These guidelines are intended to be used as an educational aid to help clinicians make informed decisions about patient care. The ultimate judgment regarding clinical management should be made by the health care provider in consultation with their patient, in light of clinical data presented by the patient and the diagnostic and treatment options available. Further, these guidelines are not intended to be regulatory and not intended to be used as the basis for any disciplinary action against the health care provider.
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Preface

The following Guidelines have been developed by the California Department of Public Health (CDPH), Tuberculosis Control Branch (TBCB) and the California TB Controllers Association (CTCA). These Guidelines provide statewide recommendations for tuberculosis control in California. If these Guidelines are altered for local use, then the logo should be removed and adaptation from this source document acknowledged.

No set of guidelines can cover all individual situations that can and will arise. When questions arise on individual situations not covered by these guidelines, consult with your local TB Controller or TBCB.

Purpose

The overall goal of these guidelines is to promote prompt detection of tuberculosis (TB) disease among newly arriving immigrants and refugees and prevention of future cases.

Background

In 2013, almost one-quarter of foreign-born tuberculosis (TB) cases in the United States were diagnosed in California, and more than three quarters of all California cases were among the foreign-born. From 2009-2013, 35,168 of 118,498 (30 percent) new immigrants with a class B TB notification to the United States (US) had California as their destination (see Appendix 2 for tuberculosis classifications). Recommendations from the Centers for Disease Control and Prevention (CDC) and the Advisory Council for the Elimination of Tuberculosis (ACET) have emphasized the screening of immigrants and refugees from areas of the world with a high prevalence of TB as a critical opportunity for TB case detection and prevention. Overseas pre-immigration screening is a strategy to identify immigrants and refugees at risk for TB disease. This overseas screening and notification process is designed to exclude immigrants or refugees with infectious TB from entering the United States, and to ensure that recent arrivals with active or latent TB infection receive medical services and evaluation post-entry. The systematic and efficient implementation of the TB notification program in each jurisdiction will enhance the timely evaluation of immigrants and refugees for TB. The prompt treatment of any active TB cases discovered will protect the public by lessening the likelihood of TB transmission in the community.

It is essential for tuberculosis control programs to have an effective strategy for identification and evaluation of immigrants and refugees with TB notification. During 2005-2008, a total of 17,858 immigrants and refugees with a TB notification arrived in California, and three to seven percent were diagnosed with active TB within one year of arrival. However, following the implementation of enhanced overseas screening in 2007, the percentage of active TB cases was reduced by approximately two-thirds in Class B immigrants. These active TB cases now represent 1.0 percent of incident cases in California in 2014, and in California, 2.9 percent...
(2010-2014 average) of foreign-born TB cases diagnosed within a year of US arrival are persons with a TB notification.

In terms of the number of active TB cases detected, the yield of follow-up of persons with a TB notification (40 cases per 1000 immigrants evaluated) exceeds that of contact investigation (10 cases per 1000 contacts evaluated). TB notification follow-up also provides TB programs an important means to prevent future cases since approximately 40 percent of persons evaluated have inactive TB (TB4) or TB infection (TB2) for which treatment is indicated1. While this immigration screening program may not result in an immediate large decline in US cases, domestic follow-up of persons with TB notifications, including latent tuberculosis infection (LTBI) treatment, is highly cost-effective2.

**Overseas Screening and Treatment**

The CDC provides direction and technical assistance to panel sites throughout the world that are charged with medical screening of applicants for permanent residence in the US. The screening includes a TB assessment. The technical instructions (TIs) for screening and medical exam for TB are available at:

http://www.cdc.gov/immigrantrefugeehealth/exams/ti/panel/tuberculosis-panel-technical-instructions.html3. The revised TIs published in 2007 were implemented to increase the sensitivity of case detection through use of sputum culture in addition to smear. As of 2013, panel physicians in all countries are required to use the complete Cultures and Directly Observed Therapy (DOT) Tuberculosis Technical Instructions (CDOT TB TIs).

The countries using the CDOT TB TIs are listed with the date of adoption at


Below is a description of instructions for guiding panel physicians in TB screening procedures.

Under the 1991 CDC Technical Instructions for Tuberculosis Screening, applicants over the age of 14 received a chest radiograph (CXR) overseas before traveling to the United States. If the CXR suggested active TB, sputum smears were obtained.

