

Report of Verified Case of Tuberculosis (RVCT) Training

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Learning Objectives

- Understand the Report of Verified Case of Tuberculosis (RVCT) data variables captured through the Virginia Electronic Disease Surveillance System (VEDSS).
- Learn how to enter data, update, and manage tuberculosis investigations in VEDSS.
- Understand common data entry errors with RVCT data in VEDSS.

Overview of the RVCT

- RVCT must be completed for all verified cases of TB
- RVCT must be completed for burden cases such as transfer TB cases that have been counted by another area.
 - United States reporting areas include the 50 United States, the District of Columbia, New York City, Puerto Rico, American Samoa, Guam, Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands, and three freely associated states: Federated States of Micronesia, Republic of the Marshall Islands, and Republic of Palau).
- RVCT is used in Virginia to capture initial data for presumptive TB cases which are ruled out to capture TB burden.

Additional Resources

- CDC has an extensive instruction manual for the 2020 RVCT which offers detail and additional examples.
- It is available on VDH's website [here](#).
- Please reach out to laura.r.young@vdh.virginia.gov with questions and additional training needs/requests, or email tuberculosis@vdh.virginia.gov

2020 Report of Verified Case of
Tuberculosis (RVCT)
Instruction Manual
August 2021

Data entry notes

- Partial dates:
 - If the day is unknown, enter the first day of the know month as the date (e.g., 07/01/2022).
 - If the month and day are unknown, enter the first day of the know year as the date (e.g., 01/01/2022).
- Pending vs. unknown information
 - Leave items blank while information is pending.
 - Select “unknown” if data is truly unknown and will not ever be available.
- If a test is not performed
 - Indicate “not done” as the result instead of leaving the item blank

Data entry notes

- Repeating blocks:
 - When entering data in a repeating block, you must click “add” to save the data, otherwise you will get an error message when you try to save the investigation. You will then see the data displayed in the row.

[-] Lab Interpretive Repeating Block

Test Type	Specimen Source Site	Date Collected or Placed	Date Reported or Read	Test Result Qualitative	Test Result Quantitative	Quantitative Test Result Units
No Data has been entered.						
Test Type: Hemoglobin A1c Other Test Type: <input type="text"/> Specimen Source Site: Blood Other Specimen Source Site: <input type="text"/> Date Collected or Placed: 10/01/2023 Date Reported or Read: 10/01/2023 Test Result (Qualitative): <input type="text"/> Test Result (Quantitative): 8.5 Quantitative Test Result Units: percent						
						Add





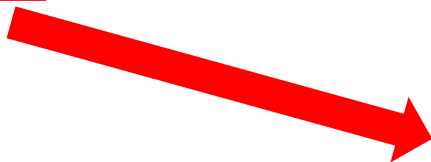
[-] Lab Interpretive Repeating Block

Test Type	Specimen Source Site	Date Collected or Placed	Date Reported or Read	Test Result Qualitative	Test Result Quantitative	Quantitative Test Result Units
Hemoglobin A1c	Blood	10/01/2023	10/01/2023		8.5	percent

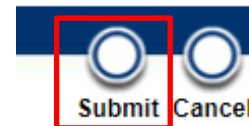
Data entry notes

- Editing data in repeating blocks:
 - After you have added data to a repeating block, you can edit or delete it using these buttons:

	Test Type	Specimen Source Site	Date Collected or Placed	Date Reported or Read	Test Result Qualitative	Test Result Quantitative	Quantitative Test Result Units
 	Hemoglobin A1c	Blood	10/01/2023	10/01/2023		8.5	percent



- Saving data in VEDSS:
 - Click the “submit” button at the top or bottom of the page:



Two new conditions in codes in VEDSS

- Tuberculosis – condition code and VEDSS paged used for **2009-2022** cases
- Latent TB infection – condition code and VEDSS page used for LTBI for **2018-2023**
- Tuberculosis (2020 RVCT) – used for **2023** TB cases and forward
- Latent TB Infection (2020 TBLISS) – condition codes used for **2024** LTBI cases and forward

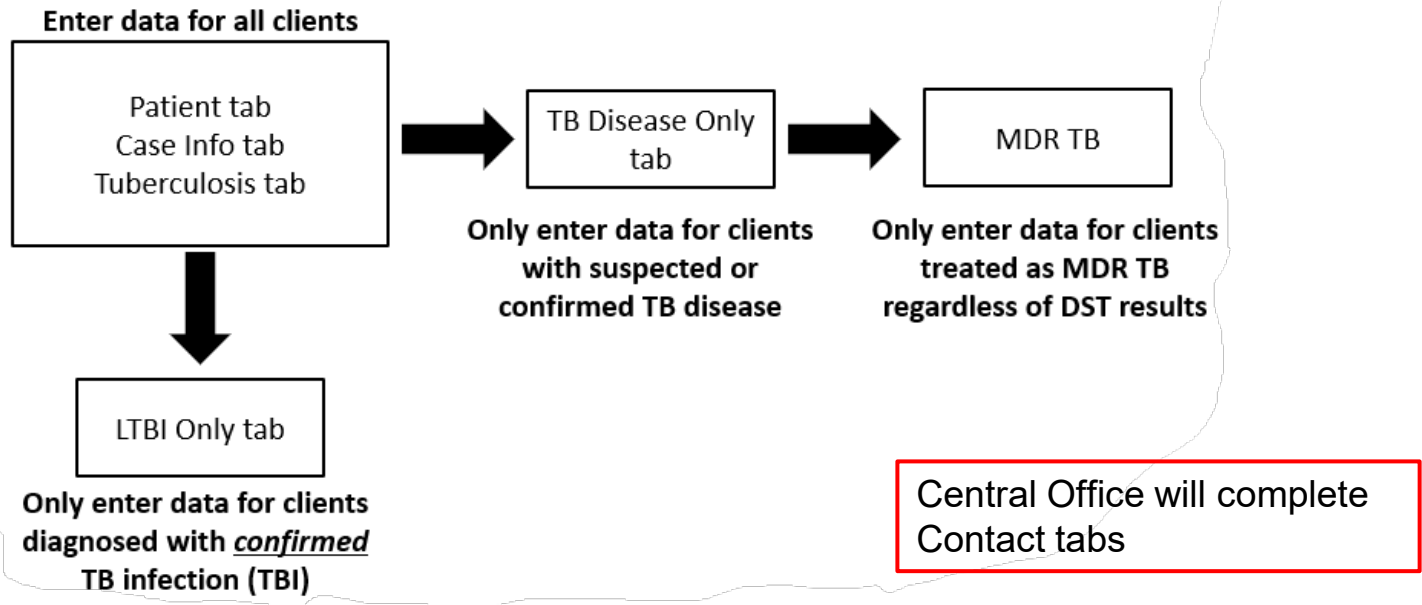
<u>Start Date</u>	<u>Conditions</u>	<u>Case Status</u>
09/01/2020	Tuberculosis	Confirmed
10/01/2021	Latent TB infection	Not a Case
10/01/2023	Latent Tuberculosis Infection (2020 TBLISS)	Not a Case
10/05/2023	Tuberculosis (2020 RVCT)	Confirmed

The “2020” pages combine TB and LTBI into one page, but two different condition codes are used and there is change functionality between them. Certain “tabs” apply to both conditions and distinct tabs apply to each as well.

