Texas Tuberculosis Work Plan

Tuberculosis and Hansen’s Disease Branch

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# Texas Tuberculosis Work Plan
(Revised 8/31/20)

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I. Introduction

The Texas Tuberculosis (TB) Work Plan sets forth procedures established by the Texas Department of State Health Services (DSHS) Tuberculosis and Hansen’s Disease Branch (TB Branch) to ensure all TB programs receiving state funding or in-kind support from DSHS Public Health Regions (PHRs) achieve TB performance standards. The TB Work Plan:

- Serves as a prescriptive document to design and maintain a TB program;
- Outlines the expectations and responsibilities of all funded programs;
- Assures consistent TB prevention and care practices are applied throughout Texas; and
- Provides a blueprint to assess performance outcomes based on quality indicators.

Providing TB Services to Clients Regardless of Ability to Pay

Funded TB programs shall provide services without consideration of a client’s ability to pay. Local health department (LHD) TB programs requesting reimbursement for TB services should consider enrolling as a TB Medicaid Provider. To enroll, the LHD completes the DSHS Medicaid Provider Application located at, dshs.texas.gov/IDCU/disease/tb/forms/ and submits to the TB Branch for review and approval. Once approved, the TB Branch prepares an approval letter which the submitter must include in their submission to Texas Medicaid & Healthcare Partnership (TMHP) to begin the official Medicaid application process.

Funded TB programs shall not charge program-eligible clients for services supported by DSHS state and federal funds. Funded TB programs shall provide services to the following clients based on prioritization (See Table 1):

- People with probable or confirmed TB disease caused by *Mycobacterium tuberculosis* (*M. tb*) complex to include: *M. tb* and *M. bovis*. See dshs.texas.gov/IDCU/disease/tb/policies/Epi-Case-Criteria-for-TB.doc.
  1. *Mycobacterium bovis-Bacille Calmette-Guerin* (*M. bovis*-BCG) is not reportable to the Centers for Disease Control and Prevention (CDC). BCG, an attenuated strain of *M. bovis*, is widely used as an adjunctive therapy for superficial bladder cancer. Intravesical administration of BCG has been associated with systemic infection. Disseminated infection due to *M. bovis* is otherwise uncommon. The decision to use state funded resources (i.e. medications and personnel) to treat *M. bovis*-BCG should only be considered after consultation with a DSHS-recognized TB medical consultant or regional medical director.
  2. Patients who are closed as non-TB and identified as having *Mycobacterium avium* complex (MAC) or other nontuberculous mycobacteria (NTM) may not be treated using state-purchased
medications longer than 30 days. See Form TB-409 located at: dshs.texas.gov/idcu/disease/tb/forms.

B. Contacts to a person with probable or confirmed TB disease.

C. Immigrants referred to TB programs from the Electronic Disease Notification (EDN) System having A or B classifications for TB follow up (see Conduct Targeted Testing).

D. People at risk for developing TB disease (see Conduct Targeted Testing and Table 1).
Table 1. Prioritizing Evaluation for TB Services

<table>
<thead>
<tr>
<th>People who should be evaluated and treated by the TB program ROUTINELY</th>
<th>People who should be evaluated and treated by the TB program AS RESOURCES ALLOW</th>
<th>People who should NOT routinely be evaluated</th>
</tr>
</thead>
</table>
| • Anyone reported to the TB program in whom there is known or a suspicion of active TB disease.  
• Contacts to a person with pulmonary or laryngeal TB disease.  
• People reported to the TB program through the EDN, and immigrants from areas of the world with high rates of TB who are seeking permanent residence, after full evaluation from a Civil Surgeon.*  
• People reported to the TB program with a positive TB test and medical risk factors for developing TB disease, who do not have resources for medical care** outside the TB program. This most commonly includes but is not limited to people with HIV, on immunosuppressant medications or people taking tumor necrosis factor (TNF) alpha inhibitors.  
• Children aged 4 and younger with a positive TB test.  
• Children aged 5 and older with risk factors for TB exposure as identified on the Tuberculosis Questionnaire for Children (dshs.texas.gov/idcu/disease/tb/faqs/#students) and who have a positive TB screening test. | • Other foreign-born individuals not referred from EDN or a Civil Surgeon* seeking services for TB infection and who do not have resources for medical care** outside the TB program.  
• Children aged 5 and older who have not been tested with a tuberculin skin test (TST) or interferon gamma release assay (IGRA) but who were referred for evaluation based on having risk factors listed on the Tuberculosis Questionnaire for Children and do not have resources for medical care** outside the TB program.  
• Groups with high rates of TB transmission*, such as homeless people, injection drug users and others in high risk congregate settings, as determined by epidemiological data to support testing and treatment.  
• People who work or reside with other people at high risk for TB in facilities or institutions such as hospitals, homeless shelters, correctional facilities, nursing homes and residential homes for those with HIV, as determined by epidemiological data to support testing and treatment*. | • People with no known risk factors for TB infection or progression to TB disease. |

*refer to Conduct Targeted Testing  
**Resources for medical care include Medicare, Texas Health Steps providers, community sliding scale clinics and Federally Qualified Health Centers (FQHCs) that treat TB infection.
**TB Branch Responsibilities**

The TB Branch, also referred to as central office, administers TB program services in accordance with Texas Health and Safety Code Chapter 31, Primary Health Care by allocating funds to LHDs and DSHS PHRs to perform TB prevention and care activities statewide. The TB Branch establishes core elements to design a funded TB program, prepares and maintains standards of care, and develops methods to deliver appropriate services. The TB Branch provides laboratory support, medications, testing supplies, courier transport, nursing and medical consultation services to funded TB programs to enhance service delivery capacity.

The vision of the TB Branch is a Texas free of TB and the mission is to eliminate TB as a public health threat.

**The TB Branch performing programmatic activities will:**

A. distribute funds to LHDs and PHRs to maximize the delivery of authorized services to eligible clients;

B. monitor TB programs’ budget expenditures on a quarterly basis. If annual expenditures are consistently below projected amounts, the budget may be decreased;

C. provide expert nursing consultation;

D. oversee binational TB program activities;

E. develop standards for TB prevention and care in Texas;

F. monitor and evaluate TB programs’ progress towards performance objectives to determine effectiveness and compliance with essential TB prevention and care standards;

G. provide technical assistance on TB prevention and care;

H. work with the DSHS Pharmacy to ensure availability of medications and supplies to treat TB disease and infection;

I. provide Texas-specific TB training directly or in collaboration with the Heartland National TB Center (HNTC) and other partners;

J. oversee molecular epidemiology practices and provide technical assistance to investigate transmission patterns and cluster events;

K. oversee TB prevention and care in high risk populations, including correctional facilities, community corrections, homeless shelters, and other congregate settings;
L. oversee targeted testing initiatives;

M. develop and revise policies and regulations;

N. serve as liaison with CDC and other federal and state partners;

O. serve as point of contact for international activities involving TB prevention and care; and

P. conduct continuing quality improvement (CQI) activities.

The TB Branch performing surveillance and reporting activities will:

A. promote active surveillance activities among TB programs receiving state funding;

B. collect and analyze reporting data entered into the TB, HIV, STD Integrated Systems (THISIS);

C. serve as repository for TB data reported to DSHS;

D. collect and analyze reports from TB programs to satisfy TB grant requirements;

E. serve as point of contact for inter-jurisdictional patient transfers;

F. promote security and confidentiality standards for TB data exchanges;

G. prepare and report aggregate TB data to CDC;

H. prepare TB epidemiologic reports;

I. provide technical assistance to funded TB programs for accurate submittal of TB data to the TB Branch; and

J. serve as liaison for CDC’s Division for TB Elimination (DTBE) Surveillance Team.

State-Designated Case Registry Sites

The TB Branch reviews and performs quality assurance of data entered into THISIS by funded programs via state-designated case registries. A case registry is defined as a department in a regional or local TB program that maintains copies of medical records and reports, so they can submit required reporting variables directly to the TB Branch via state-approved reporting systems. State-designated registry sites are distributed among 29 reporting jurisdictions that consist of eight PHRs, 16 LHDs, 4 binational TB programs and Texas Department of Criminal Justice (TDCJ).

State-designated case registry sites will:
A. serve as the point of contact for TB programs, hospitals, private laboratories and other reporting entities within jurisdiction;

B. serve as repository for TB-related data from hospitals, private laboratories and other reporting entities within jurisdiction;

C. verify American Thoracic Society (ATS) classifications based on current TB Epidemiology Criteria and Surveillance Definitions Guide for probable and confirmed cases of TB and latent TB infection, before data entry;

D. submit notifications and updates for confirmed cases to the TB Branch according to set schedules in the Case Verification question package of THISIS (answer “yes” to “case submitted to the TB Branch” and include date);

E. serve as point of contact for intra/inter-jurisdictional patient transfers and update outcome within 30 days of receipt of the Interjurisdictional Notification (IJN) form;

F. provide data as listed on Form 340 and Form 341 for evaluation of contacts and verify ATS classification for the TB Branch to prepare and report contact aggregate data to CDC;

G. complete items in assigned workflows in THISIS or task those items to other staff within reporting jurisdiction;

H. collect and review Report of Verified Cases of TB (RVCT) data from TB clinics and other reporting entities within reporting jurisdiction to satisfy TB grant requirements;

I. collect and review RVCT data variables from TB programs and other reporting entities within reporting jurisdiction to meet state and National TB Indicators Performance (NTIP) objectives for 100% completeness (see cdc.gov/tb/publications/factsheets/statistics/ntip.htm);

J. update local protocols to guide quality assurance (QA) activities;

K. review TB epidemiologic reports provided by DSHS and provide feedback;

L. provide technical assistance to TB clinics and other reporting entities within reporting jurisdiction for accurate submission of TB data;

M. submit requested data in adherence to reporting schedules;

N. host or coordinate and document trainings based on RVCT and QA, the IJN process and THISIS;

O. participate in monthly conference calls, TB Network News (TBNN), work
groups, surveys and special surveillance projects;

P. participate in DSHS’ annual TB Symposium;

Q. request access to THISIS by following instructions on Requesting New Access to a DSHS Database at dshs.tx.gov/thsvh/account.shtm and submit THISIS issues via the THISIS helpdesk; and

R. promote security and confidentiality standards for TB data exchanges and storage (see dshs.tx.gov/hivstd/policy/procedures/2016-01.shtm).

**DSHS TB Branch, PHRs and LHDs** must comply with the following regarding TB prevention and care activities:

A. Texas References:
   3. DSHS, TB Branch Standards and Policies, dshs.tx.gov/idcu/disease/tb/policies/
   5. DSHS, *Video-Based Directly Observed Therapy, Required and Recommended Activities*, dshs.tx.gov/IDCU/disease/tb/policies/TBVDOTPolicy.pdf

B. CDC’s Morbidity and Mortality Weekly Report (MMWR), ATS and Other State and Peer-Reviewed References:
Texas Tuberculosis Work Plan  
(Revised 8/31/20)

4. Update of Recommendations for Use of Once-Weekly Isoniazid-Rifapentine Regimen to Treat Latent Mycobacterium tuberculosis Infection, 2018. cdc.gov/mmwr/volumes/67/wr/mm6725a5.htm


7. CDC, Controlling Tuberculosis in the United States, MMWR, Vol. 54 (RR12), 1-69, 2005. cdc.gov/mmwr/preview/mmwrhtml/rr5412a1.htm


10. CDC, IGRA Blood Test Fact Sheet, 2016. cdc.gov/tb/publications/factsheets/testing/igra.htm


12. CDC, Quality Assurance for TB Surveillance Data; A Guide and a Toolkit.


18. CDC, Report of Expert Consultations on Rapid Molecular Testing to Detect Drug-Resistant Tuberculosis in the United States. cdc.gov/mmwr/preview/mmwrhtml/mm6048a3.htm

C. TB programs must comply with all applicable federal and state regulations and statutes, including but not limited to:
3. Screening and Treatment for Tuberculosis in Jails and Other Correctional Facilities, Texas Health and Safety Code, Chapter 89. [statutes.capitol.texas.gov/Docs/HS/htm/HS.89.htm](statutes.capitol.texas.gov/Docs/HS/htm/HS.89.htm)
4. **Control of Communicable Diseases**, Texas Administrative Code (TAC), Title 25, Part 1, Chapter 97, Subchapter A. [sos.texas.gov/tac/index.shtml](sos.texas.gov/tac/index.shtml)
5. **Tuberculosis Screening for Jails and Other Correctional Facilities**, TAC, Title 25, Part 1, Chapter 97, Subchapter H. [sos.texas.gov/tac/index.shtml](sos.texas.gov/tac/index.shtml)
6. **Medical Records**, TAC, Title 22, Part 9, Chapter 165, Rule §165.1. [sos.texas.gov/tac/index.shtml](sos.texas.gov/tac/index.shtml)
II. Program Stewardship and Accountability

General Requirement

TB programs will implement a comprehensive TB program and manage resources in an effective manner that focuses on stewardship and accountability.

TB programs will:

A. implement a comprehensive TB prevention and care program;

B. develop and maintain TB protocols and procedures;

C. provide services to evaluate, treat and monitor clients with probable or confirmed TB disease without consideration of a client’s ability to pay;

D. initiate contact investigations (CIs);

E. provide services to evaluate, treat and monitor contacts to probable or confirmed cases of pulmonary, pleural or laryngeal TB disease without consideration of a client’s ability to pay;

F. initiate court-ordered management when needed;

G. provide treatment services for at-risk people diagnosed with TB infection without consideration of a client’s ability to pay;

H. provide services to evaluate, treat and monitor Class-B immigrants and refugees without consideration of a client’s ability to pay;

I. develop and maintain TB surveillance mechanisms for early identification and reporting;

J. submit designated reports using established deadlines, schedules and DSHS-approved mechanisms;

K. perform targeted testing;

L. serve as subject matter experts on screening recommendations for community partners including but not limited to licensed adult and child-care facilities, as dictated by statute;

M. apply appropriate administrative, environmental and respiratory controls to prevent exposure to and transmission of TB;

N. provide professional education, training and orientation for new TB program staff and maintain continuing education for current TB program staff;

O. monitor budget expenditures and maintain accurate, concise records;
P. comply with confidentiality and security standards;

Q. monitor surveillance, reporting and case management activities in correctional facilities;

R. perform self-auditing activities to assess clinical care services and reporting practices; and

S. perform continuous quality improvement activities to achieve Texas performance measures.
III. Conduct Overall Planning and Develop Protocols

General Requirement

TB Programs will develop and maintain protocols and procedures that align with the TB Work Plan and TB Branch standards. TB Branch standards, policies and procedures are published on DSHS’ TB website, texastb.org. Local and regional protocols and procedures must not contradict TB Branch requirements and guidelines.

Activities

A. Develop and implement written protocols and procedures covering the following topics:

- Program administration
- Training
- Reporting
- Surveillance
- Infection control
- High risk population screening and evaluation
- Discharge planning and continuity of care
- Cohort review
- Program evaluation
- Laboratory testing for TB
- Case management
- Contact investigation
- Client confidentiality and security
- Incident reporting
- Cluster and outbreak investigations
- False positive investigations
- Directly observed therapy
- Use of video enabled technology for directly observed therapy
- Sputum collection

B. Ensure written protocols and procedures are easily accessible to all staff responsible for TB prevention and care activities.

C. Review protocols and procedures at least once every three years and revise as appropriate to conform to DSHS standards and best practices.
IV. Standards of Care for Tuberculosis Services

General Requirement

TB programs will follow the minimum standards of care for clients receiving TB prevention and care services in Texas. The minimum standards, in accordance with the DSHS TB Work Plan and TB Branch Standing Delegation Orders (SDOs), are intended for authorized TB program staff working in LHDs and PHRs. Each TB program will have systems in place to ensure activities in this chapter are met.

Activities

A. Adopt and utilize SDOs.
   1. The TB Branch is responsible for developing and updating SDOs that are consistent with national guidelines and recommendations from DSHS-recognized medical TB consultants.
      a) TB programs may choose to adopt the DSHS SDOs or develop their own.
      b) If TB programs develop local SDOs, they must meet the minimum standards outlined in the DSHS SDOs.
      c) TB programs may add their name and logo to the DSHS SDOs. They may also elect to use the DSHS SDOs to develop local protocols and procedures.
   2. Orders cannot be removed from the DSHS SDOs, but the reviewing physician may elect to add additional orders or modify the format.
   3. TB Program staff authorized to carry out SDOs must sign attestation pages from the SDOs.
      a) DSHS SDOs are revised yearly. The TB program manager and program staff should review SDOs after each release. This may occur via a one-day in-service training with staff to ensure a thorough understanding of the SDOs. In-service trainings are an ideal time to collect staff signatures.
      b) SDOs must be reviewed and signed yearly by the physician responsible for TB services (e.g., contracted TB physician, regional medical director, local health authority).

B. Prioritize referrals and screen for TB disease and TB infection.
   1. Any client referred or seeking evaluation for TB at the TB program should be prioritized for services (see Table 1).
   2. Every client aged 2 and older who qualifies for services should be screened using an IGRA test. It is the preferred screening test in Texas.
      a) The TB Branch provides IGRA at no cost to TB programs. IGRA should only be used among populations described in this document.
   3. TSTs may be used for clients who qualify for services and are younger than 2 years old or who refuse or cannot tolerate phlebotomy. TST
supplies (e.g., syringes and tuberculin purified protein derivative) should be ordered from the DSHS Pharmacy using the DSHS Inventory Tracking Electronic Asset Management System (ITEAMS). Do not order or provide TST supplies for sites outside the program such local schools, hospitals, and non-Chapter 89 correctional facilities without written authorization from the TB Branch.

C. Ensure the availability of radiology services.
   1. Every program must have radiology services available, whether in-house or through a contract or local partnership.
      a) Every medical record for clients on treatment for pulmonary, pleural or laryngeal TB disease must include documentation of:
         (1) a baseline chest radiograph;
         (2) chest radiography at two months of appropriate treatment;
         (3) chest radiography at closure; and
         (4) as ordered by the treating physician.
      b) Every client eligible for treatment for TB infection must have a baseline chest radiograph to rule out active disease before starting therapy.

D. Follow airborne infection isolation (AII) guidelines.
   1. A nurse may place a client in AII by issuing the patient a TB control order signed by the local health authority.
   2. Clients released from AII will have the date of release documented in the medical record. A nurse may release a patient from AII after written instructions by the treating physician are issued and once criteria for release from AII are met. The treating physician may determine if the SDOs suffice for written instruction or if they prefer reviewing all requests before release from isolation.

E. Ensure the completion of specimen testing.
   1. TB programs must have the capacity to obtain natural and induced sputum specimens when indicated.
   2. TB programs that do not have sputum induction booths may purchase portable nebulizers using locally budgeted TB funds. Hypertonic solution for nebulization is available through the DSHS Pharmacy if 0.9% sodium chloride does not yield an adequate sample (see DSHS SDOs for sputum induction procedure), see Appendix H: DSHS TB Formulary.
   3. TB Programs must ensure that all specimens positive for M. tb by Nucleic Acid Amplification Test (NAAT) or polymerase chain reaction (PCR) are followed by culture and drug susceptibility testing. Ship at least one isolate, preferably the initial isolate to the DSHS Laboratory for genotyping.
F. Perform routine client assessments.
   1. Every client on a medication regimen for TB disease or infection will have at minimum, a baseline and monthly nursing assessment with a physical exam and toxicity screening documented in the medical record.
   2. Toxicity screening must be performed according to drug regimen.
   3. Programs should ensure that the treating TB physician has reviewed and signed the medical record for clients with an ATS classification of 3 or 5 at the following intervals, at minimum:
      a) upon treatment initiation;
      b) at eight weeks of therapy or upon completion of the initial phase (if greater than 8 weeks);
      c) at 26 weeks of therapy;
      d) at closure;
      e) any time medications are held due to signs or symptoms of toxicity or other reasons; and
      f) as determined by the treating physician when orders are updated or need to be revised.
   4. For clients receiving treatment for TB infection, there must be documentation of communication between a licensed nurse and client at least monthly. Additional documentation must include:
      a) a physical exam and/or toxicity screening; and
      b) medication refill information, including drug name, dosage, lot number and expiration date provided to the client or designee.

G. Provide directly observed therapy (DOT).
   1. Every client with an ATS classification of 3 or 5 will be placed on DOT for the duration of treatment, unless otherwise ordered by the treating physician.
   2. Clients on isoniazid and rifapentine (3HP) may be treated by self-administration therapy (SAT) with a physician’s order.
   3. DOT for TB infection is highly recommended for clients aged 4 and younger, as resources allow.
   4. DOT packets should be ordered through ITEAMS.
   5. Video-enabled directly observed therapy (VDOT) may be utilized by TB programs when clients are recommended for DOT. See DSHS Video-Enabled Directly Observed Therapy Required and Recommended Activities Manual (dshs.texas.gov/idcu/disease/tb/policies/).

H. Manage pediatric clients aged 17 and younger.
   1. The initial evaluation for TB disease or TB infection in clients aged 5 and younger will include a physical examination by a physician or other licensed clinician.
   2. If parents or guardians of clients aged 17 and younger decline treatment for TB infection, treating physician will provide a letter advising treatment.
a) A copy of the letter will be maintained in the client’s medical record.
b) The treating physician may consider additional steps such as a Child Protective Services (CPS) notification. See Appendix A: Sample Letter for Child Window Prophylaxis for sample correspondence.

I. Ensure the completion of adequate therapy.
   1. Ideally, every client with TB disease will complete therapy as specified in the SDOs with 100% of doses taken by DOT.
   2. When closure at 100% is not possible, clients should have at least 80% of treatment for TB disease completed by DOT.
   3. TB cases eligible to complete treatment within 12 months must complete therapy within 365 days or less.
   4. Follow minimum doses for treatment completion of TB infection, as specified in the DSHS SDOs.

J. Initiate contact investigations.
   1. Every acid-fast bacillus (AFB) smear positive sputum case must have at least three identified contacts.
   2. Every respiratory TB case or suspect must have a CI initiated within three working days.
   3. Submit an incident report to the TB Branch for mass or concerning CIs.

K. Clarify roles and responsibilities of TB program staff.
   1. It is the role of the TB program manager to:
      a) ensure a process exists for assigning care to each new client seeking services;
      b) ensure a plan of care exists and documentation of shared roles of the TB program and community providers is included in the medical record; and
      c) ensure clients and/or their guardians are given opportunities to comply with the treatment plan.
   2. It is the role of the physician who signs the SDOs to:
      a) review and sign SDOs yearly;
      b) work with the TB program manager to ensure staff understand SDOs and are provided the opportunity to ask clarifying questions;
      c) ensure a process exists for responding to signs and symptoms of medication toxicity or other patient concerns when reported by the licensed nurse;
      d) provide clear expectations to staff working under SDOs regarding the frequency of physician assessments, process of obtaining signed medical orders from the treating physician and communication with TB program staff; and
      e) ensure a process exists for seeking medical consultation with a DSHS recognized TB medical consultant (i.e., coordination
between TB physician and nurse).

