Appendix B. Tuberculosis (TB) risk assessment worksheet

This model worksheet should be considered for use in performing TB risk assessments for health-care facilities and nontraditional facility-based settings. Facilities with more than one type of setting will need to apply this table to each setting.

Scoring V	or Y = Yes	$X \text{ or } N = N_0$	NA = Not Applicable
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1. Incidence of TB

What is the incidence of TB in your community (county or region served by	Community rate
the health-care setting), and how does it compare with the state and national	State rate
average? What is the incidence of TB in your facility and specific settings	National rate
and how do those rates compare? (Incidence is the number of TB cases in	Facility rate
your community the previous year. A rate of TB cases per 100,000 persons	Department 1 rate
should be obtained for comparison.)* This information can be obtained from	Department 2 rate
the state or local health department.	Department 3 rate
Are patients with suspected or confirmed TB disease encountered in your setting (inpatient and outpatient)?	Yes No
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 Suspected Confirmed 1 year ago 2 years ago 5 years ago
If no, does your health-care setting have a plan for the triage of patients with suspected or confirmed TB disease?	Yes No
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 outpatient)?	Yes No

2. Risk Classification

Inpatient settings	
How many inpatient beds are in your inpatient setting?	
How many patients with TB disease are encountered in the inpatient setting in 1	Previous year
year? Review laboratory data, infection-control records, and databases	5 years ago
containing discharge diagnoses.	
Depending on the number of beds and TB patients encountered in 1 year, what	o Low risk
is the risk classification for your inpatient setting? (See Appendix C.)	o Medium risk
	o Potential ongoing transmission
Does your health-care setting have a plan for the triage of patients with	Yes No
suspected or confirmed TB disease?	
Outpatient settings	
How many TB patients are evaluated at your outpatient setting in 1 year?	Previous year
Review laboratory data, infection-control records, and databases containing	5 years ago
discharge diagnoses.	
Is your health-care setting a TB clinic?	Yes No
(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	Yes No
the community that the health-care setting serves?	
Does evidence exist of person-to-person transmission of <i>M. tuberculosis</i> in the	Yes No
health-care setting? (Use information from case reports. Determine if any	
tuberculin skin test [TST] or blood assay for M. tuberculosis [BAMT]	
conversions have occurred among health-care workers [HCWs]).	
Does evidence exist that ongoing or unresolved health-care—associated	Yes No

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?	Yes No
Have patients with drug-resistant TB disease been encountered in your health-care setting within the previous 5 years?	Yes No Year
When was the first time a risk classification was done for your health-care setting?	
Considering the items above, would your health-care setting need a higher risk classification?	Yes No
Depending on the number of TB patients evaluated in 1 year, what is the risk classification for your outpatient setting? (See Appendix C)	o Low risk o Medium risk o Potential ongoing transmission
Does your health-care setting have a plan for the triage of patients with suspected or confirmed TB disease?	Yes No
Nontraditional facility-based settings	
How many TB patients are encountered at your setting in 1 year?	Previous year 5 years ago
Does evidence exist that a high incidence of TB disease has been observed in the community that the setting serves?	Yes No
Does evidence exist of person-to-person transmission of <i>M. tuberculosis</i> in the setting?	Yes No
Have any recent TST or BAMT conversions occurred among staff or clients?	Yes No
Is there a high incidence of immunocompromised patients or HCWs in the setting?	Yes No
Have patients with drug-resistant TB disease been encountered in your health-care setting within the previous 5 years?	Yes No Year
When was the first time a risk classification was done for your setting?	
Considering the items above, would your setting require a higher risk classification?	Yes No
Does your setting have a plan for the triage of patients with suspected or confirmed TB disease?	Yes No
Depending on the number of patients with TB disease who are encountered in a nontraditional setting in 1 year, what is the risk classification for your setting? (See Appendix C)	o Low risk o Medium risk o Potential ongoing transmission

3. Screening of HCWs for M. tuberculosis Infection

5. Screening of the visitor in: tuberculosis infection	
Does the health-care setting have a TB screening program	Yes No
for HCWs?	
If yes, which HCWs are included in the TB screening	o Janitorial staff
program? (Check all that apply.)	o Maintenance or engineering staff
o Physicians	o Transportation staff
o Mid-level practitioners (nurse practitioners [NP] and	o Dietary staff
physician's assistants [PA])	o Receptionists
o Nurses	o Trainees and students
o Administrators	o Volunteers
o Laboratory workers	o Others
o Respiratory therapists	

o Physical therapists		
o Contract staff		
o Construction or renovation workers		
o Service workers		
Is baseline skin testing performed with two-step TST for HCWs	3?	Yes No
Is baseline testing performed with QFT or other BAMT for HC	Ws?	Yes No
How frequently are HCWs tested for <i>M. tuberculosis</i> infection?		
Are the <i>M. tuberculosis</i> infection test records maintained for HO	CWs?	Yes No
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 te conversion rates for the previous years? † 1 year ago		s infection, what are the
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)	o Increasing o Decreasing o 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 ap	plicable

4. TB Infection-Control Program

4. TB Infection-Control Program		
Does the health-care setting have a written TB infection-cont	rol plan?	Yes No
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 upda	ited?	
Does the written infection-control plan need to be updated bas	ed on the timing of	Yes No
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 loc		
other factors related to a change in risk for transmission of M .		
Does the health-care setting have an infection-control commit	tee (or another	Yes No
committee with infection control responsibilities)?		
If yes, which groups are represented on the infection-control		
committee? (Check all that apply.)	o Laboratory perso	onnel
o Physicians	o Health and safet	y staff
o Nurses	o Administrator	
o Epidemiologists	o Risk assessment	
o Engineers	o Quality control (QC)
o Pharmacists	o Others (specify)	

