

MDPH Tuesday Infectious Disease Webinar Series

Tuberculosis for Local Boards of Health

February 27, 2024

Staff from
Division of Global Populations and Infectious Disease Prevention (and friends)



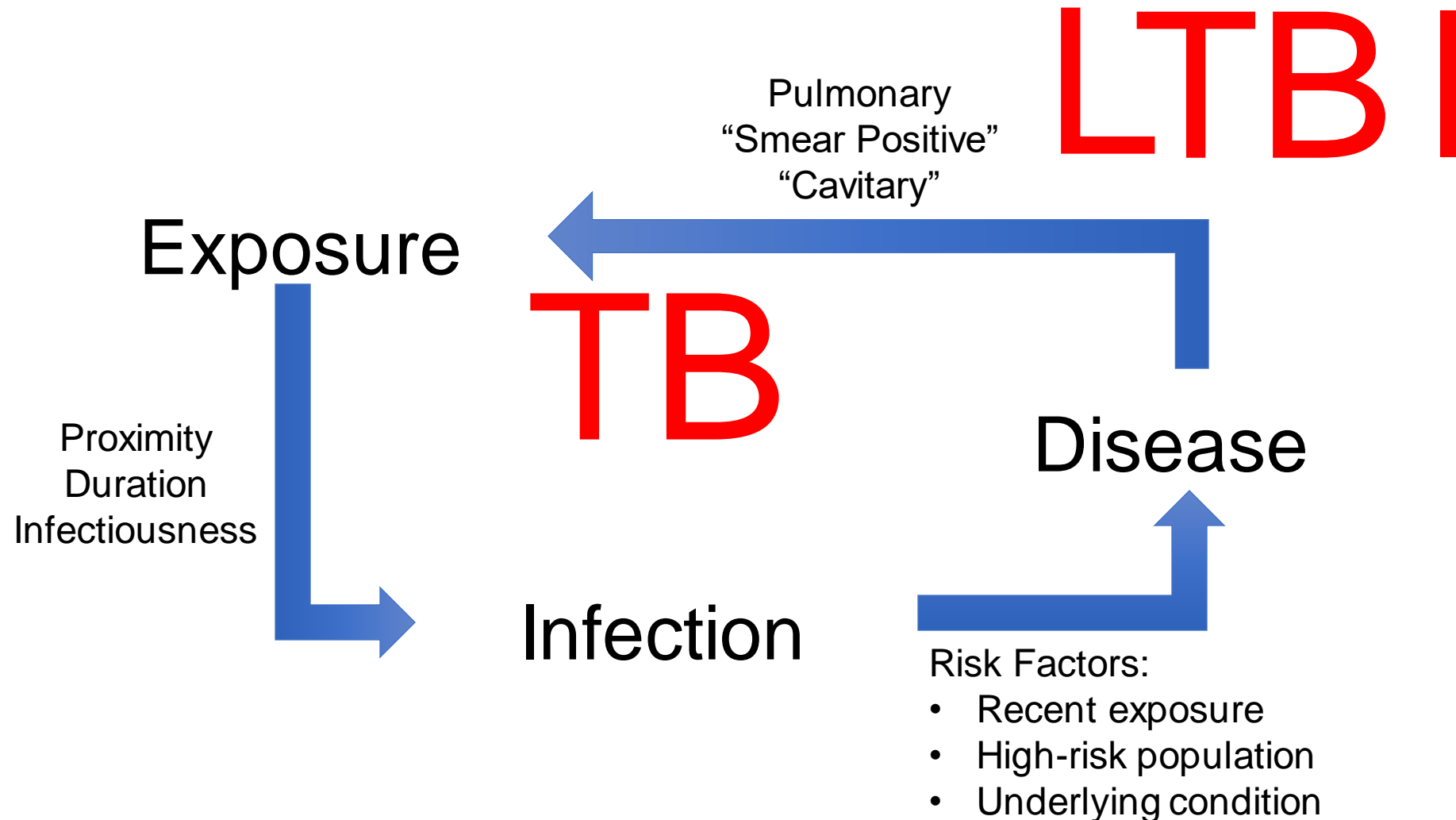
TB Background

Mycobacterial Disease

TUBERCULOSIS

Lungs Pulmonary
Bone Lymph system
CNS and Brain
Pleural Spaces “Infectious” Blood
Eyes Reproductive system

