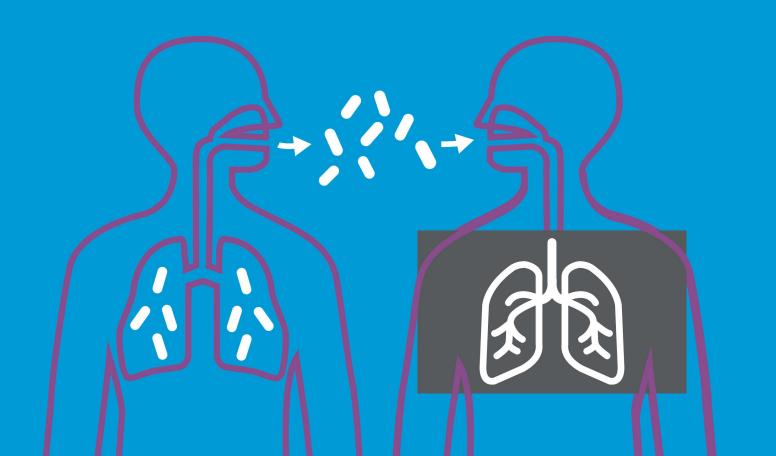
Tuberculosis and Corrections February 7, 2023





Latent TB. Active Concern. Tuberculosis Program

Amanda Khalil Laura Young



http://www.vdh.virginia.gov/tuberculosis/

Outline

- Epi of TB and corrections
- Correctional facilities in Virginia
- TB recommendations in corrections
- Expectations and best practices
- Scenarios
- Resources



Acronyms

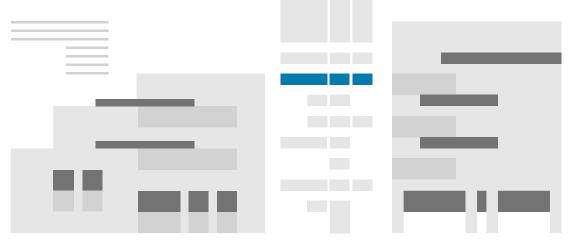
- TB tuberculosis
- TST tuberculin skin test
- IGRA interferon gamma release assay (blood test for TB infection)
- CXR chest x-ray
- LTBI latent TB infection
- LHD local health department



Epi of TB and Corrections

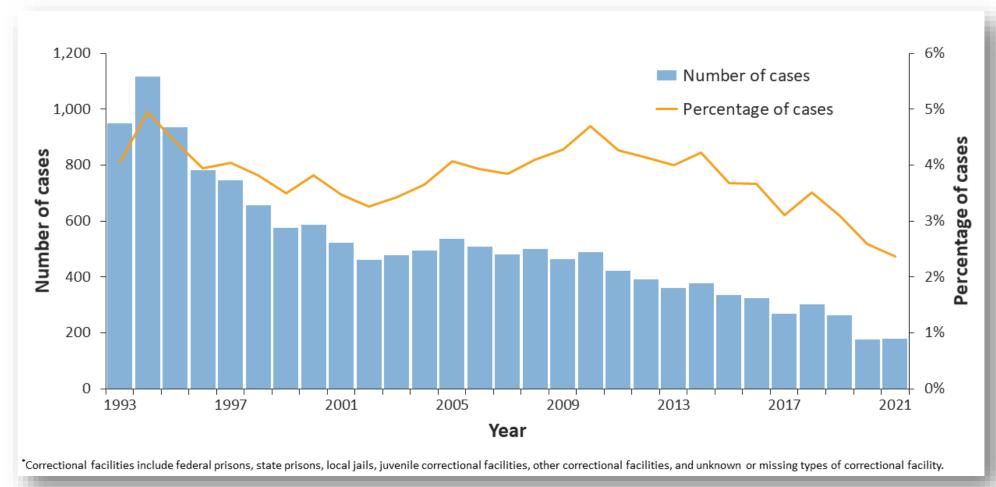


Tuberculosis prevention and care can be particularly challenging in correctional facilities in which persons from diverse backgrounds and communities are housed in close proximity for varying periods.