3. It is the role of the physician writing orders for and managing the client (if different from the physician who signs the SDOs) to:
   a) ensure all clients, especially clients with drug-resistant TB (DR TB), pediatric clients or other high-risk clients, are managed according to the standards of care for treatment as outlined in the SDOs.

4. It is the role of the nurse case manager to:
   a) ensure clients managed by the TB program have current medical orders from the licensed healthcare provider;
   b) ensure patients are started on adequate therapy;
   c) ensure routine assessment of clients per the TB Work Plan and SDOs are performed;
   d) acknowledge and follow SDOs;
   e) document monthly toxicity screening to include abnormalities and subsequent interventions; and
   f) notify the treating physician if toxicity screening does not occur as medications should not be administered to clients for which screening cannot be completed.
V. Manage Tuberculosis Cases and Probable Cases

General Requirement

TB programs will:

A. provide services to evaluate, treat and monitor clients with probable or confirmed TB disease, regardless of ability to pay;

B. ensure TB clients are appropriately managed, regardless of their jurisdiction; and,

C. adhere to procedures outlined in the DSHS SDOs and Standing Medical Orders (SMOs) for Tuberculosis Prevention and Care.

Activities

A. Collaborate with health care institutions, hospitals, long-term care facilities, private physicians and correctional facilities to ensure appropriate management of clients with probable or confirmed TB disease.

B. Create a medical record for each person with probable or confirmed TB disease and document a plan of care on the TB-201 or equivalent. The medical record should include at minimum the following DSHS forms (or local equivalent):

- TB 400A *(Report of Case and Patient Services)*-completed initially
- TB 400B *(Report of Case and Patient Services)*-completed initially and updated when indicated
- TB-201 *(Case Management Plan for Outpatient Care)*
- TB-202 *(Tuberculosis Health Assessment/History)*
- TB-203 *(Education/Counseling Record)*
- TB-204 *(Tuberculosis Forms/Literature Checklist)*-this form may be modified with updated literature used locally
- TB-205 *(Toxicity Assessment)*
- TB-206 *(DOT Log)*
- TB-700 Series *(For clients on second-line medications)*
- L-36 *(General Consent and Disclosure)*
- L-30 *(Consent to Release Confidential Medical Information)*
- TB 409 *(Acknowledgement of Understanding)*
- TB-410 *(Order to Implement and Carry Out Measures for Client with TB)*
- TB 411 *(Disclosure and Consent for Drug Therapy)*
C. Implement initial infection control practices (see Implement Infection Control Procedures).
   1. Place a surgical mask on clients who arrive at the clinic for TB services.
   2. Clients classified as class 3 or 5 based on the ATS classification system should be placed in AII with documentation in the medical record, unless criteria for release from isolation is met as outlined in the SDOs.

D. Coordinate discharge planning with in-patient facilities or correctional facilities for clients being released to outpatient care. The following discharge planning criteria should be met:
   A. A specific plan exists for follow-up care.
   B. When possible, client should be served the TB control order (TB-410) before discharge.
   C. Client is started on the standard multi-drug TB treatment regimen and DOT arranged.
   D. No infants or children aged 4 and younger or people with immunocompromising conditions are present in the household of an infectious patient (when possible).
   E. Client is advised of travel restrictions while infectious.
      1. Except for healthcare-associated visits, direct clients to refrain from travel outside the home until client has met criteria to discontinue AII.
      2. Direct clients traveling for healthcare-associated visits to wear a surgical mask for the duration of travel and visit and notify the receiving agency before visit.

E. Obtain acknowledgment and consent for treatment and care.
   1. Maintain signed consents and acknowledgements (DSHS or local equivalent) in the client’s medical record.
   2. If the client moves to another jurisdiction, Form TB-410 and acknowledgment/consent forms must be prepared by the receiving jurisdiction and submitted to the client for signature.

F. Develop a treatment and case management plan.
   1. Develop an initial treatment and case management plan for each client within one week of receiving the report of a new ATS class 3 or 5 and document on Form TB-201 or equivalent.
      a) TB programs must maintain oversight of clients receiving TB care from private providers to ensure DSHS treatment standards are followed. State-purchased medications cannot be used to support a medication regimen that does not align with DSHS treatment standards.
      b) Create a written agreement describing the shared roles and responsibilities in the delivery of TB care services between a private provider and the TB program.
         (1) Present a written plan to the private provider and client
to ensure proper treatment, coordination of care and reporting.

(2) See appendices A – C for sample correspondence.

2. Facilitate establishment of a medical home, as needed. Regardless of client's insurance status, identify community resources that serve indigent clients and the uninsured, and refer as appropriate. If available, provide referrals for clients needing primary or specialty clinical care:
   a) Uninsured patients may be referred to FQHCs to ensure they have access to primary and specialty care (see dshs.texas.gov/chpr/fqhcmain.shtm).
   b) Indigent patients may qualify for medical assistance in their county of residence (see hhs.texas.gov/services/health/county-indigent-health-care-program).
   c) See Appendix E: Additional Client Services for additional client services.

G. Provide and document initial and ongoing client education.
   1. Provide client education on:
      a) transmission and pathogenesis of TB;
      b) means to decrease transmission and the need for infection control;
      c) rationale for DOT;
      d) seriousness and importance of completing treatment;
      e) significance of conducting a complete and thorough CI;
      f) protected health information (PHI);
      g) adverse drug reactions and drug interactions of TB medications;
      h) the need for clients to discuss adverse drug reaction symptoms and other treatment concerns with nurse case manager as soon as they occur;
      i) consequences of non-adherence to treatment; and
      j) unobserved specimen collection.
   2. Document initial and ongoing education and counseling on Form TB-203 or equivalent.

H. Conduct TB screening and evaluation in accordance with DSHS SDOs.
   1. Determine the appropriate TB screening method based upon:
      a) client age;
      b) Bacillus Calmette-Guerin (BCG) status; and/or
      c) other factors outlined in the SDOs.
   2. Conduct medical evaluation.
      a) Screen for TB signs and symptoms and document on Form TB-202 or equivalent.
      b) Collect client medical and social history and document on Form TB-202 or equivalent.
c) Conduct physical exam and document on progress notes or approved forms.

d) Collect sputum specimens per SDOs. Collect clinical specimens if warranted (see Table 2).

3. Screen for existing comorbid conditions (e.g., diabetes, HIV, hepatitis B and C, per SDOs). Collect the following diagnostic results and provide to treating provider for review and signature:
   a) Baseline TB screening test results.
   b) CXR (see Table 3).
   c) AFB smear results and bacteriology (see Table 4).
   d) Drug susceptibility test (DST) results (see Table 5). Extended drug susceptibility testing must be performed on all isolates with resistance to first line agents (isoniazid, rifampin, and ethambutol).

4. Monitor monthly adherence to treatment, response to treatment and medication side effects or adverse reactions. Document in client record on Form TB-205 or equivalent.

5. Conduct monthly follow-up laboratory tests and assessments in accordance with the SDOs; document results and subsequent interventions as necessary.

6. Ensure shipment of initial isolate to DSHS Laboratory in Austin for genotyping regardless of the laboratory that performed acid fast bacilli (AFB) smear and culture tests.

7. Prepare a written TB control order for people with probable (ATS class 5) or confirmed TB disease (ATS class 3).
   a) Use Form TB-410 or equivalent. This form is required even if client refuses to sign. Note date and time provided to client.
   b) Prepare written control order in client’s preferred language, ideally within three days of classification.
   c) Document in the medical record if an interpreter (or guardian) read the control order to client before client signed the control order.

Table 2. Types of Specimens Collected to Diagnose TB Disease

<table>
<thead>
<tr>
<th>Diagnosis Type</th>
<th>Specimen Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulmonary or laryngeal TB</td>
<td>• Sputum (phlegm from deep in the lungs).</td>
</tr>
<tr>
<td></td>
<td>• If a diagnosis of pulmonary TB cannot be established from routine sputum collection, other procedures may be necessary including bronchoscopy and gastric aspiration. Laryngeal TB may be diagnosed from clinical signs and symptoms (i.e. hoarseness) or by biopsy.</td>
</tr>
</tbody>
</table>
Diagnosis Type | Specimen Needed
--- | ---
**Extra-pulmonary TB** | • Anatomic sites include but are not limited to:  
  o Urine  
  o Cerebrospinal fluid  
  o Pleural fluid  
  o Pus or other aspirated fluid  
  o Biopsy specimens  
  o Blood (heparinized)

cdc.gov/mmwr/preview/mmwrhtml/rr5412a1.htm

Table 3. Common Terminology Used on a Chest X-Ray Report

<table>
<thead>
<tr>
<th>CXR Finding</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consolidation</td>
<td>Often referred to as an ill-defined opacity</td>
</tr>
<tr>
<td>Cyst/cavity</td>
<td>Focal spaces or “holes” in the lung: both indicate the absence of lung tissue; a cavity being more likely to be TB, and generally indicative of greatest infectiousness</td>
</tr>
<tr>
<td>Fibrosis</td>
<td>May or may not be active disease and requires further evaluation</td>
</tr>
<tr>
<td>Granuloma</td>
<td>A small, calcified nodule, usually not indicative of active disease</td>
</tr>
<tr>
<td>Opacity</td>
<td>A circumscribed area that appears nearly white (i.e. denser) than its surroundings; may be parenchymal, pleural, within the chest wall or external to the patient</td>
</tr>
<tr>
<td>Lymphadenopathy</td>
<td>Enlarged lymph nodes seen as soft tissue densities: usually more indicative of active disease in a child</td>
</tr>
<tr>
<td>Miliary</td>
<td>Many tiny nodules resembling millet seeds scattered throughout</td>
</tr>
<tr>
<td>Nodule</td>
<td>Discrete opacity measuring two to 30 millimeters (mm) in diameter</td>
</tr>
<tr>
<td>Mass</td>
<td>Discrete opacity (nodule) greater than 30 mm in diameter; often indicative of a carcinogenic process</td>
</tr>
</tbody>
</table>
Table 4. Acid Fast Bacilli Smear Classification Results

<table>
<thead>
<tr>
<th>Quantity Reported*</th>
<th>DSHS Laboratory Quantitation</th>
<th>Smear Result</th>
<th>Infectiousness of Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>4+/numerous (&gt;9/field)</td>
<td>&gt;10/field</td>
<td>Strongly positive</td>
<td>Probably very infectious</td>
</tr>
<tr>
<td>3+/few-numerous (1-9/field)</td>
<td>1-10/field or &gt;10/field</td>
<td>Strongly positive</td>
<td>Probably very infectious</td>
</tr>
<tr>
<td>2+/few (1-9/10 fields)</td>
<td>&lt;1/field or 1-10/field</td>
<td>Moderately positive</td>
<td>Probably infectious</td>
</tr>
<tr>
<td>1+/rare (1-9/100 fields)</td>
<td>&lt;1/field</td>
<td>Moderately positive</td>
<td>Probably infectious</td>
</tr>
<tr>
<td>Actual number of AFB seen (no plus sign) (1-2/300 fields)</td>
<td>1 or 2 AFB seen on entire smear</td>
<td>Weakly positive†</td>
<td>Probably infectious</td>
</tr>
<tr>
<td>No acid-fast bacilli seen</td>
<td>No AFB seen on direct smear</td>
<td>Negative</td>
<td>Probably not infectiousβ</td>
</tr>
</tbody>
</table>

* Reporting methods may vary by laboratory. Check with your laboratory for specific interpretation.
† Laboratories may report these smear results as “doubtful” or “inconclusive” based on CDC guidelines.
β Criteria for determining whether a client may be considered noninfectious are discussed in Module 5: “Infectiousness and Infection Control” of the CDC’s Self-Study Modules on Tuberculosis.

### Table 5. Drug Susceptibility Patterns

<table>
<thead>
<tr>
<th>Category</th>
<th>Sensitivity Patterns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pan-sensitive</td>
<td>Sensitive to streptomycin, isoniazid, rifampin, ethambutol and pyrazinamide</td>
</tr>
<tr>
<td>Mono-resistant</td>
<td>Resistant to one first-line anti-TB drug only</td>
</tr>
<tr>
<td>Poly-resistant</td>
<td>Resistant to at least two first-line anti-TB medications (but not both isoniazid and rifampin)</td>
</tr>
<tr>
<td>Multi-drug resistant</td>
<td>Resistant to both isoniazid and rifampin</td>
</tr>
<tr>
<td>Pre-extensively drug-resistant</td>
<td>Resistant to isoniazid and rifampin, plus resistant to any fluoroquinolone or at least one of three injectable second-line drugs (such as amikacin, kanamycin or capreomycin)</td>
</tr>
<tr>
<td>Extensively drug-resistant</td>
<td>Resistant to isoniazid and rifampin, plus resistant to any fluoroquinolone and at least one of three injectable second-line drugs</td>
</tr>
</tbody>
</table>


I. Establish and maintain client record in accordance with DSHS SDOs.
   1. Organize medical records according to locally determined chart order with sections clearly divided.
   2. Ensure all documents are securely attached to the medical record.
   3. Provide accurate and complete documentation.
   4. Date and sign all entries in the progress notes and draw a line through each blank section.
   5. Document in chronological order.
   6. Draw a single line through errors and initial.
   7. Do not document outside the margins.
   8. Establish a locally-approved list of abbreviations.

J. Document case management and treatment activities.
   1. Document assignment of nurse case manager and other case management team members on Form TB-201 (or equivalent).
   2. Maintain copies of Form TB-400A (Report of Case and Patient Services) or equivalent; provide copy of Form TB-400A or RVCT to TB case registrar within 14 business days of initial report or referral to TB program.
   3. Document complete medical and social history on Form TB-202 or equivalent.
   4. Document start date of treatment regimen to include medication,
dosage, frequency and route of administration on Form TB-400B (Report of Case and Patient Services) or equivalent; include client’s weight.

5. Document changes in treatment regimen on Form TB-400B.

6. Document laboratory and other diagnostic results including, but not limited to:
   a) AFB smear result;
   b) culture results;
   c) DST results;
   d) chest radiography results;
   e) hospitalizations, TB medical consultations or extension of therapy; and/or
   f) all client services on Form TB-201 or equivalent.

K. Initiate standard therapy as ordered.
   1. Treatment for drug susceptible TB includes two phases:
      a) Initial treatment phase: isoniazid (INH), rifampin (RIF), ethambutol (EMB) and pyrazinamide (PZA) for the first eight (8) weeks or until susceptibilities are known.
      b) Continuation treatment: INH and RIF for the remaining months.
   2. Provide DOT and document on Form TB-206 or equivalent.
      a) DOT is the standard of care in Texas. Provide DOT to all clients with probable or confirmed TB disease. Clients with probable TB should continue DOT until TB is ruled out.
      b) Indicate clearly on Form TB-206 which medications are provided. Note any medication changes on the log and sign.
      c) Document every directly-observed dose of medication administered to the client.
      d) If a client takes self-administered doses on the weekend, and/or holidays, do not count the number of weekend and holiday doses towards completion of therapy.
      e) Document all self-administered doses and missed doses on Form TB-206.
      f) Pursue appropriate actions for missed DOT or clinic appointments, up to and including court-ordered management.

L. Ensure clients are managed and respond to therapy.
   1. Initiate a consult from a DSHS-recognized medical TB consultant as indicated.
      a) Indicators for consultation are listed in the SDOs.
      b) Consults from DSHS-recognized medical TB consultants are required for any client with DR TB, as outlined in the SDOs.
      c) See Appendix F: Medical Consultation Templates for medical consultation templates.
   2. Consider serum drug level testing for clients not responding adequately to therapy or clients with risk factors for poor absorption of
medication. See Therapeutic Drug Monitoring Process at
[www.dshs.texas.gov/idcu/disease/tb/forms/].

M. Close the client’s medical record using any one of the following dispositions:
   1. Completion of adequate therapy
      a) Treatment completed within 12 months.
      b) Exceptions to completion of adequate treatment within 12 months apply if:
         (1) client has MDR or XDR TB;
         (2) isolates show resistance to rifampin;
         (3) client is aged 14 or younger with miliary disease; or
         (4) client has meningeal disease.
   2. Non-TB
   3. Deceased
   4. Moved out of country
   5. Lost to Follow-Up (LTFU)
      a) Make at least three attempts to contact a TB client before considering a client as LTFU, including:
         (1) calling the client;
         (2) visiting the client’s residence; and
         (3) sending a certified-mail notification of the client’s need to follow-up with clinic.
      b) Document attempts in the progress notes of client’s medical record.
      c) Place certified mail notification receipt in the client’s medical chart.
VI. Treatment of Drug-Resistant Tuberculosis

General Requirement

TB programs will participate in the TB Branch’s DR TB monitoring program. The purpose of the DR TB monitoring program is to collect, analyze, describe and respond to data used in the prevention and care of DR TB in Texas. This includes monitoring:

A. Rifampin mono-resistance (RR-TB);
B. Multi-drug resistance (MDR-TB);
C. Pre-extensively drug resistance (Pre-XDR TB); and
D. Extensively drug resistance (XDR-TB).

Activities

A. Identify clients at risk for DR TB. Risk factors include:
   1. previous episodes of tuberculosis treatment, usually incomplete treatment;
   2. worsening clinical and/or radiographic findings while on TB treatment;
   3. country of origin, history of residence in or frequent travel to a region or country with a high prevalence of DR TB;
   4. exposure to a person with known (or highly probable) infectious DR TB; and/or
   5. exposure to people in congregate settings where drug resistance has been documented.

B. Seek consultation with a DSHS-recognized medical TB consultant upon initial diagnosis or suspicion of DR TB and notify the TB Branch Nurse Consultant.
   1. TB programs are made aware of drug resistance when:
      a) a client presents with known risk factors for DR TB;
      b) PCR testing performed with GeneXpert results indicate rifampin resistance;
      c) DST results indicate resistance; and/or
      d) client is reported to the TB program with other laboratory results that indicate resistance.
   2. Consultation with a DSHS-recognized medical TB consultant is required when:
      a) a client has laboratory-confirmed drug resistance or is suspected to have DR TB, including a NAAT showing rifampin resistance;
      (1) Laboratory-confirmed drug resistance is defined as resistance to isoniazid and/or rifampin or to any drug other than streptomycin or pyrazinamide mono-resistance on drug susceptibility panel testing.
(2) Consultation must occur within three days of laboratory notification.
   b) a client is prescribed second-line TB medications other than first-line drugs due to DR TB;
   c) the treating physician is requesting molecular detection of drug resistance (MDDR) testing; and/or
   d) client is a contact to a case of MDR-TB, Pre-XDR-TB or XDR-TB.
3. Additional consultation is strongly recommended when a DR TB patient:
   a) has a change in therapy or change in status;
   b) misses required screenings;
   c) exhibits signs of adverse drug reactions;
   d) is discharged from Texas Center for Infectious Disease (TCID); and/or
   e) any time the treating physician is concerned about the patient status.

C. Coordinate with DSHS Laboratory to ensure appropriate diagnostic tests are ordered.
   1. NAAT with GeneXpert is a rapid PCR test that identifies the presence of deoxyribonucleic acid (DNA) in the \textit{M. tb} isolate as well as assesses for mutations consistent with rifampin resistance.
   2. If rifampin resistance is detected, this may indicate resistance to additional first-line drugs; therefore, further testing would be indicated, such as an MDDR test.
   3. Request MDDR testing when appropriate (see Appendix G: Requesting Molecular Detection of Drug Resistance (MDDR) Testing).
   4. DSTs\(^1\) are run on positive \textit{M. tb} cultures sent to the DSHS laboratory. If resistance to primary drugs (excluding pyrazinamide mono-resistance) is detected, DSHS laboratory will reflexively set up second-line drug panel testing and will communicate directly with the submitter. Some second-line medications cannot be tested at the DSHS laboratory; therefore, programs should communicate directly with the laboratory to coordinate additional testing. If specimen was collected at an outside laboratory, consultation with a DSHS-recognized medical TB consultant is recommended to ensure further testing is performed.
   5. Outside laboratories may also report resistance from rapid tests such as PCR; coordination with outside laboratories is recommended.

D. Intervene when diagnostic tests indicate resistance if the client is on therapy for drug-susceptible TB, such as rifampin, isoniazid, pyrazinamide and ethambutol (RIPE).

\(^{1}\) Although there are significant advantages offered by rapid molecular assays, growth-based susceptibility testing remains an integral diagnostic test to confirm molecular results. Both tests together provide the most complete information on the susceptibility of the isolate.
1. Consult with the treating physician.
2. Hold current drug regimen when able (i.e. client is medically stable).
3. Request a medical consult from a DSHS-recognized medical TB consultant for continuation of care.²

E. Consider admission and coordinate discharge with TCID.
   1. Admission for initial stabilization may be an option but not required.
   2. Admissions should be coordinated with the TCID admissions nurse.
      a) Submit admissions requests to TCIDA Admissions@dshs.texas.gov.
      b) Send TCID referrals and documents to support admission.
   3. TCID discharge summaries are recommendations for care and should not be considered as physician orders.
      a) TB programs are responsible for ensuring written orders are received for the client from the local TB clinician, who may adopt the TCID orders in their entirety or make modifications after consultation from a DSHS-recognized medical TB consultant.
      b) TB programs should ensure that the patient is carefully monitored at the local level.

F. Order medications after consultation with a DSHS-recognized medical TB consultant and provide adequate therapy. (See Medication and Supplies Ordering and Inventory Management for ordering details).

G. Document case management and treatment activities on the TB Branch clinical care forms specific to DR TB (TB 700 series) or their equivalent. Monthly assessments of medication toxicity specific to each medication are required and must be documented on DSHS toxicity forms or equivalent.

H. Submit reporting forms to the TB Branch Nurse Consultant via GlobalScape.
   1. Complete and submit Form TB-400B on all newly diagnosed DR TB cases within five days of notification.
   2. The following may be uploaded via GlobalScape when requested by the TB Branch Nurse Consultant:
      a) completed RVCT forms;
      b) laboratory reports;
      c) written consultations; and
      d) hospital discharge summaries when requested.
   3. Complete and submit an updated Form TB-400B every 90 days for all DR TB cases until treatment is completed.
   4. Submit changes in case management, drug resistance patterns or

² If the client is hospitalized, request that the treating provider seek consultation with Heartland National TB Center.
residence on DR TB case within 72 hours of notification.

I. Maintain communication with the TB Branch Nurse Consultant, including but not limited to:
   1. submitting requests for information in a timely manner;
   2. responding to case management inquiries;
   3. outlining interventions taken to prevent or respond to medication toxicity; and
   4. participating in routine meetings or conference calls as requested.

J. Manage clients in accordance to recommendations from a DSHS-recognized medical TB consultant and the treating physician for duration of therapy.
VII. Medication and Supplies Ordering and Inventory Management

General Requirement

TB programs will order and store DSHS-purchased supplies and medications in accordance with DSHS standards. DSHS purchases medications under the Federal 340B Drug Pricing Program. Therefore, medications may only be used for clients who qualify for TB services and shall not be distributed outside the TB program for use by patients for whom there is not a current medical record at the TB program site, such as jails or schools where the TB program is not overseeing care.

