## TUBERCULIN SKIN TESTING ONE-STEP PROTOCOL v2

## Approved 12/11/2019

## **PURPOSE**

This protocol specifies the criteria and procedures for pharmacists to initiate the dispensing, administration and interpretation of the Mantoux Tuberculin Skin Test (TST) to assist in tuberculosis prevention and control.

#### PHARMACIST EDUCATION AND TRAINING

Prior to initiating the dispensing, administration and interpretation of TST under this protocol, the pharmacist(s) must successfully complete training and follow procedures as specified by the US Centers for Disease Control and Prevention Guidelines for Targeted Tuberculin Testing¹ from a provider accredited by the Accreditation Council for Pharmacy Education, completion of Module 3 of the CDC Core Curriculum on Tuberculosis: Targeted testing and the diagnosis of latent tuberculosis infection and tuberculosis disease², or by a comparable provider approved by the Kentucky Board of Pharmacy.

Provider of Training:	
Date of Training:	

### Inclusion Criteria

Pharmacists acting under this protocol are authorized to initiate the dispensing, administration and interpretation of TST to adults ages > 18 years of age who:

- Are at increased risk for latent or active tuberculosis disease
- Need TST documented for school attendance or insurance purposes

## **Exclusion Criteria**

Individuals meeting any of the following criteria:

- Allergy to any component of the TST or those patients with a previous allergic reaction to TST
- History of severe reaction (necrosis, blistering, anaphylactic shock, or ulcerations) to a previous TST
- Documented active TB or a clear history of treatment for TB infection or disease
- Extensive burns or eczema at the administration site
- Live vaccination administered within the last 28 days
- History of positive TST
- History of documented previous bacilli Calmette-Guerin (BCG) vaccination
- Any individual who is receiving an initial TST and will be receiving annual TB testing and thus is in need of two-step testing (refer to two step testing protocol)

<sup>&</sup>lt;sup>1</sup>Targeted Tuberculin Testing and Treatment of Latent Tuberculosis Infection ATS/CDC Statement Committee on Latent Tuberculosis Infection, June 2000. Available at <a href="https://www.cdc.gov/mmwr/preview/mmwrhtml/rr4906a1.htm">https://www.cdc.gov/mmwr/preview/mmwrhtml/rr4906a1.htm</a>.

<sup>&</sup>lt;sup>2</sup> CDC Core Curriculum on Tuberculosis. Available at <a href="https://www.cdc.gov/tb/education/corecurr/pdf/chapter3.pdf">https://www.cdc.gov/tb/education/corecurr/pdf/chapter3.pdf</a>.

## **MEDICATIONS**

This protocol authorizes pharmacists to administer tuberculin skin test antigen, also known as purified protein derivative (PPD), read, and interpret the TST. The Mantoux tuberculin skin test (TST) is the standard method of determining whether a person is infected with *Mycobacterium tuberculosis*. This protocol authorizes the pharmacist to dispense and administer the following products with an approved indication for TST.

Product	Mfr. / Dist.	NDCs*
Tubersol	Sanofi Pasteur	1mL (10 tests) = 49281-752-21
		5mL (50 tests) = 49281-752-22
Aplisol	Parkdale	1 mL (10 tests) = 42023-104-05
		5mL (50 tests) = 42023-104-05

<sup>\*</sup>or any other FDA-approved tuberculin skin test antigen

#### PROCEDURES FOR INITIATION OF TB SCREENING

Decision to conduct TST will be based on <u>relevant medical and social history</u> and consideration of <u>contraindications and precautions</u> as outlined below and in the ATS/CDC Guideline.<sup>1</sup>

## Relevant Medical and Social History

- Past medical history, including vaccination history
- Current medications
- Allergies and hypersensitivities
- Current living environment
- History of TST and reactions to TST