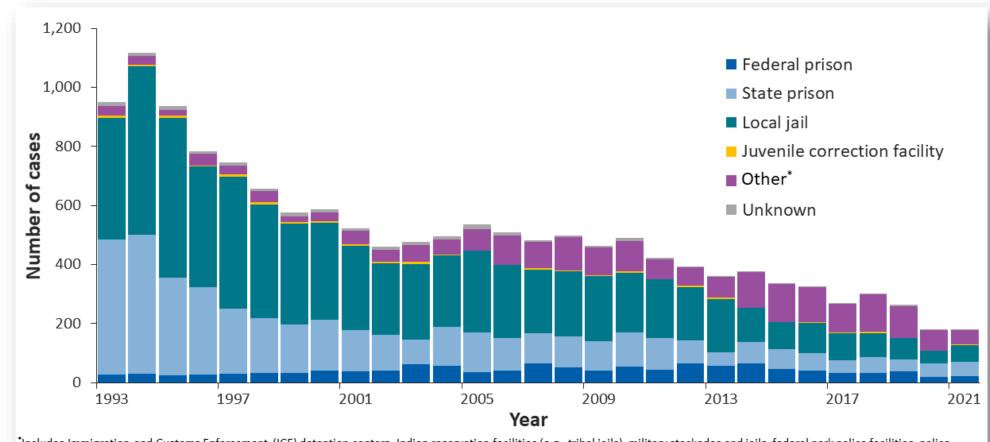


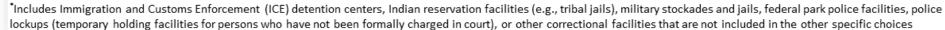
Number and Percentage of Correctional Facility* Residents Aged ≥ 15 Years with TB, United States, 1993-2021





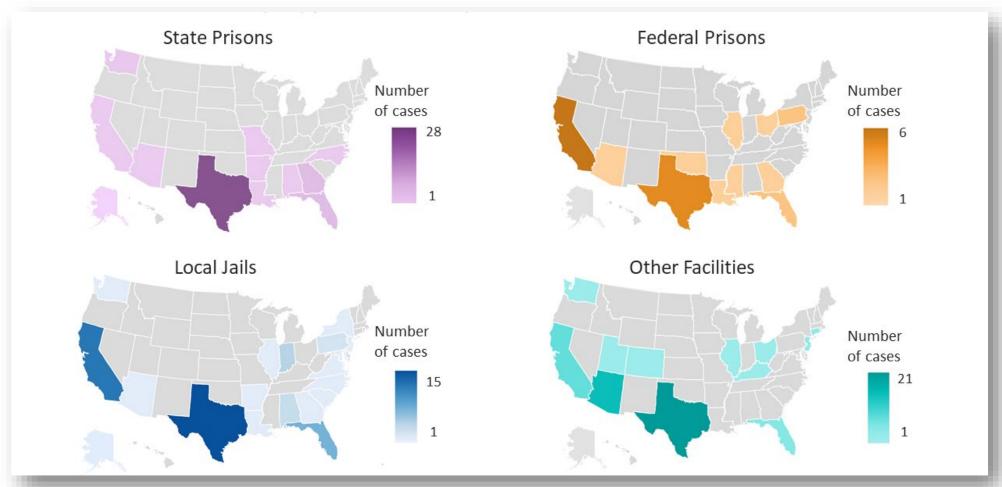
TB Cases Among Correctional Facility Residents Aged ≥ 15 Years by Type of Facility, United States, 1993-2021







TB Cases Among Correctional Facility Residents Aged ≥ 15 Years by Type of Facility, United States, 2021