Tabs

Virginia Sputum | Female | 08/31/1954 (69 Years)

Patient	Case Info	Tuberculosis	TB Disease Only	MDR TB	LTBI Only	Contact Tracing	Contacts	Contact Records	Supplemental Info
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2020 RVCT – What’s New?

Item	Item Name
5	Case Already Counted by Another Reporting Area
12	Country of Usual Residence
15	Occupation and Industry
16	Other Risk Factors
19	Current Smoking Status at Diagnostic Evaluation
20	Lived Outside of the United States for >2 months (uninterrupted)
24	Date of Illness Onset/Symptom Start Date
26	Case Meets Binational Reporting Criteria?
27	Case Identified During a Contact Investigation of Another Case?
28	Contact Investigation Conducted for This Case?
29	Complete Table Below for All Known TB and LTBI Cases Epidemiologically Linked to this Case
32	If Initial Drug Regimen Not RIPE/HRZE, Why Not?
35	Was Genotypic/Molecular Drug Susceptibility Testing Done?
36	Was Patient Treated as MDR TB Case (Regardless of DST Results)?
43	Did the Patient Die?

2020 RVCT – What’s Updated?

Item	Item Name
2	Date Counted
6	Reporting Address
8	Sex at Birth
9	Ethnicity
10	Race
11	Nativity
13	Status at TB Diagnosis
14	Initial Reason Evaluated for TB
21	Tuberculosis Skin Test and All Non-DST TB Laboratory Test Results
22	Chest Radiograph or Other Imaging Study Results
23	Has the Patient Been Previously Diagnosed with TB Disease or LTBI?
31	Initial Drug Regimen
34	Was Phenotypic/Growth-Based Drug Susceptibility Testing Done?
38	Moved During Therapy?
40	Reason Therapy Stopped or Never Started?
41	Reason TB Disease Therapy Extended >12 Months, if applicable
42	Treatment Administration

A few VEDSS specific items on the case info tab

- Jurisdiction
- Investigation status
- Investigator
- Reporting Source Type
- Reporting Organization
- Hospitalization information
- Diagnosis Date
- Pregnancy information
- Outbreak information

Go to: [Investigation Information](#) | [Reporting Information](#) | [Administrative Information](#) | [Clinical](#) | [Epidemiologic](#) | [General Comments](#) | [Case Info Questions Not Used](#)

[Collapse Sections](#)

Investigation Information

[Collapse Subsections](#)

Investigation Details

This will be entered based on info in initial notification

* Jurisdiction: Richmond (City)
* Program Area: Tuberculosis

Investigation Start Date: 10/05/2023

Leave checked.

* Investigation Status: Open

* Shared Indicator:

Investigator

This will be entered based on info in initial notification; change if needed. Contact tuberculosis@vdh.virginia.gov if you need someone added.

Investigator: Search - OR - Quick Code Lookup

Investigator Selected:

Date Assigned to Investigation:

Reporting Information

[Collapse Subsections](#)

Reporting Organization

Reporting Source Type:

Reporting Organization: Search - OR - Quick Code Lookup

Reporting Organization Selected:

Ensure jurisdiction is correct; request transfer from VDH TB if needed. You will only be able to edit investigations within your jurisdiction.

Change to "closed" when tx and CI completed (if indicated)

Select the most appropriate reporting source type. This is the type of organization that first reported the case/presumptive to the health department. Common responses will include: Hospital, Private Physician's Office, and TB Clinic.

Search for the organization by name. If you need an organization added to the system, please email tuberculosis@vdh.virginia.gov

Administrative Information

[Collapse Subsections](#)

Key Report Dates

2. Date Counted

Indicates case verification criteria result based on factors su

Auto populate based on when investigation was created.

Indicates whether this person will "count" as a TB case for Virginia. If they were counted by another state or country, we cannot count them again. Consult with VDH TB if unsure.

1. Date Reported: 10/01/2023

MMWR Week: 40

MMWR Year: 2023

Case Verification Category: 4 - Verified by Provider Diagnosis

Case Status: Confirmed

Count Status: Count as a TB Case

Notification Comments to CDC:

RVCT #1 Date the LHD was first notified that a person may have TB.

RVCT #2 This will update based on information entered into the investigation; Can override "suspect" case status to "4- Verified by Provider Diagnosis", or "0-Not a case"

Case Numbers

Not used in Virginia

3. State Case Number (YYYY-GA-ABCD56789): 2023-VA-023000001

4. Local Case Number (YYYY-GA-ABCD56789):

RVCT #3 VDH TB will assign when investigation is opened.

Case Verification

5. Case Already Counted by Another Reporting Area?: No

Previously Reported State Case Number (YYYY-GA-ABCD56789):

Country of Verified Case:

RVCT #5 Indicate "no" if not already counted by another area. If yes, consult with VDH TB for state case number from the other state.

Clinical

Collapse Subsections

Hospital

Was the patient hospitalized for this illness?:

Hospital: Search - OR - Quick Code Lookup

Hospital Selected:

Admission Date:

Discharge Date:

Total Duration of Stay in the Hospital (in days):

Indicate if TB-related hospitalization took place and include admission dates if known. If multiple, provide info on initial hospitalization

Condition

Indicate pregnancy status if applicable.

Diagnosis Date:

If Female, Was Patient Pregnant at Time of Diagnostic Evaluation?:

Date TB was confirmed via laboratory or provider.

Epidemiologic

Collapse Subsections

Epi-Link

Is this case part of an outbreak?:

Outbreak Name:

VDH TB will enter outbreak info if needed.

General Comments

Collapse Subsections

General Comments

General Comments:

Use for any additional comments relative to this tab.

RVCT Variables

1. Date reported

- The date the health department first **thought** that the patient had TB **or** the date the health department received notification from a provider that a patient **might** have TB.

1. Date Reported: 10/01/2023



2. Date counted

- The approximate date the case met an official TB surveillance case definition.
 - Laboratory confirmed (PCR/NAAT positive or culture positive)
 - Clinical case definition (positive test for infection, abnormal imagine, treatment with TB medications, completed diagnostic evaluation)
 - In Virginia, also want to see improvement on treatment and planned treatment completion.
 - Provider diagnosed case (does not meet laboratory confirmed or clinical case definition, but TB is primary diagnosis, improvement seen, and treatment completion planned)

2. Date Counted

Indicates case verification criteria result based on factors such as culture results, smear results, major and additional sites of the disease, X-ray results, TST, TBX, reason therapy was stopped.

MMWR Week: } Auto populate based on when investigation was created. Update as needed to reflect week/year counted.

MMWR Year: }

Case Verification Category: } This will update based on information entered into the investigation; Can override "suspect" case status to "4-Verified by Provider Diagnosis", or "0-Not a case"

Case Status: }

Count Status: ← Indicates whether this person will "count" as a TB case for Virginia. If they were counted by another state or country, we cannot count them again. Consult with VDH TB if unsure.

