



THE REAL SPIN ON GLOBAL FLU

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CE QUESTIONS

1. **Work with highly pathogenic organisms such as avian flu is done in Biosafety Level 3+ labs**
a. TRUE b. FALSE
2. **What are some of the upgrades that have been initiated by ZeptoMetrix (ZMC) in its Biosafety? Level 3+ lab?**
a. Presence of shower- in/shower-out stations
b. Additional training for the ZMC staff
c. Addition of incubators for culturing flu viruses in eggs
d. All of the above.
3. **In order to work at ZMC's Biosafety Level 3+ lab, which criteria needs to be met by the lab personnel?**
a. All lab personnel must have earned a bachelor's degree in a science-related field.
b. All lab personnel must be fingerprinted and complete background check.
c. Both a and b.
d. Neither a nor b.
4. **All new employees, regardless of their scientific background, must have a six-month training program to work at ZMC's Biosafety Level 3+ lab**
a. TRUE b. FALSE
5. **Which of the following is performed at the ZMC?**
a. Manufacture of multiple strains of flu virus and related respiratory organisms
b. Proficiency-testing for influenza-based panels.
c. Provision of kit manufacturers with calibrators and controls for both their antigen and molecular-based diagnostic tests
d. All of the above
6. **ZMC predicts that the next probable pandemic will come from the following virus:**
a. respiratory syncytial virus
b. avian influenza
c. HIV infection
d. HPV
7. **A pandemic flu virus will be easier to isolate because it is airborne**
a. TRUE b. FALSE
8. **What are the major influenza pandemics that occurred in the last 100 years?**
a. "Spanish" flu
b. "Asian" flu
c. "Hong Kong" flu
d. All of the above.
9. **A novel but normal genetic mutation in a strain of circulating influenza can lead to an outbreak of a flu pandemic**
a. TRUE b. FALSE
10. **Which of the following viruses could move directly from birds to people and cause a pandemic in humans?**
a. Respiratory syncytial virus
b. Tobacco mosaic virus
c. Avian-flu H5N1
d. Mumps virus
11. **Which of the following needs to be taken into account for the control of flu outbreaks ?**
a. Antigenic drift in subtype A and B of influenza virus
b. New subtypes are responsible for pandemics
c. The necessity to reformulate annual influenza vaccines
d. All of the above.
12. **The efficacy of a flu vaccine does not depend on how well it is matched to the type of flu viruses circulating that year (as a mean of preventing outbreaks)**
a. TRUE b. FALSE
13. **The following statements are true of HIV:**
a. There are currently an estimated 10 million people in the United States living with HIV/AIDS.
b. HIV is a retrovirus that can lead to AIDS.
c. At least 75% of those living with HIV/AIDS in the United States are undiagnosed.
d. All of the above.

14. According to UNAIDS and WHO, how many people have succumbed to HIV/AIDS as of January 2006?

- a. 100 million
- b. 50 million
- c. 250 million
- d. 25 million

15. The designation H5N1, as a subtype of influenza A virus, denotes

- a. hemagglutinin type 5 and neuraminidase type 0.
- b. hemagglutinin type 5 and neuraminidase type 1.
- c. hemagglutinin type 1 and neuraminidase type 5.
- d. None of the above.

16. Which of the following statements about flu virus is correct?

- a. More than 200,000 people are hospitalized from flu complication each year in the United States.
- b. It can cause mild to severe illness.
- c. 5% to 20% of population in United States, on average, get flu.
- d. All of the above.

17. What is a typical incubation period for SARS?

- a. Seven weeks
- b. More than six months
- c. Two to seven days
- d. At least two months

18. By the time a novel virus is identified and before a novel vaccine is available, an influenza pandemic could erupt

- a. TRUE
- b. FALSE

19. The following is a concern about the H5N1 flu strain:

- a. It will mutate into a virus capable of human-to-human transmission, leading to influenza epidemic.
- b. In the human population, there is little pre-existing natural immunity to H5N1.
- c. Both a and b.
- d. Neither a nor b.

20. What is meant by "incubation period" for SARS?

- a. the time between exposure to SARS-CoV and the cure from symptoms
- b. the time between exposure to SARS-CoV and the onset of symptoms
- c. Both a and b
- d. Neither a nor b

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