ANNUAL TB RISK ASSESSMENT FMIC-014

Name of Hospital: __MANGUM REGIONAL MEDICAL CENTER

TB Risk Assessment for Calendar Year: 2023

Completed By: Meghan Smith RN, IC

Appendix B. Tuberculosis (TB) risk assessment worksheet

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

Scoring $\sqrt{\text{ or } \mathbf{Y} = \mathbf{Y} \mathbf{es}}$	\mathbf{X} or $\mathbf{N} = \mathbf{No}$	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 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.	Community rate: 18.0 State rate: 1.6 National rate: 2.9 Facility rate: 0.0 Department 1 rate 0.0 Department 2 rate 0.0 Department 3 rate 0.0
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.	No Year No. patients Suspected Confirmed 1 year ago 0 2 years ago 0 5 years ago 0
If no, does your health-care setting have a plan for the triage of patients with suspected or confirmed TB disease?	Yes
Currently, does your nearn-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?	18		
How many patients with TB disease are encountered in the inpatient setting in 1	Previous year: 0		
year? Review laboratory data, infection-control records, and databases	5 years ago: 0		
containing discharge diagnoses.			
Depending on the number of beds and TB patients encountered in 1 year, what	Low risk		
is the risk classification for your inpatient setting? (See Appendix C.)			
Does your health-care setting have a plan for the triage of patients with	Yes		
suspected or confirmed TB disease?			
Outpatient settings			
How many TB patients are evaluated at your outpatient setting in 1 year?	Previous year: 0		
Review laboratory data, infection-control records, and databases containing	5 years ago: 0		
discharge diagnoses.			
Is your health-care setting a TB clinic?	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 the community that the health-care setting serves?	No
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]).	No
Does evidence exist that ongoing or unresolved health-care–associated transmission has occurred in the health-care setting (based on case reports)?	No
Is there a high incidence of immunocompromised patients or HCWs in the health-care setting?	No
Have patients with drug-resistant TB disease been encountered in your health- care setting within the previous 5 years?	No
When was the first time a risk classification was done for your health-care setting?	March 2021
Considering the items above, would your health-care setting need a higher risk classification?	No
Depending on the number of TB patients evaluated in 1 year, what is the risk classification for your outpatient setting? (See Appendix C)	Low risk
Does your health-care setting have a plan for the triage of patients with suspected or confirmed TB disease?	Yes
Nontraditional facility-based settings – N/A	
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 Yes
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	Ves No
confirmed TB disease?	105 110

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	o Janitorial staff
program? (Check all that apply.)	o Maintenance or engineering staff
o Physicians	o Dietary staff
	o Receptionists

o Mid-level practitioners (nurse practitioners [NP]		
and physician's assistants [PA])		
o Nurses		
o Administrators		
o Laboratory workers		
o Respiratory therapists		
o Physical therapists		
0 Contract stall	- 1	Var
is baseline skin testing performed with two-step 151 for HCw	S ?	Yes
Is baseline testing performed with QFT or other BAMT for HC	Ws?	No
How frequently are HCWs tested for <i>M. tuberculosis</i> infection	2	Upon hire and at
		exposure
Are the <i>M. tuberculosis</i> infection test records maintained for H	CWs?	Yes
Where are the <i>M. tuberculosis</i> infection test records for	1. IP Office	e; in a locked cabinet in
HCWs maintained? Who maintains the records?	a locked room.	
	2. IP RN	
If the setting has a serial TB screening program for HCWs to te	st for M. tuberculosi	s infection, what are the
conversion rates for the previous years? [†]		
1 year ago: 0 4 years ago: Dat	a unobtainable	
2 years ago: 0 5 years ago: Data unobtainable		
3 years ago: 0		
Has the test conversion rate for <i>M. tuberculosis</i> infection been	No change	
increasing or decreasing, or has it remained the same over the	0	
previous 5 years? (check one)		
Do any areas of the health-care setting (e.g., waiting rooms or	No	
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</i> .		
<i>tuberculosis</i> infection that exceeds the health-care setting's		
annual average?		
For HCWs who have positive test results for <i>M. tuberculosis</i>	Yes	
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?		

4. TB Infection-Control Program

Does the health-care setting have a written TB infection-control plan?	Yes
Who is responsible for the infection-control program?	Infection
	Preventionist
When was the TB infection-control plan first written?	May 2021
When was the TB infection-control plan last reviewed or updated?	March 2023
Does the written infection-control plan need to be updated based on the timing of	Yes
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	Yes
committee with infection control responsibilities)?	
If yes, which groups are represented on the infection-control	
committee? (Check all that apply.) o Laboratory per	sonnel
o Physicians o Administrator	

control practices provided for HCWs?

o Nurses	o Quality/Risk control (QC)
o Pharmacists	o Others: Dietary, EVS, Plant-ops,
	Respiratory Therapists, Radiology techs
If no, what committee is responsible for infection control in	N/A
the setting?	