Notification Comments to CDC:

Process for notifying VDH TB Program about a new presumptive or confirmed case

- Submit an initial notification within three business days

TUBERCULOSIS

The mission of the Tuberculosis (TB) Program is to control, prevent, and eventually eliminate TB from the Commonwealth of Virginia, assure that every case is adequately and completely treated, and protect our communities.

VDH TB Central Resource Hub

Report Latent Tuberculosis Infection (LTBI)

VDH VIRGINIA
DEPARTMENT
OF HEALTH

Please select your affiliation and what you would like to do from the drop down below. You will then be prompted to click a link to take you to the appropriate form.

Please do not click the check mark at the bottom of this screen.

Please choose your affiliation:

Health Department
 Non-Health Department

* must provide value

What would you like to do?

* must provide value

[Click here to submit an Initial Notification of a New Confirmed/Presumptive Active TB Case.](#)

3. State case number (RVCT number)

- Unique identifier use to facilitate communication between VDH and CDC.
 - Assigned by VDH TB Program when investigation opened.
 - Format:

2023-VA-023000123

Year reported State code Year counted Sequential number

4. Local case number

- Not routinely used in Virginia

Case Numbers

3. State Case Number (YYYY-GA-ABCD56789):

4. Local Case Number (YYYY-GA-ABCD56789):

New

5. Case already counted by another reporting area?

- TB cases may be *reported* by multiple reporting areas due to patient movement, but the case is only *counted* for one area.
- Indicate “no” if not already counted by another area (either in the U.S. or if patient started TB treatment abroad). Consult with VDH TB if unsure or if state case number from another state is needed. If patient started treatment in another country, enter the county name.
- Indicate “yes” if counted by another area or treatment initiated in another country.

Case Verification

5. Case Already Counted by Another Reporting Area?: No

Previously Reported State Case Number (YYYY-GA-ABCD56789):

Country of Verified Case:

Exercise

Samantha was diagnosed with TB and started treatment in California. After a month of treatment she moved to Virginia to start college. The LHD in Virginia receives an interjurisdictional notification from California via VDH TB Program and assumes care for this client.

Should the LHD submit an initial notification for this client?

- Yes
- No

How should “Case already counted by another reporting area” be answered?

- Yes
- No

6. Reporting address

- The reporting address should capture the patient's "usual residence" – where they live or sleep most of the time. Typically this is the address at the time of diagnosis.

6. Reporting Address for Case Counting

Address Information As Of Date: 10/05/2023

Street Address 1: 101 W. Main Street

Street Address 2:

City: Richmond

State: Virginia

Zip: 23220

County: Richmond City

Country: UNITED STATES

Census Tract:

Is the Patient Residence within City Limits?: Yes

Determining Reporting Address

Patient Scenarios	How to Count	Reporting Address
Persons temporarily away from their usual residence (e.g., on vacation or a business trip), and <i>who return to their usual residence</i> to complete TB treatment.	Count in the reporting area for the patient's usual residence.	Enter city, county, ZIP Code, and census tract of the patient's usual residence.
Persons temporarily away from their usual residence (e.g., on vacation or a business trip), and <i>who remain in the community that they were visiting</i> to complete TB treatment.	Count in the reporting area where the TB diagnostic evaluation was initiated.	Enter city, county, ZIP Code, and census tract of location where the patient was staying when the diagnostic evaluation was initiated.
Persons without housing (e.g., persons experiencing homelessness or without a fixed residence)	Count in the reporting area where the TB diagnostic evaluation was initiated.	Enter city, county, ZIP Code, and census tract of location where the patient was staying when the diagnostic evaluation was initiated.
Students	<ol style="list-style-type: none"> College or boarding school students on a typical yearly academic cycle should be counted by the reporting area where they live most of the year. Intermittent or part-time students without a regular cycle for moving between parental and school residences should be counted by the reporting area where they were living at the time that diagnostic evaluation was initiated. 	Enter city, county, ZIP Code, and census tract of the location where the patient stays in the reporting area that is counting the case.


Exercise


Mabel lives in Richmond, VA. On May 1, 2021, she visits her sister in Boston, MA. During the visit, Mabel develops a bad cough and fever. She goes to the Boston Health Clinic and is diagnosed with TB disease. On June 3, 2021, Mabel returns home to Richmond, VA where she completes treatment.


What reporting address should be used for Mabel?

- A. Richmond, VA
- B. Boston, MA

- 7. Date of birth
- 8. Sex at birth
- 9. Ethnicity
- 10. Race

7. Date of Birth: 

8. Sex at Birth: 

9. Ethnicity: 

10. Race: American Indian or Alaska Native
 Asian
 Black or African American
 Native Hawaiian or Other Pacific Islander
 White
 Other
 Refused to answer
 Not Asked
 Unknown

(Use Ctrl to select more than one)

Detailed Race Asian:

Selected Values: Vietnamese



Select more detailed race category if known.

Reminder: Filipino falls under Asian, not Pacific Islander.

Updated

11. Nativity

- 11a. Country of Birth
 - Provide the actual country (or U.S. territory) of birth regardless of whether they were U.S. citizens at birth. If born in the United States, select “United States”.
- Date of First U.S. Arrival
 - If born outside of the United States, enter the known or best estimated date of when the patient first arrived in the United States.

11. Nativity

11a. Country of Birth: AFGHANISTAN

If country of birth is NOT United States, regardless of citizenship, indicate the date when the patient first arrived in the US.

Date of First US Arrival: 08/01/2022

Updated

11. Nativity (continued)

- 11b. Eligible for U.S. citizenship/nationality at birth?
 - Yes – born in one of the U.S> states, D.C., Puerto Rico, Guam, the Northern Mariana Islands, or the U.S. Virginia Islands **or** born aboard to a parent who was a U.S. citizen.
 - Example: Born in Brazil to a mother with U.S. citizenship and a father with Brazilian citizenship = Yes, eligible for U.S. citizenship, country of birth = Brazil
- 11c. Countries of birth for primary guardians
 - Complete only for patients less than 15 years old.

11b. Eligible for US Citizenship or Nationality at Birth?:

Complete Countries for Birth for Primary Guardians(s) for pediatric cases only (less than 15 years old).

(Use Ctrl to select more than one)

Countries of Birth for Primary Guardians:

- AFGHANISTAN
- ALAND ISLANDS
- ALBANIA
- ALGERIA
- AMERICAN SAMOA

Selected Values:

Exercise

You are completing an RVCT on Peter and you ask him where he was born. He tells you he was born in Germany. He says that his mother is a German citizen, but that his father is a U.S. citizen who was stationed abroad.

Was Peter eligible for U.S. citizenship when he was born?

- A. Yes
- B. No

What do you select as “Country of Birth”?

- A. United States
- B. Germany

New

12a. Country of usual residence

- The country where the patient lives or sleeps most of the time, this may be different from where they are registered to vote, where they maintain a legal residence, etc. This includes persons who are in the U.S. for an extended period for work or study, even if they do not consider the U.S. to be “home”.

12b. If NOT U.S. reporting area, has the patient been in the U.S. for 90 days or more at time of report?