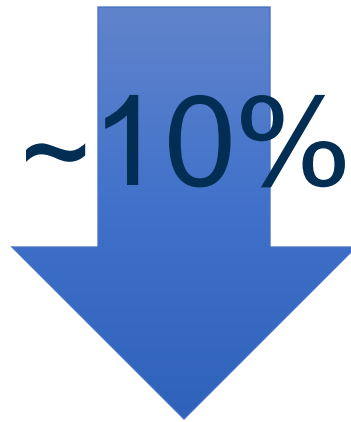
It's a continuum



I've been exposed!

“contact” to someone “infectious”

Could be any time during a person's life



I've been infected!

TB Bacteria take up residence in body
Immune response sufficient to maintain equilibrium

No symptoms Chest radiology is *normal*

Not Infectious!

Tests available

Treatment available



~5 -10% of persons
lifetime

I've got TB disease!

Immune response insufficient to contain bacteria

Cough, night
sweats, fever,
fatigue, weight loss

Chest radiology is
often *abnormal*

Infectious! *

Tests available

Treatment available

Tuberculosis and MAVEN

Also a Continuum in MAVEN

TB Disease and TB infection (LTBI) are the same EVENT in MAVEN (Tuberculosis)

They are differentiated by a disease state variable, which will tell you where they are in the continuum.

The screenshot displays the MAVEN system interface for a Tuberculosis notification. On the left, a 'Notifications' sidebar lists 'Disease State' (1), 'Event/Status/Date/Type Notifier' (3), and 'Event Status: Suspect'. The main panel shows details for '01. Administrative - Sue Maiden - Tuberculosis'. A red box highlights the 'Disease state' dropdown menu, which is set to 'TB Disease'. Another red box highlights the 'Immediate Event Notification Sent Date/Time' field. Below these, the 'Disease classification status' dropdown is set to 'Suspect'. The interface includes a 'Training Site' label and a 'Train' button.

Notifications
Disease State 1
Disease State: TB Disease
Event/Status/Date/Type Notifier 3
Event Status: Suspect

01. Administrative - Sue Maiden - Tuberculosis

Disease state

TB Disease

Immediate Event Notification Sent Date/Time

Disease classification status *

Suspect

Training Site Train

Summary of Massachusetts TB Regulations and Laws

- 105 CMR 300: TB infection and disease are reportable
 - Laboratories: Report positive NAAT or culture. Electronic Laboratory Reporting (ELR) facilitates timely reporting to DPH (but not all labs are on ELR)
 - Healthcare providers: Report suspected active TB and confirmed active TB cases directly to DPH (including extra-pulmonary TB)
- 105 CMR 365: Standards of management of TB outside hospitals
 - 365.200: Case management
 - 365.600: Discharge planning from hospital into out-patient setting
- MGL Chapter 111 Section 94A-C: Compulsory hospitalization of person with infectious TB

TB suspect/case notification

New Suspect Tuberculosis case in MAVEN.



MavenHelp (DPH) <mavenhelp@r

To ● Hippchen, Anna C (DPH)



Fri 3/31

Event 129220468 - suspected Tuberculosis for TB_DISEASE. Access event at <https://sso.hhs.state.ma.us/vgportal/login> Please coordinate follow-up with MDPH. If this link does not work copy and paste to your Browser!

