

















PATIENT CHARACTERISTICS ASSOCIATED WITH INFECTIOUSNESS		
Factor	Description	
Clinical	 Persistent cough > 3 weeks Respiratory tract disease, especially laryngeal disease (highly infectious) Failure to cover cough/sneeze Inadequate/Inappropriate treatment 	
Procedure	Undergoing cough-inducing or aerosol-generating procedure (e.g., bronchoscopy, sputum induction)	
Radiographic and Laboratory	 Cavitation on CXR Positive culture Mtb Postive AFB smear 	
	SPICE	

ENVIRONMENTAL FACTORS - INCREASE				
	IRANSIVIISSION			
Factor	<u>Description</u>			
Concentration of droplet nuclei	The more droplet nuclei in the air, the more probable that Mtb will be transmitted			
Space	Exposure in small, enclosed spaces			
Air Circulation	Recirculation of air containing droplet nuclei			
Air Pressure	Positive air pressure in infected patients room causes droplet nuclei to flow to other areas			
		SPICE		



























RESPIRATORY PROTECTION STANDARD

1910.134(a)(2)

A respirator shall be provided to each employee when such equipment is necessary to protect the health of such employee. The employer shall provide the respirators which are applicable and suitable for the purpose intended. The employer shall be responsible for the establishment and maintenance of a respiratory protection program, which shall include the requirements outlined in paragraph (c) of this section. The program shall cover each employee required by this section to use a respirator.



https://www.cdc.gov/niosh/topics/respirators/default.htm

































TB SCREENING, TESTING AND TREATMENT OF U.S. HEALTH CARE PERSONNEL (CDC RECOMMENDATIONS 2019)

- U.S. healthcare personnel should be screened for TB upon hire (i.e., preplacement)
- TB screening includes a process that includes:
 - A baseline individual TB risk assessment (2019 updated recommendations)
 - TB symptom evaluation
 - A TB test (e.g., TB blood test or a TB skin test) and
 - Additional evaluation for TB diseased as needed



Figure 3.1 Health care worker collecting a blood



Category	2005 Recommendation	2019 Recommendation
Baseline (preplacement) screening and testing	TB screening of all HCP, including a symptom evaluation and test (IGRA or TST) for those without documented prior TB disease or LTBI.	TB screening of all HCP, including a symptom evaluation and test (IGRA or TST) for those without documented prior TB disease or LTBI (unchanged) ; individual TB risk assessment (new) .
Postexposure screening and testing	Symptom evaluation for all HCP when an exposure is recognized. For HCP with a baseline negative TB test and no prior TB disease or LTBI, perform a test (IGRA or TST) when the exposure is identified. If that test is negative, do another test 8–10 weeks after the last exposure.	Symptom evaluation for all HCP when an exposure is recognized. For HCP with a baseline negative TB test and no prior TB disease or LTBI, perform a test (IGRA or TST) when the exposure is identified. If that test is negative, do another test 8–10 weeks after the last exposure (unchanged).
Serial screening and testing for HCP without LTBI	According to health care facility and setting risk assessment. Not recommended for HCP working in low-risk health care settings. Recommended for HCP working in medium-risk health care settings and settings with potential ongoing transmission.	Not routinely recommended (new); can consider for selected HCP groups (unchanged); recommend annual TB education for all HCP (unchanged), including information about TB exposure risks for all HCP (new emphasis).
Evaluation and treatment of positive test	Referral to determine whether LTBI treatment is indicated.	Treatment is encouraged for all HCP with untreated LTBI, unless medically contraindicated (new).







IGRA	TST
Requires one patient visit to conduct the test	Requires at least two patient visits to conduct the tes
Results can be available in 24 hours	Results are available 48 to 72 hours later
Does not cause booster phenomenon	Can cause booster phenomenon
Previous BCG vaccination does not cause false-positive result	Previous BCG vaccination may cause false-positive result





PROMPT TRIAGE Primary risk is patient with undiagnosed/unrecognized TB ▶ Initiate Airborne Infection Isolation (AII) and manage/transfer patients with suspected/confirmed TB TRIAGE Ask about and evaluate for TB AREA Check for signs and symptoms Mask symptomatic patients Separate immunocompromised patients 50

























