

Carolina Family Health Centers, Inc.

Tuberculosis Risk Assessment Worksheet

Date: _____

1. Incidence of TB

What is the incidence of TB in your community (county or region served by the healthcare setting), and how does it compare with the state and national average? What is the incidence of TB in your facility and specific settings and how do those rates compare? (Incidence is the number of TB cases in your community the previous year. A rate of TB cases per 100,000 persons should be obtained for comparison.)* This information can be obtained from the state or local health department.

State	2025	2026	2027
Wilson County			
Edgecombe County			
Nash County			

	Yes	No	Comment												
Are patients with suspected or confirmed TB disease encountered in your setting (inpatient and outpatient)															
If yes, how many patients with suspected and confirmed TB disease are treated in your health-care setting in 1 year (inpatient and outpatient)? Review laboratory data, infection-control records, and databases containing discharge diagnoses.	Year ____ No. patients ____ <table style="margin-left: 40px;"> <thead> <tr> <th></th> <th>Suspected</th> <th>Confirmed</th> </tr> </thead> <tbody> <tr> <td>1 year ago</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>2 year ago</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5 year ago</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>				Suspected	Confirmed	1 year ago	_____	_____	2 year ago	_____	_____	5 year ago	_____	_____
	Suspected	Confirmed													
1 year ago	_____	_____													
2 year ago	_____	_____													
5 year ago	_____	_____													
If no, does your health-care setting have a plan for the triage of patients with suspected or confirmed TB disease?															
Currently, does your health-care setting have a cluster of persons with confirmed TB disease that might be a result of ongoing transmission of <i>Mycobacterium tuberculosis</i> within your setting (inpatient and out patients)?															

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2. Risk Classification – Outpatient Setting

	Yes	No	Comments
How many TB patients are evaluated at your outpatient setting in 1 year? Review laboratory data, infection-control records, and databases containing discharge diagnoses.			
Is your health-care setting a TB clinic? (If yes, a classification of at least medium risk is recommended.)			
Does evidence exist that a high incidence of TB disease has been observed in the community that the health-care setting serves?			
Does evidence exist of person-to-person transmission of <i>M. tuberculosis</i> in the health-care setting? (Use information from case reports. Determine if any tuberculin skin test [TST] or blood assay for <i>M. tuberculosis</i> [BAMT] conversions have occurred among health-care workers [HCWs]).			
Does evidence exist that ongoing or unresolved health-care associated transmission has occurred in the health-care setting (based on case reports)?			
Is there a high incidence of immunocompromised patients or HCWs in the health-care setting?			
Have patients with drug-resistant TB disease been encountered in your health-care setting within the previous 5 years?			
When was the first time a risk classification was done for your health-care setting?			
Considering the items above, would your healthcare setting need a higher-risk classification?			
Depending on the number of TB patients evaluated in 1 year, what is the risk classification for your outpatient setting?			<input type="checkbox"/> Low risk <input type="checkbox"/> High risk
Does your healthcare setting have a plan for the triage of patients with suspected or confirmed TB disease?			