12. Country of Usual Residence

12a. Country of Usual Residence: UNITED STATES

12b. If NOT US Reporting Area, Has Patient Been in US for 90 Days or More?:

Updated

13. Status at TB diagnosis

Purpose is to determine if the patient was alive at the time of diagnosis.

- Alive
 - Patient was alive at time positive lab results were known to provider
 - Patient started TB medications
- Dead
 - Patient was deceased at the time laboratory results confirming TB were known to the provider

13. Status at TB Diagnosis: Alive



Exercise

Ruth comes to the emergency room on April 30, 2023. She is diagnosed with pneumonia, given antibiotics, and discharged. She dies two weeks later on May 15, 2023. At autopsy, the pathology shows granulomatous changes consistent with TB disease. A lung biopsy culture is found to be positive for *M. tuberculosis* complex.

What is the status at TB Diagnosis?

- A. Alive
- B. Dead

Updated

14. Initial reason evaluated for TB

Contact investigation

- Includes source case investigations

Screening

- Any type of planned screening for TB disease or LTBI in a specific population, other than through a contact investigations.
 - Includes targeted or prioritized testing, intake in correctional setting, class B notifications, administrative screening for employment, etc.

TB symptoms

- Signs and symptoms consistent with TB
- Select only if patient as signs and symptoms at time of diagnostic evaluation and neither contact investigation or screening apply to the case. Select when TB symptoms are the reason that the patient came to the attention of the medical community.

Other

- Incidental chest radiograph, incidental lab results, unexpected clinical finding when TB was not being considered, etc.
- Room to provide detail if other selected

Unknown

Example: TB Symptoms

If a person with TB was initially encountered via a contact investigation and during that investigation was also noted to have TB symptoms, select “Contact Investigation” as the initial reason for the evaluation. However, if a patient seeks medical care because of TB symptoms, select “TB Symptoms” as the initial reason for the evaluation.

14. Initial Reason Evaluated for TB:

Other 14. Initial Reason Evaluated for TB:

Exercise

1. Maria was evaluated by the health department after they received a B1 EDN notification for her.
2. The health department evaluated Sarah after she was exposed to TB from a colleague at work. She was later diagnosed with TB.
3. George went to the hospital coughing up blood and was evaluated for TB.
4. Sophie is living with HIV. At a recent visit to her provider she was tested for TB infection and had a new positive result.
5. While being cleared for surgery, Raul was notified that he had an abnormal chest x-ray concerning for TB.

**Contact
investigation**

Screening

TB symptoms

Other

Unknown

15. Current occupation and industry

15a. Has the patient **ever** worked as one of the following?

- Healthcare worker – “healthcare personnel” – paid or unpaid persons working in a healthcare setting.
- Correctional facility employee – person working in a correctional facility. If they have worked as HCP within corrections, select both options.
- Migrant/seasonal worker – person who is required to be absent from a permanent place of residence for the uprose of seeking employment, or who may vary their employment for the purpose of remaining employed while maintaining a permanent place of residence.
- None of the above
- Unknown – select only when it cannot be confirmed or denied that the person ever worked in any of the above fields.

15. Occupation and Industry

15a. Has the patient ever worked as one of the following? (select all that apply):

(Use Ctrl to select more than one)

- Correctional Facility Employee
- Healthcare Worker
- Migrant/Seasonal Worker
- None of the Above
- Unknown

Selected Values:

15. Current occupation and industry (continued)

15b. What is the patient's current occupation and industry?

- Complete for all patients 14 years and older.
- **Current Occupation** – the type of job the patient has been doing most recently, whether paid or unpaid.
- **Current Industry** - the kind of business or industry the patient works in.

15b. Industry and Occupation Information

Current Occupation Standardized	Current Occupation	Current Industry Standardized
No Data has been entered.		
Current Occupation Standardized: Medical scientists [1650]	Epidemiologist	Current Industry Standardized: Administration of human resource programs [9480]
	Public Health	

[More information about standardized occupation and industry codes is available here](#)

Add descriptive information for occupation/industry, including if client is unemployed, not seeking employment, incarcerated, etc. VDH TB will do the standardized coding based on description. Be specific.

15. Current occupation and industry (continued)

15b. Industry and occupation information

- **Current Occupation**

- Ask, “What kind of work do you do?”
- If the client has more than one job, collect information on all jobs
- If the client is a student, enter the level of study (e.g., “high school student”)
- If the client is unemployed or not seeking employment, do not leave “current occupation” blank. Example of entries include: “unemployed,” “retired,” “disabled”, etc.
- **Be descriptive:** teacher (non-descriptive); preschool teacher (descriptive)
- **Be specific:** laborer (non-specific); roofer (specific)

- **Current Industry**

- Kind of business or industry the client works in.
- Ask, “What kind of business or field do you work in?”
- **Be descriptive:** manufacturing (non-descriptive); automobile manufacturing (descriptive)
- **Be specific:** food industry (non-specific); restaurant (specific) or grocery store (specific)

16. Other risk factors

16. Other Risk Factors

Diabetic At Diagnostic Evaluation: ▼

Homeless in the Past 12 Months: ▼

Homeless Ever: ▼

Resident of Correctional Facility at Diagnostic Evaluation: ▼

17. If Resident of Correctional Facility at Diagnostic Evaluation, Type of Facility:

Other 17. If Resident of Correctional Facility at Diagnostic Evaluation, Type of Facility:

Resident of Correctional Facility Ever: ▼

Resident of Long Term Care Facility at Diagnostic Evaluation: ▼

18. If Resident of Long Term Care Facility at Diagnostic Evaluation, Type of Facility:

Other 18. If Resident of Long Term Care Facility at Diagnostic Evaluation, Type of Facility:

Injecting Drug Use in the Past 12 Months: ▼

Noninjecting Drug Use in the Past 12 Months: ▼

Heavy Alcohol Use in the Past 12 Months: ▼

TNF Antagonist Therapy: ▼

Post Organ Transplantation: ▼

End Stage Renal Disease: ▼

Viral Hepatitis (B or C Only): ▼

Other Immunocompromise (other than HIV or AIDS): ▼

Other Risk Factor: ▼

Other Risk Factor Specify:

Provide a response, Yes, No, or Unknown, for each item. Use unknown only if information is truly unavailable.

16. Other risk factors (continued)

- **Diabetic at diagnostic evaluation** – The patient had diabetes when TB diagnostic evaluation was performed.
 - Existing DM diagnosis, whether receiving treatment or not **or**
 - Hemoglobin A1c $\geq 6.5\%$ **or**
 - Fasting plasma glucose ≥ 126 mg/dL **or**
 - 2-hour plasma glucose ≥ 200 mg/dL during an oral glucose tolerance test **or**
 - In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random please glucose ≥ 200 mg/dL
- **Homeless in the past 12 months** – patient has experienced homelessness in the 12 months preceding TB diagnosis evaluation
- **Homeless ever** – patient has ever experienced homelessness

Someone experiencing homelessness may:

- Have no fixed, regular, and adequate nighttime residence
- A nighttime residence that is an operated shelter designed to provide temporary living, an institution that provides temporary residences for individuals intended to be institutionalized, a public or private place not designated for, or ordinarily used as, a regular sleeping accommodation for humans
- Be in unstable housing situations, such as couch surfing

16. Other risk factors (continued)

- **Resident of a correctional facility at diagnostic evaluation** – The patient was incarcerated or detained in a jail, prison, or other detention center when TB diagnostic evaluation was performed or initiated.
- **Resident of a correctional facility ever** – patient has ever been incarcerated or detained in a jail, prison, or other detention center in their lifetime.
- **Resident of long-term care facility at time of diagnostic evaluation** – patient was a resident of a long-term care facility when TB diagnostic evaluation was performed or initiated.
- **Injecting drug use in the past 12 months** – Patient used injection drugs in the past 12 months not prescribed by a healthcare provider; involves the use of hypodermic needles and syringes and may be intravenous, subcutaneous, or intramuscular.

