CONTINUING EDUCATION TEST
Isolated anti-DFS70 autoantibodies: Negative disease correlation with a positive impact

July 2019 (This form may be photocopied. It is no longer valid for CEUs after January 31, 2021.)

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

1. What laboratory test is a key diagnostic criterion for the diagnosis of systemic autoimmune rheumatic diseases (SARD)?
   - a. immunoassay for autoantibodies
   - b. microarray testing
   - c. antinuclear autoantibodies (ANA)
   - d. all of the above

2. All of the following are considered diseases under the SARD category except
   - a. osteoarthritis disease
   - b. systemic lupus erythematosus
   - c. mixed connective tissue disease
   - d. Sjögren’s syndrome

3. Which method is performed in the ANA test?
   - a. direct immunofluorescence
   - b. indirect immunofluorescence
   - c. SPE
   - d. ELISA

4. Which substrate is used as the “gold standard” in the ANA screening test?
   - a. HeLa cells
   - b. Le cells
   - c. HEP-1 cells
   - d. HEP-2 cells

5. The most popular ANA pattern encountered in screening is
   - a. dense fine speckled
   - b. speckled
   - c. centromere
   - d. nucleolar

6. The autoantibodies to the DFS protein that confer cell protection by regulating transcription of stress-related genes is
   - a. DFS75/LEDGFp70
   - b. DFS70/LEDGFp70
   - c. DFS71/LEDGFp75
   - d. DFS70/LEDGFp75

7. What committee has classified the challenging DFS pattern as AC-2?
   - a. The International Consensus on ANA Patterns
   - b. The National Consensus on ANA Patterns
   - c. The International AC-2 Committee
   - d. The World Health Organization

8. A positive DFS IFA result is confirmatory and does not need to have follow-up testing.
   - a. True
   - b. False

9. The presence of DFS ANA and/or anti-DFS70 antibodies have been detected in patients with the following conditions, except
   - a. healthy individuals
   - b. individuals with psoriasis
   - c. individuals with heart disease
   - d. individuals with ocular diseases

10. Anti-DFS70 in patients with SARD is typically accompanied by additional SARD-related antibodies.
    - a. True
    - b. False

11. According to a study in a Spanish cohort, the use of anti-DFS70 testing has saved the healthcare system approximately ______________ dollars.
    - a. 10 thousand
    - b. 50 thousand
    - c. 70 thousand
    - d. 70 billion

12. Which healthcare system is one of the first facilities in the U.S. to use the ICAP system?
    - a. Mayo Clinic
    - b. Northwestern Medical Hospital
    - c. Cleveland Clinic
    - d. Lexington Medical Center

13. The lab at LMC often termed a high number of ANA patterns as ______________________.
    - a. homogeneous
    - b. nucleolar
    - c. mixed speckled/homogeneous
    - d. mixed speckled/nucleolar

14. What utility is used with patients who have a non-isolated DFS70 ANA and positive antigen specificities on an ENA panel to diagnose a SARD disease?
    - a. clinical findings that support the ENA antigen specificity
    - b. molecular testing
    - c. immunoblot/immunoassay confirmation
    - d. none of the above

15. What tools were utilized at the LMC lab to help manage significantly high volume of ANA testing?
    - a. computer-assisted microscopy and hiring extra lab scientists
    - b. semi-automated slide preparation and the use of a reference lab
    - c. computer-assisted microscopy and semi-automated slide preparation
    - d. the use of a reference lab

16. What percentage of ANA’s with a DFS pattern show DFS70 ANA specificity?
    - a. 10 percent
    - b. 20 percent
    - c. 30 percent
    - d. 40 percent

17. A six-test ENA pattern is sufficient enough to detect all possible ANA-related autoantibody specificities.
    - a. True
    - b. False

18. What is useful to healthcare providers to effectively interpret results of ANA testing?
    - a. computer-formatted templates that fit individual patient results
    - b. physician consults with immunologists
    - c. specialty certification in autoimmune diseases
    - d. the use of the internet

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