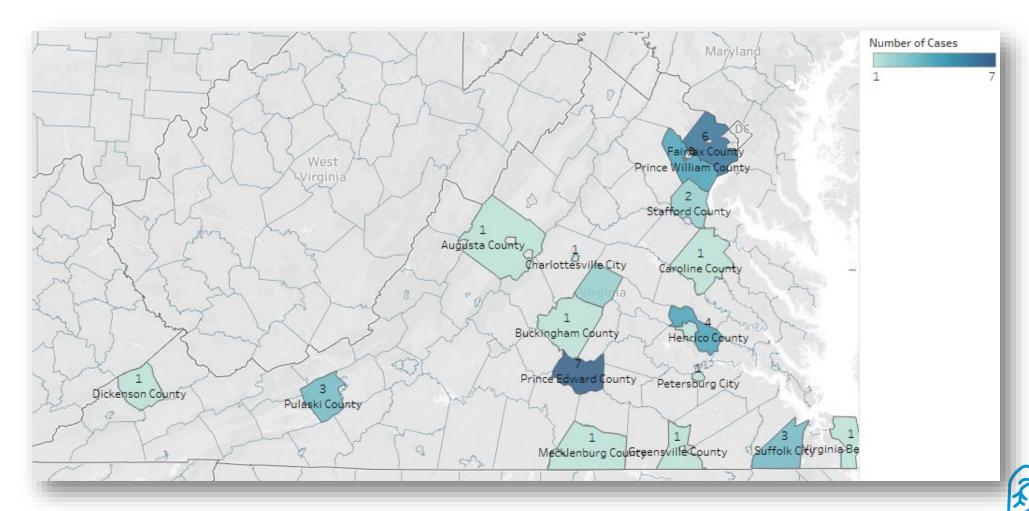


TB Cases Among Correctional Facility Residents Aged ≥ 15 Years, Virginia, 2009-2022

Latent TB. Active Concern.

Tuberculosis Program

VIRGINIA DEPARTMENT OF HEALTH



Correctional Facilities in Virginia



Local and Regional Jails

Local Jails (n=37)

- Serve a particular city or county
- Responsibility of sheriffs and elected officials
- Overseen by Virginia Board of Local and Regional Jails

Regional Jails (n=22)

- Replace or supplement a local jail
- Operated by a superintendent under the authority of a board
- Overseen by Virginia Board of Local and Regional Jails and Virginia Department of Corrections



Population Range: 26-1,930

Average Length of Stay: 17 days





State Prisons

Major institutions (n=27)

Field units (n=8)

Work centers (n=5)

Private prison (n=1)

Secure hospital unit (n=2)

Overseen by Virginia Department of Corrections



Population Range: 100-2,500

Average Length of Stay: 6 years



Federal Prisons

United States Penitentiary – Lee

• Pennington Gap, Virginia

Federal Correctional Complex – Petersburg

Hopewell, VA

Overseen by Federal Bureau of Prisons



Population Range: 1,500-2,000

Average Length of Stay: 5-10 years



Immigration and Customs Enforcement (ICE)

Immigration Centers of America

Farmville, VA

Caroline Detention Facility

Bowling Green, VA

Overseen by United States
Department of Homeland
Security

Population Range: fluctuates (36,000 total in all ICE facilities based on 2018 estimate)

Average Length of Stay: hours, days, weeks, months



Juvenile Justice

Correctional Center (n=1)

Juvenile Detention Centers (n=24)

Overseen by United States
Department of Juvenile Justice

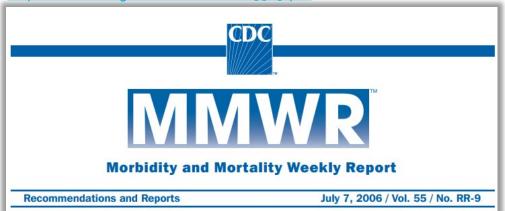
Juvenile Detention Centers operated by localities