## Contraindications and Precautions (Refer to Exclusion Criteria)

- Allergy to any component of the TST or those patients with a previous allergic reaction to TST
- History of severe reaction (necrosis, blistering, anaphylactic shock, or ulcerations) to a previous TST
- Documented active TB or a clear history of treatment for TB infection or disease
- Extensive burns or eczema at the administration site
- Live vaccination administered within the last 28 days
- History of positive TST
- History of documented previous bacilli Calmette-Guerin (BCG) vaccination
- Any individual who is receiving an initial TST and will be receiving annual TB testing and thus is in need of two-step testing (refer to two step testing protocol)

The TST is performed by injecting 0.1mL of tuberculin PPD in the inner surface of the forearm. The injection should be made with a tuberculin syringe, with the needle bevel facing upward. The TST is an intradermal injection. When placed correctly, the injection should produce a pale elevation of the skin (a wheal) 6 to 10 mm in diameter (see Appendix A for detailed procedures).

#### PROCEDURES FOR MONITORING AND FOLLOW UP

The skin test reaction should be read between 48 and 72 hours after administration. An individual who does not return within 72 hours will need to be rescheduled for another skin test. The reaction should be measured in millimeters of the induration (palpable, raised, hardened area or swelling). The reader should not measure erythema (redness). The diameter of the indurated area should be measured across the forearm (perpendicular to the long axis) and recorded as millimeters of induration.

Interpretation and classification of TST results is determined by diameter of induration and consideration of risk factors as outlined in ATS/CDC Guideline<sup>1</sup> (Appendix B). If active TB symptoms are present or indicated on the TB risk assessment documentation (see Appendix C), patient must be immediately referred to a healthcare provider for treatment and further advised regarding isolation precautions.

## **EDUCATION REQUIREMENTS**

Individuals receiving TST will receive education regarding:

- Need to return in 48-72 hours for interpretation of the TST
- Result of the TST
- Need for confirmatory evaluation and a chest X-ray following a positive TST result
- Between an initial positive TST and confirmatory evaluation, the patient may carry on normal activity unless showing signs and symptoms of active TB disease.
- If active TB symptoms are present or indicated on the TB risk assessment documentation (see Appendix C), patient must be immediately referred to a health care provider for treatment and further advised regarding isolation precautions.

## **DOCUMENTATION**

Pharmacists will document via prescription record with each person who receives a TST under this protocol including:

- 1. Documentation as required in 201 KAR 2:170 for the dispensing of prescription medication; and Documentation that the individual receiving the TST was provided with the required education and referral information pursuant to this protocol.
- Documentation of test and result must be maintained by the pharmacist and provided to the patient and shall include both the millimeters of induration and interpretation of test (negative or positive).
- Individual test results, either positive or negative, may be provided to others upon the individual's request. This can include employers when testing is provided as requirement of employment.

## **NOTIFICATION AND REFERRAL**

Pharmacist shall ask all persons receiving TST under this protocol for the name and contact information of the individual's primary care provider and shall provide notification of the test performed under the protocol to the identified primary care provider within two (2) business days. Any individual affirmatively stating that the individual does not have a primary care provider may still receive a TST under this protocol provided all other applicable requirements of the protocol are met.

Guidance provided by 902 KAR 20:205 indicates **all positive results** must be sent to the local health department within one (1) business day and, if available, the individual's primary care provider for follow-up.

[If directed by the authorizing prescriber, the pharmacist(s) shall provide written notification via fax or other secure electronic means to the authorizing prescriber of individuals receiving TST under this protocol within 7 days of initiating dispensing.]

## **TERMS**

This protocol is effective as of the date all parties execute the document. It shall remain in effect for a period of one year and shall automatically renew for successive one-year periods unless otherwise terminated by any party, with or without cause. Any termination without cause shall require prior notice to all parties of no less than sixty days.