Activities

A. Follow DSHS-established criteria for the use of TB program medications.

B. Designate a staff member to oversee the ordering and management of DSHS-purchased medications to ensure that:
   1. medications are used for outpatient treatment of TB disease or TB infection only (including window prophylaxis);
   2. medications are used for clients who have a medical record established at the clinic providing the medication;
   3. the TB program supplying medications to the client retains overall responsibility for the care of the client;
   4. medications and supplies are used in a prudent manner and not distributed to entities for which TB programs do not provide treatment oversight;
   5. TB programs do not charge clients for medications or seek third-party reimbursement (including Medicaid reimbursement), as medications are provided to TB programs at no cost; and
   6. TB programs do not distribute or supply state-purchased medications to jails and other facilities in which the clients receiving the medications are not under the direct care of that TB program.

C. Follow DSHS-established procedures for TB medication inventory management.
   1. Order TB medications and reconcile inventory through ITEAMS.
   2. Limit medication orders to a one-month supply as the DSHS Pharmacy typically fulfills orders within 24 hours of receipt.
   3. Set maximum stock levels no higher than a one-month average usage.
   4. Monitor and manage use of TB medications and testing supplies furnished by DSHS in accordance with first-expiring/first-out (FEFO) principles of inventory control.
   5. Avoid waste by ordering packets for clients new to therapy with individual drugs to avoid waste (e.g. 10 packets of Rifampin, 10 packets of Isoniazid) to maximize usage.
D. Order medications for clients in DOT packets or bulk bottles and ensure labeling requirements are met.

1. Order medication for clients with known or probable TB disease on DOT or those on directly observed preventative therapy (DOPT) for TB infection (including window prophylaxis) in DOT packets.
2. DOT-packaged medications have a shorter expiration date than their original manufacturer expiration date, typically 2-6 months after packaging. Therefore, if one medication in the packet expires, the entire packet must be disposed.
3. Order medication packets for SAT or VDOT. These may be ordered in the same way as DOT packets from the DSHS Pharmacy. If medications will be in the client’s possession, certain labeling requirements must be met for packaging (e.g., amber zip-closure bag) containing DOT packets.
   a) The label should be prepared and affixed to the zip-closure bag by TB program staff providing medications to the client. The label must include (see Figure 1. Sample Medication Label for DOT Packets):
      (1) the name and address of the medical director or physician who prescribed the drug;
      (2) the date the drug is delivered to the client;
      (3) the client’s name; and
      (4) the name, strength and directions for use of the drug(s).

Figure 1. Sample Medication Label for DOT Packets

<table>
<thead>
<tr>
<th>TB Program Name HERE</th>
</tr>
</thead>
<tbody>
<tr>
<td>123 Main St.</td>
</tr>
<tr>
<td>City, TX 77000</td>
</tr>
<tr>
<td>Phone 123-456-7891</td>
</tr>
</tbody>
</table>

01/01/2020
John Watson, MD
Jane Doe

Medications: Rifampin 600mg, Isoniazid 300mg, Pyrazinamide 1000mg, Ethambutol 800mg, Pyridoxine 50mg

Instructions: Take 2 packets each day

4. Refer to DSHS Video-Enabled Directly Observed Therapy Required and Recommended Activities Manual when using VDOT for eligible clients (dshs.texas.gov/idcu/disease/tb/policies)
5. Order medication bottles for clients with TB infection. These may be provided to the client with the following labeling requirements as required by the Texas State Board of Pharmacy (TSBP), Rule Title 22, Texas Administrative Code §291.93 (see Figure 2. Sample Medication
Label for Bulk Bottles).

a) The label must be printed and attached to bottles for self-administered medications and include:
   (1) name, address and telephone number of clinic;
   (2) name and strength of drug; if generic, name of drug manufacturer or distributor;
   (3) quantity;
   (4) lot number; and
   (5) expiration date.

b) The authorized, licensed nurse will ensure the labeling directions include:
   (1) client name;
   (2) date medication is provided;
   (3) physician name; and
   (4) directions for use (per TSBP rules, incomplete directions for use may be present and if so, are to be completed by the authorized licensed nurse at time of provision).

Figure 2. Sample Medication Label for Bulk Bottles

E. Order medications for clients in accordance with provider orders, the DSHS TB formulary (see Appendix H: DSHS TB Formulary) and TB Branch requirements. The following types of medications are available to TB programs:
   1. First-Line Medications.
   2. Second-Line Medications (see Table 6):
      a) Second-line medications may be ordered for:
         (1) clients intolerant to first-line drugs;
         (2) clients resistant to first-line drugs;
         (3) clients with TB pathology requiring second-line medications (i.e. TB meningitis); and/or
         (4) contacts to clients with resistance to first-line drugs who are recommended treatment for TB infection.
b) Consultation with a DSHS-recognized medical TB consultant is required before ordering second-line medications unless the medication is listed as part of a TCID-discharge summary. TB programs may be required to show documentation of consultation at any time upon request by the TB Branch. TB programs should therefore attach written consultation notes to the THISIS event.

c) Most second-line medications are available via ITEAMS. Exceptions:

(1) Bedaquiline (BDQ) is available through assistance programs (i.e. Johnson and Johnson Patient Assistance Foundation). Coordinate with the TB Branch Nurse Consultant to obtain medications from the DSHS Pharmacy for short-term use while other purchases are pending.

   a) See Bedaquiline Ordering Guide: dshs.texas.gov/idcu/disease/tb/forms/#drug Resist

(2) Clofazimine (CFZ) is an investigational drug and not currently available to order through the DSHS Pharmacy. It is available to physicians enrolled in the Food and Drug Administration (FDA) study. If the client received CFZ while at TCID, adhere to the following:

   a) Arrange clinical assessments every three months with TCID’s prescribing physician to continue receiving CFZ.

   b) Contact TCID for medication refill two weeks before running out of CFZ if it is not yet time for the client’s three-month visit.

   c) CFZ is available through TCID’s pharmacy or from the physician participating in the CFZ investigational drug study ONLY.

Table 6. Second-Line Medications

<table>
<thead>
<tr>
<th>Drug Type*</th>
<th>Name of Medication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injectable Agents</td>
<td>amikacin</td>
</tr>
<tr>
<td>Fluoroquinolones</td>
<td>levofloxacin, moxifloxacin</td>
</tr>
<tr>
<td>Bacteriostatic Agents</td>
<td>bedaquiline, cycloserine, ethionamide, para-aminosalicylic acid (PAS)</td>
</tr>
<tr>
<td>Other Oral Agents</td>
<td>clofazimine, linezolid</td>
</tr>
</tbody>
</table>

*Second-line medications include, but are not limited to these groups

3. Auxiliary medications:

   a) Additional medications are available on the TB formulary to
support individualized patient care. They include but are not limited to:
(1) anti-emetics;
(2) corticosteroids; and
(3) lidocaine.

To order auxiliary medications, programs have the following options:
- The TB provider may write a prescription for the client to fill at their own pharmacy.
- The managing TB program may coordinate with the client’s medical home to obtain the medications (this includes linking the client to a FQHC or community clinic; ensure patient signs consents to share medical information).
- The provider may consider over-the-counter medications that the patient may choose to purchase.
- The managing program may request the medication via ITEAMS when the above options have been exhausted. The TB Branch reserves the right to request documentation of attempts to obtain auxiliary medications at any time.

F. Mail medications to clients when in-person provision is not possible (see Appendix I: Medication Mailing Processes).

G. Manage and monitor distribution of tubersol and TST supplies for:
1. Chapter 89 Correctional Settings:
   a) Distribute tubersol and syringes to correctional facilities meeting Texas Health and Safety Code Chapter 89 requirements as needed (statutes.capitol.texas.gov/Docs/HS/htm/HS.89.htm)
   b) Manage and monitor supply requests received from Chapter 89 facilities by engaging in the following activities:
      (1) review the Correctional TB Screening Plan (TB-805) to determine if the facility lists the TB program as the entity to provide tubersol and testing supplies. If the Correctional TB Screening Plan does not list the TB Program as the entity that provides tubersol and testing supplies, the request must be denied, and the requestor notified. Chapter 89 facilities are required to maintain an updated and accurate Correctional TB Screening Plan.
      (2) review orders to ensure the facility is requesting a reasonable amount of supply to match their monthly averages (as noted on the monthly aggregate report) and reads a high majority of tests placed (>80%).
      (3) ensure inmates are screened appropriately and there is a limited amount of duplicate testing. The facility should only routinely test inmates who have not been screened in the past 12 months in previous bookings.
(4) ensure the facility is not delinquent in submitting their monthly aggregate report to the TB program.
(5) ensure the facility has exhausted their current supply and does not have tuberculin stock-piled.
(6) ensure the facility is only testing inmates who will likely remain at the facility for longer than 7 days.

c) Maintain an inventory of tuberculin skin testing supply provided to each correctional facility monthly.
d) Adjust quantity distributed based on trends in usage.
e) Halt distribution of tuberculin testing supplies if monthly reports of usage are not provided by the receiving facility.

2. Community-based organizations serving high risk populations based on an environmental risk assessment:
   a) Prepare and sign a memorandum of agreement for each entity determined by the TB program to receive tuberculin skin testing supplies.
   b) The memorandum of agreement should clearly explain the distribution, storage and reporting process including indicators that may halt or discontinue receiving tuberculin skin testing supplies (including but not limited to yearly evaluation of treatment completion rates).
   c) Distribute tubersol and syringes to community-based organizations when an epidemiologic assessment determines the selected facility is considered high risk for TB and targeted testing is a reasonable response to prevent a recurrence of TB disease transmission.
   d) Maintain an inventory of tuberculin skin testing supplies provided to each facility monthly.
   e) Review monthly tuberculin skin testing reports submitted by each targeted testing facility to determine use.
   f) Adjust quantity distributed to targeted testing sites based on trends in usage.
   g) Halt distribution of tuberculin testing supplies if monthly reports of usage are not provided by the receiving facility.

H. Avoid using or distributing state-purchased tubersol and testing supplies in populations or in settings not approved by the TB Branch. State-purchased tubersol and testing supplies are NOT approved for use in the following groups:
   1. Foreign born people from high prevalence countries aged 2 and older who do not refuse phlebotomy
   2. Schools, hospitals or other congregate settings not identified for a targeted testing project (see Conduct Targeted Testing)
   3. Low-risk adults and children who are requesting testing for administrative reasons
4. School-aged children\(^3\) who request testing for school, in general

I. Reconcile medication inventory.
   1. Maintain a count of DSHS-purchased medications and supplies.
   2. Reconcile bulk inventory according to product and lot numbers listed in ITEAMS no later than the seventh working day of each month. Bulk medication inventory refers to bottles of medications, as opposed to medication packets.
   3. Transfer products that have not been used in 6-9 months (or will not be used in 6-9 months) to another TB program where demand is greater.
   4. Record the transfer to another TB program facility as a “transfer order” by selecting the reason from the ITEAMS drop down list.
   5. Establish protocols and procedures for the disposal of expired/non-usable medications.
   6. Coordinate with ITEAMS inventory staff to ensure TB orders comply with best practices.
   7. Store all DSHS-purchased medications and supplies properly and securely in accordance with manufacturer’s instructions.

---

\(^3\) The TB program should not be the primary source of TB testing in school-aged children. First, they should be referred for screening at their school or primary care office, an immunization clinic or to a Medicaid provider (Medicaid providers must follow TB screening guidelines under *Texas Health Steps*). If the child has no alternate resources for school screening, they may be tested with an IGRA if they present with risk factors for TB as evidenced by their answers to the **TB Questionnaire**. See DSHS Policy TB-1003 “Tuberculosis Screening for Children in Various Settings” at [dshs.texas.gov/idcu/disease/tb/policies/](dshs.texas.gov/idcu/disease/tb/policies/).
VIII. Conduct and Manage a TB Contact Investigation

General Requirement

TB programs will conduct a CI for people with probable (Class 5) or confirmed (Class 3) pulmonary, pleural or laryngeal TB disease and evaluate, treat and monitor their contacts. The goal of a CI is to find people exposed to TB who are likely to become infected or progress to TB disease to prevent further transmission.

Activities

A. Initiate a CI.
   1. Conduct the initial interview within three working days of a patient being reported to the TB program with probable or confirmed TB diagnosis.
      a) The interview should take place in the primary language of the client or their representative (parent or guardian for young children or proxy for clients diagnosed at death), using an interpreter if needed. Document interpreter services on the DSHS EF12-12062 CI Worksheet or equivalent.
      b) Clients who are AFB sputum smear positive and/or with chest radiography revealing cavitation must have the second interview seven days after the initial interview.
   2. Visit the primary residence of a client within three working days of initial report.
   3. Visit additional sites where transmission may have occurred.

B. Determine infectious period using Form TB-425 (TB Infectious Period Calculation Worksheet).
   1. The infectious period generally begins three months before the onset of symptoms (see Table 7).
   2. Determine date in which contact was broken based upon:
      a) date of physical separation from the index case; or
      b) date the index case is no longer considered infectious.

C. Prioritize all contacts into high, medium or low categories (see Table 8).
   1. Consider index case characteristics (e.g., site of TB disease, AFB sputum smear results).
   2. Consider contact characteristics (e.g., aged 4 and younger, HIV status).
   3. Calculate weekly and cumulative exposure hours.
      a) Contacts with greatest duration of time spent with case have highest risk of exposure and should be tested first.
      b) Extend testing to other contacts with less exposure only if significant transmission is observed.
   4. Consider exposure setting (e.g. size, indoors/outdoors, windows).
   5. Do not initiate a CI without first prioritizing contacts.
Table 7. Estimating the Infectious Period

<table>
<thead>
<tr>
<th>Index Case Characteristics</th>
<th>Infectious Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB Symptoms</td>
<td>AFB Sputum Smear (+) Result</td>
</tr>
<tr>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>✓</td>
<td>➤</td>
</tr>
<tr>
<td>✓</td>
<td>➤</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Three months before symptom onset or first positive finding* consistent with TB disease (whichever is longer)

Three months before symptom onset or first positive finding* consistent with TB disease (whichever is longer)

Four weeks before the date of suspected TB diagnosis

Three months before first positive finding* consistent with TB disease

*abnormal CXR consistent with TB or bacteriology

D. Conduct first and second round screening.
   1. Initiate screening for high priority contacts within seven working days of identification.
   2. Initiate and complete first round screening within four weeks of identification.
   3. IGRA is the preferred testing method in Texas. TST may be used if IGRA is contraindicated or patient refuses phlebotomy.
   4. Avoid testing people with low risk of infection.
   5. A complete evaluation generally includes:
      a) a contact interview to obtain relevant medical history, including specific questions about symptoms of TB disease, previous positive IGRA or TST and/or previous treatment for TB;
      b) administration, reading and interpretation of a TST or IGRA;
      c) a chest radiography; and/or
      d) collection of sputum or other specimens for mycobacteriology testing.
### Table 8. Guidelines for Prioritizing Contacts

<table>
<thead>
<tr>
<th>Index Case Characteristic</th>
<th>Contact Prioritization</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pulmonary, laryngeal or pleural TB</strong></td>
<td><strong>High Priority</strong></td>
</tr>
<tr>
<td>• Cavitary lesion on CXR; or</td>
<td>• All household contacts; or</td>
</tr>
<tr>
<td>• AFB sputum smear positive</td>
<td>• Contact in a congregate setting (schools, detention facilities, etc.); and with significant frequency and duration of exposure</td>
</tr>
<tr>
<td><strong>Any hours of exposure for:</strong></td>
<td>• Children &lt;5 years; or</td>
</tr>
<tr>
<td>• Contact with medical risk factors (e.g., HIV, immune compromising condition); or</td>
<td>• Contact exposed during specific medical procedures (bronchoscopy, sputum induction or autopsy).</td>
</tr>
<tr>
<td><strong>Medium Priority</strong></td>
<td>• Anyone 5–15 years who does not meet one of the high priority criteria; or</td>
</tr>
<tr>
<td>• Contacts with significant frequency and duration of exposure.</td>
<td><strong>Low Priority</strong></td>
</tr>
<tr>
<td>• Only consider if expansion is warranted.</td>
<td></td>
</tr>
</tbody>
</table>

| Probable or confirmed pulmonary or pleural TB | **High Priority** |
| • Abnormal CXR consistent with TB disease; and | • All household contacts; and |
| • AFB sputum smear negative; and | • Contacts with significant frequency and duration of exposure. |
| • Might be NAAT positive and/or AFB culture positive | **Any hours of exposure for:** |
| **Medium Priority** | • Children <5 years; or |
| • Contact with medical risk factors (e.g., HIV, immune compromising condition); or | • Contact exposed during specific medical procedures (bronchoscopy, sputum induction or autopsy). |
| • Contacts with significant frequency and duration of exposure. | **Low Priority** |
| • Only consider if expansion is warranted. | |

6. Begin second round screening eight to ten weeks after break in contact or after the end of the infectious period, whichever is first.
   a) Retest all contacts whose initial IGRA or TST results were negative after documented contact break with the index, including contacts started on window prophylaxis.
   b) Contacts whose IGRA or TST results are negative and asymptomatic at second round testing have received a complete evaluation.
   c) If a contact was identified after first round screening was initiated, they are still eligible for second round screening. Perform one test eight to ten weeks after break in contact for a complete evaluation.

E. Consider CI expansion if the infection rate is high or if TB transmission is detected (see Form TB-460, Expansion Analysis Check-List).
   1. TB infection among high priority contacts indicates transmission.
      a) The TB Branch generally uses an infection rate of ≥ 20%. This percentage should be modified based on sentinel events and local data.
      b) An investigation should not be expanded without first reviewing screening results among high priority contacts.
   2. Other indicators of transmission include:
      a) positive tests in contacts aged 4 and younger;
      b) a change in TST or IGRA status from negative to positive among contacts between first and second-round testing; and
      c) contacts diagnosed with TB disease.
   3. As needed, request a consult with DSHS TB Branch epidemiologists to discuss whether an expansion to low priority contacts is warranted. Submit consultation request to TBEpiEvaluation@dshs.texas.gov.

F. Conduct a follow-up investigation for all TB isolates identified as M. bovis.
   1. Ask about a history of consuming raw, unpasteurized dairy products or exposure to livestock.
   2. If exposure to either is identified, investigate location of exposure.
   3. If a Texas dairy or livestock area is identified, contact the TB Branch to determine if reporting to appropriate partner state agencies is warranted.

G. Notify the TB Branch of mass screenings or concerning CIs within 48 hours.
   1. Submit Form EF12-12104 (TB Incident Report) or equivalent via GlobalScape for CIs involving:
      a) > 50 people identified for screening in a single location;
      b) > 25 people in a K-12 school; and/or
      c) media involvement.
   2. Seek consultation with TB Branch epidemiologists.
   3. Submit timely written updates to the TB Branch as updates are
available. These may include:
   a) Bacteriologic or radiologic results
   b) Environmental assessments
   c) Contact prioritization
   d) Screening dates
   e) Screening methods
   f) Evaluation results
   g) Other relevant details

4. Mass screenings using DSHS-purchased supplies should not be performed without prior TB Branch approval.

H. Manage contacts to a relapsed case.
   1. Retest those contacts whose prior TST or IGRA results were negative.
   2. Test any new contacts identified since therapy was completed.

I. Conduct interviews throughout the client’s treatment period.
   1. For all contacts, document the date of identification and the date of break-in-contact with the index on Form TB-341.
   2. Re-interview client one to two weeks after initial interview to obtain and/or clarify missing data. Consider using different interviewers.
   3. Additional client and contact interviews may be required when:
      a) drug susceptibility results indicate drug resistance; or
      b) genotyping results indicate client is part of a cluster.

J. Coordinate CI activities with medical staff and administrators in congregate settings within the TB program’s jurisdictions.
   1. Collect names and evaluation results of contacts in congregate facilities.
   2. Collect names and locating information for community contacts.
   3. Provide technical assistance and guidance when necessary.
   4. Consult DSHS epidemiology staff as needed.

K. Conduct airline exposure screening based on notifications received from the TB Branch via the CDC Division of Global Migration and Quarantine (DGMQ).
   1. TB Branch epidemiologists will provide contact information for people exposed to an infectious TB case on an international flight.
   2. TB program staff will locate contacts and complete screening.
   3. Complete the DGMQ TB CI Form and submit via GlobalScape to the TB Branch within two weeks of notification.
IX. Manage Contacts to Confirmed or Probable Tuberculosis Cases

General Requirement

TB programs will evaluate, treat and monitor contacts to probable or confirmed cases of pulmonary, pleural or laryngeal TB disease in accordance with current DSHS SDOs.

Activities

A. Evaluate high priority contacts. Consider testing results of high priority contacts before addressing any medium or low priority contacts.
   1. Conduct medical evaluations of high priority contacts. If the CI is expanded, evaluate medium-priority contacts.
   2. Face-to-face physician medical evaluation at diagnosis is preferable for initiation of treatment or resumption of medications.
   3. Refer for and obtain chest radiography within 14 calendar days if:
      a) the initial IGRA or TST result is positive and no history exists of a previously positive TB test; or
      b) if the client reports signs and symptoms of TB regardless of IGRA or TST.
   TB programs with on-site radiograph equipment should obtain a chest radiography within 10 calendar days.
   4. Assess for TB disease if a contact tests positive and exhibits symptoms of TB disease and/or has an abnormal chest radiography.
   5. If the IGRA or TST result is positive and the chest radiography is normal and/or TB disease has been ruled out, consider treatment for TB infection.
   6. If a previously positive contact did not receive treatment for TB infection, evaluate for TB disease, which includes a symptom review and a chest radiography. If there is no indication of disease, consider treatment for TB infection.
   7. If a previously positive contact completed treatment for TB infection, further treatment may not be required unless recommended by the treating physician.
   8. Review and assess the completeness of the contact’s medical evaluation.

B. Consider DST results of the index case in determining a contact’s course of treatment.
   1. All contacts to MDR-TB, pre-XDR or XDR TB cases must receive a consult from a DSHS-recognized medical TB consultant.
   2. For contacts treated with INH in the past and are now exposed to an INH-resistant case, rifamycin may be needed for the new exposure.
   3. Provide DOT for contacts to MDR, pre-XDR or XDR TB cases who are
diagnosed with TB infection; consider VDOT as resources allow.

C. Follow DSHS SDOs in determining treatment regimens.
   1. Provide medications in accordance with DSHS SDOs.
   2. Document completion of treatment on the appropriate reporting form such as Form TB-400A or equivalent.
   3. Document reason(s) medication was stopped if treatment was not completed.
   4. Conduct minimum monthly reviews of adherence to treatment for TB infection.
   5. Conduct minimum monthly reviews to identify adverse reactions to treatment for TB infection.
   6. Contacts receiving treatment for TB infection who develop signs and/or symptoms suggestive of TB disease should have medications held and receive a follow-up chest radiography before continuing treatment for TB infection.