In 2007, CDC released the updated and currently used CDOT TB TIs for TB assessment. A major change in the screening algorithm was that patients suspected to have TB based on the immigration CXR or clinical exam are required to have sputum smears, cultures, and susceptibility testing prior to traveling to the United States. Treatment is to be completed using DOT prior to immigration. Patients are not to be cleared for travel until sputum cultures are negative. In addition, those aged 2-14 are to be screened with tuberculin skin test (TST) or an Interferon gamma release assay (IGRA). If the reaction is 10 mm or greater or if the IGRA is positive, a CXR must be done; if active disease is ruled out, these children are classified as B2 (LTBI). Contacts to known cases in the applicant’s family or living group are also screened with TST or IGRA and classified as B3 (Appendix 2). The instructions for the 2007 TI are published at:

http://www.cdc.gov/immigrantrefugeehealth/exams/ti/panel/tuberculosis-panel-technical-instructions-faq.html. Appendix 1 shows the screening steps currently used under the 2007 CDOT TB TIs. The 2007 tuberculosis classifications are shown in Appendix 2.
Of note, the CDC guidance for panel physicians who conduct overseas screening differs significantly from the guidance for civil surgeons who screen persons already in the U.S. adjusting their visa status. The civil surgeon’s guidelines are available at http://www.cdc.gov/immigrantrefugeehealth/exams/ti/civil/tuberculosis-civil-technical-instructions.html.

Waivers

Persons with Class A conditions cannot enter the US unless they have a waiver. Infectious TB is a class A condition. The waiver provision allows applicants undergoing treatment for pulmonary or laryngeal tuberculosis to petition for entry. Waivers can be pursued by any immigrant or refugee who can show that they have a compelling medical or social reason for entry. The health officer in the receiving jurisdiction must agree to accept an individual with a waiver. Waivers are not frequently pursued. Applicants suspected of having culture negative tuberculosis disease do not need to obtain a waiver to enter the US.

Receipt of Class B TB notifications (B notification)

Local Health Jurisdictions (LHJ) may receive B notifications from a variety of sources including the following:

1. Electronic B notifications via the CDC web-based B notification reporting system
   Electronic Disease Notification (EDN)

2. Paper copies of B notifications and overseas medical forms mailed from California Department of Public Health/ Tuberculosis Control Branch (CDPH/TBCB)

3. Immigrants/refugees who walk in for evaluation without prior notice of B notification with or without their paperwork

4. Transfers from other jurisdictions and states (may be electronic or paper notification)

Domestic Follow-Up

When a person with Class A/B1 TB moves to the United States, the LHJ is notified electronically via the EDN. For jurisdictions not participating in the web-based notification network, notifications are typically received by mail or fax from their state health department. The immigrant is instructed by the staff at the federal quarantine station at the port of entry to report to the LHJ within one month of arrival.

Receiving Notifications and Reporting Domestic Outcomes: EDN

EDN is a national web-based system developed and supported by CDC that provides overseas TB screening and treatment information and domestic follow-up information. EDN is able to produce reports on individuals and groups of immigrants and refugees.

At quarantine stations, A/B notification paperwork is retrieved from applicants and sent to the CDC where the data are entered into EDN. The notification is then automatically sent to participating LHJs. The LHJs who have EDN access obtain necessary information.
electronically and contact the patient for an appointment. Domestic TB evaluation results are entered into EDN by participating local and state health department staff. EDN can be used to generate select reports and examine outcomes of TB evaluations. The Tuberculosis classification coversheet that comes with the A/B notification paperwork is shown in Appendix 3. The EDN B Notification follow-up worksheet, which is filled out by Local Health Jurisdictions to report domestic TB evaluation results, is included in Appendix 4.

**Recommendations for Follow-up and Assessment of Persons with Class B1/B2 Tuberculosis**

**Prioritization and Evaluation of Persons with Different B Notification Classes**

**Priority 1: Class A**

Persons who arrive with a class A waiver are persons with known infectious TB. This group represents the highest priority for prompt evaluation. This group is likely to remain a very small fraction of arrivers with TB notifications.

