

Tuberculosis (TB) risk assessment worksheet CY2022

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.

3		
C	** ** **	NT 4 NT 4 4 NT NT
Scoring $\sqrt{\text{or Y}} = \text{Yes}$	X or N = No	NA = Not Applicable
1 Scoring Vol 1 – 1 cs	Λ of $\Gamma_1 = \Gamma_1 \cup \Gamma_2 = \Gamma_1$	11A - 110t Applicable

1. Incidence of TB

1. Incidence of 1B		
What is the incidence of TB in your community (county or region served by the health-care 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.	Broward County Community rate: 2.3 (2022) 2.5 (2021) 2.1 (2020) State rate: 2.4 (2022) 2.3 (2021) 1.9 (2020) National rate: 2.5 (2022) 2.4 (2021) 2.2 (2020). Facility rate: CY 2021 (# of confirmed diagnosed cases of TB/number of admissions) ↑ 1/64, 997 =1.53 per 100,000 patients in 2022. (Facility rate in 2021: 1.45)	
Are patients with suspected or confirmed TB disease encountered in your setting (inpatient and outpatient)?	Yes	
If yes, how many patients with suspected and confirmed TB disease are treated in your healthcare setting in 1 year (inpatient and outpatient)? Review laboratory data, infection-control records, and databases containing discharge diagnoses.	Suspected Confirmed 2022: 2 1 2021: 10 1 2020: 15 1 2019: 29 3 2018: 16 2	
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)?	No	

2. Risk Classification

Inpatient settings		
How many inpatient beds are in your inpatient setting?	250	
How many patients with MTB disease are encountered in the inpatient setting in	CY2021 1	
1 year? Review laboratory data, infection-control records, and databases	CY2020 1	
containing discharge diagnoses.	CY2020 1	
	CY2019 3	
	CY2018 2	
Depending on the number of beds and TB patients encountered in 1 year, what	In CY 2021, there was 1	
is the risk classification for your inpatient setting (\geq 200 beds)? (See Appendix	confirmed MTB patient	
C.)	case; therefore BHCS is	
	classified as a "low risk"	
	facility.	

According to the CDC guidelines 2005, a "low risk" facility has less than 6 TB	
patients a year. A "medium risk" facility has greater than or equal to 6	
confirmed cases of tuberculosis annually.	
Does your health-care setting have a plan for the triage of patients with	Yes
suspected or confirmed TB disease?	

3. Screening of HCWs for M. tuberculosis Infection			
Does the health-care setting have a TB screening program	Yes		
for HCWs?			
If yes, which HCWs are included in the TB screening	✓ Janitorial staff		
program? (Check all that apply.)	✓ Maintenance or engineering		
✓ Physicians	staff		
✓ Mid-level practitioners (nurse practitioners	✓ Transp	ortation staff	
[NP] and physician's assistants [PA])	✓ Dietary staff		
✓ Nurses	✓ Recept	tionists	
✓ Administrators	✓ Traine	es and students (Medical	
✓ Laboratory workers	studen	ts-under GME; Nursing	
✓ Respiratory therapists	and Al	lied under	
✓ Physical therapists	Learni	ng/Nursing department.	
✓ Contract staff (Required by the contracting	Record	ds and compliance are	
department. Records kept in contracting	manag	ed by the above	
department)	depart		
✓ Construction or renovation workers (same as	✓ Volum		
	Others		
✓ Service workers			
Is baseline skin testing performed with two-step TST (Tubercul	in Skin Test) for	Yes, but in the process	
HCWs?		of converting to QTF	
		testing per Employee	
		Health	
Is baseline testing performed with QFT (Quantiferon) or other	BAMT (Blood	No, but currently in the	
Assay for Mycobacterium Tuberculosis) for HCWs?		process of converting	
		QFT testing per	
		Employee Health	
How frequently are HCWs tested for M. tuberculosis infection?)	Annually during their	
		anniversary hire	
		period.	
Are the <i>M. tuberculosis</i> infection test records maintained for Ho	CWs?	Yes	
1			
Where are the <i>M. tuberculosis</i> infection test records for	Employee H	l Iealth Department	
	Employee F	lealth Department	
Where are the <i>M. tuberculosis</i> infection test records for HCWs maintained? Who maintains the records?	Employee F	lealth Department	
HCWs maintained? Who maintains the records?		-	
HCWs maintained? Who maintains the records? If the setting has a serial TB screening program for HCWs to te		-	
HCWs maintained? Who maintains the records?		-	
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? †		-	
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?† Benchmark 1.0% (2022): 0%		-	
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? † Benchmark 1.0% (2022): 0% (2021): 0%		-	
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? † Benchmark 1.0% (2022): 0% (2021): 0% (2020): 0.10%		-	
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? † Benchmark 1.0% (2022): 0% (2021): 0% (2020): 0.10% (2019): 0.95%		-	
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? † Benchmark 1.0% (2022): 0% (2021): 0% (2020): 0.10% (2019): 0.95% (2018): 0%		-	
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? † Benchmark 1.0% (2022): 0% (2021): 0% (2020): 0.10% (2019): 0.95%	st for <i>M. tuberculosi</i>	s infection, what are the	
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? † Benchmark 1.0% (2022): 0% (2021): 0% (2020): 0.10% (2019): 0.95% (2018): 0% (2017): 0% Has the test conversion rate for <i>M. tuberculosis</i> infection been	st for <i>M. tuberculosi</i> The rate increase	s infection, what are the	
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? † Benchmark 1.0% (2022): 0% (2021): 0% (2020): 0.10% (2019): 0.95% (2018): 0% (2017): 0%	st for <i>M. tuberculosi</i> The rate increase	s infection, what are the	