D. Manage high risk contacts.
   1. The decision to treat is based on a physician’s assessment and diagnosis. Physicians for HIV-infected people may need results of smears, cultures or other rapid diagnostic procedures on appropriate specimens to differentiate between TB infection and active TB disease.
   2. If the repeat TB screening test remains negative eight to ten weeks after break in contact to index case (beyond the window period), it is recommended that the following groups complete a full course of treatment for TB infection:
      a) Clients with HIV
      b) Clients receiving immunosuppressive therapy for organ transplant
      c) Clients taking TNF-α inhibitors
   3. If the repeat TB screening test remains negative eight to ten weeks after break in contact for children aged 5 and younger, treatment can be discontinued. Infants 5 months and younger should continue window prophylaxis until they undergo a repeat TST at 6 months.

E. Maintain a medical record for each person on treatment for TB infection, including those on window prophylaxis. The medical record should include at minimum the following DSHS forms or local equivalents:
   - TB 400A (Report of Case and Patient Services) with “LTBI only” section completed
   - TB-202 (Tuberculosis Health Assessment/History)
   - TB-203 (Education/Counseling Record)
   - TB-204 (Tuberculosis Forms/Literature Checklist) may be modified with updated literature used locally
- TB-205 (Toxicity Assessment)
- TB-206 (DOT Log) when applicable
- L-36 (General Consent and Disclosure)
- L-30 (Consent to Release Confidential Medical Information)
- TB 415 (Disclosure and Consent for Drug Therapy TB Infection)
X. Manage False Positive Investigations

**General Requirement**

TB programs will manage false positive investigations in accordance with local protocols and procedures. TB programs may initiate a false positive investigation independent of the TB Branch.

**Activities**

A. Determine the need for a false positive investigation when:
   1. a single positive culture for *M. tb* exists for a patient; and/or
   2. the treating physician suspects the clinical presentation is not consistent with culture findings.

B. Notify the local health authority if a false positive investigation is warranted.

C. Consider consulting with a DSHS-recognized TB medical consultant.

D. Initiate the false positive investigation.
   1. Complete the *False Positive Investigation Worksheet* (see [dhs.texas.gov/IDCU/disease/tb/forms/DOCS/FPWorksheet.doc](dhs.texas.gov/IDCU/disease/tb/forms/DOCS/FPWorksheet.doc) or equivalent).
   2. Contact the originating laboratory to determine source of false positive result (e.g., lab contamination vs. specimen collection error).
   3. Use genotyping data to support the investigation.
   4. Upon conclusion, provide a summary of the investigation results to include in the patient record, if warranted.

E. Request TB Branch assistance as needed.
   1. Submit a completed *False Positive Investigation Worksheet* with supporting documentation.
   2. The TB Branch will convene a meeting with appropriate parties to discuss findings.
   3. The TB Branch will provide documentation to the requesting TB program summarizing investigation results and conclusions.
   4. The TB Branch cannot provide treatment recommendations or confirm/refute the possibility of false positive culture results. TB is a clinical diagnosis and the patient’s treatment plan should always be directed by clinical findings as determined by the licensed healthcare provider in conjunction with laboratory information.

F. Report closed cases due to false positive results to the DSHS Surveillance Branch with supporting documentation (e.g., amended laboratory report, medical consultation, provider notes) justifying change in case status within 45 days of closure.
XI. Conduct Targeted Testing

General Requirement

TB programs will identify high risk groups and congregate settings for which testing for TB infection and disease is justified. The goal for targeted testing is to identify, evaluate and treat populations at high risk for TB infection or at high risk for progressing to TB disease. TB programs will conduct targeted testing in accordance with DSHS standards.

Activities

A. Develop a targeted testing plan to identify and treat population groups at high risk for exposure to TB or for developing disease once infected.
   1. Make a site selection only when an epidemiologic assessment determines the facility or group is considered high risk for TB and targeted testing is a reasonable response to prevent a recurrence of TB disease transmission.
   2. Identify the necessary resources for follow-up medical evaluation and treatment before initiating testing activities. Base decisions to conduct targeted testing on the ability to provide treatment services.
   3. Conduct TB testing activities only among high risk groups and/or settings. Unfocused population-based testing is not cost-effective and drains limited resources.
   4. A decision to test is a decision to treat.
      a) Offer treatment for TB infection to clients regardless of age unless medically contraindicated once TB disease has been excluded.
      b) Document clinician’s reason in the medical records as to why treatment was not recommended (e.g., alcohol addiction, drug abuse, mental illness, unstable housing, low-income, deportation, etc.).
   5. Base the decision to continue targeted testing on periodic (yearly, if not sooner) assessments to determine if the sites:
      a) continue to have risk factors for TB, as determined by the risk assessment;
      b) report high percentages of TB infection, as determined locally; and or
      c) yield high rates of treatment completion (for example, over 80%).

If selected sites do not show a continued epidemiologic need or do not yield locally determined rates of infection or treatment completion, the decision to discontinue routine targeted testing should be made.

B. Document targeted testing activities.
Form EF12-14427 in Word or Excel to TB Branch no later than the second Friday of the month for testing from previous month via GlobalScape. Notify the Branch Administrative Team (BAT) prior to sending report.

2. Track people who start and/or complete treatment for TB infection or TB disease.

3. Include targeted testing activities on the DSHS Annual Progress Report (APR).

C. Analyze local epidemiologic data to assess the need for targeted testing, particularly congregate settings.

1. Complete a TB risk assessment for congregate settings where a targeted testing project is being considered (see Form TB-500).

2. Targeted testing projects may be offered in medium or high risk congregate settings to include:
   a) homeless shelters;
   b) nursing homes;
   c) dialysis centers;
   d) residential facilities;
   e) social service programs for people with HIV;
   f) drug and alcohol rehabilitation centers;
   g) methadone centers; and
   h) migrant farm worker camps.

3. Provide guidance to medium and high-risk facilities operating or starting a TB screening program.

D. Identify groups at risk for developing TB disease.

1. Evaluate the following at-risk populations for TB infection in accordance with DSHS SDOs:
   a) Foreign born people from countries with a high prevalence of TB (defined as countries with a TB rate ≥20 cases/100,000; see World Health Organization, who.int/tb/country/data/profiles/en/ and Table 9)
   b) Some medically underserved, low income populations defined locally as having an increased prevalence of TB disease
   c) Residents of high risk congregate settings
   d) People who inject illicit drugs or other groups of high risk substance users (e.g., injection drug users, heroin, etc.)

2. Complete the Targeted Tuberculin/IGRA Testing Screening Form (DSHS Form TB-207).
Table 9. Prioritizing Evaluation of TB Infection for Foreign Born People

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Medical Exam Site</th>
<th>How they are referred to the TB program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Priority for Services Provided by the TB Program</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refugees</td>
<td>A person who comes from another country after fleeing war, persecution or other reasons and are unwilling or unable to return to that country because of persecution or a well-founded fear of persecution because of race, religion, nationality, membership in a social group or political opinion.</td>
<td>Panel Physicians Overseas</td>
<td>Referred through the EDN system. The TB Program is responsible for evaluation and treatment when indicated.</td>
</tr>
<tr>
<td>Immigrants Seeking Formal Permanent Residence</td>
<td>A person who comes from another country to live in the U.S. Citizens of foreign countries who would like to obtain permanent resident status in the U.S. must obtain visas (i.e. family, employment, fiancé and diversity-based such as “lottery” visas). <a href="http://travel.state.gov/content/travel/en/us-visas/immigrate.html">travel.state.gov/content/travel/en/us-visas/immigrate.html</a></td>
<td>Panel Physicians Overseas Civil Surgeon domestically</td>
<td>Some may be referred through the EDN system; TB programs must perform a full evaluation. Others are seen by a panel physician overseas and need clearance by a Civil Surgeon domestically depending on Visa. The Civil Surgeon is then responsible for initial screening and evaluation and may report to the TB program when: 1. there is suspicion of TB disease. 2. after a diagnosis of TB infection is made (Civil Surgeons are responsible for initial TB testing and CXRs when indicated). TB programs may offer treatment.</td>
</tr>
<tr>
<td>Status Adjusters</td>
<td>People in the U.S. applying for adjustment of status to a permanent resident of the U.S.</td>
<td>Civil Surgeons domestically</td>
<td>Referred from a Civil Surgeon when: 1. there is suspicion of TB disease. 2. after a diagnosis of TB infection is made (Civil Surgeons are responsible for initial TB testing and CXRs when indicated). TB programs may offer treatment for TB infection.</td>
</tr>
</tbody>
</table>
### Texas Tuberculosis Work Plan
(Revised 8/31/20)

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Medical Exam Site</th>
<th>How they are referred to the TB program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prioritize Based on Local Resources Available at the PHR or LHD</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Immigrants</td>
<td>Include migrants entering the U.S. with or without documentation.</td>
<td>N/A</td>
<td>Incidentally if evaluated by a clinician; may self-refer. Evaluate as resources allow.</td>
</tr>
<tr>
<td>Non-Immigrants</td>
<td>Tourists, students, specialty workers who obtain visas for non-permanent stays in the U.S.; these visas do not permit the person to live indefinitely in the U.S. They include Business (B-1), Tourism (B-2), Student (B, F, or M) Visas for temporary travel. <a href="http://travel.state.gov/content/travel/en/us-visas/tourism-visit/visitor.html">travel.state.gov/content/travel/en/us-visas/tourism-visit/visitor.html</a></td>
<td>May be required for a medical exam at the discretion of the consular officer overseas or immigration officer at the U.S. port of entry.</td>
<td>Incidentally if evaluated by a clinician; may self-refer. Evaluate as resources allow.</td>
</tr>
<tr>
<td>Short-Term Transit</td>
<td>Transit (C) Visas for people traveling in immediate and continuous transit through the U.S. to another country. <a href="http://travel.state.gov/content/travel/en/us-visas/other-visa-categories/transit.html">travel.state.gov/content/travel/en/us-visas/other-visa-categories/transit.html</a></td>
<td>N/A</td>
<td>Incidentally if evaluated by a clinician after interruption in travel and stay in U.S.; may self-refer. Evaluate as resources allow.</td>
</tr>
</tbody>
</table>

Adapted from: [cdc.gov/immigrantrefugeehealth/exams/medical-examination-faqs.html](http://cdc.gov/immigrantrefugeehealth/exams/medical-examination-faqs.html)

- Conduct testing using TST or IGRA in accordance with DSHS-approved age requirements.
- Assess effectiveness of targeted testing projects yearly based on:
  1. TB infection yield;
  2. Likelihood of identifying infected people that will progress from TB infection to disease (risk classification); and
  3. TB treatment completion rates.
- Evaluate immigrants with an A or B Classification referred from EDN System.
  1. Use the EDN system to access Class A and B immigrants assigned to the TB program.
     a) Identify at least two people to be assigned to retrieve notifications, enter evaluation and treatment on the TB Work Sheet and perform a final review of the TB Worksheet.
     b) Contact the TB Branch to get access to EDN. It is the position of the TB Branch that all TB programs must access EDN to view
notification of immigrants’ arrival in their jurisdiction and evaluate all class A and B immigrants assigned to their jurisdiction.

c) Notify the TB Branch when class B immigrants move. Provide the new location of the client and CDC will initiate transfer in EDN to reassign all electronic information to the receiving jurisdiction.

2. Initiate an appropriate medical evaluation within 30 days of notification and document on the Follow Up Worksheet (see Table 10. TB Follow-Up Worksheet).
   a) Contact the client within three working days of notification to schedule an evaluation.
   b) If a phone number is not available or if there is no response to the phone call within seven working days, send a letter to the home address listed in the EDN documents.
   c) If the only address listed is for a sponsor agency, contact the sponsor agency to verify the client’s address.
   d) If there is no response to the letter within ten working days from date sent, conduct a home visit.
   e) If all attempts to locate patient have failed, close the record and enter “lost to follow-up” on the EDN TB Follow Up Worksheet.

3. Complete the medical evaluation for all Class-B immigrants within 90 days of notification.
   a) Review all pre-departure medical records.
   b) Obtain a thorough medical history to include:
      (1) previous history of TB;
      (2) signs and symptoms of TB disease;
      (3) prior BCG vaccination;
      (4) prior treatment TB treatment;
      (5) prior diagnostic evaluation for TB; or
      (6) history of family or household contact with a known person having a history of TB disease, treatment for TB disease or diagnostic evaluation suggestive of TB.
   c) Consider the following for children in this population:
      (1) A history of recurrent pneumonia, failure to thrive and/or recurrent or persistent fevers. Any of these conditions should increase the provider’s index of suspicion.
      (2) Children experience higher rates of extrapulmonary TB disease, including meningitis and disease of the middle ear and mastoid, lymph nodes, bones, joints and skin.
Table 10. TB Follow-Up Worksheet

The TB Follow-Up Worksheet is used to document the initial evaluation of an arrival with a TB class condition. A complete evaluation requires a diagnosis, and when indicated, a treatment start date.

### Sections A & B

| Demographic & Jurisdictional Information | Pre-populated |

### Section C

#### Date of Initial U.S. Medical Evaluation

- Record date of initial evaluation.

#### IGRA or TST

- Administer TB screening test (IGRA or TST).
- Record date, brand and results of IGRA or TST used and interpretation (for people with TB Class-B conditions or TB-related abnormalities on CXR, a TST of ≥ 5 mm is considered positive).
- Record if a history of previous positive IGRA or TST.

#### U.S. Review of Pre-Immigration CXR

- Arrivals should bring their pre-immigration CXR film(s) or disk with them to exam.
- If the pre-immigration CXR is not available, mark “No.”
- If the pre-immigration CXR did not have the client’s name and date of birth, mark “Not Verifiable.”
- Record physician’s interpretation of pre-immigration CXR.
- Do not copy overseas panel physician’s interpretation of pre-immigration CXR into EDN follow-up worksheet (FUW).

#### U.S. Domestic CXR

- Record interpretation of CXR ordered by the medical director or consulting physician.
- Do not copy overseas panel physician’s interpretation of pre-immigration CXR into EDN FUW.
- If your medical director or consulting physician does not perform
| **Comparison** | □ Compare pre-immigration CXR to U.S. CXR and chose one option that best represents your clinician’s impression of the comparison.  
□ If the pre-immigration CXR is not available, mark “Unknown.” |
| **U.S. Review of Pre-Immigration Treatment** | □ Record interpretation of pre-immigration TB treatment based on review of client-provided pre-immigration documents and information. |
| **U.S. Microscopy/Bacteriology** | □ Collect specimen(s) for AFB smear and culture. Document specimen type, collection date and results.  
□ Report probable pulmonary or extrapulmonary TB disease to TB Branch within one working day. Do not wait for culture confirmation. |

### Section D

| **Evaluation Disposition Date** | □ Record date when medical director or consulting physician has completed the evaluation, if determined that the evaluation cannot be completed for one of reasons listed. |
| **Evaluation Disposition** | □ If the evaluation was completed, check the box “Completed evaluation.” Indicate whether treatment was recommended. If so, indicate whether for TB disease or TB infection.  
□ If the evaluation was initiated but not completed, check box “Initiated Evaluation/Not Completed.” Select reason(s) why evaluation was not completed from list provided. Check all that apply and write or enter other reasons beside “Other, specify.”  
□ If the evaluation was never initiated, check the box “Did not initiate evaluation.” Choose the reason(s) why the evaluation was never initiated from the list provided. Check all that apply and write/enter other reasons beside “Other, specify.” |
| **Diagnostic** | □ Mark the box corresponding to the CDC diagnostic classification as listed.  
□ Treatment is inappropriate for diagnoses of Class 1 or 0. The EDN system will create an error message if treatment is |
<table>
<thead>
<tr>
<th>Section E (Complete this section only if treatment was recommended in question D2)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. Treatment Initiated</strong></td>
</tr>
<tr>
<td>□ If treatment was initiated, mark “Yes” and specify “for TB disease or TB infection.”</td>
</tr>
<tr>
<td>□ Treatment must comply with CDC recommendations. Clients diagnosed at Class 2 or Class 4 should receive treatment unless contraindicated.</td>
</tr>
<tr>
<td>□ Consult the DSHS SDOs or TB Branch if uncertain which regimen to prescribe.</td>
</tr>
<tr>
<td>□ Treatment for Class 3 should rely on DOT and be provided through the client’s local or regional TB program.</td>
</tr>
<tr>
<td>□ If treatment was not initiated, mark “No” and specify the reason in the appropriate boxes.</td>
</tr>
<tr>
<td>□ Check all that apply and enter other reasons next to “Other (specify).”</td>
</tr>
<tr>
<td><strong>Treatment Start Date</strong></td>
</tr>
<tr>
<td>□ Specify date treatment was started (mm/dd/yyyy).</td>
</tr>
<tr>
<td>□ Leave this section blank until treatment has stopped.</td>
</tr>
<tr>
<td><strong>U.S. Treatment Completed</strong></td>
</tr>
<tr>
<td>□ Save the worksheet in EDN, but do not submit until treatment has completed or ended.</td>
</tr>
<tr>
<td>□ Mark the appropriate box to indicate whether treatment was completed or if it is unknown whether treatment was completed.</td>
</tr>
<tr>
<td>□ If treatment was not completed, mark “No” and specify the reason in the appropriate boxes. Check all that apply and enter other reasons next to “Other (specify).”</td>
</tr>
<tr>
<td>□ If treatment was completed, specify the date next to “Treatment Completion Date” (mm/dd/yyyy).</td>
</tr>
<tr>
<td>□ If treatment was initiated but not completed, specify the date treatment ended (date client stopped taking treatment) next to “Treatment End Date” (mm/dd/yyyy).</td>
</tr>
</tbody>
</table>
XII. Conduct Surveillance to Identify Unreported People with Probable or Confirmed TB

**General Requirement**

Develop and maintain TB surveillance mechanisms for early identification and reporting.

**Activities:**

A. Comply with the following:
   1. Designate at least one person with the ability to work on surveillance and case registry activities at least 85% of the time and at least one back-up person in their absence.
   2. Provide hardware and software necessary to conduct case registry activities (e.g., THISIS, access to web-based training and tools, GlobalScape access, access to WinZip or similar encryption software, etc.).
   3. Complete pre-requisite trainings (See Appendix N: Case Detection, Accuracy, Completeness, Timeliness, Security and Confidentiality (DACTS) Audit Tool, DACTS Audit Tool).

B. Contact providers who deliver TB services to at-risk populations to increase case reporting at least quarterly.

C. Educate and train providers and other key facilities on reporting.
   1. Provide education and training about TB reporting and surveillance to at least four of the following yearly:
      a) Hospitals
      b) HIV clinics
      c) Homeless shelters
      d) Drug rehabilitation facilities
      e) Indigent care facilities
      f) Kidney dialysis facilities
   2. Training must include but is not limited to TB case definition, when to report, how to report and Texas legal reporting requirements (see dshs.texas.gov/idcu/investigation/conditions/).
   3. Report training activities in the APR to the TB Branch.

D. Communicate with HIV/STD or general surveillance program staff in the local and regional health departments to identify unreported HIV/TB co-infections at least quarterly.
   1. Maintain documentation of these activities, then complete and submit the Surveillance Quality Assurance Template (SQA Template) via
Globalscape to the TB Program Surveillance Team within ten days after the end of each quarter.

2. Report educational activities on the APR.

E. Conduct Probable Case Investigations

1. Conduct daily investigations on all open records of probable cases received from the TB Program Surveillance Team within 24 hours of notification. TB Surveillance creates a probable case investigation based on the following circumstances when RVCT data has not been submitted by TB Programs:
   - Culture confirmation for *M. tb* or *M. bovis* and all other species contained in *M. tb* complex from the Electronic Laboratory Reporting (ELR) System
   - Culture confirmation for *M. tb* or *M. bovis* from genotyping
   - Culture confirmation from the drug resistance program
   - EDN notification or referral or transfer of ownership
   - Vital statistics (death certificate) or a medical examiner’s report
   - Hospital admission or discharge summary
   - Pharmacy records dispensing TB drugs
   - Infectious Disease Control Unit report of communicable disease
   - Receipt of an out-of-state IJN; provide status update within 30 days of notification
   - Initiation of a CI
   - Unreported source case identified

2. Track all laboratory reports of AFB smear and cultures received locally within seven working days for NAAT, final AFB culture results.

3. Resolve 100% of all probable case records within 45 business days of notification from TB Surveillance. Open cases pending verification that are not received by TB Surveillance after 45 business days of TB programs receiving laboratory-confirmed culture or NAAT results are delinquent.

4. Monitor all open suspected case records of TB in THISIS past 60-90 days and resolve within 120 days.
XIII. Reporting

General Requirement

TB programs must submit designated reports by established deadlines and schedules using DSHS-approved mechanisms. Managers must consolidate, verify and sign all case counts for the current calendar reporting year.

Activities

A. Report all ATS Class 3 cases in THISIS using the data elements in the CDC RVCT, *Figure 3. Data Elements as Represented on the Report of Verified Case of Tuberculosis* and the CDC TB case criteria adapted in the DSHS Epi Criteria and TB Surveillance Definitions Guide, 2018 within 45 business days of identification of a confirmed TB case.

See [dshs.texas.gov/idcu/investigation/conditions/](http://dshs.texas.gov/idcu/investigation/conditions/) for DSHS Infectious Disease Control Reporting information.