**Priority 2: Class B1**

The next priority for evaluation are persons with B1 classification. Priority group 2 includes untreated TB cases, culture-negative TB suspects, extrapulmonary TB, and treated TB cases that may relapse. Most of these individuals are infected with M. tuberculosis and have an abnormal chest radiograph. It is critical for programs to focus available resources on prompt evaluation of these persons.

**Priority 3: Classes B2 and B3**

The next priorities for evaluation are those with LTBI (Class B2) and contacts (Class B3).

**Ensuring Rapid Notification and Follow-up of Persons with TB Notifications**

A. Due to the mobility of many newly arrived immigrants and refugees, local TB program staff should attempt to locate and evaluate individuals as soon as possible following their arrival. Also, efforts to locate and evaluate individuals with B notification quickly are likely to be more cost effective than TB treatment and extensive contact investigations if they are later discovered to have disease.

1. LHJ staff should initiate follow-up within 14 days of receipt of notification.

2. If attempts to contact the new entrant are unsuccessful within 14 days, a home visit is recommended depending on LHJ resources and notification category priority.

B. Recommended activities for locating persons with TB notifications are as follows:

1. TB control and local health programs should use a variety of active outreach strategies to locate persons with TB notifications, depending on available resources,
which may include letters, telephone calls, and home visits. A sample letter from a TB program to a new arriver with a TB notification is shown in Appendix 5.

2. Effective communications can promote greater patient trust and improve evaluations and treatment outcomes. Thus the following should be considered when making contact with the patients:
   a. Outreach strategies should consider the language and cultural needs of newly arrived persons. For example, whenever possible, public health staff who speak the person’s primary language should telephone the new arrival. (Note. The CDC notification form specifies country of birth).
   b. Any correspondence should ideally be written in English and the patient’s primary language.
   c. Public health staff who do not speak the patient’s language should be teamed with a trained and culturally sensitive interpreter whenever feasible.

3. If a person has moved, obtain new locating information (e.g., home address and telephone number, place of employment). LHJ staff may obtain this information from a variety of sources, including the person’s sponsor, family members, the local post office, community based organizations, or voluntary agencies. If locating information is missing, the program may contact TBCB for assistance. Information collected on movement should be entered into EDN or sent to TBCB and the destination county.

4. If the person has already returned to his/her country, ask sponsor/family/friends to notify LHJ staff if the person returns to the U.S. In some LHJs, staff will periodically (e.g. monthly for six months) call or visit the person’s family or friends to determine if (s)he has returned. This is dependent on LHJ resources and priority of TB notification category. The information should be relayed to TBCB and CDC via EDN.

5. For high priority persons, LHJ staff can use incentives (e.g., grocery vouchers, etc.) to improve adherence with follow-up.

6. If the individual cannot be located or fails to make contact with the health department or refuses examination, the LHJ should consider requesting, where available, the assistance of local or state public health field investigators, voluntary agencies, and community-based organizations. LHJs may also consider using legal orders if a TB suspect requires evaluation.

Ensuring Adequate Evaluation and Treatment of Persons with TB notifications

The primary goal of the evaluation of immigrants with A/B classification is to ensure that all active TB cases are identified. A secondary goal is to identify persons with LTBI who are eligible for treatment to prevent progression to active disease.
In many LHJs immigrants and/or refugees with TB notifications are evaluated at local TB program or refugee clinics. When this is not possible, the LHJ should work with the private sector to assure evaluations are performed according to latest recommendations. Domestic evaluations of newly arrived immigrants should also be guided by and based on an understanding of the overseas TIs and the implications of follow-up for the control of TB in the U.S.

A. **Evaluation of individuals with any B notification should include:**

1. Review of the overseas paperwork and patient interview to determine pertinent history, including known TB exposures, any current TB symptoms, treatment, and any testing performed for TB disease and TB infection and relevant co-morbidities.
2. Review of overseas CXR(s) and sputum smears/cultures.
3. Identification of missing or incomplete paperwork. Missing information should be noted, and additional information sought from the appropriate Panel physicians via CDPH and CDC. Please contact the CDPH TB B Notification Epidemiologist with these requests.
4. Perform an evaluation that includes sputum cultures on all immigrants and refugees with an abnormal CXR suggestive of TB. This is of paramount importance to identify active TB and interrupt transmission.