SIGNATURES	
Prescriber Name	 Date
Prescriber Signature	
Pharmacist Name	Date
Pharmacist Signature	

## Appendix A: Procedural Checklist for Placing/Reading Tuberculin Skin Tests<sup>3</sup>

	edural Obs	ervation Checklis			TSTs) — Mantoux Method
Date Trainer (QC by)			Traine	e (TST placed by)	
	Scoring:	✓ or Y = Yes	X or N = No	NA = Not Applicable	
stantially rare. These reactions are the of <sup>1</sup> Use a 14 <sup>1</sup> -cinch 27-gauge needle or fine <sup>8</sup> Prefilling syringes is not recommended. The administered as soon after the syring always be removed from the vial under stored in the dark as much as possible. Society of America. Diagnostic standard <sup>10</sup> Preventing tuberculin antigen and vaccinucts, careful visual inspection and readir of antigens, vaccines, and other injectable of tuberculosis skin tests. MMWR 2004; <sup>11</sup> If neither arm is available or acceptable SOURCE: National Tuberculosis Control to patient care. Smyrna, GA: National Tuther opposite direction of the needle inse is likely to move during the procedure, when the procedure, when the control of the needle inse is likely to move during the procedure, when the procedure whe	5 tuberculir gens erration and a on vial. e vial. e vial. TU PPD into ububbles to exin vial to aw erator immediate points and the properties with palm up it. The properties was using close and into palm up it. The properties was using close and into palm up it. The properties was using close and into palm up it. The properties are and the properties and classification of the products. Significant was been trictly as perfusion of the products. Significant was properties and classification of the products. Significant was properties and classification. Becamber up in the products of the products. Significant was properties and classification. Becamber up in the products of the pr	a diverse and an analysis of the short of tuberouling factors of the short of the s	5. Exp Inje  acrosis, vesicul a TST adminis rably a safety-t g amounts by g Following thes prould be avoid osis in adults a ation is importa bor patient us advertent intra ulder is a good erculosis Nurse tion; 1997. ) on patient's fe ne nondominan in eedle-stick ir site direction o	Inserts needle in firs Advances needle unt Releases stretched: Injects entire dose s Forms wheal, as liqt Removes needle wit Activates safety feat recommendations, if Places used needle resistant container w Immediately measur (Actual wheal meast If blood or fluid is proball. Discards used gauze precautions. If the TST is adminis shallow) and the wh should be placed im the other arm or in a 2 inches from the fin will be easier to read. Documents all inforr and time of TST plac do injection site and Uses appropriate ha lanation to the client re ction site  The wheal (bump) is Do not touch wheal; Avoid pressure or be Rare local discomfoo. May wash with soap No lotions or liquids to Keep appointment fe attion, or bullae at the tetered. ype) syringe. liass and plastics. To mini e procedures will also h olution should remain re ad. SOURCE: American of children. Am J Respin th. Measures should inclue only at time of testing, a dermal administration of alternate TST administra Consultant Coalition. Tu	lowly.  id is injected. hout pressing area.  ure of device per manufacturer's i applicable. and syringe immediately in puncture- ithout recapping needle. and syringe immediately in puncture- ithout recapping needle. se wheat to ensure 6–10 mm in diameter  urementmm).  seent, blots site lightly with gauze or cottor e or cotton ball according to local standard  etered incorrectly (too deeply or too  eal is inadequate (-6 mm), a new TST  mediately. Applying the second TST on  different area of the same arm (at least  st site) is preferable so that the TST result  ination required by the setting (e.g., date  zement, person who placed TST, location  tot number of tuberculin).  Ind hygiene methods after placing TST.  egarding care instructions for the  enormal and will remain about 10 minutes  avoid scratching.  In and irritation does not require treatment,  and water (without pressure) after 1 hour,  on site, except for light washing, as above,  or reading.  et site, or anaphylactic shock, which is sub  mize reduction in potency, tuberculin should  elp avoid contamination. Test doses should  ingereated (not frozen). Tuberculin should  elp avoid contamination. Test doses should  ingereated (not frozen). Tuberculin should  elp avoid contamination of refrigerated prod  and improved record keeping of lot number  circli Care Med 2000;161:1376–95.  ude physical separation of refrigerated prod  and improved record keeping of lot number  tetanus toxoid—containing vaccines insteadation site.  berculosis nursing: a comprehensive guid-

 $<sup>^3</sup>$  Guidelines for preventing the transmission of tuberculosis in Healthcare Settings, 2005. MMWR Vol. 54 / No. RR-17. Available at <a href="https://www.cdc.gov/mmwr/pdf/rr/rr5417.pdf">https://www.cdc.gov/mmwr/pdf/rr/rr5417.pdf</a>.