1. Use the Case Verification Form to verify case criteria and count status.
   a) Case criteria:
      (1) Laboratory confirmed
      (2) Clinical (pulmonary or extra-pulmonary)
      (3) Clinical by provider diagnosis
   b) Count status:
      (1) Counted
      (2) Not counted
         a) Out-of-state or country transfer
         b) Recurrent <365 days
         c) Binational
         d) Out-of-state contact investigation
         e) Out-of-state specimens processed in Texas
         f) *M. bovis* BCG

2. Include the minimum required data elements on the RVCT at time of initial report (See *Figure 3. Data Elements as Represented on the Report of Verified Case of Tuberculosis*):
   a) Date reported
   b) Full first, middle and last name
   c) Date of birth
   d) Race and ethnicity
   e) Country of origin, if not U.S.
   f) Date of entry into U.S.
   g) Laboratory and clinical data necessary to meet case definition as applicable
   h) Count status and date counted
   i) Verification of Texas residency, including physical address, city, county and ZIP code with 4-digit code (within or outside city limits)
   j) If diagnosed while in a facility or shelter, provide facility or
shelter name

k) Initial drug susceptibility results, as applicable

Figure 3. Data Elements as Represented on the Report of Verified Case of Tuberculosis

<table>
<thead>
<tr>
<th>Patient's Name</th>
<th>REPORT OF VERIFIED CASE OF TUBERCULOSIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address</td>
<td>(City) (State) (ZIP)</td>
</tr>
</tbody>
</table>

1. Date Reported
   - Month
   - Day
   - Year

3. Case Numbers
   - Year Reported (YYYY)
   - State Code
   - Locally Assigned Identification Number

2. Date Submitted
   - Month
   - Day
   - Year

4. Reporting Address for Case Counting
   - City
   - County
   - ZIP Code
   - Within City Limits (select one)
   - Yes
   - No

5. Count Status (select one)
   - Countable TB Case
   - Count as a TB case
   - Noncountable TB Case
   - Verified Case: Counted by another U.S. area (e.g., county, state)
   - Verified Case: TB treatment initiated in another country
   - Specified
   - Verified Case: Recurrent TB within 12 months after completion of therapy

6. Data Counted
   - Month
   - Day
   - Year

7. Previous Diagnosis of TB Disease (select one)
   - Yes
   - No
   - If YES, enter year of previous TB disease diagnosis:

8. Date of Birth
   - Month
   - Day
   - Year

9. Sex at Birth (select one)
   - Male
   - Female

10. Ethnicity (select one)
    - Hispanic or Latino
    - Not Hispanic or Latino
    - Other

11. Race (select one or more)
    - American Indian or Alaska Native
    - Asian: Specify
    - Black or African American
    - Native Hawaiian or Other Pacific Islander: Specify
    - White

12. Country of Birth
    - "U.S.-born" (or born abroad to a parent who was a U.S. citizen)
    - (select one)
    - Yes
    - No
    - Country of birth: Specify

13. Month-Year Arrived in U.S.
    - Month
    - Year


4. Enter RVCT Follow-Up I and II Report data in THISIS:
   a) Enter a completed Initial Susceptibility Report (Follow-up 1) in
THISIS on all culture-confirmed cases as soon as an initial susceptibility report is available.

b) Enter a completed Case Completion Report (Follow-up 2) in THISIS on all cases as soon as treatment completion or treatment outcome data is available.

c) Provide a justification for any Follow-Up 2 reports submitted more than 90 days after medication stop date in RVCT comments.

d) Provide the last date medication was given when treatment of the client stopped due to completion of adequate therapy, death, failure to locate, moved and/or 90 days’ passage since last medication dose.

e) Create a new EventID for a recurrent TB case that occurs when the duration between the last known date when TB treatment stopped and the date when a new TB treatment regimen started is less than 365 days, but the event is not counted as a new case. A TB case that occurs more than 365 days between the last known date when TB treatment stopped and the date when a new TB treatment regimen started should have a new EventID and a new RVCT number and will be counted as a new case. Perform a new CI in both instances. Do not merge these events in THISIS if they appear on the deduplication work flow.

B. Report all ATS Class 5 in THISIS with the same data required of confirmed TB cases. Update ATS Classification in THISIS when clinical data is available to reclassify the patient.

C. Maintain a digital or electronic log of all cases in their jurisdiction by county and year reported or counted with the following:
   1. Name
   2. Date of birth
   3. City/County address and jurisdiction
   4. Contact information
   5. THISIS EventID
   6. RVCT number (also referred to as the state case number)

D. Complete Forms TB-340 and 341, or Mass Contact Spreadsheet, within 90 days of initial source case report in THISIS. Enter the data from the forms in THISIS after THISIS training. The initial contacts’ report requires the following:
   1. Part A. Case/Suspect Information
   2. Part B. Interview and Exposure Site Information
      a) For every sputum smear positive case, conduct at least two different interviews seven days apart.
      b) Provide reason if at least three contacts to sputum smear positive cases were not identified.
      c) Provide reason if second interview was not conducted.
3. Part C. Contact Information
   a) Duration of exposure and setting
   b) HIV test results
   c) Priority status
   d) TST/IGRA test results
   e) CXR or other imaging date and interpretation

4. Verify that a complete evaluation was performed. A complete evaluation for the purposes of the CI Aggregate Report consists of a TST or IGRA result. If the result is positive, a CXR result and a diagnosis with an ATS classification are required. If the result is negative, perform a second TST or IGRA 8-10 weeks after the contact’s last exposure to the source case.
   a) Perform a symptom screen for an evaluation to be complete.
   b) Provide reason if evaluation was incomplete.

5. Update THISIS as “CI was indicated” = “Yes” if a contact investigation was initiated.
   a) If contact investigation was not initiated, provide reason

6. Update THISIS with contact follow-up information including:
   a) If treatment was recommended
   b) If treatment was not recommended, provide reason
   c) Treatment start date
   d) Treatment stop date
   e) If treatment was completed adequately
   f) If contact did not complete treatment adequately, provide reason

7. Update contacts’ treatment outcome in THISIS no later than three months from the date the contact stopped treatment.

8. Report contacts who develop active TB disease before submitting the subsequent contacts of those cases. Provide the linking RVCT number of their source case in THISIS.

9. CI that yields >49 contacts will be listed on the DSHS TB Mass Contact Spreadsheet. Request the most recent version from DSHS TB Surveillance case consultants before use.

E. Achieve National TB Program Objectives and Performance Targets. TB programs are required to achieve each measure outlined in Table 11.

F. Report false-positive cases.
   1. The DSHS TB Branch will assist TB programs’ investigation of false positives either due to laboratory contamination or another misdiagnosis (see Manage False Positive Investigations).
   2. Report any case closed as false-positive due to laboratory contamination or other reason to the TB Branch Surveillance Team with documentation to justify change in case status (e.g., amended laboratory report, doctor’s note, written medical consult, etc.) within 45 business days of closure.
   3. Review all other specimens associated with a false-positive case to
Table 11. *National TB Indicators Project* (NTIP) Objectives and National Targets on Contact Investigation

<table>
<thead>
<tr>
<th>Forms TB-340 and TB-341 Reporting Information</th>
<th>NTIP Objectives</th>
<th>U.S. Targets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Elicitation</td>
<td>For TB clients with positive AFB sputum-smear results, increase the proportion who have contacts elicited.</td>
<td>100%</td>
</tr>
<tr>
<td>Examination and Evaluation</td>
<td>For contacts to sputum AFB smear- positive TB cases, increase the proportion who are completely examined for infection and disease.</td>
<td>93%</td>
</tr>
<tr>
<td>Treatment Initiation</td>
<td>For contacts to sputum AFB smear- positive TB cases diagnosed with latent TB infection, increase the proportion who start treatment.</td>
<td>91%</td>
</tr>
<tr>
<td>Treatment Completion</td>
<td>For contacts to sputum AFB smear- positive TB cases who have started treatment for TB infection, increase the proportion who complete treatment.</td>
<td>81%</td>
</tr>
</tbody>
</table>

G. Prepare IJN for any probable or confirmed TB case, contact or person with TB infection including Class A or B immigrants, Immigration Customs Enforcement Agency (ICE) detainees and binational program clients moving to other jurisdictions, either in or out-of-state, will be transferred using the National TB Controllers Association (NTCA) IJN referral forms to ensure continuity-of-care and/or follow up. See the IJN form at [tbcontrollers.org/docs/resources/IJN_Form_May2015.pdf](http://tbcontrollers.org/docs/resources/IJN_Form_May2015.pdf).

1. Prepare IJNs for out-of-state transfers.
   a) When a TB case, suspect, contact or person with TB infection plans to move (or has moved) from Texas to another state, the referring TB program will complete an IJN referral form and send it with the patient’s pertinent medical records to the TB Branch IJN Coordinator, whose responsibilities include:
      1) Sending the IJN form and medical records to the receiving state’s TB program of the patient’s new state of residence;
      2) Maintaining a log to keep track of IJN referrals; and
      3) Sending a follow-up IJN to the receiving state TB program when the date of the patient’s projected...
treatment completion nears.

b) The receiving state TB program and the Texas TB surveillance team lead should discuss and agree where to count a referred case. The TB Branch Surveillance Case Consultant will assign an appropriate state case number for out-of-state transfers.

2. Accept IJN transfers from another state.
   a) When a probable or confirmed TB case, contact or person with TB infection moves to Texas from another state, the TB Branch IJN Coordinator receives the IJN referral forms and medical records from the referring state and gives them to the appropriate TB Branch Surveillance Case Consultant assigned to the receiving jurisdiction. The Surveillance Case Consultant will enter the data from IJN referrals, task the patient to the receiving jurisdiction’s case registrar through THISIS for follow-up and send the IJN documents to the case registrar by fax or via GlobalScape.

   The receiving TB program in Texas will communicate directly with the TB program from the referring state to request additional information as necessary to ensure appropriate continuation of care and follow-up in Texas.

   a) When a probable or confirmed TB case, contact or person with TB infection plans to move (or has moved) from one jurisdiction to another jurisdiction in Texas, the referring jurisdiction will send an IJN with the client’s medical records directly to the receiving jurisdiction and communicate directly with the receiving jurisdiction to ensure appropriate continuity of care and follow-up of the client.

4. Responsibilities of the referring jurisdiction:
   a) Prepare appropriate referral IJNs and send to the TB Branch IJN Coordinator for out-of-state transfers and directly to receiving jurisdiction for in-state transfers. Attach IJNs to the patient record in THISIS. Send all applicable medical information, medical records and chart information to the TB Branch IJN Coordinator (for out-of-state transfers) and to the receiving jurisdiction through secure fax, contracted courier or U.S. Postal Service following DSHS security and confidentiality guidelines.

   b) Call to confirm receipt of medical documentation at the receiving jurisdiction.

   c) Communicate directly with staff of receiving jurisdiction to ensure IJN and all other necessary client medical information is received.

   d) Follow up on the case periodically to ensure completion of treatment. It is the responsibility of the referring jurisdiction to report when treatment is completed or other treatment outcomes in THISIS. This is reflected in the jurisdiction’s
e) Enter the patient’s address change and treatment outcomes in THISIS.

f) Enter probable cases of TB in THISIS (see Epi Case Criteria for TB, dshs.texas.gov/IDCU/disease/tb/policies/Epi-Case-Criteria-for-TB.doc).

1. Complete suspected case of TB verification form to ensure criteria is met;
2. Perform data entry of all RVCT variables in THISIS as applicable within two weeks of notification;
3. Provide documentation if suspected case was placed in isolation and/or placed on a standard 4-drug regimen; and,
4. Update case completion information as soon as active disease is ruled out.

H. Incorporate QA protocols and procedures into surveillance activities.
   1. Generate all NTIP reports monthly.
   2. Request, collect and update missing information in THISIS before generating next month’s report.
   3. The TB Branch Surveillance Case Consultant will run the RVCT template weekly to check count status, report date and RVCT number. The Surveillance Case Consultant will create a task in THISIS for case registrars to inform them of the RVCT numbers and count status of new TB cases.
   4. THISIS end users responsible for entering CI data shall run the “TB Contact Evaluation and Disposition Report” from THISIS every two months to ensure contact evaluation and treatment outcome data are completed and no further follow-up is needed.
   5. Requirements for QA for TB Surveillance data are in Table 12.
   6. Respond to tasks in THISIS within 14 days after receipt.

Table 12. Requirements for QA for TB Surveillance Data

| Summary of CDC Requirements for Quality Assurance for TB Surveillance Data |
|---|---|
| TB programs will incorporate protocols and procedures into surveillance activities to ensure: | |
| • case detection (finding, counting and reporting all TB cases); | |
| • data accuracy (accuracy of data abstracted from original client records, of registry data and of data entered onto the RVCT form and transmitted to CDC); | |
| • data completeness; | |
| • timeliness; and | |
| • data security and confidentiality. | |

4 The “Completed Evaluation” part of this report in THISIS is not functioning at this time.
### Summary of CDC Requirements for Quality Assurance for TB Surveillance Data

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop written protocol for QA for TB surveillance data.</td>
<td>Describe how each of the QA components (case detection, data accuracy, data completeness, data timeliness and data security and confidentiality) is being conducted.</td>
</tr>
</tbody>
</table>

#### Qualified Participants:
- TB Branch Reporting and Surveillance
- State-designated case registries including TDCJ and Binational Programs (29)
- State-contracted counties

Develop and implement plans for improvement.

Source: [Quality Assurance for Tuberculosis Surveillance Data: A Guide and Tool Kit, 2013](#)

I. Review and submit designated reports received from jails that meet [Texas Health and Safety Code Chapter 89](#) requirements to the TB Branch via Globalscape.
   1. Submit monthly correctional TB screening reports within 15 business days of the following month.
   2. Collect Monthly Correctional TB Report (DSHS Form EF12-11462 in [Word](#) or [PDF](#)) and Positive Reactor Suspect/Case Report (DSHS [Form EF12-11461](#)) from jails and community corrections that meet Texas Health and Safety Code Chapter 89 requirements within five (5) business days of following month.

J. Complete and submit [Form TB-400B](#) on all newly diagnosed DR TB cases within five business days of notification to the TB Branch via GlobalScape.
   1. Complete and submit updated [Form TB-400B](#) every 90 business days for all DR TB cases until treatment completion.
   2. Submit changes in case management, drug resistance patterns or residence in any DR TB case within 72 hours of notification.

K. Complete and submit the APR using the TB Branch template to [TBContractReporting@dshs.texas.gov](mailto:TBContractReporting@dshs.texas.gov) once a year on April 15.

L. Submit completed cohort review documents in accordance with the listed cohort review period and submission schedule (see Conduct Continuing Quality Improvement Activities to Maintain a Robust TB Infrastructure) to the TB Branch via Globalscape.

M. Notify the TB Branch of concerning or mass screening CIs within 48 hours. Concerning CIs involve:
   1. Locations of interest include but are not limited to academic institutions, day care centers, nursing homes, hospitals, correctional
facilities (including community corrections), homeless shelters, airline exposures and other work settings.

2. Submit completed TB Incident Form (DSHS Form EF12-12104) within 48 hours of event to the TB Branch via GlobalScape. The Incident Report Form is at texasTB.org.

3. Contact a TB Branch epidemiologist to discuss:
   a) clinical presentation of the client;
   b) medical and social history of the client;
   c) screening method and results including test dates (initial round of testing);
   d) second round testing dates (planned);
   e) radiologic and bacteriologic status including NAAT results;
   f) infectious period;
   g) contact investigation forms;
   h) description of environmental assessment or planned environmental assessment;
   i) incident command response plan;
   j) results of epidemiologic assessment and next steps; and
   k) other relevant details.

4. Submit timely written updates to the TB Branch as updates are available (or as requested) that may include:
   a) NAAT results;
   b) environmental assessment to determine specific areas in which exposure occurred and the exposure period;
   c) stratification of contacts by risk;
   d) scheduled and actual dates of screening;
   e) screening methods (i.e. IGRA/TST);
   f) evaluation results based on risk stratification (all high-risk contacts should be tested first to determine the need for expansion); and
   g) other relevant details.

5. Submit a final epidemiologic update to the TB Branch after the investigation is closed.

N. Report mass screenings (contact investigations ≥ 50 contacts) when using DSHS TB Branch-purchased supplies. Do not perform mass screenings without prior TB Branch approval.

   1. Make every effort to educate and inform the “worried well” regarding the TB screening process to ensure TB epidemiologic principles are applied at each CI event.
   2. Use sound epidemiologic principles at each CI event to ensure appropriate people are identified for screening and to determine specific environments in which transmission may have occurred.
   3. Mass screenings that are not epidemiologically guided, drain limited resources and yield minimal results.
O. Conduct airline exposure screening based on notifications received from the TB Branch via the CDC Division of Global Migration and Quarantine (DGMQ).
   1. TB Branch epidemiologists will contact TB programs to provide the name and phone number of people exposed during the flight per the CDC DGMQ staff.
   2. TB programs must:
      a) notify airline contacts and instruct them to report to their program site for TB screening;
      b) screen contacts;
      c) complete and submit the DGMQ TB Contact Investigation Form to the TB Branch Epi Evaluation Team via GlobalScape within ten (10) business days of notification; and
      d) provide RVCT and contacts to surveillance staff for data entry into THISIS.

P. Submit a report of adverse drug reactions. Complete and submit form EF12-12274, *Report of Serious Adverse Drug Reaction Resulting in Therapeutic Changes, Hospitalization or Death*, to the DSHS Pharmacy within two (2) working days of notification of adverse event.
   1. A DSHS pharmacist will review the report and contact the sender as needed to determine if a report to the Food and Drug Administration (FDA) is necessary.
   2. Once a determination by the treating prescriber is made for disposition (changes in regimen, resuming or discontinuing medication, for example), the DSHS pharmacist will update the “Pharmacy Only” section of the report and send the form back to the submitter to file in the patient chart.
   3. While the [Adverse Drug Reaction Form](#) is intended to inform the DSHS Pharmacy, it is the responsibility of the treating prescriber to intervene and make changes to regimens when indicated.
   4. The DSHS Pharmacy will keep a record of all reported events and report to the FDA when indicated.
XIV. Implement Infection Control Procedures

General Requirement

TB programs will apply appropriate administrative, environmental and respiratory controls to prevent exposure to and transmission of M. tb.

Activities

A. Develop a TB infection-control plan to include administrative controls, environmental controls and a respiratory protection program.
   1. Administrative controls reduce the risk of exposure to people with infectious TB and may include:
      a) Assigning responsibility for TB infection control to a designated staff member
      b) Conducting a TB risk assessment (see DSHS TB-500)
      c) Developing and implementing a written TB infection control plan (See Appendix J: Sample Tuberculosis Infection Control Plan)
      d) Ensuring the availability of recommended laboratory processing, testing and reporting of results
      e) Implementing effective work practices for managing clients with TB disease and infection
      f) Ensuring proper cleaning, sterilization or disinfection of equipment and surfaces to prevent contamination
      g) Educating, training and counseling health care workers, clients and visitors about TB infection and disease
      h) Testing and evaluating clinic workers at higher risk for becoming infected with TB due to exposure to TB disease, including:
         (1) maintaining documentation in accordance with local record retention policies and procedures; and
         (2) reviewing results of TB screening for employees at least yearly.
      i) Applying epidemiology-based prevention principles, including the use of setting-related TB infection-control data
      j) Using posters and signs to remind clients and staff of proper cough etiquette and respiratory hygiene
      k) Coordinating efforts with high risk healthcare or congregate settings to reduce and prevent exposure to TB
   2. Environmental controls prevent the spread and reduce the concentration of infectious droplet nuclei and may include:
      a) Using local exhaust ventilation (e.g., hoods, tents or booths) to control the source of infection
      b) Using general ventilation to dilute and remove contaminated air
      c) Using high-efficiency particulate air (HEPA) filtration and/or ultraviolet germicidal irradiation (UVGI) to clean the air
      d) Controlling airflow to prevent the contamination of air in areas
Texas Tuberculosis Work Plan
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adjacent to airborne infection isolation (AII) rooms

3. A respiratory protection program further reduces the risk of exposure to infectious droplet nuclei that have been expelled into the air from a client with infectious TB and may include:
   a) Developing protocols and procedures on respiratory protection to include the type and size of respirators available to staff, routine inspection/maintenance and appropriate use
   b) Providing N-95 fit testing to employees who share the same air space with clients suspected or diagnosed with infectious TB disease
      (1) Fit-test employees at risk for exposure to infectious droplet nuclei:
          (a) upon initial hire and then every 12 months;
          (b) when physical changes (e.g., weight loss, growth of facial hair) alter the fit of the respirator; and/or
          (c) whenever a different respirator is used (e.g., size, style, make, model).
      (2) Maintain documentation of employee fit-testing in accordance with local record retention policies and procedures.
   c) Using N-95 respirators in situations that pose a high risk of exposure to TB disease
   d) Training health care workers on personal respiratory protection
   e) Educating clients on respiratory hygiene and the importance of cough etiquette procedures and providing surgical masks as needed
   f) Evaluating the effectiveness of the respiratory protection procedures through monitoring employees for conversion of TST or IGRA results

B. Ensure all environmental control equipment is properly installed, operated and maintained.
   1. Outline the responsibility and procedures for all environmental control equipment maintenance in a written TB infection control plan.
   2. Maintain a log of all environmental control equipment maintenance in accordance with local retention policies and procedures.
   3. Document any training required for the proper operation of environmental control equipment and retain in accordance with local policies and procedures.

C. Ensure separation of infectious or potentially infectious clients from other clients in the clinic (e.g., separate clinic spaces or appointment times).
   1. Determine degree of infectiousness (see DSHS SDOs).
   2. Review DSHS SDOs to determine when a client is no longer deemed infectious.

D. Perform droplet nuclei producing procedures (e.g., bronchoscopy, sputum
collection/induction) in an AIIR or booth, if available. For clinics without these capabilities, sputum specimens must be collected outside in a location that protects client confidentiality.


1. TB programs should test direct-care TB employees at baseline with an IGRA unless there is documentation of a previous positive IGRA test result.

2. The frequency of subsequent tests may be determined by the medical director based on occupational risk. See dshs.texas.gov/idcu/disease/tb/faqs/#HCW. Direct-care TB staff may be considered for yearly testing with an IGRA.
XV. Maintain a Competent Workforce

General Requirement

TB programs will provide professional education, training and orientation for new TB program staff and continuing education for current TB program staff.

Activities

A. Ensure all people providing services under the SDOs or equivalent protocols and procedures have the requisite experience and/or training to deliver appropriate services. See Appendix K: TB Training and Education Resources for TB training and education resources.

B. Provide orientation and training to all employees involved in TB activities, including physicians, nurses, contact investigators, outreach workers, case registry staff, receptionists and other support staff.

1. Initial training includes 40 hours of TB training specific to job duties within 90 days of employment:
   a) Use the CDC “Self-Study Modules on Tuberculosis” for the initial training (see cdc.gov/tb/education/ssmodules/)
   b) For registry and surveillance staff, initial training will include CDC “RVCT Self-Study Modules” (see cdc.gov/tb/programs/rvct/)

2. Core training topics for TB program staff include:
   a) transmission and pathogenesis of TB;
   b) epidemiology of TB;
   c) diagnosis of TB infection and disease;
   d) treatment for TB infection and disease;
   e) TB reporting and notifiable conditions;
   f) cultural awareness; and
   g) interpreter utilization.

3. Specialized training topics based on duties and responsibilities include:
   a) drug interactions and toxicity;
   b) TB CI;
   c) TB surveillance in hospitals and institutions;
   d) infectiousness and infection control;
   e) client adherence;
   f) interviewing, investigating and influencing techniques;
   g) directly observed therapy;
   h) TB nurse case management;
   i) TB program management; and/or
   j) CDC TB surveillance and reporting.

4. TB program managers, nurses, contact investigators and case registry staff must participate in the TB Branch Orientation after three months
of hire.
5. TB program staff must participate in the monthly TB conference calls and other required conference calls or trainings.
6. TB program staff must complete 16 hours of continuing education each calendar year relevant to each staff member’s position.
7. Case registry staff must attend the yearly medical records conferences and workshops to obtain current records management procedures.
8. Attend HNTC trainings, including webinars provided by all CDC regional TB medical and consultation centers (RTMCCs) as needed.

