



## Detection of Two Human Cases of Highly Pathogenic Avian Influenza A(H5N1) Virus in U.S. Dairy Cattle Outbreak — United States, 2024

### Description

### Two Cases of Influenza A(H5) Virus Infection Detected in U.S. Dairy Workers

In a recent development, two cases of Influenza A(H5) virus infection have been identified in dairy farm workers in the United States. The first case was reported on April 1, 2024, in a Texas dairy farm worker who tested positive for highly pathogenic avian influenza (HPAI) A(H5N1) virus after exposure to infected dairy cattle. The patient experienced only conjunctivitis and recovered after treatment with oseltamivir. Subsequently, on May 22, 2024, a second case was reported in a Michigan dairy farm worker. Both cases are believed to be the first instances of cow-to-human transmission of an avian influenza A virus.

The outbreak of A(H5N1) virus in U.S. dairy cattle was first reported in March 2024, with infected cows identified in 52 herds across nine states. Signs in the cattle included decreased milk production and clear nasal discharge. Additionally, the virus was found in unpasteurized milk from infected cows.

Internationally, cases of human A(H5N1) infection have been reported since 1997, with 909 cases documented, leading to a 52% fatality rate. To address the current outbreak, the CDC has implemented a One Health approach, including monitoring exposed individuals, conducting surveillance, and researching virus pathogenesis.

In response to the situation, CDC is enhancing influenza surveillance activities, collaborating with manufacturers for diagnostic tests, and developing novel vaccines for pandemic preparedness. Additionally, antiviral drugs such as oseltamivir are recommended for treatment and post-exposure prophylaxis.

Epidemiologic investigations are underway to assess the risk to humans, with plans for in-depth studies and specimen collection. CDC's efforts aim to better understand and address the spread of Influenza A(H5) virus in the United States.

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## Vocabulary List:

1. **Influenza** // (noun): A viral infection that attacks the respiratory system.
2. **Dairy** // (noun): Related to milk products or milk-producing animals.
3. **Pathogenic** // (adjective): Capable of causing disease.
4. **Avian** // (adjective): Related to birds.
5. **Transmission** // (noun): The passing of a disease from one person or organism to another.
6. **Surveillance** // (noun): Close observation especially of a suspected spy or criminal.

## Vocabulary quizzes

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

1. Which infectious disease is commonly known as the flu?

Option: Avian influenza

Option: Influenza

Option: Pathogenic disease

Option: Cancer

2. What term describes the process of passing something from one person to another?

Option: Synthesis

Option: Transcription

Option: Infection

Option: Transmission

3. What is the goal of maintaining a good level of physical health and well-being?



- Option: Muscle Mass
- Option: Sustainability
- Option: Fitness
- Option: Core funding

4. Which term refers to a type of cancer that begins in the skin or in tissues that line or cover internal organs?

- Option: Proliferation
- Option: Carcinoma
- Option: Alarming
- Option: Aggressive

5. What is the act of preparing and giving out medication called?

- Option: Medication
- Option: Interventions
- Option: Funding crisis
- Option: Dispensing

6. Who is a person or company that makes goods for sale?

- Option: Speculation
- Option: Manufacturer
- Option: Operational costs
- Option: Surveillance

7. What term is used when a disease or illness is identified by its signs and symptoms?

- Option: Implications
- Option: Uncover
- Option: Diagnosed
- Option: Achieve

8. What biological process involves combining simple substances to form more complex substances?

- Option: Achieve
- Option: Cellular
- Option: Synthesis
- Option: Manufacturing

9. What is the term for preserving something in its existing state or condition?

- Option: Maintain
- Option: Mounting financial pressures
- Option: Aggressive
- Option: Retired

10. What term describes a substance used to treat or prevent disease?



- Option: Medication
- Option: Proliferation
- Option: Alarming
- Option: Retired

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

11. The organization faced a \_\_\_\_\_ due to lack of financial resources.
12. It is essential to secure \_\_\_\_\_ to ensure the long-term sustainability of the project.
13. The company struggled to cover its \_\_\_\_\_ as expenses continued to rise.
14. The business was under significant strain due to \_\_\_\_\_.
15. His primary goal was to \_\_\_\_\_ a high level of physical fitness.
16. The recent increase in pollution levels is \_\_\_\_\_ and requires immediate attention.
17. The rapid \_\_\_\_\_ of online shopping has transformed the retail industry.
18. The investigation aims to \_\_\_\_\_ the truth behind the mysterious disappearance.
19. The discovery of new evidence has significant \_\_\_\_\_ for the ongoing case.
20. The doctor recommended a series of medical \_\_\_\_\_ to manage the patient's condition.

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

21. It is important to consider the _____ of our actions to ensure a better future for the planet.
22. The company adopted an marketing strategy to expand its market share quickly.
23. respiration is the process of converting glucose into energy within cells.
24. After working for decades Jane decided to _____ and enjoy her retirement.
25. The stock market is often subject to wild swings based on investor _____.



26. Regular exercise helps maintain healthy and strength.
27. Public health agencies conduct to monitor the spread of infectious diseases.
28. The automotive industry experienced a boom in output last quarter.
29. With hard work and dedication she was able to her lifelong dream of becoming a published author.
30. Early detection is crucial in improving survival rates for patients with .

## Answer

**Multiple Choice:** 1. Influenza 2. Transmission 3. Fitness 4. Carcinoma 5. Dispensing 6. Manufacturer  
7. Diagnosed 8. Synthesis 9. Maintain 10. Medication

**Gap-Fill:** 11. Funding crisis 12. Core funding 13. Operational costs 14. Mounting financial pressures 15.  
Achieve 16. Alarming 17. Proliferation 18. Uncover 19. Implications 20. Interventions

**Matching sentence:** 1. Sustainability 2. Aggressive 3. Cellular 4. Retired 5. Speculation 6. Muscle Mass  
7. Surveillance 8. Manufacturing 9. Achieve 10. Cancer

## CATEGORY

1. Health - LEVEL6

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