Use this tool to identify asymptomatic adults for latent TB infection (LTBI) testing.

Re-testing should only be done in persons who previously tested negative, and have new risk factors since the last assessment.

For TB symptoms or abnormal chest x-ray consistent with active TB disease → Evaluate for active TB disease. Evaluate for active TB disease with a chest x-ray, symptom screen, and if indicated, sputum AFB smears, cultures and nucleic acid amplification testing. A negative tuberculin skin test or interferon gamma release assay does not rule out active TB disease.

Check appropriate risk factor boxes below.

LTBI testing is recommended if any of the 3 boxes below are checked.

If LTBI test result is positive and active TB disease is ruled out, LTBI treatment is recommended.

- **Foreign-born** person from a country with an elevated TB rate
  - Includes any country other than the United States, Canada, Australia, New Zealand, or a country in western or northern Europe
  - If resources require prioritization within this group, prioritize patients with at least one medical risk for progression (see User Guide for list)
  - Interferon Gamma Release Assay is preferred over Tuberculin Skin Test for foreign-born persons

- **Immunosuppression**, current or planned
  - HIV infection, organ transplant recipient, treated with TNF-alpha antagonist (e.g., infliximab, etanercept, others), steroids (equivalent of prednisone ≥15 mg/day for ≥1 month) or other immunosuppressive medication

- **Close contact** to someone with infectious TB disease at any time

See the California Adult Tuberculosis Risk Assessment User Guide for more information about using this tool.

Provider: ________________________________

Patient Name: ________________________________

Assessment Date: ________________________________

Date of Birth: ________________________________ (Place sticker here if applicable)

To ensure you have the most current version, go to the PROVIDERS page at www.ctca.org

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Avoid testing persons at low risk
Routine testing of low risk populations is not recommended and may result in unnecessary evaluations and treatment because of falsely positive test results.

Prioritize persons with risks for progression
If health system resources do not allow for testing of all foreign-born persons from a country with an elevated TB rate, prioritize patients with at least one of the following medical risks for progression:
- diabetes mellitus
- smoker within past 1 year
- end stage renal disease
- leukemia or lymphoma
- silicosis
- cancer of head or neck
- intestinal bypass/gastrectomy
- chronic malabsorption
- body mass index ≤20
- history of chest x-ray findings suggestive of previous or inactive TB (no prior treatment). Includes fibrosis or non-calcified nodules, but does not include solitary calcified nodule or isolated pleural thickening. In addition to LTBI testing, evaluate for active TB disease.

Local recommendations
Local recommendations and mandates should also be considered in testing decisions. Local TB control programs can customize this risk assessment according to local recommendations. Providers should check with local TB control programs for local recommendations.

Directory of TB Control Programs:
http://www.ctca.org/index.cfm?fuseaction=page&page_id=5071

Mandated testing and other risk factors
Several risk factors for TB that have been used to select patients for TB screening historically or in mandated programs are not included among the 3 components of this risk assessment. This is purposeful in order to focus testing on patients at highest risk. However, certain populations may be mandated for testing by statute, regulation, or policy. This risk assessment does not supersede any mandated testing. Examples of these populations include: healthcare workers, residents or employees of correctional institutions, substance abuse treatment facilities, homeless shelters, and others.

Age as a factor
Age (among adults) is not considered in this risk assessment. However, younger adults have more years of expected life during which progression from latent infection to active TB disease could develop. Some programs or clinicians may additionally prioritize testing of younger foreign-born persons when all foreign-born are not tested. An upper age limit for testing has not been established but could be appropriate depending on individual patient TB risks, comorbidities, and life expectancy.

Children

Foreign travel
Travel to countries with an elevated TB rate may be a risk for TB exposure in certain circumstances (e.g., extended duration, likely contact with infectious TB cases, high TB prevalence of TB in travel location, non-tourist travel).

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United States Preventive Services Task Force
The USPSTF has recommended testing persons born-in or former residents of a country with an elevated tuberculosis rate and persons who live in or have lived in high-risk congregate settings such as homeless shelters and correctional facilities. Because the increased risk of exposure to TB in congregate settings varies substantially by facility and local health jurisdiction, clinicians are encouraged to follow local recommendations when considering testing among persons from these congregate settings. USPSTF did not review data supporting testing among close contacts to infectious TB nor among persons who are immunosuppressed because these persons are recommended to be screened by public health programs or by clinical standard of care.
When to repeat a test
Re-testing should only be done in persons who previously tested negative, and have new risk factors since the last assessment. In general, this would include new close contact with an infectious TB case or new immunosuppression, but could also include foreign travel in certain circumstances.

When to repeat a risk assessment
The risk assessment should be administered at least once. Persons can be screened for new risk factors at subsequent preventive health visits.

IGRA preference in BCG vaccinated
Because IGRA has increased specificity for TB infection in persons vaccinated with BCG, IGRA is preferred over the TST in these persons. Most persons born outside the United States have been vaccinated with BCG.

Previous or inactive tuberculosis
Chest radiograph findings consistent with previous or inactive TB include fibrosis or non-calcified nodules, but do not include a solitary calcified nodule or isolated pleural thickening. Persons with a previous chest radiograph showing findings consistent with previous or inactive TB should be tested for LTBI. In addition to LTBI testing, evaluate for active TB disease.

Negative test for LTBI does not rule out active TB disease
It is important to remember that a negative TST or IGRA result does not rule out active TB. In fact, a negative TST or IGRA in a patient with active TB can be a sign of extensive disease and poor outcome.

Symptoms that should trigger evaluation for active TB disease
Patients with any of the following symptoms that are otherwise unexplained should be evaluated for active TB disease: cough for more than 2-3 weeks, fevers, night sweats, weight loss, hemoptysis.

Decision to test is a decision to treat
Because testing of persons at low risk of LTBI should not be done, persons that test positive for LTBI should generally be treated once active TB disease has been ruled out with a chest radiograph and, if indicated, sputum smears, cultures, and nucleic acid amplification testing. However, clinicians should not be compelled to treat low risk persons with a positive test for LTBI.

Emphasis on short course for treatment of LTBI
Shorter regimens for treating LTBI have been shown to be more likely to be completed and the 3 month 12-dose regimen has been shown to be as effective as 9 months of isoniazid. Use of these shorter regimens is preferred in most patients. Drug-drug interactions and contact to drug resistant TB are frequent reasons these regimens cannot be used.

Shorter duration LTBI treatment regimens

<table>
<thead>
<tr>
<th>Medication</th>
<th>Frequency</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rifampin</td>
<td>Daily</td>
<td>4 months</td>
</tr>
<tr>
<td>Isoniazid + rifapentine*</td>
<td>Weekly</td>
<td>12 weeks</td>
</tr>
</tbody>
</table>

*The CDC currently recommends DOT for this regimen, however, preliminary data suggests that SAT is noninferior to DOT in the United States. Many clinicians are using SAT or modified DOT.