Population Range: 3,000 total in the juvenile justice system, many in the community on diversion plans

Average Length of Stay: Variable





Prevention and Control of Tuberculosis in Correctional and Detention Facilities:
Recommendations from CDC

Endorsed by the Advisory Council for the Elimination of Tuberculosis, the National Commission on Correctional Health Care, and the American Correctional Association



AT-A-GLANCE: CDC RECOMMENDATIONS FOR CORRECTIONAL AND DETENTION SETTINGS

Testing, Vaccination, and Treatment for HIV, Viral Hepatitis, TB, and STIs

Recommendations current as of August 10, 2022

TB Recommendations in Corrections



Resources for correctional facilities



Virginia Department of Corrections

Health Services Operating Procedure 720.2 Medical Screening, Classification, and Levels of Care Authority: Directive 720, Health Care Services Effective Date: October 1, 2020 Amended: 12/1/20, 1/1/21, 9/1/21 Supersedes:

Operating Procedure 720.2, May 1, 2018			
Access: ☐ Restricted ☐ Public ☐ Inmate			
ACA/PREA Standards: 5-ACI-2C-11,			
5-ACI-5A-01, 5-ACI-6A-04, 5-ACI-6A-05,			
5-ACI-6A-06, 5-ACI-6A-07, 5-ACI-6A-09,			
5-ACI-6A-18, 5-ACI-6A-21, 5-ACI-6A-22,			
5-ACI-6A-24, 5-ACI-6A-25, 5-ACI-6A-41,			
5-ACI-6C-05, 5-ACI-6C-06, 5-ACI-6C-11,			
5-ACI-6D-06, 5-ACI-6E-02, 5-ACI-6E-03,			
5-ACI-6E-04; 4-4142, 4-4285, 4-4347, 4-4348,			
4-4349, 4-4350, 4-4352, 4-4359, 4-4362, 4-4363,			
4-4364, 4-4365, 4-4376, 4-4398, 4-4399,			
4-4403-1, 4-4414, 4-4417, 4-4418, 4-4419;			
4-ACRS-4C-06, 4-ACRS-4C-07, 4-ACRS-6A-04-2;			
2-CO-4E-01; §115.15 [e], §115.61 [c], §115.215 [e],			
§115.261 [c]			

Content Owner:	Trey Fuller Assistant Health Services Director **Documentation on File**		8/26/20
		Signature	Date
Reviewer:	Steve Herrick Health Services Director	Signature Copy on File	9/17/20
		Signature	Date
Signatory:	Joseph W. Walters Deputy Director for Administration	Signature Copy on File	9/21/20
		Signature	Date

REVIEW

The Content Owner will review this operating procedure annually and re-write it no later than three years after the effective date.

The content owner reviewed this operating procedure in November 2021 and determined that no changes are needed.

The content owner reviewed this operating procedure in October 2022 and necessary changes are being drafted. COMPLIANCE

This operating procedure applies to all units operated by the Virginia Department of Corrections (DOC). Practices and procedures must comply with applicable State and Federal laws and regulations, ACA standards, PREA standards, and DOC directives and operating procedures.

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Federal Bureau of Prisons
Clinical Guidance

FEBRUARY 2020

Clinical guidance is made available to the public for informational purposes only. The Federal Bureau of Prisons (FBOP) does not warrant these guidelines for any other purpose, and assumes no responsibility for any injury or damage resulting from the reliance thereof. Proper medical practice necessitates that all cases are evaluated on an individual basis and that treatment decisions are patient-specific. Consult the FBOP Health Management Resources Web page to determine the date of the most recent update to this document: http://www.bop.gov/resources/health_care_mngmt_isp



Key principle

Early identification and successful treatment of persons with TB disease is the most effective means of preventing disease transmission

All incoming persons, regardless of facility size or type should be immediately:

- screened for symptoms of pulmonary TB
- observed for presence of a cough or evidence of significant weight loss



