics was \_\_\_\_\_ in the water samples collected from the river.

15. Efficient \_\_\_\_\_ systems are crucial for early detection and response to disease outbreaks.

16. Building \_\_\_\_\_ can help individuals cope with life's challenges and setbacks.

17. Taking necessary \_\_\_\_\_ can help prevent the spread of infectious diseases.

18. The policy change was \_\_\_\_\_ by a majority of the committee members.

19. Individuals with \_\_\_\_\_ behaviors may engage in repetitive actions despite negative consequences.

20. Regular exercise has been shown to improve \_\_\_\_\_ function in older adults.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. A substance that binds to a receptor and activates a response in the cell.

22. An outbreak of a disease that occurs over a wide geographic area.



23. Ensuring the right person is assigned to the correct task.
24. A protein on the cell surface where specific molecules can bind.
25. Acting without thinking about the consequences.
26. Molecules that can prevent or slow damage to cells caused by free radicals.
27. Male reproductive cells involved in fertilizing the female egg.
28. A significant development or discovery that advances knowledge or technology.
29. The invasion and multiplication of harmful microorganisms in the body.
30. Feeling of despair with no expectation of a positive outcome.

## Answer

**Multiple Choice:** 1. Microplastics 2. Chemical 3. Embarrassed 4. Antiviral 5. Genetics 6. Mitochondrial 7. Reckless 8. Dopamine 9. Inflammation 10. Hopeless

**Gap-Fill:** 11. Pollution 12. Contamination 13. Obesity 14. Detected 15. Surveillance 16. Resilience 17. Precautions 18. Endorsed 19. Compulsive 20. Cognitive

**Matching sentence:** 1. Agonist 2. Pandemic 3. Matching 4. Receptor 5. Impulsive 6. Antioxidants 7. Sperm 8. Breakthrough 9. Infections 10. Hopeless

## CATEGORY

1. Health - LEVEL1

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