

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 $\sqrt{\text{or Y}} = \text{Yes}$	$X \text{ or } N = N_0$	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	Facility rate:
the health-care setting), and how does it compare with the state and national	(# of confirmed diagnosed cases of
average? What is the incidence of TB in your facility and specific settings	TB/number of admissions*100,000)
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	CY 2022
should be obtained for comparison.)* This information can be obtained from	5/26,508= 18.86 per 100,000
the state or local health department.	•
	CY 2021
	9/12892= 69.81 per 100,000
	CY 2020
	4/21959 = 18.21 per 100,000
	_
	Community rate: (from dept. of
	health)
	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)
	2.37 (2021)
	2.16 (2020)
Are patients with suspected or confirmed TB disease encountered in your	Yes
setting (inpatient and outpatient)?	
If yes, how many patients with suspected and confirmed TB disease are	Year No. patients
treated in your health-care setting in 1 year (inpatient and outpatient)?	Suspected Confirmed
Review laboratory data, infection-control records, and databases containing	
discharge diagnoses.	2022 47 5
	2021 57 9
	2020 83 4
	N.
Currently, does your health-care setting have a cluster of persons with	No
confirmed TB disease that might be a result of ongoing transmission of	
Mycobacterium tuberculosis within your setting (inpatient and outpatient)?	

2. Risk Classification

Inpatient settings	
How many inpatient beds are in your inpatient setting?	719
How many patients with MTB disease are encountered in the inpatient setting in	2022: 5
1 year? Review laboratory data, infection-control records, and databases	2021: 9
containing discharge diagnoses.	2020: 4
Depending on the number of beds and TB patients encountered in 1 year, what	
is the risk classification for your inpatient setting? (See Appendix C.)	Low risk.
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 staff		
✓ Physicians		portation staff	
✓ Mid-level practitioners (nurse practitioners	✓ Dietary	y staff	
[NP] and physician's assistants [PA])		tionists	
✓ Nurses	Trainees and students (Medical		
✓ Administrators		ts-under GME; Nursing and	
✓ Laboratory workers		under Learning/Nursing	
✓ Respiratory therapists	depart	ment. Records and compliance	
✓ Physical therapists		naged by the above departments)	
Contract staff (Required by the contracting	√ Volunt		
	o Others		
department)			
Construction or renovation workers (same as			
contract workers)			
✓ Service workers			
Is baseline skin testing performed with two-step TST(Tubercul	in Skin Test) for	Yes	
HCWs?			
Is baseline testing performed with QFT (QuantiFERON) or oth	ner RAMT (Blood	No	
Assay for Mycobacterium Tuberculosis) for HCWs?	iei Brivii (Biood	110	
Tabbuy 101 mg coouccerain Tubbrourosis, 101 110 ms.			
How frequently are HCWs tested for <i>M. tuberculosis</i> infection	?	Annually during their	
The wind production of the state of the stat	•	anniversary hire period.	
Are the <i>M. tuberculosis</i> infection test records maintained for H			
The die M. Woorewoods infection to records maintained for the		105	
Where are the <i>M. tuberculosis</i> infection test records for	Employee Health	Department and Broward Health	
HCWs maintained? Who maintains the records?		Department maintain records of	
	1	conversions	
If the setting has a serial TB screening program for HCWs to to	est for M. tuberculosi	s infection, what are the	
conversion rates for the previous years?† Benchmark 1.0%			
2022 0.5%			
2021 0.0%			
2020 0.0%			
Has the test conversion rate for <i>M. tuberculosis</i> infection been	o Decreasing from	0.7% – 0% No conversions for	
increasing or decreasing, or has it remained the same over the	6		
previous 5 years? (check one)	and down over the last five years, the numbers		

	remain below the threshold benchmark of 1%. We have continued to recommend TST and annual fit testing for all employees.
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?	Yes - New hire converters are evaluated by PCP/ID physician prior to hire. 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

Does the health-care setting have a written TB infection-control plan?		Yes and BH Policy	
Who is responsible for the infection-control program?		Chief Medical Officer/	
		committee.	
When was the TB infection-control plan first written?		06/05	
When the TB infection-control plan was last reviewed or updated?		1/2023	
Does the written infection-control plan need to be updated based on t	the timing of	All infection control policies	
the previous update (i.e., >1 year, changing TB epidemiology of the	community of	or reviewed yearly.	
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 M. tuberch	ulosis)?		
Does the health-care setting have an infection-control committee (or another		Yes	
committee with infection control responsibilities)?			
If yes, which groups are represented on the infection-control			
committee? (Check all that apply.)	✓ L	aboratory personnel	
✓ Physicians	✓ H	lealth and safety staff	
✓ Nurses	✓ A	dministrator	
✓ Epidemiologists	✓ R	isk assessment	
✓ Engineers	✓ Q	lity control (QC)	
✓ Pharmacists	✓ E	ironmental staff	
		spiratory	
	✓ C	linical education	
	✓ F	acilities 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. David Droller Corporate Chief Infection Prevention/ Medical Director of Epidemiology
Based on review of the medical records, what is the average number of days for the following:	 Presentation of patient until collection of specimen: 1 Specimen collection until receipt by laboratory: 1