TB screening in correctional facilities

Based on:

- Type of facility
- Prevalence of TB infection & disease in the facility
- Prevalence of TB in the residents' communities
- Prevalence of other risk factors for TB (e.g., HIV)
- Average length of stay
- Results of facility risk assessment (next slide)



Annual facility risk assessment

- Administrative Controls
- Environmental Controls
- Respiratory-Protection Controls

Minimal risk

- No infectious TB in facility in last year
- Does not house substantial numbers of residents
 - with TB risk factors (HIV, injection drug use)
 - from areas of the world with high rates of TB
- Employees are not otherwise at risk of TB

Nonminimal risk

 If all criteria of minimal risk not met, the facility has nonminimal risk



Actions at intake

Minimal Risk Facilities

- Symptom screen
- Risk assessment
- Further testing if any TB risks identified. TST/IGRA or CXR.

Nonminimal Risk Facilities

- Symptom screen
- TST/IGRA or CXR within 7 days

Tuberculosis (TB) and Latent Tuberculosis Infection (LTBI):

Screening

- All persons should be immediately screened for symptoms of pulmonary TB⁴
- In facilities with nonminimal TB risk⁵, all persons should be further screened with a tuberculin skin test (TST), an interferon gamma release assay (IGRA) or a chest radiograph within 7 days of arrival
- In facilities with minimal TB risk⁵, persons who have one or more clinical condition or other factor that increases their risk for infection or the risk for progressing to TB disease should be further screened with a TST, IGRA, or a chest radiograph within 7 days of arrival



Actions during period of residence

Nonminimal Risk Facilities

- Hx of negative TB test: annual TB testing
- Hx of positive TB test: annual symptom screen

Screening and Testing

TB and LTBI:

- Persons serving long-term sentences who have a history of a negative TB test result should have follow-up testing annually at facilities with nonminimal TB risk⁵
- Persons serving long-term sentences who have a history of a positive TB test result should be screened for symptoms of TB disease annually at facilities with nonminimal TB risk⁵
- Any person with an exposure to a person with infectious TB should receive a test for TB infection if no history of a positive TB test result, or symptom screening for TB disease if history of a positive TB test result



Staff Screening and Testing: Upon Hire

All Facilities

- Symptom screen and risk assessment at time of hire/prior to beginning work.
- Baseline test for infection if no documentation of a previous positive result.
 - IGRA or two-step TST
 - Can use documented result in prior 12 months if available and no new risk
- CXR and medical evaluation if test is positive



Staff Screening and Testing: Annually

All Facilities

- Hx of negative TB test: annual TB testing
- Hx of positive TB test: annual screening for symptoms of TB disease



Screening and Testing of Non-Residents and Non-Staff Members

- The facility should consider others who visit the facility often, such as volunteers and other service providers.
- Screening and testing activities should follow the same process as for employees.



Expectations and Best Practices



Clients receiving TB treatment



12VAC5-90-225. Additional data to be reported related to persons with active tuberculosis disease (confirmed or suspected)

- Initial report
- Secondary report
- Subsequent reports
- Written treatment plan
- Treatment plan submitted to LHD director/designee
 - Started
 - Modified
 - Prior to discharge or transfer

Statutory Authority

§ 32.1-35 of the Code of Virginia



Needed actions

Active TB

- Visit facility meet client if possible
- Offer to collect sputum/ensure collection
- Provide guidance on case management, lab interpretation
- Receive monthly update/assessment
- Receive monthly medication administration record
- Continuity of care if discharged

LTBI

- Confirm reported to Health Department
- Continuity of care if discharged on treatment



Contact Investigations



LHD involvement

- Get involved as soon as possible
 - Index patient medical history review
 - Interview index patient
 - Define infectious period
 - Bed tracing/other activity tracing during infectious period
 - Facility tour
 - Create linelist of contacts and prioritize
 - Testing plan
 - First round testing
 - Second round testing
 - Test choice
 - Expansion if needed



APPENDIX 8. TUBERCULOSIS CONTACT INVESTIGATION - CHECKLIST

After identification of a TB case or suspected case, the inmate should be immediately isolated, medically evaluated, and (if appropriate) treated.