B. **Specific evaluation recommendations:**

1. **Culture-proven TB, treated overseas (pre-entry):** Culture-proven TB must be treated to completion following US standards of treatment, under conditions of DOT. However, circumstances may exist where the exact treatment conditions cannot be verified in the country of origin. Until sufficient data becomes available on newly arriving immigrants treated and screened overseas, a cautious approach to evaluation is recommended, as follows:

   a. Assess the adequacy of overseas information (e.g. completeness of DOT documentation; appropriateness of treatment regimen for susceptibility pattern; documentation of culture conversion, etc.) Determine whether DOT was provided by panel site or provider outside of the panel site as the quality of DOT may vary by provider.

   b. Evaluate for current symptoms and perform a physical examination.

   c. If overseas treatment appears adequate (e.g. consistent with American Thoracic Society standards) and the patient is without signs or symptoms of active disease:

      i. Repeat CXR if more than three months have elapsed since overseas CXR or if the immigrant is human immunodeficiency virus (HIV) positive, immune suppressed, less than five years old, or if the overseas CXR is of poor quality or is unavailable.
ii. Collect three specimens for smear and culture on all patients with prior TB treatment. At this time the long term effectiveness of treatment at different panel sites is not known, and since relapse rates may exceed three percent, domestic follow-up including culture of new arrivers treated for TB overseas is recommended.

iii. If CXR has worsened and suggests TB, start treatment and implement appropriate isolation measures.

iv. For those not started on TB treatment, schedule a follow-up appointment to repeat CXR, sputum cultures and evaluate for relapse. Repeat CXR and sputum cultures during the 6 – 12 month period following U.S. arrival at the intervals suggested below.
   - For patients with non-extensive, non-multidrug resistant (MDR) TB disease treated prior to US entry, a follow-up appointment at one year post-arrival is recommended if resources permit.
   - Follow-up evaluations every six months for two years are recommended if TB was extensive or multiple drug-resistant. Extensive disease is defined as bilateral, cavity, multilobar pulmonary disease or disseminated to multiple noncontiguous sites. These evaluations should include collection of two sputum specimens at six-month intervals.

v. Immigrants should also be instructed regarding signs and symptoms of active TB and where to seek follow-up care, as needed.

d. If overseas TB treatment was not adequate or is not fully documented:
   i. Repeat CXR.
   ii. Collect three sputum samples for smear and culture.
   iii. Follow-up: if sputa are all culture negative and treatment is not started follow-up evaluations at six month intervals for one year (for patients with a history of non-extensive, non-MDR TB), or two years (for patients with a history of extensive or MDR TB) is recommended; and may include collection of two sputum specimens at six-month intervals.
   iv. Immigrants should also be instructed regarding signs and symptoms of active TB and where to seek follow-up care, as needed.

2. Active TB, not treated overseas: Immigrants with class B1 TB may travel prior to treatment if they are culture negative or are suspected of extrapulmonary TB only.
   a. For suspected extrapulmonary TB
      i. Evaluate for current signs and symptoms.
ii. Perform or refer for appropriate diagnostic testing (e.g. lymph node biopsy for cervical adenitis).

iii. Have a low threshold to repeat CXR.

iv. Start treatment based on clinical assessment and specimen results.

b. For suspected pulmonary TB

i. Evaluate for current signs and symptoms.

ii. Repeat CXR.

iii. If CXR is abnormal and consistent with possible TB, collect three sputum exams for smear and culture.

iv. Start treatment based on results of clinical assessment and/or culture results.

v. If treatment is not started, patients should be reassessed when culture results become final to assess disease class/activity.

c. If active TB is ruled out by negative cultures and CXR is stable, LTBI treatment should be considered. Decisions about treatment for LTBI will depend on TST or IGRA findings, risk factors for TB progression, and adequacy of any prior treatment, if applicable. If LTBI treatment is not started, patient should be educated about signs and symptoms of TB and risk of future TB. Guidelines on testing and treatment for LTBI are available at [http://www.ctca.org/fileLibrary/file_61.pdf](http://www.ctca.org/fileLibrary/file_61.pdf).

d. If suspicion for active TB remains after negative cultures, empiric treatment for clinical TB with four anti-TB drugs should be considered, with reassessment performed at two to three months to determine whether there has been clinical response to TB treatment.