#### Appendix F. (Continued) Quality control (QC) procedural observation checklists Quality Control (QC) Procedural Observation Checklist for Reading Tuberculin Skin Test (TST) Results — Palpation Method Trainer (QC by) Trainee (TST placed by) Scoring: ✓ or Y = Yes X or N = No NA = Not Applicable 1. Preliminary Marks dots transverse (perpendicular) to long axis of forearm. Uses appropriate hand hygiene methods before starting. 4. Placing and reading ruler Keeps fingernails shorter than fingertips to avoid misreading TST result. Places the "0" ruler line inside the edge of the left dot. Reads the ruler line inside right dot edge (uses lower measurement if between two gradations on millimeter scale) (Figure 1). TSI result. Keeps TST reading materials at hand (eyeliner pencil or ballpoint pen," and ruler). Uses well-lit area. Uses appropriate hand hygiene methods after reading TST result. Inspects for the site of the injection. 5. Documenting results 2. Palpate — finding margin ridges (if any) Records all TST results in millimeters, even those classified Palpates with arm bent at elbow at a 90° angle. as negative. Does not record only as "positive" or "negative." Records the absence of induration as "0 mm." Lightly sweeps 2-inch diameter from injection site in four directions. Correctly records results in mm; only a single measured induration in mm should be recorded. Trainee's measurement \_\_\_\_\_ mm. Trainer's (gold standard) measurement \_\_\_\_\_ mm Uses zigzag featherlike touch. Repeats palpation with arm bent at elbow at a 45° angle to determine presence or absence of induration. Trainee's result within 2 mm of gold standard reading?§ If induration is present, continue with these steps†: Yes No 3. Placing marks Holds palm over injection site. NOTE: In rare instances, the reaction might be severe (vesiculation, ulceration, or necrosis of the skin). Report severe adverse events to the FDA MedWatch Adverse Events Reporting System (AEFS), telephone: 800-FDA-1088; fax: 800-FDA-0178; http://www.fda.gov/medwatch report Cleanse site with antiseptic swab using circular motion from center to outside. Uses fingertips to find margins of the induration. Marks the induration by placing small dots on both sides of the form 3500, Physicians' Desk Reference induration. Inspects dots, repeats finger movements toward indurated margin, and adjusts dots if needed. \*A fine-tipped eyeliner pencil or ballpoint pen can be used as a marker. An eyeliner pencil is useful for TST training and for blinded independent duplicate readings (BIDRs) because the dots are easy to remove with a dot of lubricant (e.g., baby oil). Alternative TST result reading methods have been described, including the pen method. If induration is not present, record the TST result as 0 mm and go to the end of this form (Documenting results). For example, if the TST trainer reads the TST result (the gold standard reading) as 11 mm, the trainee's TST reading should be between 9–13 mm to be considered correct.

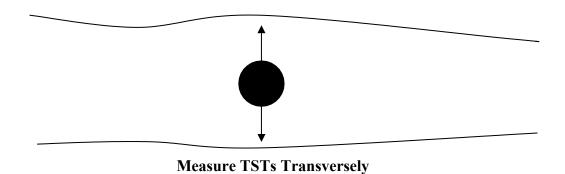
## Appendix B: Interpretation of the Tuberculin Skin Test

The TST reading should be based on measurement of induration, not erythema, using a Mantoux skin test ruler. The diameter of induration should be measured transversely to the long axis of the forearm and recorded in millimeters. Record no induration as zero (0) millimeters.