C. Maintain documentation of training for all employees and contracted staff.
   1. Retain logs (see Appendix L: Sample In-Service and Training Roster) for in-house trainings in accordance with local protocols and procedures, including:
      a) job titles;
      b) training dates;
      c) training or course titles; and
      d) number of hours.
   2. Retain copies of employee training certificates.
   3. Each medical director and/or local health authority must have sufficient access to training records to verify that those operating under their medical license have the requisite experience and training.

D. Notify the TB Branch of newly-hired TB program managers, nurses, contact investigators and case registry staff within 30 days of hire. Submit the Notice of Change of TB Personnel (dshs.texas.gov/idcu/disease/tb/forms/) to TBProgram@dshs.texas.gov.

E. Educate external stakeholders.
   1. As resources allow, provide TB education and training to:
      a) schools;
      b) correctional facilities;
      c) community health care providers;
      d) homeless shelters; and
      e) social service providers who may serve populations at high risk for TB or where the consequences of disease transmission could be severe.
   2. Maintain documentation (see Appendix M: Sample Stakeholder Training/Education Roster) of all external stakeholder TB trainings (including hours, topics, dates, group type and number of participants) in accordance with local retention protocols and procedures.
   3. Report stakeholder trainings on the DSHS APR.
XVI. Monitor Budget Expenses

General Requirement

LHDs will monitor budget expenses and maintain records in accordance with DSHS contract general provisions. PHRs will monitor budget expenses and maintain records as outlined in DSHS policies.

Activities

A. LHD TB programs are allowed a 25% maximum deviation from total DSHS funds to shift between direct cost categories (except equipment).
   1. If the budget transfer exceeds 25% of the total contract, alone or cumulatively, a formal contract amendment is required.
      a) Contractors shall provide notification of the budget transfer by submission of a revised Categorical Budget Form to the System Agency Contract Manager, highlighting the areas affected by the budget transfer.
      b) After review, the System Agency Contract Manager shall provide notification of acceptance to the contractor via email, upon receipt of which the revised budget shall be incorporated into the contract.
   2. LHDs must notify the DSHS Contract Management Section (CMS) of any requests greater than 25% of their award, including any equipment and indirect requests. The equipment threshold is currently $5,000.

B. Submit requests for reimbursement or payment by the last business day of the month following the month in which expenses were incurred or services provided.

C. Lapse no more than one percent of federal and state funds. Lapsing above the maximum percentage may impact future allocations.
   1. At the beginning of each state fiscal year, maximize the use of federal funds FIRST as lapses may impact future CDC funding.
   2. The TB branch reserves the right to decrease funding amounts as the result of budgetary shortfalls and/or due to lapsing more than one percent of total funds.

D. Notify CMS if personnel change requires a contract amendment.
XVII. Monitor Surveillance, Reporting and Case Management Activities in Correctional and Detention Facilities

General Requirement

TB programs will monitor and participate in TB prevention and care activities in correctional and detention facilities, except TDCJ facilities. The goals of correctional TB activities are early detection (case-finding), containment, treatment and prevention in correctional and detention facilities.

The TDCJ is responsible for directing TB care-related services within all prison units and community corrections under their purview. The TDCJ Health Services Division oversees medical services provided by contractors in state prisons and has the statutory authority and responsibility to ensure access to care, monitor the quality of care, investigate medical grievances and conduct operational review audits of health care services.

Regardless of size and ownership, all correctional and detention facilities in Texas, including federal prisons, state prisons, local jails and community correction facilities are subject to the provisions of the Communicable Disease Prevention and Control Act (Texas Health and Safety Code, Chapter 81, Rule § 81.065, 2016) and other applicable federal and state laws.

Activities

A. Provide technical assistance on TB prevention and care for all correctional and detention facilities, except TDCJ facilities, and monitor compliance with state laws.

B. Promote TB screening and treatment.
   A. Offer guidance to promote appropriate and timely screening practices (e.g., symptom screening, testing with TST or IGRA).
   B. Provide medical oversight for TB cases, suspects and contacts.
   C. Provide consultation for TB infection treatment among high risk groups.
      The initiation of treatment for TB infection should include consideration and planning for the likelihood of client continuing and completing treatment under supervision or being released from the facility before completion of treatment.

C. Participate in discharge planning and continuity-of-care.
   A. Facilitate discharge planning for inmates with confirmed or probable TB who are scheduled to be released or transferred to other correctional facilities or jurisdictions.
   B. Follow-up to ensure that TB cases and suspects continue TB treatment at the TB clinic nearest their residence or at the receiving correctional facility.
C. Provide continuity-of-care for employees and any inmates released to the community who are undergoing treatment for TB disease or infection.

D. Provide technical consultation to ensure adequate precautions are taken while transporting clients between correctional facilities or detention centers.

E. Refer foreign nationals to CURE-TB or TBNet for continuity-of-care coordination outside the U.S.

D. Coordinate, plan and/or actively participate in CIs.
   A. Conduct an interview to identify contacts and determine an inmate’s infectious period.
   B. Provide TB education and counseling to client.
   C. Assess TB transmission risk based on the index case’s degree of infectiousness, length of exposure to index, environmental factors and contact characteristics (e.g., HIV-positive).
   D. Evaluate identified contacts based on CDC priority classification. (TB testing may be conducted by the TB program or the facility medical staff under the strict guidance of the TB program).
   E. Ensure that contacts start and complete treatment for TB infection or TB disease, as indicated.

E. Provide oversight for Texas Health and Safety Code Chapter 89 facilities (see statutes.legis.state.tx.us/Docs/HS/htm/HS.89.htm).
   A. Review and submit Monthly Correctional TB Report (DSHS Form TB EF-12-11462) and the Positive Reactors/Suspects/Cases Report (DSHS Form TB EF-12-11461) to DSHS Congregate Settings Program no later than fifteenth day of each month.
   B. To the extent funds are available, distribute Purified Protein Derivative (PPD) and syringes to correctional facilities that meet Texas Health and Safety Code, Chapter 89 criteria upon their request (see Medication and Supplies Ordering and Inventory Management for ordering and distribution criteria).
      a) Chapter 89 facilities must submit the Monthly Correctional TB Report to the TB program by the fifth working day of the following month.
      b) Monitor monthly jail reports to ensure the number of TB tests reported justifies the amount of PPD and syringes provided.
      c) Address suspected misuse of state funded supplies immediately with the correctional facility and report to the TB Branch.
      d) Submit screening plans upon the direction of the TB Branch’s correctional public health prevention specialist.
   C. Review correctional TB screening plans for completion and accuracy.
      a) Chapter 89 facilities must submit the Correctional Tuberculosis Screening Plan (DSHS Form TB 805) to the DSHS Congregate Settings Program for review and approval 90 days before the current Screening Plan expiration date or anniversary date.
b) Before final approval, the TB Branch will forward the Screening Plan to the PHR or LHD for review. The reviewed Plan with the LHD comments must be returned to the TB Branch within 10 days of receipt.

c) Review and submit the Tuberculosis Screening Plan (DSHS Form TB 805) to the DSHS Congregate Settings Program for review and approval 90 days before the current Screening Plan expiration date or plan anniversary date.

F. Provide training and education to correctional facility staff, as resources allow; report on the DSHS APR.
XVIII. Initiate and Maintain Self-Auditing Practices

General Requirement

TB programs will implement practices that meet clinical and reporting quality standards and assure the appropriate use of state and federal funds.

Activities

A. Perform self-audits.
   A. Designate staff to review program practices to ensure services are delivered in accordance with DSHS program standards and as outlined in the TB Work Plan.
   B. Ensure medical record documentation to include and follow current Texas Administrative Code requirements, Title 22, Part 9, Chapter 165, Rule §165.1.
   C. Develop a checklist to ensure the completeness of medical record documentation.
   D. TB Programs may refer to the TB Branch’s Onsite Review Tool as a guide. See dshs.texas.gov/IDCU/disease/tb/policies/OnsiteReviewTool.pdf.

B. Ensure that the most current SDOs are reviewed and signed once a year by authorizing physician (see DSHS TB Policy 5003 and 22 TAC §193.2).
   A. TB Program staff providing clinical or data services will review and sign SDOs and the protocols and procedures under which SDO activities are performed.
   B. TB program managers will ensure that SDOs and subsequent protocols and procedures are reviewed and signed at least once a year by employees delivering TB Services.

C. PHRs must provide technical TB support and guidance to LHDs that provide TB services, as needed.
XIX. Conduct Continuing Quality Improvement Activities to Maintain a Robust TB Infrastructure

General Requirement

TB programs will evaluate their performance in meeting key measures including their process to maintain a robust TB infrastructure.

Activities

A. Update protocols and procedures to support TB program performance evaluation and CQI.

B. Conduct quarterly cohort reviews in accordance with the DSHS Tuberculosis Cohort Review Policy (DSHS Policy Number 7000).
   1. Compare treatment completion and contact evaluation rates by cohort periods and years to assess program progress.
   2. Identify trends that support or hinder effective TB prevention and care activities.
      a) Identify outcomes that fall short of local, state and/or national performance objectives.
      b) Develop corrective action plans to improve outcomes.
   3. Complete the Cohort Review Summary and each individual presentation form. Submit summary and presentation forms along with a list of counted cases to the TB Branch via GlobalScape. See Table 13 for cohort review periods and submission schedule.
   4. TB programs with fewer than six counted cases in a given year may conduct a yearly cohort review due by December 31 of the following year.

C. Perform routine case management review and document findings.
   1. Establish a case management or case review schedule.
   2. Identify deviations from established standards of care.
   3. Address needed changes in treatment and case management.

Table 13. Cohort Periods and Submission Schedule

<table>
<thead>
<tr>
<th>Cohort period cases counted in:</th>
<th>Are reviewed and reported by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>First quarter (Jan 1 – Mar 31) current year</td>
<td>Mar 31 of the following year</td>
</tr>
<tr>
<td>Second quarter (Apr 1 – Jun 30) current year</td>
<td>Jun 30 of the following year</td>
</tr>
<tr>
<td>Third quarter (Jul 1 – Sep 30) current year</td>
<td>Sep 30 of the following year</td>
</tr>
<tr>
<td>Fourth quarter (Oct 1 – Dec 31) current year</td>
<td>Dec 31 of the following year</td>
</tr>
</tbody>
</table>
D. Use NTIP and Texas Performance Measures to assess progress toward achieving state and national objectives.
   1. Identify TB program staff who need access to NTIP. At minimum, this should include the TB Program Manager.
   2. Contact the TB Branch for access to NTIP.

E. Meet Texas TB Performance Measures (see Table 14).
   1. If a program’s performance falls short of desired benchmarks, DSHS may (at its sole discretion) require additional measures to improve performance on a timeline set by DSHS.
   2. Maintain documentation used to calculate performance measures as required by General Provisions Article VIII “Records Retention,” and by Texas Administrative Code Title 22, Part 9 Chapter 165, §165.1, regarding retention of medical records.

Table 14. Texas TB Performance Measures

<table>
<thead>
<tr>
<th>Performance Measure</th>
<th>Benchmark (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newly-reported TB cases must have an HIV test performed unless there is documented evidence of an HIV-positive result or the client refuses.</td>
<td>91</td>
</tr>
<tr>
<td>All probable and confirmed TB clients are placed on DOT at the start of treatment†.</td>
<td>92.2</td>
</tr>
<tr>
<td>Newly-reported probable and confirmed cases of TB are started on the standard four-drug regimen.</td>
<td>94</td>
</tr>
<tr>
<td>Newly-reported clients aged 12 and older for whom TB was identified in the pleura or other respiratory site must have sputum collected and tested for AFB smear and culture results*.</td>
<td>94</td>
</tr>
<tr>
<td>Newly-reported cases of TB with AFB-positive sputum culture results must have documented conversion to sputum culture-negative within 60 days of initiation of treatment.</td>
<td>64.2</td>
</tr>
<tr>
<td>Newly-diagnosed TB cases that are eligible to complete treatment within 12 months must complete therapy within 365 days or less. Exclude the following TB cases who: • are diagnosed at death; • die during therapy; • are resistant to rifampin; • have meningeal disease; and • are age 14 or younger with either miliary disease or a positive blood culture for TB.</td>
<td>89</td>
</tr>
<tr>
<td>Performance Measure</td>
<td>Benchmark (%)</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Increase the proportion of culture-confirmed TB cases with genotyping result reported.</td>
<td>98</td>
</tr>
<tr>
<td>TB cases with initial cultures positive for <em>M. tb</em> complex are tested for drug susceptibility with results documented in the medical record.</td>
<td>80</td>
</tr>
<tr>
<td>Newly-reported TB clients with a positive AFB sputum-smear result have at least three contacts evaluated as part of the contact investigation.</td>
<td>92</td>
</tr>
<tr>
<td>Newly-identified contacts identified through the contact investigation that are associated with a sputum AFB smear-positive TB case are evaluated for TB infection and disease.</td>
<td>79</td>
</tr>
<tr>
<td>Contacts identified to an AFB smear positive client and for whom TB infection was diagnosed must be started on treatment for TB infection within a week of diagnosis.</td>
<td>76</td>
</tr>
<tr>
<td>Contacts identified to an AFB smear positive client and for whom treatment was initiated for TB infection must complete treatment within the recommended time frame.</td>
<td>50</td>
</tr>
<tr>
<td>For Class-B immigrants and refugees whose overseas CXR results indicate consistent with TB, increase the proportion whose medical evaluation was initiated within 30 days of notification.</td>
<td>62</td>
</tr>
<tr>
<td>For Class-B immigrants and refugees whose overseas CXR results indicate consistent with TB, increase the proportion whose evaluation was completed within 90 days of notification.</td>
<td>45</td>
</tr>
<tr>
<td>For Class-B immigrants and refugees whose overseas CXR results indicate inconsistent with TB and subsequent evaluation in the U.S. reclassifies client as having TB infection, increase the proportion who start treatment for TB infection.</td>
<td>74.6</td>
</tr>
<tr>
<td>For Class-B immigrants and refugees whose overseas CXR results indicate inconsistent with TB and subsequent evaluation in the U.S. reclassifies client as having TB infection, increase the proportion who complete treatment for TB infection.</td>
<td>68</td>
</tr>
</tbody>
</table>

†The CDC recommends treatment initiation for TB clients with positive AFB sputum-smear results within 7 days of specimen collection.

*Report results to DSHS according to the surveillance reporting schedule.
XX. Court-Ordered Management

General Requirement

TB programs will manage non-compliant people diagnosed with TB disease whose actions pose a public health threat. Court-ordered management ensures that:

A. non-adherent TB clients complete an adequate course of TB treatment;

B. clients receive appropriate evaluation and care when treatment is interrupted due to client’s violation of the terms of the signed control order; and

C. the public is protected from infectious TB patients who have refused voluntary isolation when their actions pose a public health threat.

The process outlined in this chapter should facilitate processes between the TB program and local county/city attorney to establish legal justification for isolation. See Health and Safety Code, Chapter 1, Communicable Diseases, Subchapter E. Control, 81.081. “A health authority has supervisory authority and control over the administration of communicable disease control measures in the health authority’s jurisdiction unless specifically preempted by the department.” See statutes.capitol.texas.gov/Docs/HS/htm/HS.81.htm#81.081

Definitions

Application for Extended Management (DSHS Form 86963_1): Also referred to as Motion for Extended Management (MEM). This is the application to the court for the management of a person with a communicable disease. This refers to the full application that is used in the court order process.

Motion for Protective Custody (MPC) (DSHS Form 86964_1): Also referred to as Order of Protective Custody (OPC). An order to have the patient detained in appropriate isolation for a short period of time. This option is only available if the patient is an immediate threat to the public at the time the order is sought.

Non-adherent: Failure to comply with the health authority’s written control order (DSHS Form TB-410). Examples include but are not limited to missing medication and failure to follow respiratory isolation which precludes safe and effective TB therapy and presents a potential for public health impact.

Activities

TB programs will seek court-ordered management only as a last resort.

A. Ensure the following is done before initiating court-ordered management:
   1. Client has been issued the Health Authority Control Order (Form TB-410) acknowledging understanding of treatment and compliance expectations.
      a) This document should be signed by the provider and the patient.
      b) Maintain clear documentation if the client refuses to sign.
2. Clients with probable or confirmed TB disease understand their role in receiving treatment and care for TB.
3. Clients understand services they will receive from the TB program for successful treatment outcomes.
4. Document any breach of expectations outlined on Form TB-410 (e.g., missed DOT, attempts to reach client) in the client’s medical record.

B. Include the following in the client’s medical record:
   1. A description of the physical and mental condition of the client.
   2. The degree of infectiousness.
   3. Proposed threat to public health and supporting documentation of clinician, health authority or DSHS-recognized medical consultant.
   4. A description of non-compliant behaviors and the steps taken to address non-compliance to include all attempts taken to contact the patient.
   5. Documentation from the clinician, health authority or DSHS-recognized medical consultant if the patient has converted to smear negative but is expected to become infectious again.

C. Begin the court-ordered management process.
   1. The DSHS 86749_1 (Health Authority’s Affidavit of Medical Evaluation) must be filed in the district court in the county where the person resides, is found or is receiving court-ordered health services.
   2. As soon as it is identified that a client will be court-ordered, the TB program will inform TCID of possible commitment to their facility. The TCID admission process must be followed and transportation arranged by the managing jurisdiction.
      a) TCID serves as the designated facility for patients who are court-ordered for extended management in Texas.
      b) TCID will not accept patients with an MPC as they are not a holding facility. For clients with an MPC, the TB program must secure a holding facility before this motion.
   3. The TB program will notify the jurisdiction’s district attorney, their PHR regional medical director and DSHS Office of General Counsel of impending application for Court Order Managed Care and/or Order of Protective Custody.

D. Initiate court-ordered management proceedings. Forms are at dshs.texas.gov/idcu/disease/tb/forms/#CourtOrder

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5 Texas Health & Safety Code Sec. 81.179. Transportation of Person. (a) The court shall order the sheriff or constable to transport the person to the designated health care facility. (b) A female shall be accompanied by a female attendant during conveyance to the health care facility. (c) The health authority or department shall instruct the sheriff or constable on procedures that may be necessary in transporting the person to prevent the spread of disease.
1. Complete the Health Authority’s Affidavit of Medical Evaluation (DSHS Form 86749_1) which is Exhibit A of the application. This document should specify reasons an order for commitment is being sought. Indicate these reasons on line number seven.

2. Present the following to the local health authority for signature:
   a) Exhibit A (DSHS Form 86749_1, which will need to be notarized)
   b) Exhibit B, Health Authority Control Order (TB-410) and Exhibit 1A, which includes all medical notes, reports, etc.
   c) DSHS Form 86749_1, TB 410 and Exhibit 1A information will also need to be faxed to the DSHS General Counsel’s office at 512-776-7751

3. The Office of General Counsel will obtain the Commissioner of Health Concurrence and provide this document to the TB program by fax. The original concurrence will be mailed to the TB program to be placed in the patient’s medical record.

4. Once all forms are completed, follow local procedures as directed by the local attorney, who will likely file an Original Petition for either a MPC or MEM.
   a) A commissioner’s concurrence for MPCs is not needed.
   b) The health authority or treating physician will be asked to testify. It is recommended that the nurse case manager also attend this hearing as directed by the local attorney.
XXI. Confidentiality and Security Standards

General Requirement

TB programs will perform activities outlined in this plan in accordance with applicable state and federal security and confidentiality standards, policies, procedures and guidelines, including but not limited to:

- DSHS Policy 302.001, Release of TB/HIV/AIDS and STD Data, dshs.texas.gov/hivstd/policy/policies/302-001.shtm
- DSHS Procedure 2016.01, TB/HIV/STD Section Confidential Information Security, dshs.texas.gov/hivstd/policy/procedures/2016-01.shtm

Activities

A. Submit documentation to the DSHS TB/HIV/STD (THS) Section Security Officer to confirm that all staff and subcontractors working on activities outlined in this TB Work Plan receive yearly training on the DSHS Security and Confidentiality Training with a passing score of 85% or above.

B. Submit inquiries related to database access and security training to TBHIVSTD.AccountRequest@dshs.texas.gov.

C. Ensure that newly-hired staff successfully complete the DSHS Security and Confidentiality Training within 30 days of hire.

D. Ensure that all staff successfully complete the DSHS Security and Confidentiality Training yearly, within one year of having taken the previous training.

E. Submit appropriate documentation of security and confidentiality training to TBHIVSTD.AccountRequest@dshs.texas.gov within ten (10) days of completing course.

F. Designate and identify a HIPAA Privacy Officer authorized to act on behalf of the TB program in developing and implementing requirements outlined in federal and state privacy laws.

G. Designate a TB program staff (e.g., TB Program Manager) to serve as the Local Responsible Party (LRP). The LRP will:
   1. Ensure appropriate protocols and procedures are in place for handling
confidential information, releasing confidential TB/HIV/STD data and for rapid response to suspected privacy incidents of protocol and/or confidentiality.

a) Local protocols and procedures must comply with DSHS policies and procedures.

b) TB Programs may choose to adopt DSHS policies and procedures as their own.

2. Approve and validate (provide signature) any program staff requiring access to TB/HIV/STD confidential information.

a) The LRP will grant authorization to program staff who have a work-related need to view confidential information.

   (1) Complete the LRP fields on the Account Request form.

   (2) Contact TBHIVSTD.AccountRequests@dshs.texas.gov and copy the person requesting access. The email should include:

       (a) a statement verifying this person is under your authority;
       (b) person’s security training certificate;
       (c) access request form;
       (d) confidentiality agreement; and
       (e) acceptable use agreement form.

DSHS will return access requests that do not include the required documents. Email should only request access for one person. Requests for multiple employees will not be accepted. Maintain email correspondence as part of your records. All current forms and instructions are at dshs.texas.gov/thsvh/account.shtm.

3. Maintain a current list of authorized staff with permission to view and work with confidential information in accordance with the DSHS TB/HIV/STD Local Responsible Party Handbook, Required Documentation Section.

4. Maintain copies of current confidentiality forms and training certifications (e.g., personnel files, staff training records).

5. Ensure staff members including IT personnel, contractors, mailroom and custodial staff with access to identifiable public health data complete the DSHS Security and Confidentiality Training yearly.

6. Consult with the THS Section Security Officer on suspected privacy incidents of protocol and confidentiality in compliance with the DSHS TB/HIV/STD Breach of Confidentiality Response Policy.

   a) Investigate and complete privacy incident reports.

   b) Limit or restrict access to confidential information for an involved user until the privacy incident investigation is complete.

   c) Establish and/or enforce corrective and/or disciplinary actions when needed.

7. Submit required quarterly reports on time. See Local Responsible Party
Checklist at dshs.texas.gov/hivstd/policy/security.shtm.

a) Ensure computers and networks meet DSHS security standards.
b) Submit requests for TB/HIV/STD systems user account terminations to TBHIVSTD.AccountRequest@dshs.texas.gov within one business day of identifying the need for account termination.
c) Identify local point of contact for changes in user access to secure data, secure network, secure reason and for receipt of notifications once a user account is terminated.
d) Transfer secure data electronically via GlobalScape.
e) Maintain a visitor’s log for people entering secured areas. The LRP must conduct quarterly reviews of this log.
f) Verify user password changes occur at least every 90 days.
g) Ensure that portable devices used to store confidential data are encrypted and approved by the LRP.

