

OCTOBER 2011 – HIV/TB

CPD questionnaires must be completed online via www.cpdjournals.co.za
After submission you can check the answers and print your certificate.

PAEDIATRIC TB/HIV CO-INFECTION

- 1. True (A) or false (B):**
Antiretroviral therapy reduces the incidence of TB in HIV-infected children.
- 2. True (A) or false (B):**
The characteristic clinical features of TB, i.e. fever >2 weeks, persistent cough >2 weeks and failure to thrive in the preceding 3 months are less useful in HIV-infected than uninfected children.
- 3. True (A) or false (B):**
South African policy is that all newborns should be vaccinated with BCG because of the high overall burden of TB.

THE PROGRESSION OF TB DIAGNOSIS IN THE HIV ERA

- 4. The GeneXpert (GX) MTB/RIF assay is (choose one):**
 - A. A fully integrated, automated nucleic-acid-amplification test
 - B. Able to successfully diagnose approximately 75% of smear-negative culture-positive TB
 - C. Able to provide a result within 2 hours
 - D. Going to replace smear microscopy as the frontline TB diagnostic tool in South Africa
 - E. All of the above.
- 5. Which one of the tests below can provide rapid drug susceptibility testing in a smear-positive patient with suspected MDR-TB in South Africa?**
 - A. Mycobacterial growth in tube (MGIT) liquid culture GX assay
 - B. Genotype MTBDR *plus* assay
 - C. Microscopic observed drug susceptibility (MODS)
 - D. Either B or C.
- 6. True (A) or false (B):**
The point-of-care urine LAM Ag rapid test offers potential as a 'rule-in' test for all TB patients.

A PRACTICAL APPROACH TO THE DIAGNOSIS AND MANAGEMENT OF PARADOXICAL TB-IRIS

- 7. Regarding the incidence of paradoxical TB-IRIS in HIV-infected TB patients who start ART, one of the following statements is correct:**
 - A. Paradoxical TB-IRIS occurs in over 50% of such patients
 - B. A recent meta-analysis reported that paradoxical TB-IRIS occurs in approximately 5% of such patients
 - C. Paradoxical TB-IRIS is more common in patients who have higher CD4 counts prior to ART
 - D. A recent meta-analysis reported that paradoxical TB-IRIS occurs in approximately 15% of such patients
 - E. Paradoxical TB-IRIS is uncommon in patients with disseminated TB.
- 8. True (A) or false (B):**
Prednisone should be started to treat paradoxical TB-IRIS as soon as the diagnosis is considered.

INTENSIFIED TUBERCULOSIS CASE FINDING AMONG HIV-INFECTED INDIVIDUALS

- 9. True (A) or false (B):**
Individuals who do not report any of the following symptoms: current cough, fever, weight loss or night sweats, are unlikely to have active TB.

- 10. True (A) or false (B):**
The WHO guidelines recommend that HIV-infected children with poor weight gain, fever, current cough or contact history with a TB case should be evaluated for TB.

TB AND HIV CO-INFECTION: WHEN TO START ART

- 11. True (A) or false (B):**
Rifampicin is the anti-TB agent with the greatest potential for drug-drug interactions with non-nucleoside and protease inhibitor antiretrovirals.
- 12. True (A) or false (B):**
Immediate ART (within 2 weeks) improves survival in patients with advanced AIDS.

INTO THE GREAT UNKNOWN – TREATING DRUG-RESISTANT TB AND HIV

- 13. True (A) or false (B):**
In an HIV-infected patient who has MDR-TB, the time to start antiretroviral therapy is within two weeks of starting TB treatment.
- 14. True (A) or false (B):**
XpertMTB is a new molecular diagnostic test for TB and does not require a bio-safety cabinet.

TB EPIDEMIOLOGY IN HIV-PREVALENT SETTINGS

- 15. True (A) or false (B):**
Patients on antiretroviral therapy still have a substantially higher risk of developing TB disease compared with HIV-uninfected patients.
- 16. True (A) or false (B):**
Point of care TB diagnostics is not one of the 2008 WHO STOP TB Partnership's basic strategies for improved HIV/TB services.

PHARMACOKINETIC INTERACTIONS BETWEEN ARVs AND RIFAMPICIN-BASED TUBERCULOSIS TREATMENT

- 17. True (A) or false (B):**
When starting a woman who has been taking rifampicin-based tuberculosis treatment for a month on antiretroviral therapy, nevirapine should be commenced at the usual starting dose.
- 18. True (A) or false (B):**
A 4-year-old child is taking ritonavir-boosted lopinavir as part of his antiretroviral therapy regimen. He is diagnosed with pulmonary TB and started on rifampicin-based TB treatment. His dose of ritonavir-boosted lopinavir should be doubled for the duration of TB treatment.

THE PRINCIPLE OF CONTEXT IN FAMILY MEDICINE

- 19. True (A) or false (B):**
According to Ian R McWhinney, to explore the exceptional potential in the consultation and to understand your patient fully you have to explore the context of the patient presentation.
- 20. True (A) or false (B):**
The sub-system in terms of the family systems hierarchy includes the community, family and spouse.