3. **Latent TB Infection**: Children 2-14 years of age who have a TB skin test measuring >10mm or are IGRA positive and whose CXRs show no evidence of active TB are classified as B2, LTBI.

a. For arrivers with class B2, LTBI, consider repeating CXR under the following circumstances:

i. If >3 months has passed since the overseas CXR, repeat CXR if the patient is a child <5 years of age, is immunocompromised, or has symptoms of TB.

ii. If >6 months has passed since the overseas CXR, repeat CXR if LTBI treatment will be started.

b. Programs may consider the following options for follow-up based on a patient’s risk for TB progression and accessibility of testing and program resources:

i. Option 1. Treat for LTBI based on overseas TST result.
ii. Option 2. Test with IGRA.

- If IGRA is positive, treat for LTBI.
- If IGRA is negative, do not treat.
- Specific factors to consider in treatment decisions include: TST induration >15 mm, overseas BCG vaccination, time since BCG vaccine, recent TB exposure, and risk factors for TB progression.

c. For children <15 years old with class B2, LTBI may be referred to private providers for evaluation and treatment based on public health priorities and resources. Ideally the health department would pursue obtaining the final American Thoracic Society (ATS) classification from the private provider and would provide recommendations for LTBI treatment and monitoring as needed.

4. Contacts: Persons with a B3 classification are persons who had close household exposure to a smear or culture-confirmed pulmonary case of TB and a TST ≥5mm or a positive IGRA or have a TST < 5mm/ negative IGRA but have not yet had repeat testing at eight weeks post-exposure. Contacts <3 years old or immunocompromised contacts may have started LTBI therapy prior to immigration.

Immigrants with a B3 classification should be interviewed regarding timing, setting, and last date of exposure. Review information about the suspected source case including smear, culture and susceptibility results.

a. If exposure is confirmed or appears likely, and the TST ≥5mm or the IGRA is positive, treat for LTBI as per current recommendations and based on suspected source case susceptibilities.

b. If source case information is not available, contact the TBCB to retrieve available information from the CDC.

c. If exposure is not confirmed or seems unlikely and the TST ≥10 mm or the IGRA is positive, proceed as described in “Latent TB Infection” section above (Page 10, section B.3 and guidelines on testing and treatment for LTBI at http://www.ctca.org/fileLibrary/file_61.pdf). Decisions to offer LTBI treatment should be based on local resources and priorities.

d. If an IGRA is performed and the result is negative in BCG vaccinated individuals with a positive TST, some programs may elect not to treat.

e. Window prophylaxis is not indicated for most immigrants with a B3 classification, since the time following overseas TB exposure has frequently exceeded 10 weeks.
C. Tracking and Managing Information

LHJs should establish a mechanism to effectively log, track, and evaluate B notification follow-up. To accomplish this, it is generally helpful to receive and process TB notifications and follow-up information in a central coordinating location. High morbidity LHJs may find it helpful to designate one person such as a TB notification clerk to be the central contact person. In jurisdictions where there is a separate refugee program, it may act as a separate collection and coordinating point for refugees.

Those programs who participate in EDN for notification and reporting in California may utilize EDN for tracking and reporting. Health departments that do not participate in EDN receive notifications by fax or mail from TBCB. Domestic evaluations should be returned to TBCB by EDN, fax or mail, within 90 days of U.S. entry.

Outcome Reporting

All LHJs should evaluate their performance in meeting objectives. To accomplish this, LHJ staff may want to record and track all TB notifications received in a registry or log. The EDN reporting system also allows for data output and creation of a log/registry. Documentation should reflect information that will be evaluated or otherwise meets local needs and may include the information in Appendix 8. LHJs that participate in EDN can produce indicator reports and TB evaluation outcomes to examine timeliness of evaluation and reporting.

National and State Standards for Follow-Up and Evaluation

National Indicators
CDC/NTCA (National Tuberculosis Controllers Association) workgroup has proposed national indicators for TB Notification follow up, which are detailed in Appendix 6.

TB Notification Goal
All newly arrived refugees and immigrants with Class A/B1 TB will receive thorough and timely TB evaluations and appropriate treatment to ensure prompt detection of TB disease and prevention of future cases.