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?	No.
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?	Plan for positive: new hire positive skin test results are screened with a chest x-ray and are referred to their PCP or community resource for evaluation of latent TB status. This is required by day 30 after first day of employment. Employees who converted are seen by an ID physician through workers comp. If employees are terminated before they are seen and evaluated, a letter is sent by employee health to follow up with workers comp, private primary care physician or their new employee health department. Exposure follow up for employees who were terminated before the 10 th week of follow up are notified by letter
	to follow up with their PCP or new employee health department.

4. TB Infection-Control Program

4. 1B Infection-Control Program					
Does the health-care setting have a written TB infection-control plan?		Yes – in the Infection			
			Control Plan and a		
			Broward Health policy		
Who is responsible for the infection-control program?			Medical Director of		
			Infection Control		
			Program		
When was the TB infection-control plan first written?			06/05		
When was the TB infection-control plan last reviewed or updated?			2/2023		
Does the written infection-control plan need to be updated based on the t	iming	gof	Yes		
the previous update (i.e., >1 year, changing TB epidemiology of the com-	muni	ty or			
setting, the occurrence of a TB outbreak, change in state or local TB police	cy, or				
other factors related to a change in risk for transmission of M. tuberculos	<i>is</i>)?				
Does the health-care setting have an infection-control committee (or anot	her		Yes		
committee with infection control responsibilities)?					
If yes, which groups are represented on the infection-control					
committee? (Check all that apply.)	\checkmark	Lab	oratory personnel		
✓ Physicians	\checkmark	Hea	lth and safety staff		
✓ Nurses	\checkmark	Adn	ministrator		
✓ Epidemiologists	\checkmark	Risk	k assessment		
✓ Engineers	\checkmark	Qua	ality control (QC)		
✓ Pharmacists			ironmental staff		
✓ Nutritional staff	\checkmark	Resp	oiratory		
	✓	Faci	lities management		

5. 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:	Yes. Dr. Melvin Kohan, Medical Director of Infection Control Program, and Infection Control Committee Chairman
 Based on review of the medical records, what is the average nu Presentation of patient until collection of specimens Specimen collection until receipt by laboratory Receipt of specimen by laboratory until smear results Diagnosis until initiation of standard antituberculosis t Receipt of specimen by laboratory until culture results Receipt of drug susceptibility results until adjustment if indicated. Admission of patient to hospital until placement in air 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? 	are provided to healthcare provider 1 treatment 1 are provide for healthcare provider 1 of antituberculosis treatment, 1 borne infection isolation (AII) 1 Review of laboratory results, outbreak investigations and other means of surveillance. Process improvements, outbreak investigation, literature search,
	multidisciplinary teamwork, re-education of all staff, reporting through committee process within the facility.
Based on measurement in routine QC (Quality Control) exercises, is the infection-control plan being properly implemented?	Yes
Is ongoing training and education regarding TB infection- control practices provided for HCWs?	Yes

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

o. Laboratory 1 rocessing of 1D-Related Specimens, 1ests, and Results De	asea on Lasorato	J 110 110 11
Which of the following tests are either conducted in-house at your health-	In-house	Sent out
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 solid media	✓	
Drug-susceptibility testing (completed at BH facility central lab)	✓	
Nucleic acid amplification (NAA) testing (completed at BH facility central	✓	
lab)		
Does the laboratory at your healthcare 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. The same properties on nights and we regular business laboratory will particle Epidemiologist to positive AFB resulting addition, the nursulting physician who or are notified.	ekends as hours. The age the on call o communicate ults outside of hours. In sing unit and the

7. Environmental Controls

Which environmental controls are in place in your health-care setting? (Check all that apply and describe)

Environmental control

- ✓ AII rooms
- ✓ Local exhaust ventilation (enclosing devices and exterior devices)
 ✓ General ventilation (e.g., single-pass system, recirculation system.)

Air-cleaning methods (e.g., high-efficiency particulate air [HEPA] filtration and ultraviolet germicidal irradiation [UVGI])

What are the actual air changes per hour (ACH) and design for various rooms in the setting?