16. Other risk factors (continued)

- **Noninjecting drug use in the past 12 months** – The patient was incarcerated or detained in a jail, prison, or other detention center when TB diagnostic evaluation was performed or initiated. Per CDC, marijuana should always be recorded as noninjecting drug use, regardless of whether marijuana is legal for medicinal or recreational use. Also includes the misuse of licensed or prescription drugs.
- **Heavy alcohol use in the past 12 months** – The National Institute on Alcohol Abuse and Alcoholism defines heavy alcohol use as binge drinking on 5 or more days in the month preceding diagnosis. Binge drinking is defined as a pattern of drinking that brings blood alcohol concentration levels to 0.08 g/dL. This typically occurs after four drinks for women and five drinks for men in about 2 hours.
- **TNF- α antagonist therapy** – Patient recently received, or was receiving, tumor necrosis factor-alpha antagonist therapy when TB diagnostic evaluation was performed or initiated (e.g., Remicade, Humira)
- **Post organ transplantation** – Patient has ever received a solid organ transplant (e.g., kidney, heart).

16. Other risk factors (continued)

- **End-stage renal disease** – Patient has end-stage renal disease when TB diagnostic evaluation was performed or initiated (e.g., patient on dialysis).
- **Viral hepatitis (B or C only)** – Patient has **ever** had a diagnosis of hepatitis B or C (acute or chronic)
- **Other immunocompromise (other than HIV/AIDS)** – Patient is immunocompromised because of either a medical condition (e.g., leukemia, Hodgkin’s lymphoma, carcinoma of the head or neck), or immunosuppressive therapy, such as prolonged use of high-doses of corticosteroids.
- **Other (specify)** – Additional risk factors may be captured here and specified in free text.

17. If resident of correctional facility at diagnostic evaluation, type of facility?

- **Federal prison** – Confinement facility administered by a federal agency (except Immigration and Customs Enforcement); includes privately operated federal correctional facilities.
- **State prison** – Confinement facility administered by a state agency; includes privately operated state correctional facilities.
- **Local jail** – Confinement facility usually administered by a local law enforcement agency, intended for adults but sometimes containing juveniles; typically holds persons detained pending adjudication or for sentences of 1 year or less
- **Other (specify)** – Includes **Immigration and Customs Enforcement (ICE)** detention centers, India reservation facilities (tribal jails), military stockades and jails, federal park police facilities, police lockups temporary holding facilities, and other correctional facilities including **regional jails**.
- **Unknown** – patient was incarcerated when TB diagnostic evaluation was performed, but the type of facility is unknown.

Resident of Correctional Facility at Diagnostic Evaluation: Yes

17. If Resident of Correctional Facility at Diagnostic Evaluation, Type of Facility: Local Jail

18. If resident of long-term care facility at diagnostic evaluation, type of facility?

- **Nursing home** – Freestanding facility with three or more beds that provides nursing care services. This **does not include assisted living facilities**.
- **Hospital-based facility** – Distinct unit with three or more beds that is physically attached to, or managed by, a hospital.
- **Residential facility** – Facility with three or more beds (i.e., classified as a residential facility or congregate residential setting) and is not classified as a nursing home, hospital-based facility, or alcohol or drug treatment facility. Provides personal care or supervision (not nursing care) to its residents. **This includes assisted living facilities**.
- **Mental health residential facility** – Facility that provides 24-hour care in a hospital, residential treatment, or supportive setting.
- **Alcohol or drug treatment facility** – Any long-term rehab or residential facilities designated for treatment of 30 days or longer.
- **Other**
- **Unknown**

Resident of Long Term Care Facility at Diagnostic Evaluation: Yes

18. If Resident of Long Term Care Facility at Diagnostic Evaluation, Type of Facility: Nursing Home

19. Smoking status at diagnostic evaluation

- **Current every day smoker**
- **Current some day smoker**
- **Former smoker** – Patient has smoked at least 100 cigarettes/cigars in the lifetime and has quit.
- **Never smoker** – Patient has not smoked at least 100 cigarettes/cigars in the lifetime
- **Smoker, current status unknown** – Patient was a smoker or tobacco user, but current status is unknown
- **Unknown if ever smoked**

The definition of smoking includes use of vapes and e-cigarettes, but does not include chewing tobacco.

19. Current Smoking Status at Diagnostic Evaluation:



20. Lived outside of the United States for >2 uninterrupted months.

- Uninterrupted time outside of the U.S. can include multiple locations with a cumulative amount of time equaling 2 months or more as long as there is no return to the U.S. during that time.
 - This could be someone who had an established home outside of the United States, or someone who was in school, or just traveling for that amount of time.

20. Lived outside of US for More than 2 Months:

Updated

21. Tuberculosis skin test and all non-DST lab results

- This section contains specific space to enter required results for:
 - HIV
 - TST
 - IGRA
 - Sputum smear
 - Sputum culture
 - Smear/Pathology/Cytology of tissue or other body fluids
 - Culture of tissue or other body fluids
 - Nucleic acid amplification test
- There is also a repeating block where additional results can be entered
 - Hemoglobin A1c

Updated

21. HIV status

▣ HIV Status

HIV Status: Collection Date: Date Reported:

- Patient self-report of HIV status is not acceptable.
- HIV serology results must be documented.
- A positive test can be from any date
- A negative test result must be less than a year before the TB diagnostic evaluation
- Indicate as appropriate if test was not offered or if the client (or family) refused testing.

Updated

21. Tuberculin skin test

Tuberculin (Mantoux) Skin Test at Diagnosis

Result: Date Placed: Date Read: MM of Induration:

- A documented prior positive is acceptable, but not patient self report alone.
- Include induration.

Updated

21. Interferon gamma release assay

Interferon Gamma Release Assay for Mycobacterium tuberculosis at Diagnosis

Test Result:

Test Type:

Collection Date:

Date Reported:

Quantitative Test Result:

Quantitative Test Result Units:

- A documented prior positive is acceptable, but not patient self report alone.
- Indicate of the IGRA performed was a QFT or a T-Spot.

Updated

21. Sputum smear

▣ Sputum Smear

Result: Collection Date: Date Reported:

- If the patient has a positive sputum smear result that is **interpreted as consistent with TB by the clinician**, capture the initial positive result here. Examples of positive results include: “few”, “moderate”, “many”, “1+”, etc.
 - If a positive smear is attributed to an NTM infection, do not capture as positive here.
- If the patient never has a positive sputum smear result, capture the earliest collection date for the initial negative result.