TB Notification Objectives
LHJs should set realistic local objectives for the domestic evaluation indicators in Appendix 7 and measure program performance against these established targets on at least an annual basis.
Resources

1. Link to EDN Frequently Asked Questions (FAQs)

2. Points of contact for assistance with EDN
   EDN Help desk – CDC
   Telephone: (866) 226-1617
   Email: edn@cdc.gov

   Assistance – TBCB
   TB Notification Epidemiologist
   Surveillance and Epidemiology Section
   Telephone: (510) 620-3000

3. Troubleshooting/Questions about B Notification and EDN
   The EDN helpdesk should be contacted for assistance with the following types of questions/problems:
   - Expired password
   - System performance (i.e. EDN system runs slowly or crashes)
   - Obtaining access to CDC’s Secure Access Management System (SAMS) where EDN is housed

   The TBCB should be contacted for assistance with the following types of questions/problems:
   - Missing Department of State (DS) forms (DS) (DS-2053, DS-2054, DS-3024, DS-3026, pre-immigration cover sheet) for B-notification arrivers
   - Incomplete/incorrect information on the DS forms
   - Questions about using the functions in the EDN system
   - Requests for training for EDN users at local health jurisdictions
   - Requests to add or remove EDN users at a local health jurisdiction
   - Requests for assistance with transferring EDN records between health jurisdictions
References


3. CDC. Notice to Readers: Revised Technical Instructions for Tuberculosis Screening and Treatment for Panel Physicians. MMWR Weekly March 21, 2008; 57(11); 292-293. http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5711a5.htm

Appendix 1

Tuberculosis screening medical examination for applicants in countries with a WHO-estimated tuberculosis rate of ≥ 20 cases per 100,000 population

Source: CDC Immigration Requirements: Technical Instructions for Tuberculosis Screening and Treatment 2007

For applicants 2 – 14 years of age:
- Medical history
- Physical examination
- Tuberculin skin test or IGRA
- TST ≥10 mm or IGRA positive

For applicants ≥15 years of age:
- Medical history
- Physical examination
- Chest radiograph
- Medical history, examination, or chest radiograph suggestive of tuberculosis or HIV infection
- Three sputum smears and cultures for Mycobacterium tuberculosis
- Drug susceptibility testing of positive cultures
Appendix 2

2007 Tuberculosis Classifications and Descriptions

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No TB Classification</td>
<td>Applicants with normal tuberculosis screening examinations.</td>
</tr>
<tr>
<td>Class A TB With waiver</td>
<td>All applicants who have tuberculosis disease and have been granted a waiver.</td>
</tr>
<tr>
<td>Class B1 TB Pulmonary</td>
<td>• No treatment</td>
</tr>
<tr>
<td></td>
<td>- Applicants who have medical history, physical exam, HIV, or CXR findings suggestive of pulmonary tuberculosis but have negative AFB sputum smears and cultures and are not diagnosed with tuberculosis or can wait to have tuberculosis treatment started after immigration</td>
</tr>
<tr>
<td></td>
<td>- Completed treatment</td>
</tr>
<tr>
<td></td>
<td>- Applicants who were diagnosed with pulmonary tuberculosis and successfully completed TB treatment with directly observed therapy prior to immigration</td>
</tr>
<tr>
<td>Class B1 TB Extrapulmonary</td>
<td>Applicants with evidence of extrapulmonary tuberculosis. Document the anatomic site of infection.</td>
</tr>
<tr>
<td>Class B2 TB LTBI Evaluation</td>
<td>Applicants who have a tuberculin skin test ≥10 mm or a positive IGRA but otherwise have a negative evaluation for tuberculosis.</td>
</tr>
<tr>
<td>Class B3 TB Contact Evaluation</td>
<td>Applicants who are a recent contact of a known tuberculosis case.</td>
</tr>
</tbody>
</table>

Source: CDC Immigration Requirements: Technical Instructions for Tuberculosis Screening and Treatment 2007
**Appendix 3  Tuberculosis Classification Cover Sheet**

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Alien Number</th>
<th>Birth Date (mm/dd/yyyy)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Check all applicable classifications and subcategories*  