Inpatient rooms: (Med Surg, tele, etc.) 6 ACH

Emergency Department: 12 ACH Operating Rooms: 15 ACH C-section in South Tower 15 ACH

AII Rooms: 12 ACH

Bronchoscopy Room (in GI suite): 12 ACH

Endoscopy Rooms - 12 ACH

Interventional Radiology Procedure Room - 15 ACH

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)

- ✓ Laboratory hoods
- ✓ Booths for sputum induction

What general ventilation systems are used in your health-care setting? (Check all that apply)

- ✓ Single-pass system
- ✓ Constant air volume (CAV)
- ✓ Recirculation system

What air-cleaning methods are used in your health-care setting? (Check all that apply) HEPA filtration

✓ Fixed room-air recirculation systems

How many AII rooms are in the health-care setting? Due to the pandemic, we increased our AII rooms from 33 to 76 and we switched back to 35 AII rooms but maintain the ability to increase the number of AII rooms.

76 rooms

ED rooms: 10, 11, 13,14,20,34, 35

ICU: 1, 8 CCU: 1, 8 3 East: 352 3 South: 381, 395

4 East: Private: 438 and 452.

4 West: 401, 409-412, 415 – 18, 423-426.

4 North: 459 and 462.

M/B (2nd floor South): 212 & 228 **NICU** (2nd floor South): 10 **L&D** (1st floor South): 5

3 Peds: 301

PICU (in Peds unit): 5
Bronch room (in GI suite): 1

What ventilation methods are used for AII rooms? (Check all that apply) Primary (general ventilation):

- ✓ Single-pass heating, ventilating, and air conditioning (HVAC)
- ✓ Recirculating HVAC systems

Secondary (methods to increase equivalent ACH):

- ✓ Fixed room recirculating units.
- ✓ HEPA Filtration

Does your health-care setting employ, have access to, or collaborate with an	Yes
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
maintenance logs?	

Are AII rooms checked daily for negative pressure when in use?		Yes
Is the directional airflow in AII rooms checked daily when in use with smoke tubes or		Yes
visual checks?		
Are these results readily available?		Yes
What procedures are in place if the AII room Patient is transferred. Facilities is		notified and the
pressure is not negative? room is closed until pressure is con		nfirmed
	negative.	
Do AII rooms meet the recommended pressure differential of 0.01-inch water column		Yes
negative to surrounding structures?		

8. Respiratory-Protection Program	
Does your health-care setting have a written respiratory-protection program?	Yes
Which HCWs are included in the respiratory ✓ Janitorial staff	
protection program? (Check all that apply) ✓ Maintenance or engineeri	ng staff
✓ Physicians ✓ Transportation staff	
✓ Mid-level practitioners (NPs and PAs)✓ Dietary staff	
✓ Nurses Students	
✓ Administrators	
✓ Laboratory personnel	
Contract staff	
Construction or renovation staff	
✓ Service personnel	
Are respirators used in this setting for HCWs working with TB patients? If yes, include ma	
model, and specific application (e.g., ABC model 1234 for bronchoscopy and DEF model 5	5678 for routine
contact with infectious TB patients).	
Manufacturer Model Specific application	TTD
Kimberly Clark N-95 #62126 & #62355 Routine contact with infectious	
3M corporation N-95 #1860 & 1860S Routine Contact with Infectiou	s TB patients
Is annual respiratory-protection training for HCWs performed by a person with advanced	Yes
training in respiratory protection?	105
training in respiratory protection.	
Does your health-care setting provide initial fit testing for HCWs?	Yes
If yes, when is it conducted?On hire by employee health	
Does your health-care setting provide periodic fit testing for HCWs?	Yes
If yes, when, and how frequently is it conducted? Yearly, however, during 2021, due	
to pandemic not all staff fitted, unless frontline caregivers, no periodic fit testing unless	
weight loss, etc. due to supply chain issues for N95.	
What method of fit testing is used? Describe.	Hood/Taste
1. Fit check: Saccharin or Bitrex fit check. Individual is asked to do normal, deep brea	thing; bend
over; side to side and up/down head movements).	
In qualitative fit teeting yeard?	Vas
Is qualitative fit testing used? Is quantitative fit testing used? (Available)	Yes No
is qualitative in testing used? (Available)	INU

9. Reassessment of TB risk

> Treaspessment of 15 lish	
How frequently is the TB risk assessment conducted or updated in the health-care	Yearly or if
setting?	needed based on
	influx of positive
	patients.
When was the last TB risk assessment conducted?	01/2022

hat problems were identified during the previous TB risk assessment? problems were identified.		
What actions were taken to address the problems identified during the previous TB risk assessment? Not applicable.		
Did the risk classification need to be revised as a result of the last TB risk	No. Our risk	
assessment?	remained the	
	same.	
Recommendations:		
1. Continue annual PPD testing and/or symptom screening and x-ray review of all employees and		

- volunteers.
- 2. Continue to closely monitor all patients admitted for suspected/known TB for appropriate isolation practices.
- 3. Continue referring new employees for latent TB infection evaluation as indicated.
- Continue education on yearly basis and as needed.
- 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).

Source: Downloaded from CDC Guidelines in 2/2019: Appendix B. TB risk assessment worksheet 9/27/2006)