CONTINUING EDUCATION :: FLU/RESPIRATORY

continued from page 10

- DFA: provides multiple bacteria detection with high specificity; suboptimal for some bacteria and requires expertise.
- Molecular method: direct identification of viral RNA or DNA by PCR, Multiplex PCR or Real-Time PCR; very sensitive, specific; more expensive compared to other methods.

Commercial RTI tests that identify multiple viruses and/or bacteria using multiplex PCR technology offer convenient method of detection and are highly sensitive and specific. 

Please visit mlo-online.com for references.

CONTINUING EDUCATION TEST

Identifying and testing for RTIs—November 2018

1. Respiratory tract infections (RTI) are divided into the
   a. upper respiratory tract and middle respiratory tract.
   b. lower respiratory tract and middle respiratory tract.
   c. upper respiratory tract and lower respiratory tract.
   d. none of the above

2. Upper respiratory tract infections (URTI) occur in all but the following
   a. lungs
   b. throat
   c. sinuses
   d. trachea

3. What type of RTIs typically resolve on their own?
   a. fungal
   b. bacterial
   c. viral
   d. all of the above

4. What percentage of UTRI cases are caused by viruses?
   a. five to 10
   b. 20 to 58
   c. 60 to 75
   d. 90 to 98

5. Which illness is the most frequently occurring URTI?
   a. influenza
   b. influenzalike virus
   c. common cold
   d. bronchitis

6. All but the following are viruses that can cause the common cold
   a. influenza virus.
   b. human adenovirus
   c. coronavirus
   d. respiratory syncytial virus

7. There are many types of medications that cure the common cold.
   a. True
   b. False

8. The two current influenza subtypes that are found in infected individuals are
   a. H2N2 and H3N2.
   b. H3N6 and H5N9.
   c. H1N1 and H4N2.
   d. H1N1 and H3N2.

9. The common cold is often confused with
   a. adenovirus.
   b. influenza virus.
   c. boca virus.
   d. all of the above.

10. All of the following are symptoms of flu except
    a. fever of 102–104°F.
    b. prominent headache at onset.
    c. often severe aches and pains.
    d. mild to moderate chest discomfort and cough.

11. Which infection is sometimes referred to as a “killer cold”?
    a. HAdV-B14
    b. HAdV-E1
    c. HEV
    d. HEV

12. Human Adenovirus (HAdV) can cause
    a. conjunctivitis.
    b. gastrointestinal infections.
    c. urinary infections.
    d. all of the above.

13. There are many viruses that are capable of causing infections in both the upper and lower respiratory tract.
    a. True
    b. False

14. Which virus is most common to infect children worldwide?
    a. influenza
    b. RSV
    c. HAdV
    d. HEV

15. Which virus contains the rare and dangerous MERS and SARS types?
    a. HMPV
    b. HBoV
    c. HPIV
    d. HEV

16. Human Enterovirus EV-D68 was found to cause respiratory disease, along with rash, fever and neurologic illness.
    a. True
    b. False

17. The antiviral drug ribavirin is used in high-risk cases in the following viruses but
    a. RSV.
    b. HEV.
    c. HMPV.
    d. HEV.

18. Bacterial illness in the upper respiratory tract usually cause
    a. viral infection and bacterial illness in the lower respiratory tract usually cause

19. This bacteria can cause pneumonia, however isn’t known to cause RTIs.
    a. Neisseria meningitis
    b. Mycoplasma pneumoniae
    c. Chlamydophila pneumoniae
    d. Mycoplasma pneumoniae

20. Although one of the most expensive tests, this test for viral and/or bacterial identification gives the highest sensitivity and specificity.
    a. direct fluorescent antibody
    b. viral culture
    c. PCR method
    d. rapid antigen tests

Tests can be taken online or by mail. Easy registration and payment options are available through NIU by following the links found at www.mlo-online.com/ce.

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