Classification of the Tuberculin Skin Test Reaction (Table 8: page 1390)

Induration of >5mm	Induration of >10mm	Induration of >15mm
Positive if certain factors present:      HIV positive     Recent contact with active TB patient     Individuals with fibrotic changes on chest radiograph consistent with prior TB     Individuals with organ transplants     Individuals who are immunosuppressed for other reasons	Positive if certain factors present:  Recent immigrants (<5years) from high prevalence country Injection drug users Residents and employees of high-risk congregant settings Mycobacteriology lab personnel Persons with clinical conditions that place them at high risk	<ul> <li>Positive for any individual, including persons with no known risk factors for TB testing</li> <li>However, targeted skin testing programs should only be conducted among high-risk groups</li> </ul>

A negative TST result does not exclude LTBI or active TB disease.



## **CDC LTBI: A Guide for Primary Health Care Providers**

## Sample Risk Assessment

Appendix C: Kentucky Department for Public Health TB Risk Assessment Forms (Example of TB-4 TB Risk Assessment Form (Rev. July 2018); TB-4a Instructions for TB Risk Assessment; TB-4b Additional Instructions) *Please check the Kentucky Department for Public Health website for updates to TB Risk Assessment forms under Clinical Service Guide Forms and Teaching Sheets:* <a href="https://chfs.ky.gov/agencies/dph/dpqi/hcab/Pages/ccsguide.aspx">https://chfs.ky.gov/agencies/dph/dpqi/hcab/Pages/ccsguide.aspx</a>

INSERT LOGO HERE Kentucky Department For Public Health Tuberculosis (TB) Risk Assessment				
Patient name (L,F,M):				Sev: SSN:
Address:				
Home/Work #:				
Language:Count				
Allergies: Current	: Medications:			
I. Screen for Active TB Symptom	s (Check all that apply)			Test / BAMT / TB Treatment:
None (Skip to Section II, "Screen for TB Cough for ≥ 3 weeks → Productive: Hemoptysis	YESNO  Pediatric Patients	History of prior Date (+) TST /	(+) TST or ( (+) BAMT	OYES → Year: (+) BAMT:NOYES TST:mm CXR result:ABNWNL
Fever, unexplainedUnexplained weight lossPoor appetite Night sweatsFatigue  Evaluate these symptoms	(≤5 years of age): WheezingFailure to thriveDecreased activity, playfulness and/or energyLymph node swelling	Dx:LTBI _	Disease NOYES	Tx End:
in context	Personality changes	III. <u>Findir</u>	ng(s) (Chec	k all that apply)
<ul> <li>II. Screen for TB Infection Risk (Check all that apply)</li> <li>Individuals with an increased risk for acquiring latent TB infection (LTBI) or for progression to active disease once infected should have a TST. Screening for persons with a history of LTBI should be individualized.</li> <li>A. Assess Risk for Acquiring LTBI. The Patient:         <ul> <li>is a current high risk contact of a person known or suspected to have TB disease.</li> <li>has been in another country for - 3 or more months where TB is common, and has been in the US for ≤ 5 years</li> <li>is a resident or an employee of a high TB risk congregate setting</li> <li>is a healthcare worker who serves high-risk patients</li> <li>is medically underserved</li> <li>has been homeless within the past two years</li> </ul> </li> </ul>		Previous Treatment for LTBI and/or TB disease  No risk factors for TB infection Risk(s) for infection and/or progression to disease Possible TB suspect Previous (+) TST or (+) BAMT, no prior treatment  IV. Action(s) (Check all that apply) Issued screening letter Referred for CXR Referred for medical evaluation Administered the Mantoux TB Skin Test Draw BAMT / Interferon-gamma Release Assay ((IGRA) Other:		
injects illicit drugs or uses crack cocaine is a member of a group identified by the an increased risk for TB infection needs baseline/annual screening approv	e health department to be at	Arm:Left Date/Time Induration	Right	Arm:LeftRightDate/Time
B. Assess Risk for Developing TB Dise	ase if Infected	ВАМТ	T-SPOT	. <i>TB</i> QFT-TB-Gold-Plus
The Patient is HIV positive has risk for HIV infection, but HIV statu		Date/Time drav		Borderline/Indeterminate
was recently infected with <i>Mycobacterium tuberculosis</i> has certain clinical conditions, placing them at higher risk for TB disease:		Screener's signature:  Screener's name (print):		
injects illicit drugs (determine HIV status): has a history of inadequately treated TB		Screener's title:		
is >10% below ideal body weight		Date: Phone #:		
is on immunosuppressive therapy (this includes treatment for rheumatoid arthritis with drugs such as REMICADE, HUMIRA, etc.)		Comments:		
I hereby authorize the doctors, nurses administer a Tuberculin Skin Test (TST tuberculosis (BAMT) test.  I agree that the results of this test ma I understand that:  tuberculosis (BAMT) test.	s, or nurse practitioners of the Γ) or draw blood from me or my be shared with other health	y child named abo	ove for a Bloc	
X			Date: _	
IMPORTANT: A decision to test is a decision Program discourages administration of the Mant	to treat. Given the high rates of fa	lse positive TB skin te	est results, the	