- The case should be immediately reported to the local or state health department.
- The contact investigation steps outlined below may overlap in time.
- · Close contacts should be evaluated promptly.

$\sqrt{}$	Date	Task				
		Notify correctional management officials.				
		2. Perform clinical assessment of the TB case (including retrospective chart review): • Previous exposure to TB • TB risk factors (Appendix 1) • History of TB symptoms (cough, fever, night sweats, etc.). Weight history • Chest radiographs • TST/IGRA • Bacteriology (AFB smear/culture/susceptibilities), nucleic acid amplification tests • HIV status • Other medical conditions				
		3. Interview case. For AFB smear-positive or cavitary cases, interview within 1 day; for all others, interview within 3 days. Re-interview in 7–14 days. Interview for: TB symptom history/onset of symptoms and close contacts in correctional facility and community (if relevant). See Appendix 9 , TB Contact Investigation Interview.				
		4. Determine the infectious period to determine how far back in time to go for investigation of TB contacts. • Generally: 12 weeks before symptom onset or first positive findings consistent with TB disease, whichever is longer. • Exception: If no TB symptoms, and AFB smear negative and non-cavitary, then 4 weeks prior to suspected TB.				
		Convene contact investigation team (include institution & regional health services & custody staff). Identify team leader; identify roles and responsibilities of team members. Develop plan for managing contact investigation data. Develop investigational priorities.				
		6. Update correctional management officials (including the Warden, Regional staff, and Central Office staff) regarding contact investigation strategy.				
		7. Obtain index case traffic history (housing/work/school locations during infectious period). SENTRY pp37 (Housing = QTR, Education = EDU, Work = WRK).				
		8. Tour the exposure sites (where case frequented during infectious period) with the facility HVAC (heating/ventilation/air conditioning) personnel and assess: • Number of inmates housed together • General size of airspace • Housing arrangements (cells/dorms) • Availability of data on inmates housed at same time • Ventilation: HVAC system (Recirculated air? Where does air move?) • Pattern of daily inmate movement (cafeteria, general areas)				
	Appendix 8, TB Contact Investigation - Checklist (page 1 of 2)					

APPENDIX 9. TB CONTACT INVESTIGATION INTERVIEW

Purpose: The goal of interviewing the index case in a contact investigation is to gain the information needed for:

- (1) establishing the infectious period; and
- (2) identifying potential contacts.

Overview

- It is critically important that time be spent establishing trust with the inmate before conducting the interview, and
 making sure that the inmate understands the purpose of the contact investigation. Use an interpreter if needed.
- The following questions should be used to guide the contact investigation interview. Depending on the inmate's responses, additional questions may be asked as follow-up on their answers.
- The inmate should be re-interviewed in 1–2 weeks to gain additional information and validate the answers.