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	Meghan Smith RN, IC	
setting? If yes, list the name:		
Based on a review of the medical records, what is the average n	umber of days for the following: No TB	
patients available to review.		
Presentation of patient until collection of specimen		
Specimen collection until receipt by laboratory		
• Receipt of specimen by laboratory until smear results are pro-	ovided to health-care provider	
• Diagnosis until initiation of standard antituberculosis treatme	ent	
Receipt of specimen by laboratory until culture results are pr	ovided to health-care provider	
Receipt of specimen by laboratory until drug-susceptibility results are provided to health are 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	Review of medical records, monitoring	
conversion rates, patient medical records, and time analysis)lab and culture resultsare lapses in infection control recognized?		
What mechanisms are in place to correct lapses in infection Just-in-time education, procedure		
control? review and adjustments if needed.		
Based on measurement in routine QC exercises, is the	Yes	
infection-control plan being properly implemented?		
Is ongoing training and education regarding TB infection-	Yes	

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-		In-house	Sent out
care setting's laboratory or sent out to a reference laboratory?			
Acid-fast bacilli (AFB) smears			X
Culture using liquid media (e.g., Bactec and MB-BacT)			X
Culture using solid media			X
Drug-susceptibility testing			X
Nucleic acid amplification (NAA) testing			X
What is the usual transport time for specimens to reach the	e laboratory for the	following tests?	
AFB smears	< 24 hrs		
Culture using liquid media (e.g., Bactec, MB-BacT)	< 24 hrs		
Culture using solid media	< 24 hrs		
Drug-susceptibility testing	< 24 hrs		
Other (specify)	N/A		
NAA testing	< 24 hrs		
Does the laboratory at your health-care setting or the refer	ence laboratory	No	
used by your health-care setting report AFB smear results	for all patients		
within 24 hours of receipt of specimen? What is the proceed	dure for	Same as during	g weekdays;
weekends?		no changes for	weekends.

7. Environmental Controls

Which environmental controls are in p	lace in your health-care setti	ng? (Check all that appl	y and describe)
E. in an end of the second		Description	
Environmental control		Description Description	
X AII FOOMS	d		
o Local exhaust ventilation (enclosing	devices and exterior devices) N/A	
o General ventilation (e.g., single-pass	system, recirculation system	n.) Single Pass	
o Air-cleaning methods (e.g., high-effi	ciency particulate air [HEPA	AJ N/A	
filtration and ultraviolet germicidal	irradiation [UVGI])		
What are the actual air changes per hou	ur (ACH) and design for vari	ous rooms in the setting	;?
<u>Room</u> : 13	<u>ACH:</u> 14.20	<u>Design:</u> Nega Single-J	ntive Pressure/ nass ventilation
Which of the following local exterior of	r enclosing devices such as	exhaust ventilation device	ces are used in
your health-care setting? (Check all th	at apply) N/A	canadist ventilation devi	ces are asea m
o Laboratory hoods			
o Booths for sputum induction			
o Tents or hoods for enclosing patient	or procedure		
What general ventilation systems are u	sed in your health-care setting	o? (Check all that appl	v)
x Single-nass system	sed in your nearth care settin	ig. (Check all that appl	<i>y)</i>
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? (C	heck all that apply)	
HEPA filtration			
o Fixed room-air recirculation systems			
o Portable room-air recirculation	systems		
<u>UVGI</u>			
o Upper-air irradiation			
o Portable room-air cleaners			
How many All rooms are in the health	-care setting?	AII (2 additional nega	ntive-pressure
	r	ooms: OR 2 and Room	12 with single-
	r	ass ventilation system))
What ventilation methods are used for	All rooms? (Check all that	apply)	
Primary (general ventilation):	X		
x Single-pass heating, ventilating, an	d air conditioning (HVAC)		
o Recirculating HVAC systems			
Secondary (methods to increase equiva	llent ACH): N/A		
o Fixed room recirculating units			
o HEPA filtration			
o UVGI			
o Other (specify)			
Does your health care setting ampley	have access to or collaborat	a with an	No
environmental angineer (a.g. professio	nave access io, or contaborat	viul all	1TU
appropriate expertise (e.g., professional appropriate expertise (e.g., certified in	lustrial hygienist) for consul	ation on design	
specifications, installation maintenance	e. and evaluation of environ	nental controls?	
Are environmental controls regularly c	hecked and maintained with	results recorded in	Yes
maintenance logs?	with maintained with		
Are AII rooms checked daily for negat	ive 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 Per Plant Ops Director to evalua		te and develop
pressure is not negative? plan of action.		_
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	e respiratory	o Janitorial staff		
protection program? (Check all that apply) o Maintenance or engineering sta			aff	
o Physicians		o Dietary staff		
o Mid-level practitioners (NPs and PAs) o Ancillary staff (e.g., office staff,				
o Nurses				
o Administrators				
o Laboratory personnel				
o Contract staff				
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 patier	nts).			
<u>Manufacturer</u>	Model	Specific application		
3M	Aura 1870+	Routine Contact		
<u>3M</u>	8210 +	Routine Contact	1	
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	
If yes, when is it conducted			Upon Hire	
Does your health-care setting provide periodic fit testing for HCWs? Yes			Yes	
If yes, when and how frequently is it conducted?			Annually	
What method of fit testing is use	d? Qualified fit testi	ng by trained and qualified nerson	nel	
what method of fit testing is used		ng by trained and quantied person	nei	
Is qualitative fit testing used?			Yes	
1				

9. Reassessment of TB risk

How frequently is the TB risk assessment conducted or updated in the health-care setting?	Annually or as needed		
When was the last TB risk assessment conducted?	March 2023		
What problems were identified during the previous TB risk assessment? N/A			
1)			
2)			
2)			
5)	· · · · · · · · · · · · · · · · · · ·		
4)			
·			
5)			
What actions were taken to address the problems identified during the previous TB risk assessment? N/A			



* 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).