S. Implementation of TB Infection-Control Plan Based on Review by Infection-Control Committee Has a person been designated to be responsible for implementing an infection-control plan in your health-care setting? If yes, list the name: Based on a review of the medical records, what is the average number of days for the following: Presentation of patient until collection of specimen Specimen collection until receipt by laboratory Receipt of specimen by laboratory until smear results are provided to health-care provider Receipt of specimen by laboratory until drug-susceptibility results are provided to health-care provider Receipt of specimen by laboratory until drug-susceptibility results are provided to health-care provider Receipt of drug-susceptibility results until adjustment of antituberculosis treatment, if indicated Admission of patient to hospital until placement in airborne infection isolation (AII) Through what means (e.g., review of TST or BAMT conversion rates, patient medical records, and time analysis) are lapses in infection control recognized? What mechanisms are in place to correct lapses in infection control plan being properly implemented? Is ongoing training and education regarding TB infection—control? Based on measurement in routine QC exercises, is the infection-control plan being properly implemented? Is ongoing training and education regarding TB infection—control plan to the following tests are either conducted in-house at your health—care setting's laboratory or sent out to a reference laboratory? Acid-fast bacilli (AFB) smears Culture using liquid media (e.g., Bactec and MB-BacT) Culture using liquid media (e.g., Bactec and MB-BacT) Culture using solid media Drug-susceptibility testing Other (specify) NAA testing Obes the laboratory at your health—care setting or the reference laboratory Wate the laboratory at your health—care setting or the reference laboratory weekeds?				
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weekends?				
7. Environmental Controls				
Which environmental controls are in place in your health-care setting? (Check all that apply and describe)				
Environmental control Description				
o AII rooms				

o Local exhaust ventilation (enclosing devices and exterior devices)			
o General ventilation (e.g., single-pass system, recirculation system.)			
o Air-cleaning methods (e.g., high-efficiency particulate air [HEPA] filtration and ultravi	olet germicidal		
irradiation [UVGI])			
What are the actual air changes per hour (ACH) and design for various rooms in the settir	ng?		
Room ACH Design			
Which of the following local exterior or enclosing devices such as exhaust ventilation dev	rices are used in		
your health-care setting? (Check all that apply)			
o Laboratory hoods			
o Booths for sputum induction			
o Tents or hoods for enclosing patient or procedure			
What general ventilation systems are used in your health-care setting? (Check all that app	oly)		
o Single-pass system			
o Variable air volume (VAV)			
o Constant air volume (CAV)			
o Recirculation system			
o Other			
What air-cleaning methods are used in your health-care setting? (Check all that apply)			
HEPA filtration			
o Fixed room-air recirculation systems			
•			
o Portable room-air recirculation systems UVGI			
o Duct irradiation			
o Upper-air irradiation			
o Portable room-air cleaners			
How many AII rooms are in the health-care setting?			
What ventilation methods are used for AII rooms? (Check all that apply)			
Primary (general ventilation):			
o Single-pass heating, ventilating, and air conditioning (HVAC)			
o Recirculating HVAC systems			
Secondary (methods to increase equivalent ACH):			
o Fixed room recirculating units			
o HEPA filtration			
o UVGI			
o Other (specify)			
Does your health-care setting employ, have access to, or collaborate with an	Yes No		
environmental engineer (e.g., professional engineer) or other 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	Yes No		
maintenance logs?			
Are AII rooms checked daily for negative pressure when in use?	Yes No		
Is the directional airflow in AII rooms checked daily when in use with smoke tubes or	Yes No		
visual checks?			

Are these results readily available?		Yes No
What procedures are in place if the AII room		
pressure is not negative?		
Do AII rooms meet the recommended pressure differe	ntial of 0.01-inch water column	Yes No
negative to surrounding structures?		
-		
8. Respiratory-Protection Program		
Does your health-care setting have a written respirator	v-protection program?	Yes No
Which HCWs are included in the respiratory	o Janitorial staff	100 110
protection program? (Check all that apply)	o Maintenance or engineering staf	f
o Physicians	o Transportation staff	ı
o Mid-level practitioners (NPs and PAs)	<u> </u>	
o Nurses	o Dietary staff	
o Administrators	o Students	
·	o Others (specify)	
o Laboratory personnel		
o Contract staff		
o Construction or renovation staff		
o Service personnel		
Are respirators used in this setting for HCWs working		
model, and specific application (e.g., ABC model 1234	for bronchoscopy and DEF model :	5678 for routine
contact with infectious TB patients).		
<u>Manufacturer</u> <u>Model</u>	Specific application	
Is annual respiratory-protection training for HCWs per	formed by a person with advanced	Yes No
Is annual respiratory-protection training for HCWs per training in respiratory protection?	formed by a person with advanced	Yes No
training in respiratory protection?		
training in respiratory protection? Does your health-care setting provide initial fit testing		Yes No
training in respiratory protection? Does your health-care setting provide initial fit testing If yes, when is it conducted?	for HCWs?	
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4)			
5)			
What act	ions were taken to address the problems identified during the previous TB risk as	sessmer	nt?
1)			
2)			
3)			
4)			
5)			
Did the r	isk classification need to be revised as a result of the last TB risk assessment?	Yes	No

^{*} 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).