TB Patient Name:R		Registra	ition #:	Facility Intake Date:		
terviewer N	Name:		Inte	rview Date:		
1. Review the TB diagnosis with the inmate:						
☐ Asse	\square Assess inmate's knowledge of the condition.					
	$\hfill\square$ Describe TB, how it is diagnosed and treated, and the treatment plan.					
	☐ Describe how TB is transmitted (airborne).					
☐ Discuss the need to identify potentially exposed contacts.						
. Ask abo	out the inmate's TE	history:				
		h a diagnosis of TB?	'ES □ No. IF YE	ES, where and when?		
•	ŕ	· ·		•		
Have yo	ou ever had a positiv	e TB skin test? ☐ YES ☐	No. IF YES, wh	ere and when?		
	Have you ever been diagnosed with or treated for TB? ☐ YES ☐ No. IF YES, where and when?					
. Have yo	ou ever been diagno	sed with or treated for TB?	☐ YES ☐ No.	IF YES, where and when?		
:. Have yo	ou ever been diagno	sed with or treated for TB?	☐ YES ☐ No.	IF YES, where and when?		
Have yo	ou ever been diagno	sed with or treated for TB?	☐ YES ☐ No.	IF YES, where and when?		
			☐ YES ☐ No.	IF YES, where and when?		
3. Ask abo	out the inmate's ot	ner medical history:	□YES □ No.	IF YES, where and when?		
3. Ask abo		ner medical history:	☐ YES ☐ No.	IF YES, where and when?		
3. Ask abo	out the inmate's ot	ner medical history:	☐ YES ☐ No.	IF YES, where and when?		
B. Ask abo	out the inmate's ot her medical conditio	ner medical history: ns do you have?	□ YES □ No.	IF YES, where and when?		
B. Ask abo What oth	out the inmate's ot her medical conditio out the inmate's his	ner medical history:		IF YES, where and when?		
B. Ask abo	out the inmate's ot her medical conditio out the inmate's his	ner medical history: ns do you have? story of TB symptoms:				
B. Ask abo What oth	out the inmate's ot her medical conditio out the inmate's his o Have you had any	ner medical history: ns do you have? story of TB symptoms: of the following symptoms?				
3. Ask abo	out the inmate's ot her medical condition out the inmate's his Have you had any Cough?	ner medical history: ns do you have? story of TB symptoms: of the following symptoms?				
3. Ask abo	out the inmate's ot her medical condition out the inmate's his O Have you had any Cough? Coughing up blo	ner medical history: ns do you have? story of TB symptoms: of the following symptoms?				
3. Ask abo	out the inmate's ot her medical condition out the inmate's his O Have you had any Cough? Coughing up blo Fever?	ner medical history: ns do you have? story of TB symptoms: of the following symptoms?				
B. Ask abo What oth	but the inmate's other medical condition but the inmate's his of the inmate's other inmate's his of the inmate's his of	ner medical history: ns do you have? story of TB symptoms: of the following symptoms? od?		have you had them? When did they start		
B. Ask abo What oth	but the inmate's other medical condition but the inmate's his of the inmate's out the inmate's his of the inmate	ner medical history: ns do you have? story of TB symptoms: of the following symptoms? od?	IF X, how long I	have you had them? When did they start		
B. Ask abo	but the inmate's other medical condition but the inmate's his of the inmate's out the inmate's his of the inmate	ner medical history: ns do you have? story of TB symptoms: of the following symptoms? od?	IF X, how long I	have you had them? When did they start		

TUBERCULOSIS

Federal Bureau of Prisons Clinical Guidance

FEBRUARY 2020

https://www.bop.gov/resource s/pdfs/TB_CPG.pdf



Reporting



Reporting

- Facilities should report to the LHD by phone if they identify a possible active TB case.
- Facility medical teams should <u>report LTBI</u> in staff and residents if newly identified



Scenarios



Contact investigation in a regional jail

Case 1 - Early 2022

- Pulmonary TB
 - Reported negative TST (8mm) & CXR from correctional facility outside of VA
 - Incidental finding during hospitalization for other medical concerns
 - Cavitary lesion
 - Only 1 positive sputum smear (1+)
- Cl initiated
 - Facility provided list of 24 contacts
 - Testing done by facility
 - No transmission reported

Late 2022 – Genetic testing reveals that two TB cases match!

Case 2 – Mid/late 2022

- Extrapulmonary TB
 - Significant weight loss
- No CI

Late 2022/Early 2023

- Cluster investigation
 - Cases overlapped at same facility during Case 1's infectious period
 - Case 2 not listed as a contact on initial facility list, but determined they were housed together
 - CI for case 1 expanded



Contact investigation in a regional jail

• What can we learn from this?