Number of Patients Diagnosed with Active M. Tuberculosis per CFHC, Inc. Location

Location	5 Year	2 year	1 year
Wilson			
Edgecombe			
Nash			

3. Screening of Health Care Worker (HCW) for M. Tuberculosis Infection

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	Yes	No	Comments		
Does the health-care setting have a TB screening program for HCWs?					
Is baseline skin testing performed with two-step TST for HCWs?					
If yes, which HCWs are included in the TB screening program?	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/>Physicians <input type="checkbox"/>Mid-level practitioners(nurse practitioners [NP] and physician's assistant [PA]) <input type="checkbox"/>Nurses <input type="checkbox"/>Administrators <input type="checkbox"/>Laboratory workers <input type="checkbox"/>Respiratory therapists <input type="checkbox"/>Physical therapists <input type="checkbox"/>Contract staff </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/>Janitorial staff <input type="checkbox"/>Maintenance or engineering staff <input type="checkbox"/>Transportation staff <input type="checkbox"/>Dietary staff Receptionists <input type="checkbox"/>Trainees and students <input type="checkbox"/>Volunteers <input type="checkbox"/>Other </td> </tr> </table>			<input type="checkbox"/> Physicians <input type="checkbox"/> Mid-level practitioners(nurse practitioners [NP] and physician's assistant [PA]) <input type="checkbox"/> Nurses <input type="checkbox"/> Administrators <input type="checkbox"/> Laboratory workers <input type="checkbox"/> Respiratory therapists <input type="checkbox"/> Physical therapists <input type="checkbox"/> Contract staff	<input type="checkbox"/> Janitorial staff <input type="checkbox"/> Maintenance or engineering staff <input type="checkbox"/> Transportation staff <input type="checkbox"/> Dietary staff Receptionists <input type="checkbox"/> Trainees and students <input type="checkbox"/> Volunteers <input type="checkbox"/> Other
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	Yes	No	Comments		
Is baseline skin testing performed with two-step TST for HCWs?					
Is baseline testing performed with QFT or other BAMT for HCWs?					
Are the <i>M. tuberculosis</i> infection test records maintained for HCWs					
How frequently are HCWs tested for <i>M. tuberculosis</i> infection?					
Where are the <i>M. tuberculosis</i> infection test records for HCWs maintained? Who maintains the records?					
If the setting has a serial TB screening program for HCWs to test for <i>M. tuberculosis</i> infection, what are the conversion rates for the previous years?	1 year _____ 4 year _____ 2 year _____ 5 year _____ 3 year _____				
Has the test conversion rate for <i>M. tuberculosis</i> infection been increasing or decreasing, or has it remained the same over the previous 5 years? (check one)	<input type="checkbox"/> Increasing <input type="checkbox"/> Decreasing <input type="checkbox"/> No change				
Do any areas of the health-care setting (e.g., waiting rooms or clinics) or any group of HCWs (e.g., lab workers, emergency department staff, respiratory therapists, and HCWs who attend bronchoscopies) have a test conversion rate for <i>M. tuberculosis</i> infection that exceeds the health-care setting's annual average?	Yes No If yes, list _____ _____ _____				
For HCWs who have positive test results for <i>M. tuberculosis</i> infection and who leave employment at the health setting, are efforts made to communicate test results and recommend follow-up of latent TB infection (LTBI) treatment with the local health department or their primary physician?	Yes	No	Not applicable		

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4. TB Infection-Control Program

	Yes	No	Comments
Does the health-care setting have a written TB infection-			
Does the written infection-control plan need to be updated based on the timing of the previous update (i.e., >1 year, changing TB epidemiology of the community or setting, the occurrence of a TB outbreak, change in state or local TB policy, or other factors related to a change in risk for transmission of <i>M. tuberculosis</i>)?			
Does the health-care setting have an infection-control committee (or another committee with infection control responsibilities)?			
If yes, which HCWs are included in the TB screening program?	<input type="checkbox"/> Physicians <input type="checkbox"/> Administrator <input type="checkbox"/> Nurses <input type="checkbox"/> Risk <input type="checkbox"/> Epidemiologists <input type="checkbox"/> assessment <input type="checkbox"/> Engineers <input type="checkbox"/> Quality control <input type="checkbox"/> Pharmacists <input checkbox"="" type="checkbox/>(QC)
 <input type="/> Laboratory personnel <input type="checkbox"/> Other <input type="checkbox"/> Health and safety staff		
If no, what committee is responsible for infection control in			
Who is responsible for the infection-control program?			
When was the TB infection-control plan first written?			
When was the TB infection-control plan last reviewed or updated?			