H. Ensure confidential data are:
   1. maintained in a secure area when not in use;
   2. not left in plain sight; and
   3. shredded with a cross-cut feature before disposal.

Appendix A: Sample Letter for Child Window Prophylaxis

<insert date>

<insert patient name>
<insert patient address>
<insert city, state, zip code>

Dear <insert name of parent/guardian>,

I have recommended that your child, <name of child>, take preventive treatment (medicine) to stop <him/her> from getting tuberculosis. Your child was exposed to someone with tuberculosis. Taking medicine will decrease their chance of becoming sick.

Children aged 4 and younger exposed to tuberculosis are at greatest risk of quickly developing life-threatening disease. To prevent this from happening, your child must take medicine observed by (name of LHD/PHR) for at least the next <number of weeks recommended> weeks.

We will do a second tuberculosis skin test in <number of weeks> weeks. If the test is negative, we will stop the medicine. If the test is positive, we must continue the medicine for <length of treatment> to stop the infection from developing into active disease.

If you do not give your child this important medicine, you will endanger your child’s health. This may result in the (name of the LHD/PHR) contacting Child Protective Services. I hope that we can work together to ensure the health of your child.

Please contact <phone number here> with your questions or concerns.

Sincerely,

<insert your name, title, contact information>
Appendix B: Sample TB Program and Private Physician Agreement Letter

<insert date>

Dear <insert private provider’s name>,

On <date reported to TB Program>, our office was notified that <insert client’s name/DOB> had <insert diagnostic findings, e.g. “an abnormal CXR showing cavitation, AFB sputum was smear positive”>. He/she was reported to <insert PHR/LHD> and upon my review, he/she has been diagnosed with <probable/confirmed> Mycobacterium tuberculosis.

We discussed this case on <date> and you have indicated that you will remain the patient’s treating physician. You have also agreed to coordinate care with <LHD/PHR> in the following way:

<insert private provider’s name> will:

<list below in detailed bulleted form, such as:

- Follow the prescribed TB regimen based on TB program recommendations (regimen is based on national guidelines for the treatment of drug-susceptible TB).
- Perform monthly laboratory tests as indicated and recommended by the TB program.
- Perform routine physical exams.
- Refer for radiology when indicated.
- List other details as appropriate

The <LHD/PHR> TB Program staff will:

<list below in detailed bulleted form, such as:

- Order medications from the DSHS pharmacy.
- Provide directly observed therapy (DOT) on ______(days) to this client.
- Provide DOT results monthly for visibility of client’s adherence to treatment.
- Contact your office _________(frequency) for copies of diagnostics, progress notes and updates in patient status.
- Collect________(frequency) sputum samples for AFB smear and culture and send results to your office.
- Keep the patient in airborne infection isolation until (criteria here).
- Maintain contact with your office _________(frequency) until completion of therapy.
- Conduct an appropriate contact investigation following DSHS guidelines.

Thank you for your partnership. Please contact <Insert point of contact, e.g., MD or
TB Program Manager/Nurse Case Manager> with concerns or changes in the patient’s plan of care.

Sincerely,

<insert your name, title, contact information>
Appendix C: Sample Correspondence Letter for Clients Treated by Private or Community Providers

<insert date>

<insert provider address>

Subject: <insert patient name and DOB>

Dear <insert private provider’s name>:

The <insert HPR/LHD> TB Program requires a monthly status report on the above-named patient under your care for the treatment of tuberculosis.

Please complete all sections of the attached Medical Update Form and return within seven days to <insert name of recipient, physical address and fax number>. Please include additional radiology and/or laboratory results of acid fast bacilli testing such as smear, culture or sensitivity results.

The Health Insurance Portability and Accountability Act of 1996 (HIPAA) indicates that protected health information (PHI) can be shared for public health, without individual authorization, to a public health authority. See [45 CFR 164.512(b)].

Thank you for your partnership. Please contact our office at <insert number> with questions.

Sincerely,

<Insert Your name, Title, contact information>

Appendix D: Sample Medical Update Form for Clients Treated by Private or Community Providers

**Medical Update Form***

**Patient:**

**Date of Visit:**

**Date of most recent physical exam:**

**Weight:**

**Symptoms:**

- ☐ Cough (if present specify):
  - ☐ Productive
  - ☐ Unproductive
- ☐ Hemoptysis
- ☐ Fever
- ☐ Weight loss
- ☐ Fatigue
- ☐ Chest pain
- ☐ Decreased appetite
- ☐ Night sweats
- ☐ Chills

**Medications, frequency and dosages:**

**Bacteriology:**

**Results of most recent chest X-ray** (if abnormal, please indicate whether X-ray is stable, worsening or improving):

**TST or IGRA results:**

<table>
<thead>
<tr>
<th>☐ TST</th>
<th>☐ IGRA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date administered:</td>
<td>Type of IGRA:</td>
</tr>
<tr>
<td>Date read:</td>
<td>Date:</td>
</tr>
<tr>
<td>Millimeter reading:</td>
<td>Result:</td>
</tr>
</tbody>
</table>

**HIV Status:**

**Date TB treatment initiated:**

**Number of doses completed:**

**If completed, date of completion:**

**Comments:**

*Adapted from “Tuberculosis Case Management: A Guide for Nurses”, by Rutgers Global TB Institute, 2017.*
Appendix E: Additional Client Services

This is a list of federal, state and county services available to patients who may need help supporting their medical care outside of tuberculosis disease management. The agencies below cover many aspects of medical care, from primary health services to low cost pharmacies to clinics that support patients regardless of their residency. Refer patients to agencies or programs depending on need.

**Services for Children**

*Texas Health Steps*

One of the benefits of Texas Health Steps is case management for those who need it. Case management helps families with Medicaid get services their children need—whether the services are for medical or dental needs, medical supplies and equipment, school or education issues or other issues.

[txhealthsteps.com/cms/](http://txhealthsteps.com/cms/)

*Children’s Health Insurance Program/Medicaid*

The Children’s Health Insurance Program (CHIP) and Medicaid are jointly funded state-federal programs developed to help Texas Families obtain and utilize affordable coverage for uninsured children (ages 0-18). CHIP helps families who earn too much money to qualify for Medicaid but cannot afford to buy private insurance. Programs generally cover regular checkups, immunizations, prescription drugs, lab texts, X-rays and hospital visits. Under CHIP, cost sharing for prescription drugs is based on family income as a percentage of the Federal Poverty Income Level (FPL).

[CHIP/Medicaid](http://CHIP/Medicaid) 1-877-KIDS-NOW (1-877-543-7669)

*Children with Special Health Care Needs*

Children with Special Health Care Needs (CSHCN) provides medically necessary care to Texas children with special health care needs. The program is the payer of last resort – all other medical benefits must be used first. Eligibility requirements apply. Participants must re-apply for benefits at six months. CSHCN offers a full range of services, including primary care, specialty care, durable equipment, transportation and medicines.

[hhs.texas.gov/services/disability/children-special-health-care-needs-program; cshcn@dshs.texas.gov; Toll-free: 1-800-252-8023](http://hhs.texas.gov/services/disability/children-special-health-care-needs-program; cshcn@dshs.texas.gov; Toll-free: 1-800-252-8023)

**General Primary and Specialty Services**

*Federally Qualified Health Centers*

Federally Qualified Health Centers (FQHCs) provide comprehensive health
care services to underserved communities. Many of the Texans they serve are indigent, uninsured and underserved. Some FQHCs offer additional services, such as dental, mental health or substance abuse treatment. FQHCs are community organizations with defined target populations and service areas. Services are provided to Medicare, Medicaid, CHIP, Insured and Uninsured people. Patients may be eligible for services based on their family income and a sliding fee schedule.

dhs.texas.gov/chpr/fqhcmain.shtm

County Indigent Health Care Program

The County Indigent Health Care Program (CIHCP) was established by the Indigent Health Care and Treatment Act authorized by the 69th Texas Legislature in 1985. CIHCP provides health care services to eligible residents through counties, hospital districts and public hospitals in Texas. Programs are administered in accordance with Chapter 61, Health And Safety Code and Texas Administrative Code, Title 25, Part 1, Chapter 14. Eligibility requirements apply, including household income. CIHCP offers a full range of services, including primary care, specialty care, durable equipment and medicines.

hhs.texas.gov/services/health/county-indigent-health-care-program

Texas Association of Community Health Centers

The Texas Association of Community Health Centers (TACHC) is a private, non-profit membership association that represents safety-net health care providers in Texas. TACHC members include Community and Migrant Health Centers, Health Center Networks and other providers who strive to meet the healthcare needs of the uninsured and underserved. TACHC serves as the federally-designated primary care association for Texas.

tachc.org/find-healthcare-center

Other Benefits and Resources

Medicaid

Medicaid is a jointly-funded state-federal healthcare program established in Texas in 1967. The Social Security Act specifies a set of benefits that state Medicaid programs must provide and a set of optional benefits that states may choose to provide. Eligibility requirements apply. The range of services provided include inpatient/outpatient hospital, lab and X-ray, physician services, nursing facility care, home health care and Texas Health Steps medical and dental plan for people aged 20 and younger.

tmhp.com
Your Texas Benefits

This site allows you to apply online for health and human services, including Medicaid, Children’s Medicaid, CHIP and other programs.

tmhp.com

2-1-1 Texas

2-1-1 Texas, a program of the Texas Health and Human Services Commission, is committed to helping Texas citizens connect with the services they need. Call 211 or click on link below to locate services in your community.

211texas.org

Low Cost Pharmacies and Medications

Medication Assistance Programs

Many pharmaceutical companies, non-profit organizations and state/national agencies provide access to low-cost medications prescribed by healthcare providers. Visit the site below for a list of resources for low or no-cost prescription medicines, including eligibility requirements and contact information.

staterxplans.us/texas.html

Transportation Services

LogistiCare

LogistiCare helps state governments and managed-care organizations run transportation and integrated health care programs, affording over 24 million covered plan members better access to care in their communities.

logisticare.com
### Appendix F: Medical Consultation Templates

#### Sample 1: Complex Patient

<table>
<thead>
<tr>
<th>Date Submitted:</th>
<th>PHR/LHD:</th>
</tr>
</thead>
</table>

**Case Demographics**

<table>
<thead>
<tr>
<th>Name:</th>
<th>Date of Birth:</th>
<th>Age:</th>
</tr>
</thead>
</table>

**Treating Provider:**

**Sex:**
- [ ] Male
- [ ] Female

**Nurse Case Manager:**

**Diagnosis:** (e.g., *MDR-TB, disseminated TB*)

**Co-morbidities/TB risk factors:** (e.g., *diabetes, HIV, history of incarceration*)

**TB History:** (e.g., *previous TB treatment, regimen, date of treatment completion*)

**Resistant to:**

**Susceptible to:**

<table>
<thead>
<tr>
<th>Treatment Start Date:</th>
<th>Initial Treatment Regimen (medications):</th>
</tr>
</thead>
</table>

**Changes in Treatment Regimen:** (e.g., *if injectable for how long patient received injectable; please provide drug-o-gram or equivalent*)
**Current TB Regimen:** *(medication/doses list with dates started or provide drug-o-gram)*

<table>
<thead>
<tr>
<th>Symptoms at Diagnosis:</th>
<th>Fever/Chills</th>
<th>Loss of appetite</th>
<th>Weakness</th>
<th>Night sweats</th>
<th>Weight loss</th>
<th>Chest pain</th>
<th>Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Cough</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Productive</td>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Non-productive</td>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ Hemoptysis</td>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>□ SOB</td>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Weight at diagnosis/BMI:** /

**Bacteriology:** *(Include date collected, specimen type, test and results)*

<table>
<thead>
<tr>
<th>Date Collected</th>
<th>Specimen Type/Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Converted cultures?** □ Yes □ No Date Converted:

Isolation status:

**Chest X-ray:** *(indicate what was noted on report)*

Baseline Date: □ Normal □ Cavitary □ Non Cavitary
Read:

Current Date: □ Normal □ Cavitary □ Non Cavitary
Read:

**Current Status**

**Current weight/BMI:** /

**Current labs:** *(attach if needed)*

**HIV results:** □ Negative □ Positive (if applicable)

**CD4:** Viral load:

**Abnormal labs:**
<table>
<thead>
<tr>
<th>Test</th>
<th>Normal</th>
<th>Abnormal</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EKG (BDQ)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td><strong>Visual Acuity:</strong> (EMB, LZD or RBT)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td><strong>Ishihara Plates:</strong> (EMB, RBT or LZD)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td><strong>Neuropathy Checks</strong> (INH, LZD)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td><strong>Hearing Test</strong> (Injectable)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td><strong>Psychological Evaluation</strong> (CS, CFZ)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

(Any abnormal results or changes to baseline provide detailed forms showing trends and status)

**Current Symptoms:** (Compare with symptoms at diagnosis, e.g., appetite improved, symptoms at diagnosis improved, improved energy?)

**Adherence to treatment:**

**Reason for consult:**
**Sample 2: Routine Consult**

<table>
<thead>
<tr>
<th>Patient Name:</th>
<th>Age:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight:</th>
<th>Medical history:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TB history:</th>
<th>TB risk factors:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Signs and symptoms upon admission to clinic/hospital: |
|                                                       |
|                                                       |

<table>
<thead>
<tr>
<th>Imaging results: (e.g., CXRs, CT scans)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIV result (if applicable):</th>
<th>CBC: (baseline and most recent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD4:</td>
<td></td>
</tr>
<tr>
<td>Viral load:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CMP: (baseline and most recent):</th>
<th>Results of therapeutic drug monitoring: (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other labs: (as applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Medications: (list dosages, start/stop dates, dates of interruption in therapy)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bacteriology: (list test, specimen type, collection date and result)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current status of patient: (provide details of clinical status, DOT, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reason for consult: (clearly state reason for consultation)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Appendix G: Requesting Molecular Detection of Drug Resistance (MDDR) Testing

The MDDR test is a way to rapidly and accurately detect potential drug resistance in *Mycobacterium tuberculosis* complex (MTBC). MDDR is performed on positive MTBC cultures or on patient specimens that are positive by nucleic acid amplification tests (NAAT) such as the polymerase chain reaction (PCR). MDDR is performed at the Centers for Disease Control (CDC) Reference Laboratory.

**Indications for Submitting MDDR**

Isolates of MTBC and NAAT positive processed specimens may be submitted by U.S. Public Health Laboratories for MDDR if one or more of the following criteria is met:

- Known multi-drug resistant (MDR) TB (by culture-based drug-susceptibility testing [DST])
- Known Rifampin resistance (by NAAT or by culture-based DST)
- Contact to known MDR TB case
- Previously treated for MTB
- From a country with a high rate of drug resistant TB
- Travel to/lived in a country with a high rate of drug resistant TB
- Patients where the result of drug resistance will predictably have a high public health impact (e.g., daycare workers, nurses)
- Patient is known to have certain adverse reactions to critical anti-TB drug (e.g., unable to tolerate rifampin)
- Other situations considered on a case-by-case basis (*must have a consult from a DSIS-recognized medical consultant*. Visit [dshs.texas.gov/idcu/disease/tb/consultants](http://dshs.texas.gov/idcu/disease/tb/consultants) for contact information)

**DSHS Process for Submitting MDDR**

First, ensure client meets one or more of the above criteria. A consult from a DSIS-recognized medical consultant is highly recommended and is required once DR TB is confirmed.

A. Contact the DSHS State Lab via phone or email.
   1. Main point of contact:
      Denise Dunbar
      Email: [Denise.Dunbar@dshs.texas.gov](mailto:Denise.Dunbar@dshs.texas.gov)
      Phone: (512) 776-7342
   2. Secondary point of contact:
      Benjamin Alpers
      Email: [Benjamin.Alpers@dshs.texas.gov](mailto:Benjamin.Alpers@dshs.texas.gov)
      Phone: (512) 776-2699
B. If indication is “Other situations considered on a case-by-case basis,” secure written consult from a DSHS-recognized medical consultant.

C. Ensure there is a plan in place for medical consultation for any patient with drug resistance.

If the above indications are not met, the state laboratory must notify the requestor to get a written consult from a DSHS-recognized medical consultant before submitting request for MDDR.
Appendix H: DSHS TB Formulary

The following medications and supplies for outpatient TB management are available to TB programs approved by the TB and Hansen’s Disease Branch. Place orders via ITEAMS or contact the DSHS Pharmacy at (512) 776-7500.

This list was developed by the TB and Pharmacy Branches. Other anti-TB medications may be available for outpatient use. First, contact the DSHS Pharmacy. If the drug is not available, request changes or additions of other anti-TB medications via email to TB.Feedback@dshs.texas.gov.

<table>
<thead>
<tr>
<th>Drug (Name Brand)</th>
<th>Item Description</th>
<th>Route</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amikacin</td>
<td>Vial</td>
<td>IM, IV</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Bedaquiline (Situro)</td>
<td>Tablet (Tab)</td>
<td>PO</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Clofazimine</td>
<td>Capsule (Cap)</td>
<td>PO</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Cycloserine (Seromycin)</td>
<td>Cap</td>
<td>PO</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Ethambutol (Myambutol)</td>
<td>Tab</td>
<td>PO</td>
<td>First Line</td>
</tr>
<tr>
<td>Ethionamide (Trecator)</td>
<td>Tab</td>
<td>PO</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Isoniazid</td>
<td>Solution (Soln)/Tab/Vial</td>
<td>PO, IM</td>
<td>First Line</td>
</tr>
<tr>
<td>Levofloxacin (Levaquin)</td>
<td>Soln/Tab/Vial</td>
<td>PO, IV</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Linezolid (Zyvox)</td>
<td>Suspension (Susp)/Vial</td>
<td>PO, IV</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Moxifloxacin (Avelox)</td>
<td>Tab/Vial</td>
<td>PO, IV</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Para-amino salicylic acid (Paser)</td>
<td>Packet</td>
<td>PO</td>
<td>See VII; Requires consult*</td>
</tr>
<tr>
<td>Pyrazinamide</td>
<td>Tab</td>
<td>PO</td>
<td>First Line</td>
</tr>
<tr>
<td>Medicine</td>
<td>Form</td>
<td>Route</td>
<td>Notes</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------</td>
<td>-------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Pyridoxine (Vitamin B-6)</td>
<td>Tab</td>
<td>PO</td>
<td></td>
</tr>
<tr>
<td>Rifabutin (Mycobutin)</td>
<td>Cap</td>
<td>PO</td>
<td>First Line</td>
</tr>
<tr>
<td>Rifampin</td>
<td>Cap/Vial</td>
<td>PO, IV</td>
<td>First Line</td>
</tr>
<tr>
<td>Rifapentine (Priftin)</td>
<td>Tab</td>
<td>PO</td>
<td>First Line</td>
</tr>
</tbody>
</table>

**Other Supplies**

<table>
<thead>
<tr>
<th>Item</th>
<th>Form</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile Water for Injection</td>
<td>Vial</td>
<td>IM, IV</td>
</tr>
<tr>
<td>Hypertonic saline (3%)</td>
<td>Vial</td>
<td>Nebulized</td>
</tr>
<tr>
<td>For sputum induction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lidocaine (Xylocaine) 1% or 2%</td>
<td>Vial</td>
<td>IM, IV</td>
</tr>
<tr>
<td>Pregnancy Tests</td>
<td>Test</td>
<td>NA</td>
</tr>
<tr>
<td>Simple Syrup (Cherry flavor)</td>
<td>Bottle</td>
<td>PO</td>
</tr>
<tr>
<td>X-ray envelopes</td>
<td>Each</td>
<td>NA</td>
</tr>
<tr>
<td>Syringes (1/2”, 27 gauge)</td>
<td>Syringe</td>
<td>NA</td>
</tr>
<tr>
<td>Tuberculin Skin Test PPD</td>
<td>Vial</td>
<td>SC</td>
</tr>
<tr>
<td>Amber RX bottles</td>
<td>Vial</td>
<td>NA</td>
</tr>
<tr>
<td>For self-admin. DOT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Auxiliary Medications**

<table>
<thead>
<tr>
<th>Medicine</th>
<th>Form</th>
<th>Route</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azithromycin (Zithromax)</td>
<td>Susp/tab/vial</td>
<td>PO/IV</td>
<td>See VII</td>
</tr>
<tr>
<td>Ondansetron</td>
<td>Tab, ODT(orally dissolving tablet)</td>
<td>PO</td>
<td>See VII</td>
</tr>
<tr>
<td>Promethazine</td>
<td>Tab</td>
<td>PO</td>
<td>See VII</td>
</tr>
<tr>
<td>Prednisone</td>
<td>Tab</td>
<td>PO</td>
<td>See VII</td>
</tr>
<tr>
<td>Lubriderm Advanced Lotion</td>
<td>Cream</td>
<td>External</td>
<td>For clients on Clofazimine ONLY</td>
</tr>
</tbody>
</table>

**First Line**

- Rifabutin (Mycobutin)
- Rifampin
- Rifapentine (Priftin)
<table>
<thead>
<tr>
<th>Lubriderm SPF 15</th>
<th>Cream</th>
<th>External</th>
<th>For clients on Clofazimine ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lidocaine/Prilocaine 2.5% cream</td>
<td>Cream</td>
<td>External</td>
<td>See VII</td>
</tr>
</tbody>
</table>

*See DSHS SDOs for medical consultation requirements*
Appendix I: Medication Mailing Processes

Clients with TB Infection Requiring Bulk Bottles

Medications prescribed for the treatment of latent TB infection may be mailed to clients when needed. Before mailing*, ensure the client understands all instructions regarding their prescription. This includes when to stop taking the medicine and when to contact the clinic if they experience any symptoms of medication toxicity. Remind the client of upcoming follow-up appointments. Finally, instruct the client to keep medication out of reach of children and in a secure area of the home.

Order bulk bottles of medications and child-resistant amber prescription vials via ITEAMS.

TB programs shall not distribute or supply state-purchased medications to jails and other entities for which the clients receiving the medications are not under the direct care of the TB program.

*Follow all security standards when mailing information to clients. Verify mailing procedures with local responsible party (LRP). See dshs.texas.gov/hivstd/policy/procedures/2016-01.shtm

The following must be included in the mailed package:

A. As required by the Texas State Board of Pharmacy (TSBP Rule Title 22, Texas Administrative Code §291.93), a medication label with the following information must be printed and attached to bottles for self-administered medications:
   1. Name, address and telephone number of clinic
   2. Name and strength of drug - if generic, name of manufacturer or distributor of drug
   3. Quantity
   4. Lot number
   5. Expiration date

   The authorized, licensed nurse will complete the labeling directions to contain:
   1. Client name
   2. Date medication provided
   3. Physician name
   4. Directions for use (per TSBP rules, incomplete directions for use may be present and if so, are to be completed by the authorized, licensed nurse at time of provision).
Sample label:

B. A medication fact sheet reflecting current prescription. Sample fact sheets that may be used are:

- **Isoniazid/Rifapentine (3HP):**
- **Rifampin:**
- **Isoniazid:**
- **Moxifloxacin (Avelox):**
  [accessdata.fda.gov/drugsatfda_docs/label/2019/02](https://accessdata.fda.gov/drugsatfda_docs/label/2019/02)
- **Levofloxacin (Levaquin):**
  [accessdata.fda.gov/drugsatfda_docs/label/2018/020634s070lbl.pdf#page=52](https://accessdata.fda.gov/drugsatfda_docs/label/2018/020634s070lbl.pdf#page=52)

English and Spanish versions are available. Contact the TB Branch Nurse Consultant or DSHS Pharmacy for printable versions.