Immediate Notifications

Workflow Queue



TB suspect/case notification not acknowledged

Other TB Workflows

Online LBOH TB Notifications	
Workflow Queue	
☆	LBOH TB Labs for review
☆	LBOH LTBI Priority Follow-Up
☆	LBOH TB Class A/B Worksheet Complete
☆	LBOH TB Needs final review
☆	LBOH TB Outreach requested and not assigned

New TB Labs, can be cleared by bulk action

Clears once completed TB worksheet is received and processed

Step 5 in the Admin package

High Priority Latent TB Infection (LTBI) workflow

- **Persons who are close contacts to someone with active TB disease**
 - Testing, referrals may be needed, in collaboration with DPH
- **Persons arriving with a Class A/B notification**
 - LBOH provides case management including making contact, recommending next steps, referral, monthly phone calls for treatment adherence support
- **Refugees**
 - First steps are taken by DPH Direct Services Team and refugee health assessment provider
 - LTBI treatment adherence support by LBOH is very helpful
- **Children**
 - Prioritize < age 5, call provider to ensure there is a referral for X-ray and appropriate medical evaluation, DOPT support may be needed
 - Age 5-17: if you have time call provider to confirm there is a referral for X-ray and care

Contacts

Identified Contacts living in your Jurisdiction (whether from your own tracing efforts or others!) must be

- Tested (TST, Quest referral, or PCP)
- Referred to Clinic if positive (or evaluated by PCP)
- Hopefully treated, with some adherence support
- Process recorded in MAVEN

Epidemiologist Support

- Contact investigations
 - Work with Team EPI to Identify Exposure sites, infectious periods and identify exposed individuals
 - Epi's can make quest-lab orders for IGRA testing identified contacts and assist with finding TB clinic appointments
 - Can help facilitate contact testing events at sites where there are many potentially exposed individuals in the same place
- Surveillance
 - Manages data related to TB cases including requesting additional details for required data elements

New Arrivals with Class A/B notification

- CDC provides direction and technical assistance to overseas panel sites for medical screening of applicants for permanent residence in the US, including refugees
- Medical screening includes TB assessment
- Outcome of the screening determines the classification
 - Class A – Active TB, travel is deferred until after treatment completion
 - Class B1 – Persons (usually adults) with abnormal CXRs, but negative sputum AFB smears and mycobacterial cultures
 - Class B2 – Children with positive TSTs/IGRAs and normal CXRs

Responsibilities for Class A/B arrivals

- Identify and contact arrival
- Facilitate testing
- Refer to TB clinic
- If treatment is recommended, provide adherence support and education
- Coordinate with Direct Services Team for outreach support
- Cooperate with clinic and DPH to fill out the Class B worksheet attached to MAVEN event
- **See Webinar in MAVEN Help for additional details**

Children with TB infection

- Children with TB infection need extra support
- Possible exposure window is smaller, amount of time to possibly develop disease is longer

Responsibilities/Requests

- Do TB education with family
- Encourage preventative treatment
- Offer adherence support (text messages, appointment reminders etc.)

MAVEN and Data Resources

Global Populations and Refugee Resources

Class A/B UPDATED

TB DOT

General Information

Presentations

Overview of Tuberculosis for LBOHs NEW

Tip Sheets

FAQ_TB_Workflows_02.01.2023 NEW

LBOH TB Reports Tip Sheet_1-31-23 NEW

March 2017 - New TB Model Tip Sheet

New arrivals

Maven Help Gl

Tuberculosis

Tuberculosis (TB) is caused by bacteria (*Mycobacterium tuberculosis*) that most often affect the lungs. TB can be cured. TB can be prevented.

Here you can find information about TB disease (the condition when a person is sick with TB) and about latent TB infection (the condition when a person has TB germs in their body but is not sick at this time).