## Kentucky Department For Public Health Instructions for the TB Risk Assessment

#### Purpose of Form

The TB Risk Form is a tool to assess and document a patient's TB symptoms and/or risk factors. Completing this form will also help in determining the need for further medical testing and evaluation.

## **Directions for Completing the Form**

Print clearly and complete this form according to the instructions provided below.

#### I. Screen for Presence of TB Symptoms

- Screen the patient for symptoms of active TB disease
- All symptomatic individuals who have not had a positive tuberculin skin test (TST) in the past should: (1) receive a TST or a Blood
  Assay for Mycobacterium tuberculosis (BAMT or Interferon Gamma Release Assay [IGRA]); (2) have their sputum collected; and
  (3) be referred for an immediate chest x-ray and medical evaluation regardless of the TST or BAMT result.
- If the patient does not have symptoms of active TB disease, go to Section II and assess risk for LTBI and/or disease.
- Symptoms of active TB disease are more subtle in children. Children with symptoms of active TB disease should receive a TST, CXR and immediate medical evaluation by medical personnel knowledgeable about pediatric TB.

#### II. Screen for TB Infection Risk (In subsections A and B, check all the risk factors that apply.)

Section II has 2 sections. Section A: "Assess Risk for Acquiring LTBI", Section B: "Assess Risk for Developing TB Disease if infected".

- If a patient has one or more risk factors for LTBI as listed in sections A or B, then go to Section III and administer the TST or BAMT.
- If a patient does not have risk factors for LTBI, do not administer the TST or BAMT. Go to Section III and place a check next to "No Risk Factors for TB Infection."
- If the patient's school, employment, etc. requires a TB screening, place a check next "Issued Screening Letter" (Section IV) and provide that document to the patient.

## A. Assess Risk for Acquiring LTBI -- The following are definitions of select categories of persons at risk for LTBI

- Person is a current close contact of another individual known or suspected to have TB disease --Person is part of a current TB contact investigation
- Person is a resident/employee of high TB risk congregate settings-
  - These settings are correctional facilities, nursing homes, and long-term care institutions for the elderly, mentally ill, and persons with AIDS.
- Person is a health care worker who serves high-risk clients --Screen for the individual risk factors for TB infection, unless screening efforts are part of an ongoing facility infection control program approved by local health department.
- Person is medically underserved –
   Person does not have a regular health care provider, and has
   not received medical care within the last 2 years.
- Person is an infant, a child or an adolescent exposed to an adult(s) in high-risk categories –
   Child has foreign-born parents, or child's parents/caretakers are at high risk for acquiring TB infection.
- Person is a member of a group identified by a local health department to be at an increased risk for TB infection --Identification of a group is based on local epidemiologic data showing an increase in the number of persons with TB disease or TB infection in the given group
- Person needs baseline/annual screening approved by health department –
  - Screening program that is approved by the local health dept. for facilities or individuals at an increased risk for LTBI

# B. Assess Risk for Developing TB Disease if Infected - The following are definitions of select categories of persons at risk for TB disease if infected