- **No TB Classification**
- **Class A TB with waiver**
- **Class B1 TB, Pulmonary**
  - No treatment
  - Completed treatment (check all that apply)
    - Initial smear positive
    - Initial culture positive
    - Pre-treatment culture and DST results performed/available
    - Pre-treatment culture and/or DST results not performed/available
- **Class B1 TB, Extrapulmonary**  Anatomic site of disease: __________________________
  - No treatment
  - Current treatment
  - Completed treatment
- **Class B2 TB, LTBI Evaluation**
  - TST ≥10 mm (or ≥5 if HIV positive): ______ mm induration
    - Not started on LTBI treatment
    - Currently on LTBI treatment (*medications*): __________________________
    - Completed LTBI treatment (*medications*): __________________________
- **Class B3 TB, Contact Evaluation**
  - TST Result: ______ mm induration
    - Not started on preventive treatment
    - Currently on preventive treatment (*medications*): __________________________
    - Completed preventive treatment (*medications*): __________________________

Source case:  
- Name __________________________
- Alien Number __________________________  Relationship to contact __________________________

Type of source case TB (mark only one):
- Pansusceptible TB
- MDR TB (resistant to at least INH and rifampin)
- Drug-resistant TB other than MDR TB
- Culture negative
- Culture results not available

- □ TST conversion

Name of Panel Physician | Signature of Panel Physician | Date (mm/dd/yyyy) |
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
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*Applicants may have more than one designated classification, e.g., they may be Class B1 Extrapulmonary, Class B2 TB, LTBI Evaluation, and Class B3 TB, Contact Evaluation.*
Appendix 4

CDPH-CTCA Guidelines: Guidelines for the Follow-Up and Assessment of Persons with Class A/B Tuberculosis

2015
### EDN TB Follow-Up Worksheet (Cont)

<table>
<thead>
<tr>
<th>#</th>
<th>Date Collected</th>
<th>AFB Smear</th>
<th>Sputum Culture</th>
<th>Drug Susceptibility Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Positive</td>
<td>NTM</td>
<td>MDR-TB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Negative</td>
<td>MTB Complex</td>
<td>Mono-RIF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not Done</td>
<td>Contaminated</td>
<td>Mono-INH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unknown</td>
<td>Negative</td>
<td>Other DR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Not Done</td>
<td>No DR</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unknown</td>
<td>Not Done</td>
</tr>
</tbody>
</table>

### D. Evaluation Disposition

**D1. Evaluation disposition date:** 

**D2. Evaluation disposition:**

- Completed evaluation
- Initiated Evaluation / Not completed
- Did not initiate evaluation

**LTBI:**

- Yes
- No

**Active TB:**

- Lost to Follow-Up
- Moved within U.S.
- Moved outside U.S.
- Refused Evaluation
- Died
- Other, specify

### D3. Diagnosis

- Class 0 - No TB exposure, not infected
- Class 2 - TB infection, no disease
- Class 3 - TB disease
- Class 4 - TB, inactive disease

- Pulmonary
- Extra-pulmonary
- Both sites

### E. U.S. Treatment

**E1. U.S. treatment initiated:**

- Yes
- No
- Unknown

- Patient declined against medical advice
- Lost to follow-up
- Died
- Other, specify

- Patient moved within U.S.
- Other (specify)

**E2. Treatment start date:** 

**E3. U.S. treatment completed:**

- Yes
- No
- Unknown

- Patient stopped against medical advice
- Lost to follow-up
- Died
- Other, specify

- Provider decision
- Moved outside the U.S.
- Other (specify)

**E4. Treatment completion date:** 

**E5. Treatment end date:** 

### F. Comments

### G. Screen Site Information

- Provider's Name:
- Clinic Name:
- Telephone Number:

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CDPH-CTCA Guidelines: Guidelines for the Follow-Up and Assessment of Persons with Class A/B Tuberculosis

2015
Appendix 5

Sample letter from a TB program to a new arriver with a B notification waiver

[Insert Health Department Logo]

Date:

Dear:

Welcome to name of state!

We have been notified by the Centers for Disease Control and Prevention’s Division of Global Migration and Quarantine through the Bureau of Immigration and Customs Enforcement* that you are now residing in name of jurisdiction and we are requiring that you have a medical evaluation for tuberculosis within the next two weeks.

Please report to the Tuberculosis Clinic, address for clearance of your tuberculosis waiver on date at time.

