



INFECTIOUS DISEASES (HIV and TB)

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The Cover Story, Clinical Issues, and Lab Management published in this month's *MLO* are peer-reviewed.

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The CE Test questions cover the HIV infection and nephropathy article and the article on TB testing.

CE QUESTIONS

- HIV infection and the advanced disease AIDS remain leading causes of illness and death in the United States.**
 - TRUE
 - FALSE
- In 2008, an estimated _____ people became newly infected with HIV.**
 - 1.3 million
 - 2.7 million
 - 3.4 million
 - None of the above.
- HIV is detectable in regional lymph nodes within _____ days of mucosal exposure and in plasma within another _____ days.**
 - 10, 30
 - 5, 10
 - 3, 6
 - 2, 3
- Once the diagnosis of HIV infection has been established, the severity of the disease and rate of progression can be estimated by measurement of the _____ and the _____.**
 - glycoprotein-120, T-cell count
 - macrophage tropic virus, T-cell tropic virus
 - viral burden in blood, genital secretions
 - CD4+ count, the HIV viral load
- Nucleic-acid amplification testing, or NAT, is a sensitive method to detect acute HIV viremia in patients who are antibody-negative, but an expensive test to utilize as a screening tool for the detection of acute HIV infection in large populations.**
 - TRUE
 - FALSE
- The serologic tests for HIV infection are based upon detection of IgG antibody against HIV-1 antigens in serum.**
 - TRUE
 - FALSE
- IgM antibodies appear six to 12 weeks following HIV infection in the majority of seroconverted patients and by six months in 95% of patients, and they persist for life.**
 - TRUE
 - FALSE
- The third leading cause of end-stage renal disease, or ESRD, in African-Americans between ages 20 and 64 is HIV-associated nephropathy, or HIVAN.**
 - TRUE
 - FALSE
- HAART has had a dramatic impact on the natural history of HIV, with significant reductions in opportunistic infections and mortality. HAART means**
 - heavily activated antiretroviral therapy.
 - human activated antiretroviral therapy.
 - highly active antiretroviral therapy.
 - None of the above.
- HIVAN is a renal syndrome in HIV-1 seropositive patients, characterized by**
 - heavy proteinuria.
 - renal dysfunction.
 - rapid progression to renal failure.
 - All of the above.
 - None of the above.
- In 1900, TB was the second-leading cause of death behind pneumonia.**
 - TRUE
 - FALSE
- TB is no longer a Top 10 killer, although the WHO estimates that 1.7 million people die from TB each year.**
 - TRUE
 - FALSE

13. In 2007, the CDC issued new technical instructions to identify LTBI in immigrants, tuberculin skin test, or TST, for applicants aged 2 to 14 years from countries with an incidence of >20 cases per 100,000 population.
 - a. TRUE b. FALSE
14. IGRAs are more sensitive in detecting people with active TB than the TST.
 - a. TRUE b. FALSE
15. The greatest benefit for immigrants is that IGRAs do not cross-react with
 - a. interferon-gamma (IFN- γ).
 - b. BCG vaccinations.
 - c. antigen-specific T-cells.
16. The 2008 American College Health Association TB testing guidelines now recommend IGRA technology for international visitors studying in the U.S.
 - a. TRUE b. FALSE
17. The proportion of cases in foreign-born vs. U.S.-born individuals has increased each year since 1993. By 2007, the TB rate among immigrants was _____ times higher than in U.S.-born citizens.
 - a. 3.2
 - b. 6.4
 - c. 9.7
 - d. 10
18. IGRAs require access to laboratory testing and cannot be used at the point of care.
 - a. TRUE b. FALSE
19. The tuberculin skin test is 100 years old, but panel physicians may now choose an IGRA, a blood test that determines whether a person has TB infection, instead of the TST. The new type(s) is/are
 - a. the enzyme-linked immunosorbent assay, or ELISA .
 - b. an enzyme-linked immunospot.
 - c. the BCG.
 - d. a and b.
 - e. a and c only.
20. The BCG vaccination is given, sometimes repeatedly, in almost all countries from which U.S. immigrants originate.
 - a. TRUE b. FALSE

TEST ANSWER FORM

CE Test on INFECTIOUS DISEASES (HIV and TB) February 2010

(This form may be photocopied; it is no longer valid for CEUs after August 30, 2011.)

Circles must be filled in, or test will not be graded.

Shade circles like this: Not like this:

P=Poor; E=Excellent

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

P ① ② ③ ④ ⑤ E

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

P ① ② ③ ④ ⑤ E

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 recertification
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 other

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	A	B	C	D	E
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2.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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