CONTINUING EDUCATION TEST

TEST QUESTIONS

Circles must be filled in, or test will not be graded. Shade circles like this: Not like this: X

1. The demand for molecular testing alternatives is being driven by
   a. the shortage of laboratory scientists.
   b. the need to lower costs.
   c. the need for faster results.
   d. none of the above

2. It has been generally acknowledged that traditional culture testing is less sensitive compared to molecular testing, and was generating false negative results.
   a. True
   b. False

3. The limitations of culture plate testing include all but
   a. long turnaround time.
   b. cost of initial plating, gram stain, and biochemical analysis.
   c. inaccurate measurement of zone inhibition on antibiotic discs.
   d. imprecision among scientists in pure colony selection.

4. Which drug-resistant organism contributes to more deaths in the United States each year than homicide, Parkinson’s disease, emphysema, and HIV/AIDS?
   a. VRE
   b. carbapenem-resistant K. pneumoniae
   c. ESBL
   d. MRSA

5. More focus has been put on molecular testing with the recognition of an increase in
   a. co-infections.
   b. cancer development.
   c. misdiagnoses.
   d. none of the above

6. The advantage to designing molecular tests to detect a panel of organisms is
   a. ease of use.
   b. high sensitivity.
   c. speed.
   d. all of the above

7. The first multiplex panels that were widely used in the clinical lab were to diagnose
   a. gastrointestinal viruses.
   b. skin infections.
   c. respiratory viruses.
   d. urinary infections.

8. Insurance companies offer full reimbursement on some molecular panel tests because they view them as diagnostic tools, as opposed to screening tools.
   a. True
   b. False

9. What test is performed first on suspected flu patients at the University of Nebraska Medical Center?
   a. CBC
   b. flu A/B rapid test
   c. CRP
   d. procalcitonin

10. When do secondary bacterial infections typically occur in patients diagnosed with influenza?
    a. upon initial flu presentation
    b. five days into the duration of the virus
    c. during influenza recovery
    d. none of the above

11. Retrospective studies reveal that most fatalities occurring from influenza are associated with
    a. influenza only.
    b. secondary bacterial infection.
    c. combined viral influenza and bacterial pneumonia.
    d. all of the above

12. Clinical symptoms of viral influenza, combined viral and bacterial pneumonia, and secondary bacterial infection following influenza are easy to distinguish in the early course of infection.
    a. True
    b. False

13. Overlapping symptoms and the high rate of mortality have caused physicians to over-prescribe
    a. flu treatment drugs.
    b. fever reducing drugs.
    c. nausea reducing drugs.
    d. antibiotics.

14. The antibiotic stewardship program (ASP) at Nebraska Medical Center was formed to have a positive effect on antibiotic therapy in terms of
    a. using the correct agent.
    b. prescribing the correct dose.
    c. prescribing the correct duration.
    d. all of the above

15. The procalcitonin (PCT) test measures systemic inflammation, with emphasis on
    a. fungal infection.
    b. viral infection.
    c. bacterial infection.
    d. parasitic infection.

16. Patients with _______ severity of disease have _______ levels of PCT.
    a. less; higher
    b. higher; higher
    c. less; undetectable
    d. none of the above

17. Meta-analysis research has found that the use of PCT in lower respiratory tract infections resulted in a _______ in antibiotic duration by _______.
    a. 31 percent decrease; decrease; 1.3 days
    b. 31 percent increase; increase; 1.3 days
    c. 15 percent decrease; decrease; 4 days
    d. 21 percent decrease; decrease; 5 days

18. Antibiotic therapy is encouraged in patients who present with a PCT value of
    a. 0.25 ng/ml
    b. 0.25 mg/dl
    c. 0.05 mg/dl
    d. 0.35 mg/dl

19. Upon a patient’s admission, follow-up PCT testing is performed to gain information on the efficiency of the selected antibiotic therapy and whether to continue or discontinue the treatment.
    a. True
    b. False

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.

P = Poor; E = Excellent

1. To what extent did the article focus on or clarify the objectives?
   P O O O O E

2. To what extent was the article well-organized and readable?
   P O O O O E

3. How will you use the CE units?
   a. state license
   b. employment
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   d. other

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