- Person's HIV Status is unknown but has risk for HIV infection
   Offer HIV test. Proceed with the TB Skin Test or BAMT, even
   if the patient refuses the HIV test.
- Person with clinical conditions that place them at high risk -Conditions include substance abuse, chest x-ray findings that
  suggest previous TB, diabetes mellitus, silicosis, prolonged
  corticosteroid therapy, cancer of the head and neck,
  leukemia, lymphoma, hematologic and reticuloendothelial
  diseases, end stage renal disease, smoker, intestinal bypass
  or gastrectomy, and chronic malabsorption syndromes.
- Person is on immunosuppressive therapy –
   Person is taking ≥ 15 mg/day of prednisone for ≥ 1 month;
   person is receiving treatment for rheumatoid arthritis with
   medications such as REMICADE, Enbrel, or HUMIRA and/or
   person needs baseline evaluation prior to start of arthritis
   treatment with the medications cited here

## III. Finding(s) (Check all findings that apply.)

In this section, indicate findings from the assessments in all previous sections.

## IV. Action(s) (Check all actions that apply.)

- Indicate the action(s) to take as a result of the findings in Section III
- If administering a TST or BAMT, provide all requested
  data.
- Write other pertinent patient information next to "Comments"

## Additional Follow-up to the TST or BAMT

- If the patient's TST reaction or BAMT result is interpreted as positive or if she/he has symptoms for TB disease, refer the patient immediately for a chest x-ray.
- If a person has a history of a positive TST or a positive BAMT and is currently asymptomatic, then refer him/her for a chest x-ray if the following two conditions apply: 1) patient is a candidate for LTBI treatment and 2) patient is willing to adhere to the treatment.

## Additional Guidelines for Tuberculosis (TB) Risk Assessments, Form TB-4

Since 2007, Local Health Departments (LHDs) have had more activity for "Targeted Tuberculin Testing and Treatment of Latent Tuberculosis Infection," <a href="http://www.cdc.gov/MMWR/preview/MMWRhtml/rr4906a1.htm">http://www.cdc.gov/MMWR/preview/MMWRhtml/rr4906a1.htm</a>. The TB Risk Assessment Form, TB-4, was developed to aid Local Health Departments in conducting TB risk assessments with targeted testing for those Kentuckians with increased risk for latent TB infection (LTBI).

As noted in the CDC guideline, "Targeted tuberculin testing for LTBI is a strategic component of tuberculosis (TB) control that identifies persons at high risk for developing TB who would benefit by treatment of LTBI, if detected. Persons with increased risk for developing TB include those who have had recent infection with *Mycobacterium tuberculosis* and those who have clinical conditions that are associated with an increased risk for progression of LTBI to active TB. Following that principle, targeted tuberculin testing programs should be conducted only among groups at high risk and discouraged in those at low risk. Infected persons who are considered to be at high risk for developing active TB should be offered treatment of LTBI irrespective of age."

The overall goal of these TB risk assessments at LHDs is to increase the percentage of tuberculin skin tests (TSTs) or blood assays for *Mycobacterium tuberculosis* (BAMTs) that are administered to individuals at increased risk for LTBI and to decrease the percentage of TSTs or BAMTs that are administered to individuals who have no risk factors for LTBI.

LHDs should use the TB risk assessment for all patients presenting for TB screenings, including those individuals identified in contact investigations. The TB Risk assessment form is an ideal tool for educating patients about the signs and symptoms of active TB, the risk factors for developing LTBI, and the risk factors for rapid progression of LTBI to active TB.

The TB risk assessment process also more easily enables LHD staff to determine the cut-off values for reading a TST when a TST is used for screening. A "Report of Tuberculosis Screening," Form TB-3, can be completed for those patients who need documentation of the results of TB screening for their employers or other groups.

\*The Kentucky TB Program recognizes that the LHD may choose to collaborate with other organizations for the management and treatment of LTBI or other TB-related occupational health services. In these instances, a written agreement should be initiated between the two agencies to clearly identify the roles of each organization and define a payment schedule for any TB-related services provided by the LHD.