Updated

21. Sputum culture

▣ Sputum Culture

Result: Collection Date: Date Reported:

- If the patient has a positive sputum culture result for TB, capture the initial positive result here.
- If the patient never has a positive sputum culture result for TB, capture the earliest collection date for the initial negative result.

Exercise

Shauna has sputum collected on 5/1/2023. Her specimen is smear negative, but comes back culture positive for *M. avium*. The clinician still plans to treat Shauna as a clinical case of TB. Which option would be selected for sputum culture result? No additional sputum culture results are positive.

- A. Positive
- B. Negative
- C. Not Done
- D. Unknown

Updated

21. Smear/pathology/cytology of tissue or other bodily fluids

Smear/Pathology/Cytology of Tissue or Other Bodily Fluids

Results:

Test Type:

Specimen Source:

Other Specimen Source:

Collection Date:


Date Reported:

- If the patient has a positive smear result from a site other than sputum that is **interpreted as consistent with TB by the clinician**, capture the initial positive result here. If no testing of other sites is performed, select “not done” as the result.
 - If a positive smear is attributed to an NTM infection, do not capture as positive here.
- If the patient never has a positive smear result from a site other than sputum, but did have testing performed, capture the earliest collection date for the initial negative result.

Updated


21. Culture of tissue or other bodily fluids culture


Culture of Tissue or Other Bodily Fluids

Results: 

Specimen Source:

Other Specimen Source:

Collection Date: 




Date Reported: 

- If the patient has a positive culture result for TB from a site other than sputum, capture the initial positive result here. If no testing of other sites is performed, select “not done” as the result.
- If the patient never has a positive culture result from a site other than sputum, but did have testing performed, capture the earliest collection date for the initial negative result.

Updated


21. Nucleic acid amplification (NAA) test result

▣ Nucleic Acid Amplification Test Result

Results:	<input type="text"/>	
Specimen Source:	<input type="text"/>	
Other Specimen Source:	<input type="text"/>	
Collection Date:	<input type="text"/>	
Date Reported:	<input type="text"/>	

- If the patient has a positive NAA result from any site, capture the initial positive result here.
- If the patient never has a positive NAA result, but did have testing performed, capture the earliest collection date for the initial negative result.
- If no NAA testing was performed, select “not done” as the result.

NAA Testing at DCLS


DCLS | Division of Consolidated Laboratory Services dgs.virginia.gov

NAAT Criteria

<p style="text-align: center; font-weight: bold;">Real-time PCR on direct sputa</p> <ul style="list-style-type: none"> Patients currently not on anti-tuberculosis therapy Patients without a previous positive MTBC result (NAAT and/or culture) within the past 12 months 	<p style="text-align: center; font-weight: bold;">Xpert MTB/RIF on direct sputa</p> <ul style="list-style-type: none"> Patient on anti-tuberculosis therapy for less than 3 days Sufficient volume Non-pediatric patients
--	--

NAA vs. Culture

What other terms are used for NAA tests?

- NAAT
- Direct PCR
- GeneXpert
- Hain Test
- Amplified *Mycobacteria tuberculosis* (MTD) Direct

What other terms are used for a culture?

- Probe
- DNA probe
- Culture PCR

NAA vs. Culture Results from DCLS


NAAT =

	Mycobacterium tuberculosis complex DNA from primary specimen by real-time PCR	Detected
--	---	----------

Direct PCR M. tuberculosis complex/M. avium complex	Date Released :
<p>Mycobacterium avium complex DNA by real-time PCR: DETECTED Mycobacterium tuberculosis complex DNA by real-time PCR: Not Detected <i>Disclaimer: This test has not been cleared or approved by the U .S. Food and Drug Administration . The performance characteristics of this test have been validated by DCLS . The results from this assay should not be used independently to make decisions regarding the management of patient care or public health .</i></p>	

GENEXpert	Date Released : 01/27/2020
<p>Mycobacterium tuberculosis complex DNA detected by direct specimen Nucleic Acid Amplification Test . No rpoB gene mutations detected by direct specimen Nucleic Acid Amplification Test; probably Rifampin susceptible. <i>Comment : Results from the MTB/RIF test should be interpreted in conjunction with other laboratory and clinical data . If test results do not match clinical signs and symptoms, additional testing may be warranted . A result of "Mycobacterium tuberculosis complex DNA Not Detected" does not exclude the possibility of isolating a Mycobacterium tuberculosis complex organism from the specimen . Additionally, a result of "No rpoB gene mutations detected; probably Rifampin susceptible " does not exclude the possibility of Rifampin resistance . Test results may be affected by inhibitors and variability in specimen collection and transport .</i></p>	

NAA vs. Culture Results from DCLS

	<p>Mycobacterium tuberculosis complex DNA from cultured isolate by real-time PCR</p>	<p>Detected</p>
---	--	-----------------

Culture =

<p>Culture PCR M. tuberculosis complex/M. avium complex</p>	<p>Date Released: 01/18/2022</p>
<p>Mycobacterium tuberculosis complex DNA by real-time PCR: DETECTED <i>Disclaimer: This test has not been cleared or approved by the U.S. Food and Drug Administration. The performance characteristics of this test have been fully established by DCLS. The results from this assay should not be used independently to make decisions regarding the management of patient care or public health.</i></p>	

<p>Mycobacterial DNA Probe</p>	<p>Date Released: 01/02/2020</p>
<p>M.tb complex probe : Positive <i>Drug susceptibility testing to follow.</i></p> <p><i>Mycobacterium tuberculosis complex includes tuberculosis, M. bovis, M. bovis BCG, M. africanum, M. microti, and M. canetti all of which cause the clinical syndrome, tuberculosis. All laboratory results should be interpreted in conjunction with clinical findings.</i></p>	

Updated

21. Tuberculosis skin test and all non-DST lab results

- In the repeating block for additional lab results, include:
 - Hemoglobin A1c
 - CD4 count for people living with HIV
- You may include other results (Karius test, etc.)

Additional Laboratory Test Results

Enter an additional laboratory testing results in the lab interpretive repeating block below.