5. Implementation of TB Infection-Control Plan Based on Review by Infection-Control Committee

	Yes	No	Comment
Based on measurements in routine QC exercises, is the infection-control plan being properly implemented?			
Is ongoing training and education regarding TB infection –control practices provided for HCWs?			
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<p>Based on a review of the medical records, what is the average number of days for the following:</p> <ul style="list-style-type: none"> • Presentation collection until receipt by laboratory _____ • Specimen collection until receipt by laboratory _____ • Receipt of specimen by laboratory until smear results are provided to health-care provider _____ • Diagnosis until initiation of standard antituberculous treatment _____ • Receipt of specimen by laboratory until culture results are provided to health-care provider _____ • Receipt of specimen by laboratory until drug-susceptibility results are provided to health-care provider _____ • Admission of patients to hospital until placement in airborne infection isolation (AII) _____ 	
<p>Through what means (e.g., review of TST or BAMT conversion rates, patient medical records, and time analysis) are lapses in infection control recognized?</p>	
<p>What mechanisms are in place to correct lapses in infection control?</p>	

6. Laboratory Processing of TB-Related Specimens, Tests, and Results Based on Laboratory Review

Which of the following tests are either conducted in-house at your health-care setting's laboratory or sent out to a reference laboratory?	In-house	Outside Lab
Acid-fast bacilli (AFB) smears		
Culture using liquid media (e.g., Bactec and MB-BacT)		
Culture using solid media		
Drug-susceptibility testing		
Nucleic acid amplification (NAA) testing		
<p>What is the usual transport time for specimens to reach the laboratory for the following tests?</p> <p>AFB smears _____</p> <p>Culture using liquid media (e.g., Bactec, MB-BacT) _____</p> <p>Culture using solid media _____</p> <p>Drug-susceptibility testing _____</p> <p>Other (specify) _____</p> <p>NAA testing _____</p>		

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Does the laboratory at your health-care setting or the reference laboratory used by your health-care setting report AFB smear results for all patients within 24 hours of receipt of specimen? What is the procedure for weekends?	Yes No _____ _____
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7. Environmental Controls

Which environmental controls are in place in your health-care setting?		
<u>Environmental Controls</u>	<u>Description</u>	
<input type="checkbox"/> All rooms		
<input type="checkbox"/> Local exhaust ventilation (enclosing devices and exterior devices)		_____
<input type="checkbox"/> General ventilation (e.g., single-pass systems, recirculation systems)		_____
<input type="checkbox"/> Air-cleaning methods (e.g., high-efficiency particulate air [HEPA] filtration an ultraviolet germicidal irradiation [UVGI])		_____
What are the actual air changes per hour (ACH) and design for various rooms in the settings?		
<u>Room</u>	<u>ACH</u>	<u>Design</u>

Which of the following local exterior or enclosing devices such as exhaust ventilation devices are used in your health-care setting? (Check all that apply)		
<input type="checkbox"/> Laboratory hoods <input type="checkbox"/> Booths for sputum induction <input type="checkbox"/> Tents or hoods for enclosing patient or procedure		
What general ventilation systems are used in your health-care setting? (Check all that apply)		
<input type="checkbox"/> Single-pass system <input type="checkbox"/> Variable air volume (VAV) <input type="checkbox"/> Constant air volume (CAV) <input type="checkbox"/> Recirculation system <input type="checkbox"/> Other		
What air-cleaning methods are used in your health-care setting? (Check all that apply)		
<u>HEPA filtration</u>		
<input type="checkbox"/> Fixed room-air recirculation systems <input type="checkbox"/> Portable room-air recirculation systems		
<u>UVGI</u>		
<input type="checkbox"/> Duct irradiation <input type="checkbox"/> Upper-air irradiation <input type="checkbox"/> Portable room-air cleaners		

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How many AII rooms are in the health-care settings? _____
<p>What ventilation methods are used for AII rooms? (Check all that apply)</p> <p><u>Primary (general ventilation)</u></p> <p><input type="checkbox"/> Single –pass heating, ventilating, and air conditioning (HVAC)</p> <p><input type="checkbox"/> Recirculating HVAC systems</p> <p><u>Secondary (methods to increase equivalent ACH)</u></p> <p><input type="checkbox"/> Fixed room recirculating units</p> <p><input type="checkbox"/> HEPA filtration</p> <p><input type="checkbox"/> UVGI</p> <p><input type="checkbox"/> Other (specify) _____</p>

	Yes	No	Comment
Does your healthcare setting employ, have access to, or collaborate with an environmental engineer (e.g., professional with appropriate expertise (e.g., certified industrial hygienist) for consultation on design specifications, installation, maintenance, and evaluation of environmental controls?			
Are environmental controls regularly checked and maintained with results recorded in maintenance logs?			
Are AII rooms checked daily for negative pressure when in use?			
Is the directional airflow in AII rooms checked daily when in use with smoke tubes or visual checks?			
Are these results readily available?			
Do AII rooms meet the recommended pressure differential of 0.01-inch water column negative to surrounding structures?			
What procedures are in place if the AII room pressure is not negative?			

