

# TB Unit 3: Diagnosis

## Activity Sheet: Identifying Latent and Active TB Infections

1. For each of the following images indicate
  - a) the test it represents
  - b) whether the test is for latent or active TB and
  - c) briefly describe how the test works.

<p style="text-align: center;"><b>Symptoms of Tuberculosis</b></p> <p>Legend:        Grey lines = More specific        Colored lines = Overlapping</p>	<p>a) Patient History / Symptoms</p> <p>b) Active</p> <p>c) The doctor discusses with the patient how they have been feeling, recent trips or contact with other sick people, and family history in order to decide whether tuberculosis is a likely fit for the patient's signs and symptoms.</p>
<p style="text-align: center;">CDC PHIL #4428, CDC/Dr. George Kubica</p>	<p>a)</p> <p>b)</p> <p>c)</p>
<p style="text-align: center;">CDC PHIL #6806, CDC/Gabrielle Benenson</p>	<p>a)</p> <p>b)</p> <p>c)</p>



2. You're the Doctor! Below you will find a number of test results. Consider these results carefully to decide whether your patient has active TB, latent TB, or no TB infection, and/or whether you would like to conduct another test to verify your diagnosis.

a) Patient A is complaining of night sweats, weakness, and of coughing up blood. She is a 34 year old immigrant from South Africa whose husband was recently diagnosed with active TB.

b) Patient B had a positive skin test, so you collected a sputum sample and sent it to the lab. The lab technicians report seeing acid-fast bacilli under the microscope.

c) Patient C has applied to immigrate to Canada. As required, they have provided an x-ray of their lungs for examination. The x-ray shows some scarring and calcifications in the upper lungs.

d) Patient D presented with the classic signs and symptoms of tuberculosis, so you drew a blood sample and sent it to the lab for testing. Results show that a significant amount of interferon-gamma was released upon testing.

e) Patient E presented with a persistent fever and cough after travelling in South America for three months. You gave a skin test that had a negative result. The cough and fever went away after a 2 week course of antibiotics and have not returned in the past six months.

f) Patient F was treated with antibiotics for TB two years ago. Recently they have complained of persistent cough and a pain in their chest. You collect a sputum sample and send it to the lab for culture. Results show the presence of *Mycobacterium tuberculosis*.