Case in a local and regional jail

- Pulmonary TB
 - Sputum smear positive
 - Abnormal CXR
 - Weight loss
- Transfer from local jail to a regional jail with a negative pressure room

- Sputum collection continued at the regional jail to monitor for infectiousness
- Jail medical team ordered PCR testing on sputum specimens to monitor for infectiousness

• PCR testing is not helpful in determining infectiousness



Case in a local and regional jail

• What can we learn from this?

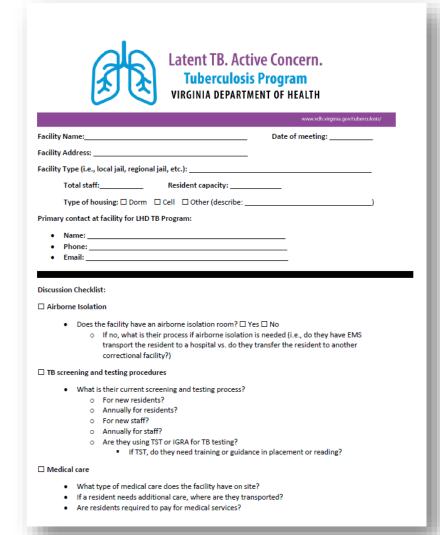


Resources



Facility Type	General/Oversight	Facility Population	Length of Stay
Local jails (n=37)	 Serve a particular city or county Responsibility of sheriffs & elected officials VA Board of Local and Regional Jails and VADOC 		
Regional jails (n=22)	 Replace or supplement a local jail Operated by a superintendent under the authority of a board VA Board of Local and Regional Jails and VADOC 	Range from 26 - 1,930	Average of 17 days
 State prisons Major institutions (n=27) Field units (n=8) Work centers (n=5) Private prison (n=1) Secure hospital unit (n=2) 	VADOC	Range from 100 – 2,500	Average of 6 years
Federal prison (n=2)	Federal Bureau of Prisons	1,500-2,000	Average of 5-10 years
Immigration and Customs Enforcement facility (n=2)	U.S. Department of Homeland Security	36,000 total in ICE facilities (2018 estimate)	Hours, days, weeks, months
 Juvenile Justice Correctional center (n=1) Juvenile detention centers (n=24) 	Department of Juvenile Justice JDCs – operated by localities	3,000 total in the juvenile justice system, many in the community on diversion plans	

LHD TB Program Correctional Facility Checklist





www.vdh.virginia.gov/tuberculo

☐ Reporting

- · Review that confirmed and presumptive TB are rapidly reportable and how and when to report.
 - Emphasize that a resident on TB medication for active disease should be reported immediately to the LHD.
- Review that LTBI is reportable and ask if and/or how they currently report LTBI diagnosed in residents or staff.
- ☐ Case Management

Active TB

- Review the heath department's role in TB case management for client with active TB, even if
 a patient is being co-managed by the facility or a community provider.
 - Medical isolation
 - Sputum collection
 - Directly observed therapy
- Discuss continuity of care and release planning for residents on treatment for active disease.

LTE

- Does the facility encourage/facilitate LTBI treatment for residents and staff?
- · Review options if the LHD can assist with LTBI treatment management

□ Contact Investigation

 Review the health department's role in TB contact investigations and the reporting requirements around contact investigations.

□ Additional Topics

 Request for updates if there is a staffing change at the facility that would impact communication

Comments/Notes:

Tool to help guide an agenda and conversation during an annual meeting with correctional facilities in your jurisdiction.



Locate a resident

- Virginia Department of Corrections
 - Use the VADOC locator: <u>Offender Locator Virginia Department of</u> Corrections
- Federal Prison
 - Use the Bureau of Prisons locator: Inmate Locator (bop.gov)
- Ice Facility
 - Use the ICE locator: Online Detainee Locator System (ice.gov)



Thank you!

- Questions??
- Please complete evaluation that will appear when you exit the meeting.

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