Lab Interpretive Repeating Block

Test Type	Specimen Source Site	Date Collected or Placed	Date Reported or Read	Test Result Qualitative	Test Result Quantitative	Quantitative Test Result Units
No Data has been entered.						
Test Type:	Specimen Source Site:	Date Collected or Placed:	Date Reported or Read:	Test Result (Qualitative):	Test Result (Quantitative):	Quantitative Test Result Units:
Hemoglobin A1c						
Other Test Type:	Other Specimen Source Site:					

Updated

21. Tuberculosis skin test and all non-DST lab results (continued)

Test	Test Type	Specimen Source Site	Date Collected or Placed	Date Reported or Read	Test Result (Qualitative)	Test Result (Quantitative)	Quantitative Test Result Units
CD4	CD4	Blood	Date collected	Date reported		Enter quantitative result	cells per mm ³ or percent
Culture	Culture	Source of specimen	Date collected	Date reported	Enter qualitative result		
Cytology	Cytology	Source of specimen	Date collected	Date reported	Enter qualitative result		
Fasting blood glucose	Do not have to record						
Hemoglobin A1c	Hemoglobin A1c	Blood	Date collected	Date reported		Enter quantitative result	percent
QFT	IGRA – QFT	Blood	Date collected	Date reported	Enter qualitative result		

Updated

21. Tuberculosis skin test and all non-DST lab results (continued)

Test	Test Type	Specimen Source Site	Date Collected or Placed	Date Reported or Read	Test Result (Qualitative)	Test Result (Quantitative)	Quantitative Test Result Units
T-spot	IGRA – Tspot	Blood	Date collected	Date reported	Enter qualitative result	Enter number of spots (if reported)	
Other nucleic acid tests	NAA	Source of specimen	Date collected	Date reported	Enter qualitative result		
Pathology	Pathology	Source of specimen	Date collected	Date reported	Enter qualitative result		
Smear	Smear	Source of specimen	Date collected	Date reported	Enter qualitative result	Enter quantitative result (e.g., <1, 4+, etc.)	
TST	Tuberculin skin test	Skin and skin appendages	Date placed	Date read	Enter qualitative result	Enter quantitative result	millimeter

Updated

21. Tuberculosis skin test and all non-DST lab results (continued)

Example: CD4

CD4					
Absolute Lymphocytes	1646	1000-4000	/uL		MEM
Absolute CD4	625	540-1660	/uL		
Percent CD4	38	32-60	%		

Test Type	Specimen Source Site	Date Collected or Placed	Date Reported or Read	Test Result Qualitative	Test Result Quantitative	Quantitative Test Result Units
No Data has been entered.						
Test Type: CD4 Count	Other Test Type:	Specimen Source Site: Blood	Other Specimen Source Site:	Date Collected or Placed: 12/02/2022	Date Reported or Read: 12/05/2022	Test Result (Qualitative):
Test Result (Quantitative): 625	Quantitative Test Result Units: cells/mm3	cells/mm3 is the same as cells per microliter				
						Add

Updated

21. Tuberculosis skin test and all non-DST lab results (continued)

May be programmatically helpful to enter smear conversion results (i.e., the three consecutive negative smears that represent conversion), and sputum culture conversion results (i.e., the three consecutive negative cultures that indicate culture conversion).

Updated

22. Chest radiograph or other imaging results

- Response required for both, indicate “not done” as the result if applicable.
- If “consistent with TB” selected, indicate if there was evidence of cavity or miliary disease.
- Consistent with TB includes hilar adenopathy, effusion, infiltrates, cavity, scarring consistent with TB.

22. Chest Radiograph and Other Chest Imaging Study Results

Initial Chest X-Ray Result:

Initial Chest X-Ray Date:

Evidence of a Cavity:

Evidence of Miliary TB:

Initial Chest CT Scan Result:

Initial Chest CT Scan Date:

Evidence of a Cavity:

Evidence of Miliary TB:

Miliary TB is a clinical or radiologic finding, rather than a site of disease. Miliary TB is the result of a TB infection eroding into the bloodstream and from there disseminating throughout the body to multiple organs. It appears on radiographs as a great number of small (1 to 2 mm) well-defined nodules that look like millet seeds scattered throughout the lungs.

Updated

23. Has the patient been previously diagnosed with TB or LTBI?

- Indicate if the patient has a history of previous LTBI or TB disease
- If yes, provide additional detail about the diagnosis type, date (or approximate year) of diagnosis, and whether treatment was completed.
- For clients with a prior diagnosis of TB disease in Virginia, reach out to VDH TB to determine state case number.

Previous Diagnosis

23. Has the Patient Been Previously Diagnosed with TB Disease or LTBI?:

If YES, Complete Table Below. Provide only 1 response for LTBI. Multiple responses for TB are allowed.

Previous Disease Information

	Diagnosis Type	Date of Diagnosis
--	----------------	-------------------

No Data has been entered.

Diagnosis Type:

Date of Diagnosis:

Previous State Case Number:

Completed Treatment:

New


24. Date of illness onset/symptom start date

- Capture the approximate or exact date that the patient first noticed any sign or symptoms consistent with TB.
- If the patient reports not having experienced TB signs or symptoms, record the date of earlier clinical finding consistent with TB disease, such as date of first chest radiograph consistent with TB.

25. Site of TB disease

- Select all sites affected by the TB disease process.
- For miliary disease, select “pulmonary” and indicate in item 22 the miliary evidence from imaging.

Symptom Onset and Site of TB Disease

24. Date of Illness Onset or Symptom Start Date: 09/10/2023 

25. Site of TB Disease (select all that apply):

(Use Ctrl to select more than one)

- Pharynx, oropharynx, and hypopharynx
- Pituitary gland
- Placenta, umbilical cord, and implantation site
- Pleural
- Pulmonary

Selected Values: Pleural, Pulmonary

Other 25. Site of TB Disease (select all that apply):

26. Case meets binational reporting criteria

- A case meets binational reporting criteria if it meets one or more of the following criteria:
 - Exposure to a suspected product (e.g., unpasteurized milk or cheese) from Canada or Mexico
 - Has case contacts in or from Mexico or Canada
 - Potentially exposed by a resident of Mexico or Canada
 - Potentially exposed while in Mexico or Canada
 - Resident of Mexico or Canada
 - Other situations such as the patient crossed the border into the United States from Mexico or Canada during TB treatment, or the patient was referred to a U.S.-funded, binational TB program for treatment continuity.

26. Case Meets Binational Reporting Criteria?: Yes

If Yes, Which Criteria Were Met?:

(Use Ctrl to select more than one)

- Exposure to suspected product from Canada or Mexico
- Has case contacts in or from Mexico or Canada
- Other situations that may require binational notification or coordination of response
- Potentially exposed by a resident of Mexico or Canada
- Potentially exposed while in Mexico or Canada

Selected Values: Exposure to suspected product from Canada or Mexico

Contact VDH TB
with questions!

27. Case identified during a contact investigation of another case?

- Select “Yes” if the case was identified during the contact investigation or source case investigation of another case.
- If “Yes”, select whether the patient was **fully** evaluated for TB during that investigation, regardless of whether the patient was diagnosed with TB at that time.
- Otherwise select “No” or “Unknown” as appropriate.

27. Case Identified During the Contact Investigation of Another Case?: ▼

If Yes, Evaluated for TB During that Contact Investigation?: ▼

Exercise

Laura is newly diagnosed with TB and you are entering her RVCT data into VEDSS. Six months ago, Laura was evaluated as part of a contact investigation at her work place. During that evaluation, her QFT was positive and her chest X-ray was normal. She was diagnosed with LTBI, but declined treatment at the time.

1. Was Laura identified during the contact investigation of another case?

-Yes

-No

2. If Yes, was Laura evaluated for TB during that contact investigation?

-Yes

-No

Exercise

Kevin is newly diagnosed with active TB disease. Upon reviewing his medical history, and during his initial interviews, Kevin indicates that he was a contact to a TB case 5 years ago at school and was evaluated as part of a contact investigation at that time. He had a negative IGRA two weeks after his last exposure, but never returned for second round testing.

