



OBJECTIVES

Upon completion of this training, participants will be able to:

- 1) describe the basic pathophysiology and transmission of tuberculosis and use this knowledge to inform clinical care
- 2) identify key populations at risk for tuberculosis infection and tuberculosis disease based on current epidemiology data to inform prioritization of populations for testing and treatment in the U.S.
- 3) recognize the most common pulmonary and systemic signs and symptoms of tuberculosis to more effectively diagnose tuberculosis disease
- 4) apply CDC's national guidelines on use of rapid diagnostics for tuberculosis to optimize early diagnosis and reduce disease transmission
- 5) initiate treatment based on radiologic findings, lab results, risk factors and symptoms to optimize clinical outcomes
- 6) list three common technical issues one should assess when reading a chest radiograph that will allow practitioners to make a more accurate diagnosis based on these readings
- 7) identify the typical patterns suggestive of tuberculosis on plain chest radiographs that should alert practitioners to "think TB" leading to more timely and appropriate evaluations of tuberculosis suspects
- 8) apply the general principles of tuberculosis treatment to best evaluate and ensure appropriate treatment for tuberculosis
- 9) utilize interventions to prevent transmission of tuberculosis in health care facilities to protect healthcare workers who work with tuberculosis patients
- **10)** apply the three levels of TB Infection Control Measures described in the CDC Guidelines to protect healthcare workers, patients, and visitors from airborne tuberculosis
- **11)** anticipate drug-drug interactions involving anti-mycobacterials, HIV medications, and immunosuppressants to optimize therapy
- **12)** recognize and diagnose immune reconstitution inflammatory syndrome (IRIS) to improve patients' safety and quality of life during therapy
- 13) address timing of antiretroviral or immunomodulatory therapy during TB treatment to improve outcomes related to other conditions
- **14)** list at least 4 extrapulmonary manifestations of TB and potential approaches to confirm the diagnosis)

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- **15)** explain the key differences in clinical presentation, infectiousness, and diagnosis (including interpretation of x-rays) in children versus adults to best evaluate and ensure timely diagnosis in this population
- **16)** state the differences in treatment of TB and LTBI in children as compared to adults to achieve optimum pediatric patient outcomes.
- 17) list techniques to make children's medication dosing more effective and implement these techniques in their pediatric patients
- **18)** explain factors which could lead to increased multidrug-resistant tuberculosis and how best to prevent and decrease the possibilities
- 19) describe the rationale for the multidrug-resistant tuberculosis treatment guidelines and apply them to achieve optimal patient outcomes
- **20)** describe how to adjust tuberculosis treatment for patients with hepatic and renal impairment to improve patient safety during treatment
- 21) explain tuberculosis treatment for pregnant patients to optimize the best outcomes for this population

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