



TEST QUESTIONS

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

1. How is Lyme disease transmitted to humans in the United States?
  - a. mosquitoes
  - b. deer tick
  - c. Ixodes tick
  - d. droplet nuclei
2. The CDC estimates that there are \_\_\_\_\_ times more cases of Lyme disease than of reported cases from 2008-2018.
  - a. 2
  - b. 5
  - c. 10
  - d. 20
3. In 2015, how many cases of Lyme disease did CDC estimate occur each year?
  - a. 300,000
  - b. 89,000
  - c. 35,000
  - d. 26,000
4. When was the first FDA-approved test for Lyme disease approved?
  - a. 1980
  - b. 1982
  - c. 1987
  - d. 1990
5. The first two tests that were used for Lyme disease testing in the late 1980's were
  - a. Culture and IFA
  - b. Culture and ELISA
  - c. ELISA and IFA
  - d. ELISA and PCR
6. ELISA tests that were initially developed showed a lack of agreement among commercial guidance.
  - a. True
  - b. False
7. The first devised recommendations for serologic test performance and interpretation of Lyme disease were devised by the Second National Conference on Serologic Diagnosis of Lyme Disease and were made up of the
  - a. FDA
  - b. NIH
  - c. CDC
  - d. all of the above
8. The Standard Two-Tiered Testing (STTT) algorithm was developed to determine
  - a. active disease
  - b. previous infection
  - c. both a. and c.
  - d. none of the above
9. In the STTT algorithm, what test is used as the initial screening test?
  - a. Culture
  - b. ELISA
  - c. immunoblot
  - d. IFA
10. What is the confirmatory test for all positive or equivocal tests in the STTT algorithm?
  - a. Culture
  - b. ELISA
  - c. immunoblot
  - d. IFA
11. The testing performance of the STTT algorithm showed missed diagnoses in those with \_\_\_\_\_ Lyme disease.
  - a. early
  - b. late
  - c. no
  - d. none of the above
12. Modified two-tiered testing (MTTT) studies have shown comparable sensitivity and superior specificity to the STTT algorithm for the detection of early Lyme disease.
  - a. True
  - b. False
13. The MTTT algorithm originally consisted of
  - a. an ELISA test and an IFA test
  - b. four sequential first-tier ELISA tests
  - c. two sequential first-tier ELISA tests
  - d. none of the above
14. The MTTT validation study compared \_\_\_\_\_ and \_\_\_\_\_ as the second tier of confirmatory testing.
  - a. IFA and ELISA
  - b. IFA and Western blot
  - c. ELISA and culture
  - d. ELISA and Western blot
15. The MTTT-2 algorithm reflexed positive first-tier specimen to be tested using
  - a. two separate second-tier ELISA tests and Western blot
  - b. second-tier ELISA tests and Western blot
  - c. two separate second-tier ELISA tests only
  - d. Western blot only
16. The findings in the validation study showing the clinical sensitivity of STTT, MTTT-1 and MTTT-2 were
  - a. 70 percent, 80 percent and 88 percent
  - b. 73 percent, 81 percent and 89 percent
  - c. 63 percent, 71 percent and 99 percent
  - d. 75 percent, 84 percent and 87 percent
17. MTTT-1 and MTTT-2 findings in the validation study showed that MTTT-2 detected more acute stage 1 Lyme disease cases than MTTT-1 did when compared to the STTT algorithm.
  - a. True
  - b. False
18. The FDA cleared the MTTT-1 and MTTT-2 algorithms in
  - a. January 2017
  - b. July 2016
  - c. January 2019
  - d. July 2019

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](http://www.mlo-online.com/ce).

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P = Poor; E = Excellent

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2. To what extent was the article well-organized and readable? **P** 1 2 3 4 5 **E**

3. How will you use the CE units?  state license  employment  recertification  other

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