C. A letter in the patient’s preferred language explaining how to take the medication, any scheduled toxicity assessments and contact information for the clinic. Sample language is:

*Hello (Patient),*

*As discussed on our phone call of (date), the (TB program’s name) will mail your medications for TB infection. This package contains a (one-month/four week) supply of (name of medication here). Please take the medication as prescribed below and as stated on the enclosed (Name of Fact Sheet) drug fact sheet and bottle(s).*

- You have been prescribed: (Name of Medication)
- You should take this medicine as follows: (dosage, frequency)
• The physician who has prescribed this medication is: (Name here)
• Their contact is: (Insert either MD direct contact or LHD/PHR contact)

The TB program must follow up with you at least (weekly/monthly) while you take this medication. Your scheduled phone calls for (enhanced self-administration [ESAT], toxicity assessments, etc.) are:

• Dates here
• Dates here

Do not take the medication if you have symptoms or reactions as listed on the fact sheet. Contact the nurse right away at (contact numbers[s] here). Please call the (TB program contact here) if you have questions.

Thank you,

(TB Program Staff)

Clients with Known or Probable TB Disease or Those on Observed Preventative Therapy for TB Infection (Including Window Prophylaxis) Requiring Medication Packets

When mailing* or providing directly observed therapy (DOT) or directly observed preventative therapy (DOPT) for self-administration (i.e. weekend/holiday doses) or for video-enabled directly observed therapy (VDOT), TB programs must follow guidance recommended by the Texas State Board of Pharmacy (TSBP).

The TSBP recommendations are to reclassify DOT packets to fall under physician provision of medications per Texas Occupations Code, Title 3, Chapter 158. This states that a physician may provide medications to a patient, free of charge, as part of an indigent pharmaceutical program for adherence to a course of treatment.

Before providing the medication, ensure the client understands all instructions regarding their prescription. This includes when to stop taking the medicine and when to contact the clinic if they experience any symptoms of medication toxicity. Remind the client of upcoming follow up appointments. Finally, instruct the client to keep medication out of reach of children and in a secure area of the home.

When physicians or their designees provide medications in this manner, there are labeling requirements that must be met in accordance with Texas Dangerous Drug Act, Section 483.042(a)(2).

*Follow all security standards when mailing information to clients. Verify mailing procedures with local responsible party (LRP). See dshs.texas.gov/hivstd/policy/procedures/2016-01.shtm
The following must occur:

A. Place the allotted number of DOT packets in a light-resistant amber Ziploc bag and place a medication label on the outside of the bag. The label must contain the required information printed or handwritten by the clinician/nurse at the time medication is provided to the patient.

The label must include:
- name and address of medical director or physician who prescribed the drug
- date drug is delivered to patient
- patient name
- name, strength and directions for use of drug(s)

Sample label:

| Health Department Name Here |
| 123 Main St. |
| City, TX 77000 |
| Phone 123-456-7891 |

**Date:** 01/01/2018  
**Physician:** John Watson, MD  
**Patient:** Jane Doe  
**Medications:** Rifampin 600mg, Isoniazid 300mg, Pyrazinamide 1000mg, Ethambutol 800mg, Pyridoxine 50mg  
**Instructions:** Take 2 packets each day

B. Provide patients with a medication fact sheet. Contact the DSHS Pharmacy or TB Branch Nurse Consultant for the Facts and Comparisons medication fact sheets.

C. If mailing medications, include a letter in the patient’s preferred language explaining how to take the medication, any follow up toxicity assessments needed and information on contacting the clinic. Sample language is:

Hello (Patient),

As discussed on our phone call of (date), the (TB program name) will mail your medications for (enhanced self-administration [ESAT], video DOT [VDOT], etc.).

This package contains a (two-week/one-month, etc.) supply of medications prescribed for the treatment of TB disease. Please take the medication as prescribed below and as stated on the enclosed bag of
medication packets.

- You have been prescribed: (Name of Medication)
- You should take this medicine as follows: (dosage, frequency)
- The physician who has prescribed this medication is: (Name here)
- Their contact is: (Insert either MD direct contact or LHD/PHR contact)

The TB program must follow up with you at least (daily/monthly) while you take this medication. Your scheduled phone calls for ESAT and toxicity assessments are:

- Dates here

Do not take the medication if you have symptoms or reactions as listed on the fact sheet. Contact the nurse right away at (contact numbers[s] here). Please call the (TB program contact here) if you have questions.

Thank you,

(TB Program Staff)

Contact the DSHS Pharmacy at 512-776-7500 with questions regarding labeling or ordering of supplies.
Appendix J: Sample Tuberculosis Infection Control Plan

Purpose

According to the Centers for Disease Control and Prevention (CDC), people who work or receive care in high risk congregate settings are among those at higher risk for becoming infected with *Mycobacterium tuberculosis* (*M. tuberculosis*). Therefore, it is necessary to have a tuberculosis (TB) infection control plan as part of a general infection control program to ensure:

- prompt detection of TB;
- airborne precautions; and
- treatment of people suspected or confirmed to have TB disease.

To ensure the safety of the work environment, the following TB infection control plan should be implemented.

General Outline

The TB infection control plan ICP is based on three (3) levels of control, listed by levels of hierarchy:

- Administrative controls which reduce the risk of exposure to people with infectious TB;
- Environmental controls which prevent spread and reduce the concentration of infectious droplet nuclei; and
- Respiratory protection or the use of personal protective equipment

Responsibility

The person responsible for the implementation and maintenance of the TB infection control plan is __________.

Administrative Controls

A written copy of the TB infection control plan is located at __________ and is available for inspection during regular business hours.

Ensure that:

A. TB prevention education and training is provided to staff, contractors and interns upon hire. Training topics include:
   1. Mode of TB transmission:
   2. TB sign and symptoms;
   3. TB risk factors;
   4. TB disease vs. TB infection;
   5. Disinfection practices for equipment and exam rooms; and
   6. Proper use of environmental and respiratory controls.
B. The facility provides TB screening or requests proof of TB clearance before or upon employment.

C. Clients with probable or confirmed TB disease are separated from other clients. A surgical mask is placed on the client if an airborne infection isolation (AII) room is not available.

D. Posters and signs are used throughout the facility to remind patients, visitors and staff of proper cough etiquette.

E. Initial and ongoing TB education is provided to people receiving TB prevention and care services.

Environmental Controls

This facility utilizes the following method(s) of environmental control:

A. General Ventilation
   1. _________ is responsible for implementing schedule of preventive maintenance in accordance with manufacturer’s instructions.
   2. The current log is located at __________.
   3. Historic records are filed in __________.

B. Local Exhaust Ventilation
   1. _________ is responsible for implementing schedule of preventive maintenance in accordance with manufacturer's instructions.
   2. The current log is located at __________.
   3. Historic records are filed in __________.

C. AIIR (location):
   1. AII rooms meet CDC criteria.
   2. Negative pressure is monitored daily by __________. The method of monitoring is ☐ smoke test, ☐ tissue test or ☐ other visual check.
   3. Negative pressure checks are documented using the _________ log. The current log is located at __________.
   4. Historic records are filed in __________.

D. High-Efficiency Particulate Air (HEPA) Filters (location):
   1. __________ is responsible for implementing schedule of preventive maintenance in accordance with manufacturer’s instructions.
   2. The current log is located at __________.
   3. Historic records are filed in __________.

E. Ultraviolet Germicidal Irradiation (location):
1. __________ is responsible for implementing schedule of preventive maintenance in accordance with manufacturer’s instructions.
2. The current log is located at __________.
3. Historic records are filed in __________.

**Respiratory Protection Program**

The facility’s respirator protection program is in accordance with Occupational Safety and Health Administration (OSHA) Respiratory Protection Standard 29CFR 1910.134.

A. In this facility, the following brand/model of N-95 respirator is used to protect staff __________.

B. Respirators are purchased by __________.

C. Initial fit testing is provided to employees who work in assignments that may require use of an N-95 respirator.

D. Before fit-testing, a medical evaluation is conducted to determine the employee’s ability to wear a respirator.

E. Fit-testing is repeated once a year and whenever a different respirator is used.

F. A medical re-evaluation is obtained if an employee reports medical signs or symptoms that are related to the ability to use a respirator or if observations during fit-testing indicate a need for a medical evaluation.

G. If a staff person’s weight changes significantly, or if facial/dental alterations occur within a year, the staff person will request that a fit test be repeated to ensure adequate respirator fit.

H. The use of N-95 respirators is prohibited for any staff member who has facial hair that comes between the sealing surface of the face piece and the face of the wearer, because it is impossible to get a sufficient seal.

I. In this facility, staff with the following duty assignments require respirator fit testing:
   1. people entering rooms in which clients with probable or confirmed TB disease are being isolated;
   2. people present during cough-inducing or aerosol-generation procedures with clients with probable or confirmed TB disease;
   3. people who transport clients with probable or confirmed TB disease;
   4. people who conduct maintenance on environmental control equipment;
   and
   5. other people based upon risk for TB exposure.
J. A current list of staff who have been fit-tested, along with the date of fit-testing, manufacturer, model number and size of the respirator that was fit-tested, is located __________.

K. A fit test qualifies the staff person to wear only the specific make, model and size respirator for which an acceptable fit test result was achieved.

L. Staff wearing a respirator do a “seal check” of the respirator each time the respirator is used, in accordance with manufacturer’s recommendations.
Appendix K: TB Training and Education Resources

Designated staff using and signing the DSHS TB Standing Delegation Orders (SDOs) or local equivalent must have training and competency in TB care.

TB Nursing staff must complete 40 hours of initial training and education with 90 days of hire, followed by 16 hours of continuing education and training each calendar year.

<table>
<thead>
<tr>
<th>Training</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB Core Curriculum</td>
<td><a href="https://cdc.gov/tb/education/corecurr/">cdc.gov/tb/education/corecurr/</a></td>
</tr>
<tr>
<td>CDC TB Self-Study Modules (1-9)</td>
<td><a href="https://cdc.gov/tb/education/ssmodules/">cdc.gov/tb/education/ssmodules/</a></td>
</tr>
<tr>
<td>DSHS TB Orientation (after 90 days of hire)</td>
<td><a href="http://texasb.org">texasb.org</a></td>
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<tr>
<td>Heartland TB Nurse Case Management</td>
<td><a href="https://heartlandntbc.org/training/course_descriptions.php">heartlandntbc.org/training/course_descriptions.php</a></td>
</tr>
<tr>
<td>Heartland TB Intensive</td>
<td><a href="https://heartlandntbc.org/training/course_descriptions.php">heartlandntbc.org/training/course_descriptions.php</a></td>
</tr>
<tr>
<td>Heartland Pediatric TB Intensive</td>
<td><a href="https://heartlandntbc.org/training/course_descriptions.php">heartlandntbc.org/training/course_descriptions.php</a></td>
</tr>
<tr>
<td>Heartland TB Contact Investigation</td>
<td><a href="https://heartlandntbc.org/training/course_descriptions.php">heartlandntbc.org/training/course_descriptions.php</a></td>
</tr>
<tr>
<td>TST Competency Check-List (TB-905)</td>
<td><a href="http://dshs.texas.gov/idcu/disease/tb/forms/">dshs.texas.gov/idcu/disease/tb/forms/</a></td>
</tr>
<tr>
<td>Treatment of Drug Susceptible Tuberculosis</td>
<td></td>
</tr>
<tr>
<td>Webinar</td>
<td></td>
</tr>
<tr>
<td>Vision and Hearing Certification</td>
<td>Local/regional training; contact regional office</td>
</tr>
<tr>
<td>Training</td>
<td>Reference</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Yearly continuing education and training</td>
<td>Education and training as required by CD or TB manager (or designee). May include:</td>
</tr>
<tr>
<td></td>
<td>• Local yearly training (e.g., blood borne pathogens); may vary</td>
</tr>
<tr>
<td></td>
<td>• Continuing education required for certification/professional license renewal; may vary</td>
</tr>
<tr>
<td></td>
<td>• Yearly review of SDOs, TB Work Plan or other guidance documents; maintain training rosters</td>
</tr>
<tr>
<td></td>
<td>• DSHS webinars (e.g., Research Rounds, TB Brown Bag sessions); maintain training rosters</td>
</tr>
<tr>
<td></td>
<td>• Skills training (e.g., phlebotomy, TST, sputum collection)</td>
</tr>
<tr>
<td></td>
<td>• Local case study review</td>
</tr>
<tr>
<td></td>
<td>• Conference attendance (e.g., National TB Controller's Association [NTCA], Texas Public Health Association)</td>
</tr>
</tbody>
</table>
Appendix L: Sample In-Service and Training Roster

Topic: _____________________________________________________________
Trainer/Educator: ____________________________________________________
Date: ______________________________________________________________
Location: ___________________________________________________________
Number of Hours: ____________________________________________________

<table>
<thead>
<tr>
<th>Printed Name</th>
<th>Signature</th>
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<tbody>
<tr>
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Appendix M: Sample Stakeholder Training/Education Roster

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## DACTS Audit Tool for State-Designated Case Registries (Draft)

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<tr>
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<td>1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>Have all members of TB Case Registry team completed their training?</td>
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</tr>
<tr>
<td></td>
<td>How many members?</td>
<td></td>
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<tr>
<td></td>
<td>How many completed?</td>
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<tr>
<td></td>
<td>How many did not complete?</td>
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<td>1.2</td>
<td>Basic TB Facts</td>
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<td>1.3</td>
<td>Core Curriculum on Tuberculosis, Sixth Edition 2013</td>
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<td>1.4</td>
<td>Diagnostic Standards and Classification of TB in Adults and Children; American Journal of Respiratory Critical Care Medicine 2000; Volume 161</td>
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<td>1.5</td>
<td>Guidelines for the Investigation of Contacts of Persons with Infectious Disease; MMWR 2005, 54 (No RR-15, 1-37)</td>
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<td>1.6</td>
<td>Aggregate Reports for TB Program Evaluation, Training Manual and Users Guide</td>
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<td>1.7</td>
<td>RVCT Instructions Manual</td>
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<td>1.8</td>
<td>A Guide and Toolkit for QA for TB Surveillance Data</td>
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<td>1.9</td>
<td>TB101 for Health Care Workers [cdc.gov/tb/webcourses/TB101/intro.html]</td>
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## 1.0 Training Requirements

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<td>Monthly TB Surveillance Conference Calls</td>
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## 2.0 System Access Requirements

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<th>No</th>
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<tbody>
<tr>
<td>2.1</td>
<td>Do all team members have access to the necessary systems to perform their surveillance duties?</td>
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<tr>
<td>2.2</td>
<td>GlobalScape</td>
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</tr>
<tr>
<td>2.3</td>
<td>Access to state and federal training websites</td>
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</tr>
<tr>
<td>2.4</td>
<td>THISIS</td>
<td></td>
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</tr>
<tr>
<td>2.5</td>
<td>PHLIMS/Labware – Public Health Laboratory Information Management System</td>
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<td></td>
</tr>
<tr>
<td>2.6</td>
<td>NTIP – National TB Indicators Project System</td>
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</tr>
<tr>
<td>2.7</td>
<td>NTSS – National Telecommunications Surveillance System</td>
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<tr>
<td>2.8</td>
<td>TB GIMS – TB Genotyping Information Management System</td>
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<tr>
<td>2.9</td>
<td>EDN – Electronic Disease Notification System</td>
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### 3.0 Protocol Requirements

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<td>3.1</td>
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<td>Data Accuracy</td>
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<td></td>
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</tr>
<tr>
<td>3.3</td>
<td>Data Completeness</td>
<td></td>
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<tr>
<td>3.4</td>
<td>Data Timeliness</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3.5</td>
<td>Data Security and Confidentiality</td>
<td></td>
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<tr>
<td>3.6</td>
<td>Plan for Improvement</td>
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### 4.0 Case Detection Requirements

<table>
<thead>
<tr>
<th></th>
<th>Case Detection Requirements</th>
<th>Yes</th>
<th>No</th>
<th>If no, plan for improvement:</th>
</tr>
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<tbody>
<tr>
<td>4.1</td>
<td>Maintain a Registry of TB Records:</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>• Cases-contacts</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>• Suspects-contacts</td>
<td></td>
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<tr>
<td></td>
<td>• LTBI’s referred or targeted testing</td>
<td></td>
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</tr>
<tr>
<td>4.1a</td>
<td>Records Inventory</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4.2</td>
<td>Established liaisons with appropriate reporting sources to enhance quality assurance of TB surveillance data</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4.3</td>
<td>Developed and implemented active case detection activities</td>
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</tr>
<tr>
<td>4.4</td>
<td>Evaluated the completeness of reporting of TB cases to the surveillance system</td>
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</table>
## 5.0 Data Accuracy Requirements

<table>
<thead>
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<th>Yes</th>
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<tbody>
<tr>
<td>5.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaluated accuracy or validity of RVCT data</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Assessed knowledge, skills and abilities of staff and provided training if needed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provides training on Data Entry Standards</td>
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</tr>
<tr>
<td>5.3a</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Adheres to Data Stamping policy</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5.2b</td>
<td></td>
<td></td>
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<tr>
<td>Adheres to complete record search</td>
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## 6.0 Data Completeness Requirements

<table>
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<th>Requirement</th>
<th>Yes</th>
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<tbody>
<tr>
<td>6.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintains Completeness of all RVCT variables</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matches TB and HIV Case Registries</td>
<td></td>
<td></td>
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<tr>
<td>6.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaluates programmatic performance by using TB surveillance data, at least once a year</td>
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## 7.0 Data Timeliness Requirements

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<th>If no, plan for improvement:</th>
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<tbody>
<tr>
<td>7.1</td>
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<tr>
<td>Reports all newly diagnosed cases of TB to the TB Branch according to schedule</td>
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<td></td>
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<tr>
<td>7.1a</td>
<td></td>
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<tr>
<td>Cases</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>7.1b</td>
<td></td>
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<tr>
<td>Suspects</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.1c</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Contacts</td>
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</table>
**7.0 Data Timeliness Requirements**

<table>
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<th>No</th>
<th>If no, plan for improvement:</th>
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<tbody>
<tr>
<td>7.1d</td>
<td>IJNs</td>
<td></td>
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<tr>
<td>7.1e</td>
<td>LTBIs</td>
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<tr>
<td>7.2</td>
<td>Submits complete RVCT reports to the TB Branch according to schedule</td>
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</tr>
<tr>
<td>7.3</td>
<td>Analyzes TB surveillance data at least quarterly</td>
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</tr>
<tr>
<td>7.4</td>
<td>Evaluates programmatic performance by using TB surveillance data at least once a year.</td>
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</tbody>
</table>

**8.0 Security and Confidentiality Requirements**

<table>
<thead>
<tr>
<th></th>
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<th>Yes</th>
<th>No</th>
<th>If no, plan for improvement:</th>
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</thead>
<tbody>
<tr>
<td>8.1</td>
<td>List of the minimum standards required for data sharing and use of surveillance data for public health action</td>
<td></td>
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<tr>
<td>8.2</td>
<td>Guidelines on how to initially assess the TB program’s data security and confidentiality policies and procedures</td>
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<tr>
<td>8.3</td>
<td>Checklist for conducting ongoing assessment of TB program compliance with the data security and confidentiality guidelines</td>
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</tr>
<tr>
<td>8.4</td>
<td>Questions and Answers to clarify issues regarding the Data Security and Confidentiality Guidelines</td>
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<td></td>
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</tr>
<tr>
<td>8.4a</td>
<td>Guidelines filed with Surveillance Procedures Manual</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>8.4b</td>
<td>Records in locked cabinet, in locked room</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.4c</td>
<td>Fax machine and copier in locked room</td>
<td></td>
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</tr>
<tr>
<td>8.0</td>
<td>Security and Confidentiality Requirements</td>
<td>Yes</td>
<td>No</td>
<td>If no, plan for improvement:</td>
</tr>
<tr>
<td>-----</td>
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</tr>
<tr>
<td>8.4d</td>
<td>Use only iron key flash drives for storing working files containing data</td>
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<tr>
<td>8.4e</td>
<td>Data files have a back-up system</td>
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</table>

<table>
<thead>
<tr>
<th>9.0</th>
<th>Maintains log for TB employees and other entities and dates of training and presentations.</th>
<th>Yes</th>
<th>No</th>
<th>If no, plan for improvement:</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.a</td>
<td>Log for TB employees</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>9.aa</td>
<td>Date, name of employee, jurisdiction or clinic, name of training</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.b</td>
<td>Log for other entities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.bb</td>
<td>Date, employee, entity, name of training, number participated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.0</th>
<th>Maintains personal folder of training materials in common or shared drive.</th>
<th>Yes</th>
<th>No</th>
<th>If no, plan for improvement:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.a</td>
<td>Slide Presentations from conferences and workshops</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10.b</td>
<td>World TB Day Presentations</td>
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<tr>
<td>10.c</td>
<td>TB Surveillance Brown Bag Presentations</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>10.d</td>
<td>What is TB, Questions and Answers Test</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>10.e</td>
<td>THISIS Instructions and Updates</td>
<td></td>
<td></td>
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<tr>
<td>10.f</td>
<td>Other Training Documents</td>
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</table>
Appendix O: List of Acronyms

AFB  Acid-Fast Bacillus
AII  Airborne Infection Isolation
APR  Annual Progress Report
ATS  American Thoracic Society
BAT  Branch Administrative Team
BCG  Bacillus Calmette-Guerin
BDQ  Bedaquiline
CDC  Centers for Disease Control and Prevention
CFZ  Clofazimine
CI   Contact Investigation
CMS  DSHS Contract Management Section
CPS  Child Protective Services
CQI  Continuous Quality Improvement
DGMQ CDC Division of Global Migration and Quarantine
DNA  Deoxyribonucleic Acid
DOPT Directly-Observed Preventative Therapy
DOT  Directly-Observed Therapy
DACTS Case Detection, Accuracy, Completeness, Timeliness, Security and Confidentiality
DR TB Drug-Resistant Tuberculosis
DSHS Texas Department of State Health Services
DST  Drug Susceptibility Test
TNF Tumor Necrosis Factor
TSBP Texas State Board of Pharmacy
TST Tuberculin Skin Testing
VDOT Video-Enabled Directly Observed Therapy
XDR-TB Extensively Drug Resistance