Our clinic hours are: clinic hours

Please bring this letter, all x-ray films and any medical forms that you have with you.

If you have already reported to this clinic or if you need to change your appointment, please call phone number.

Sincerely,

Name of Sender

Title of Sender

Name of TB Control Program

* Formerly the INS
Appendix 6

National Indicators

Sentinel indicators
Used to measure significant breakdown in the Class A/B notification system. A protocol should be developed for notifying the CDC Division of Global Migration and Quarantine of these events, as they occur. These sentinel events should prompt a trace-back of the overseas medical examination to determine how these events could be minimized, or eliminated, in the future.

Notification indicators
Used to assess the timeliness and completeness of providing notifications to state and local health jurisdictions.

Follow-up evaluation indicators
Used to assess the timeliness and completeness of performing follow-up evaluations by state and local health jurisdictions.

Outcome indicators
Used to assess the contribution of class A/B1/B2 arrivals to the total burden of treatment of disease and infection, as per American Thoracic Society (ATS) TB Classification 2,3, or 4, and were started on therapy.

Indicators for the National Tuberculosis Indicators Project (NTIP)

Examination of Immigrants and Refugees – National Objectives

1. Immigrants and Refugees with Abnormal Chest X-rays Read Overseas as Consistent with TB Who Initiated Medical Examination Within 30 Days of Notification

For immigrants and refugees with abnormal chest radiographs (x-rays) read overseas as consistent with TB, increase the proportion who initiate medical examination within 30 days of notification to 84% by 2020.

2. Immigrants and Refugees with Abnormal X-rays Read Overseas as Consistent with TB Who Completed Medical Examination Within 90 Days of Notification

For immigrants and refugees with abnormal chest x-rays read overseas as consistent with TB, increase the proportion who complete a medical examination with 90 days of notification to 76% by 2020.
3. Treatment Initiation for Immigrants and Refugees Who Are Diagnosed with Latent TB Infection (LTBI) or Inactive TB Disease and Recommended for Treatment on the Basis of U.S. Examination

For immigrants and refugees with abnormal chest x-rays read overseas as consistent with TB who are diagnosed with LTBI or inactive TB disease and recommended for treatment on the basis of examination in the United States, increase the proportion who start treatment to 93% by 2020.

4. Treatment Completion for Immigrants and Refugees Who Are Diagnosed with Latent TB Infection (LTBI) or Inactive TB Disease and Recommended for Treatment on the Basis of U.S. Examination and Have Started Treatment

For immigrants and refugees with abnormal chest x-rays read overseas as consistent with TB who are diagnosed with LTBI or inactive and recommended for treatment on the basis of examination in the United States, and have started on treatment, increase the proportion who complete treatment to 83% by 2020.
Appendix 7

National Objectives for Domestic Follow-up/Evaluation and Outcome Indicators

1. At least 90% of persons entering the jurisdiction with Class A or B1 TB will receive an initial evaluation for TB disease/infection within one month of receipt of B notification.

2. At least 90% of Classes A and B1 – B3 will have domestic TB evaluation form (EDN worksheet) submitted to TBCB (or entered into EDN) within 90 days of arrival.

3. At least____ % of persons entering the jurisdiction with Class A/B1 TB who have inactive disease (TB4) and who are eligible for treatment of latent infection will start treatment.

4. At least____% of persons entering the jurisdiction with Class A/B1 TB who have inactive disease (TB4) and who initiate treatment of latent infection will complete it.

5. At least____ % of persons entering the jurisdiction with Class A/B1 TB who are infected without disease (TB2) and who are eligible for treatment of latent infection will start treatment.

6. At least_____% of persons entering the jurisdiction with Class A/B1 TB who are infected without disease (TB2) and who initiate treatment of latent infection will complete it.
Appendix 8

Outcome Reporting: Recommended Documentation

1. Date notification received
2. Date person arrived in the U.S.
3. Name/age/country of origin/address/telephone number
4. Alien number - The Immigration and Naturalization Services alien number
5. Type of notification (A, B1, B2 or B3)
6. Date of initial medical evaluation in the U.S.
7. Number of days from arrival date to date of initial evaluation
8. Final ATS class
9. Time to complete evaluation
10. Report finalized and submitted to TBCB/CDC
Acknowledgements

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