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8. Respiratory-Protection Program

	Yes	No	Comment												
Does your health-care setting have a written respiratory-protection program?															
Is annual respiratory-protection training for HCWs performed by a person with advanced training in respiratory protection?															
Does your –care setting provide initial fit testing for HCWs? If yes, when and how frequently is it conducted?															
Does your health-care setting provide periodic fit testing for HCWs? If yes, when and how frequently is it conducted?															
Is qualitative fit testing used?															
Is quantitative fit testing used?															
<p>Which HCWs are included in the respiratory protection program? (Check all that apply)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/>Physicians <input type="checkbox"/>Mid-level practitioners (NPs and Pas) <input type="checkbox"/>Nurses <input type="checkbox"/>Administrators <input type="checkbox"/>Laboratory personnel <input type="checkbox"/>Contract staff <input type="checkbox"/>Construction or renovation staff <input type="checkbox"/>Service personnel </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/>Janitorial staff <input type="checkbox"/>Maintenance or engineering staff <input type="checkbox"/>Transportation staff <input type="checkbox"/>Dietary staff <input type="checkbox"/>Students <input type="checkbox"/>Others (specify) _____ _____ _____ _____ </td> </tr> </table>				<input type="checkbox"/> Physicians <input type="checkbox"/> Mid-level practitioners (NPs and Pas) <input type="checkbox"/> Nurses <input type="checkbox"/> Administrators <input type="checkbox"/> Laboratory personnel <input type="checkbox"/> Contract staff <input type="checkbox"/> Construction or renovation staff <input type="checkbox"/> Service personnel	<input type="checkbox"/> Janitorial staff <input type="checkbox"/> Maintenance or engineering staff <input type="checkbox"/> Transportation staff <input type="checkbox"/> Dietary staff <input type="checkbox"/> Students <input type="checkbox"/> Others (specify) _____ _____ _____ _____										
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<p>Are respirators used in this setting for HCWs working with TB patients? If yes, include manufacturer, model, and specific applications (e.g., ABC model 1234 for bronchoscopy and DEF model 5678 for routine contact with infectious TB patients).</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><u>Manufacturer</u></td> <td style="width: 33%;"><u>Model</u></td> <td style="width: 33%;"><u>Specific application</u></td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </table>				<u>Manufacturer</u>	<u>Model</u>	<u>Specific application</u>	_____	_____	_____	_____	_____	_____	_____	_____	_____
<u>Manufacturer</u>	<u>Model</u>	<u>Specific application</u>													
_____	_____	_____													
_____	_____	_____													
_____	_____	_____													
<p>What method of fits testing is used? Describe.</p> <p>_____</p> <p>_____</p> <p>_____</p>															

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9. Reassessment of TB risk

How frequently is the TB risk assessment conducted or updated in the health-care setting?	
When was the last TB risk assessment conducted?	
What problems were identified during the previous TB risk assessment? 1. _____ _____ _____ 2. _____ _____ _____	
What, if any, actions were taken to address the problems identified during the previous TB risk assessments? 1. _____ _____ _____ 2. _____ _____ _____	
Did the risk classification need to be revised as a result of the last TB risk assessment?	

Adopted from the Guidelines for Preventing the Transmission of Mycobacterium Tuberculosis in Health-Care Settings, 2005. MMWR 2005; 54 (No. RR-17):[pages 128-133].

* If the population served by the health-care facility is not representative of the community in which the facility is located, an alternate comparison population might be appropriate.

† Test conversion rate is calculated by dividing the number of conversions among HCWs by the number of HCWs who were tested and had prior negative results during a certain period (see Supplement, Surveillance and Detection of *M. tuberculosis* infections in Health-Care Settings).