General MA TB program website


www.mass.gov/Tuberculosis

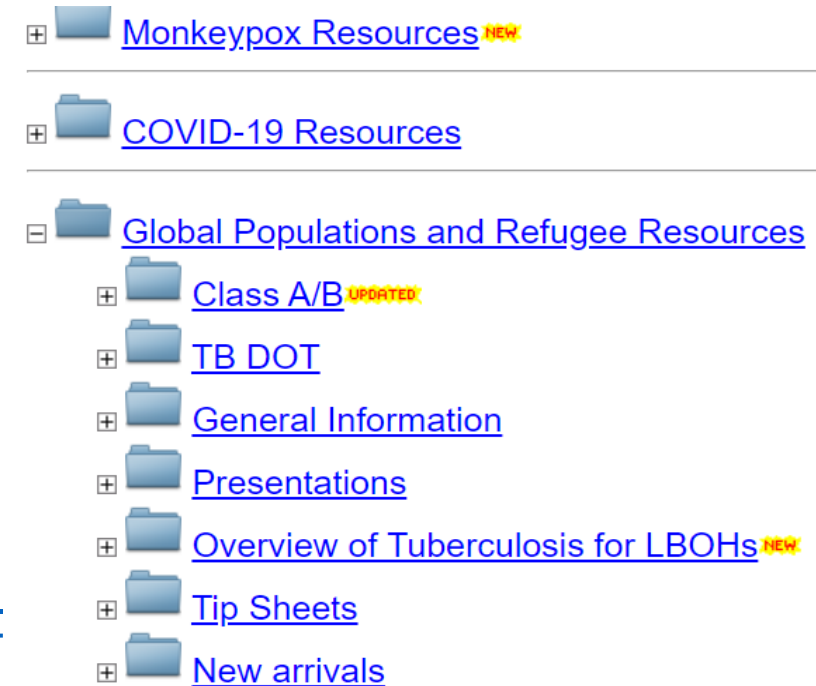
Lots of information for public and medical professionals as well as data and statistics

Tuberculosis Reports Tip Sheet for LBOH Users

<u>Desired Data</u>	<u>Report Name</u>	<u>How to Run Report</u>	<u>Notes / Considerations</u>
TB Disease case total with ability to extract complete question packages	DGP Event Information Extract by Disease	From the MAVEN splash screen, click on "Reports." For category value, select "Custom Reports." Select "DGP Event Information Extract by Disease." Select / input desired values for report parameters. Note that you should select "Tuberculosis" for the disease value. For disease state, select "TB Disease."	Allows for selection of entire question packages (please restrict question packages to only those that you need). Users should run this report instead of the LBOH Event Information Extract by Disease report.
TB Infection case total with ability to extract complete question packages	DGP Event Information Extract by Disease	Follow the steps above but select "TB Infection" instead of "TB Disease" for the disease state value.	Allows for selection of entire question packages (please restrict question packages to only those that you need). Users should run this report instead of the LBOH Event Information Extract by Disease report.
TB Disease and TB Infection aggregate case total by classification and jurisdiction(s) for up to a 30-day period	LBOH Count – Events Per Disease and Classification in Jurisdiction	From the MAVEN splash screen, click on "Reports." For category value, select "Custom Reports." Select "LBOH Count – Events Per Disease and Classification in Jurisdiction." Select / input desired values for report parameters.	Do not run this report for a period greater than 30 days. LBOH can select multiple jurisdictions if they have access to those jurisdictions. MAVEN superusers cannot run this report unless they have specific access to the selected jurisdictions.
TB Disease and TB Infection aggregate case total by classification and jurisdiction(s) for greater than a 30-day period	LBOH Basic Line List	From the MAVEN splash screen, click on "Reports." For category value, select "Custom Reports." Select "LBOH Basic Line List." Select / input desired values for report parameters.	LBOH can select multiple jurisdictions if they have access to those jurisdictions. MAVEN superusers cannot run this report unless they have specific access to the selected jurisdictions.

Division's TB program resources

- Technical assistance and consultation
 - Contact investigation support with TST or IGRA testing
 - Available throughout course of treatment
 - From early diagnosis to completion of therapy
- Community Health Worker support
- MAVEN Help Section 
- Health education materials for patients
 - <https://www.mass.gov/lists/tb-information-for-your-patients-in-english-and-other-languages>



Additional, external resources

- TB Centers of Excellence for Training, Education, and Medical Consultation
 - Rutgers Global TB Center: <https://globaltb.njms.rutgers.edu/>
- CDC – Division of Tuberculosis Elimination
 - <https://www.cdc.gov/tb/default.htm>
 - Continuing education modules, including case management
- CDC's Health education materials for patients
 - https://www.cdc.gov/tb/education/patient_edmaterials.htm
- Stop TB
 - <https://www.stoptb.org/>
 - Words, language matters: <https://www.stoptb.org/words-matter-language-guide>

Questions ?