	3. Receipt of specimen by laboratory until smear
	results are provided to healthcare provider:1
	4. Diagnosis until initiation of standard anti-
	tuberculosis treatment: 1
	5. Receipt of specimen by laboratory until culture
	results are provide for healthcare provider: 1
	6. Receipt of drug susceptibility results until
	adjustment of anti-tuberculosis treatment if indicated: 4
	7. Admission of patient to hospital until placement
	in airborne infection isolation (AII): 1
Through what means (e.g., review of TST or BAMT	Review of laboratory results, outbreak
conversion rates, patient medical records, and time analysis)	investigations and other means of surveillance.
are lapses in infection control recognized?	
What mechanisms are in place to correct lapses in infection	Process improvements, outbreak investigation,
control?	literature search, multidisciplinary team work,
	reporting through committee process within the
	facility.
Based on measurement in routine QC (Quality Control)	Yes
exercises, is the infection-control plan being properly	
implemented?	
Is ongoing training and education regarding TB infection-	Yes
control practices provided for HCWs?	

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

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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	*	
Nucleic acid amplification (NAA) testing	*	
Does the laboratory at your health-care setting or the reference laboratory	Yes. The sam	e process is utilized on
used by your health-care setting report AFB smear results for all patients	nights and	weekends as regular
within 24 hours of receipt of specimen? What is the procedure for	business hour	s. Laboratory will page
weekends?	the on cal	l Epidemiologist to
	communicate	e positive AFB results
	outside of no	ormal business hours.

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?

Delivery Room (Caesarean)-15 ACPH

Med Surge / Tele Rooms - 6 ACPH

NICU - 15 ACPH

NICU - 15 ACPH

Emergency Department - 12 ACPH

Operating Rooms / Surgical Services – 20 ACPH

Negative Isolation Rooms – 12 ACPH Bronchoscopy Rooms - 6 ACPH Endoscopy Rooms – 12 ACPH

Cath Labs - 15 ACPH

Interventional Radiology Procedure Room - 15 ACPH

Delivery Room(Caesarean) – 20 ACPH

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

UVGI

✓ 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):

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

Secondary (methods to increase equivalent ACH):

- ✓ Fixed room recirculating units
- ✓ UVGI

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		
Are environmental controls regularly checked and maintained with results recorded in maintenance logs?		Yes
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 Patien		nt is transferred
pressure is not 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-	Yes	
Which HCWs are included in the respiratory	✓ Janitorial staff	
protection program? (Check all that apply)	✓ Maintenance or engineering	ng staff
✓ Physicians	✓ Transportation staff	
✓ Mid-level practitioners (NPs and PAs)	✓ Dietary staff	
✓ Nurses	•	
✓ Administrators		
✓ Laboratory personnel		

Service personnel Are respirators used in this setting for HCWs working with TB patients? If yes, include manufacturer, model, and specific application (e.g., ABC model 1234 for bronchoscopy and DEF model 5678 for routine contact with infectious TB patients). Manufacturer Specific application Model Halvard Health Inc. Routine contact with infectious TB patients N-95 #62355 3M corporation N-95 #1860 & 1860S Routine Contact with Infectious TB patients Is annual respiratory-protection training for HCWs performed by a person with advanced Yes training in respiratory protection? Does your health-care setting provide initial fit testing for HCWs? Yes; On hire by If yes, when is it conducted? employee health Does your health-care setting provide periodic fit testing for HCWs? Yes; yearly If yes, when and how frequently is it conducted? What method of fit testing is used? Describe. Hood/Taste x 1.Fit check: Saccharin or Bitrex fit check. Individual is asked to do normal, deep breathing; bend over; side to side and up/down head movements). Is qualitative fit testing used? Yes Is quantitative fit testing used? (Available) No

9. Reassessment of TB risk

How frequently is the TB risk assessment conducted or updated in the health-care setting?	Yearly
When was the last TB risk assessment conducted?	01/2023
What much lama your identified during the marriage TD riels accessment?	

What problems were identified during the previous TB risk assessment?

1) Male employees who cannot be fit tested with the N95 mask by Employee Health due to facial hair are non-compliant with OSHA requirements for respiratory personal protection as an N95 mask is required to enter airborne precaution room. Nor are they compliant with the EOC Respiratory Protection and PPE policies. Managers are notified and so is the Safety Officer. Alternate patient assignments are necessary. Employees are told they can go to HR and request an ADA accommodation which can only be granted for documented religious and medical reasons.

What actions were taken to address the problems identified during the previous TB risk assessment?

Did the risk classification need to be revised as a result of the last TB risk assessment? 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).