1. Was Kevin identified during the contact investigation of another case?

-Yes

-No


2. If Yes, was Kevin evaluated for TB during that contact investigation?

-Yes

-No

28. Contact investigation conducted for this case?







- Select “Yes” if an **adequate** contact or source case investigation was conducted for this case, this typically involves multiple patient interviews, etc.
- This item should be answered for **all** cases, regardless of whether a contact investigation or source case investigation was warranted (e.g., extrapulmonary TB).

28. Contact Investigation Conducted for This Case?: 

29. Epidemiologically linked TB and LTBI cases

- VDH TB will complete after receiving the 502, but you may enter known linkages. Consult VDH TB for state case numbers if needed.


29. Linked Case Number

			Linked Case Number
			2023-VA-023000164
			2023-VA-LTBI000123

Linked State Case Number:

30. Date therapy started

- Date the patient began multidrug therapy for confirmed or presumptive TB disease. This should reflect the earliest date, even if that was in the hospital, and even if the program excluded those doses from their count.

30. Date Therapy Started: 

Updated

31. Initial drug regimen

- For each drug, indicate if it was part of the initial regimen prescribed for treatment of TB disease, even if the regimen was altered soon after.
- Clicking “standard regimen” will mark “Yes” for isoniazid, rifampin, pyrazinamide, and ethambutol.
- Clicking “mark rest no” will mark “No” for any drugs without a selection made. You can then edit individual answers.
- Do not enter pyridoxine (B6) as other drug

31. Initial Drug Regimen

Standard Regimen (4)

Mark Rest 'No'

Isoniazid:

Rifampin:

Pyrazinamide:

Ethambutol:

Streptomycin:

Rifabutin:

Rifapentine:

Ethionamide:

Amikacin:

Kanamycin:

Capreomycin:

Ciprofloxacin:

Levofloxacin:

Ofloxacin:

Moxifloxacin:

Other Quinolones:

Cycloserine:

Para-Aminosalicylic acid:

Linezolid:

Bedaquiline:

Delamanid:

Clofazimine:

Pretomanid:

Other Drug Regimen:

Other Drug Regimen Specify:

32. If initial regimen not RIPE, why not?

- If RIPE was not initial prescribed, indicate the most appropriate reason:
 - Drug contraindication/interaction
 - Drug susceptibility testing results already known
 - Suspected drug resistance (e.g., the patient was a contact of a drug-resistant case)
 - Drug shortage (e.g., one or more RIPE drugs were unavailable due to a shortage.)
 - Other (specify)
 - Unknown

32. If Initial Drug Regimen NOT RIPE/HRZE, Why Not?:

Other 32. If Initial Drug Regimen NOT RIPE/HRZE, Why Not?:

33. Isolate submitted for genotyping?

- VDH TB will complete this item.

33. Isolate Submitted for Genotyping:

Accession Number for Genotyping:

All cases with a culture positive TB result should have an isolate forwarded (or originating) at DCLS which will be submitted for genotyping.

Updated

34. Was phenotypic/growth-based drug susceptibility testing done?

- Indicate if phenotypic DST was performed (only possible if the patient had a culture positive result).
- If performed, provide susceptibility results for each drug.

If any degree of resistance is reported on the lab result, select "Resistant"

Include initial results from unique combinations of drug tested and specimen types. The goal is to capture any resistance that is known.

34. Was phenotypic/growth-based drug susceptibility testing done?

IF YES, provide test results (For the initial susceptibility testing please send a response for each test type in the value set. Changes in susceptibility should be reported for

Phenotypic Drug Susceptibility Testing Information

Drug Name	Date Collected	Date Reported	Specimen Source
No Data has been entered.			

Standard Susceptibilities (4)
Mark Rest 'Not Done'

Drug Name:

Other Drug Name:

Date Collected:

Date Reported:

Specimen Source:

Other Specimen Source:

Result:

Test Method (Optional):

Other Test Method (Optional):

Clear



Click to edit

Click to delete

34. Was phenotypic/growth-based drug susceptibility testing done?

Standard Susceptibilities (4)

Mark Rest 'Not Done'

Drug Name:

Other Drug Name:

Date Collected:

Date Reported:

Specimen Source:

Other Specimen Source:

Result:

Test Method (Optional):

Other Test Method (Optional):

Clear

Genotyping And Drug Susceptibility Testing

Enter Default Values

The values entered here will be applied to each row added.

Date Collected:

Date Reported:

Specimen Source:

Other Specimen Source:

Test Method (Optional):

Other Test Method (Optional):

Submit Cancel

Do not complete

Click "submit" when finished

Drug Susceptibility Testing

34. Was phenotypic/growth-based drug susceptibility testing done?:

IF YES, provide test results (For the initial susceptibility testing please send a response for each test type in the value set. Changes in susceptibility should be reported for each individual drug when change is identified).

Phenotypic Drug Susceptibility Testing Information

Drug Name	Date Collected	Date Reported	Specimen Source	Result
Ethambutol	10/01/2023	10/09/2023	Sputum	Susceptible
Isoniazid	10/01/2023	10/09/2023	Sputum	Susceptible
Pyrazinamide	10/01/2023	10/09/2023	Sputum	Susceptible
Rifampin	10/01/2023	10/09/2023	Sputum	Susceptible

Exercise

The following first-line DST results are received on August 21 from Lab #1 and second-line results are received September 19 from Lab #2:

Results from Laboratory #1	Results from Laboratory #2
<ul style="list-style-type: none"> • INH – Low-level resistance • Rifampin – No resistance • Pyrazinamide – No resistance • Ethambutol – Resistance • Streptomycin – Testing not done 	<ul style="list-style-type: none"> • Rifabutin – Resistance • Rifapentine – Testing not done • Ethionamide – Not known if test was done • Amikacin – Susceptible • Kanamycin – Testing not done

What initial DST results should be entered into VEDSS?

Isoniazid: **Resistant**

Rifabutin: **Resistant**

Rifampin: **Susceptible**

Rifapentine: **Not Done**

Pyrazinamide: **Susceptible**

Ethionamide: **Unknown**

Ethambutol: **Resistant**

Amakacin: **Susceptible**

Streptomycin: **Not Done**

Kanamycin: **Not Done**

New

35. Was genotypic/molecular drug susceptibility testing done?

- VDH TB will complete this item.
- Indicates if genotypic or molecular DST was performed.
 - GeneXpert (rpoB), MDDR testing at CDC, etc.
- If performed, provide results for each gene.

Molecular Drug Susceptibility Information

Gene Name	Date Collected	Date Reported	Specimen Source Site	Result	Notes
No Data has been entered.					

Gene Name:

Other Gene Name:

Date Collected:

Date Reported:

Specimen Source Site:

Other Specimen Source Site:

Result:

Nucleic Acid Change:

Amino Acid Change:

INDEL:

Test Type:

Other Test Type:

35. Was genotypic/molecular drug susceptibility testing done?

**Results for Molecular Detection of Drug Resistance (Pyrosequencing; INH and RMP only);
Conventional Drug Susceptibility Test in progress.**

Drug	Locus *	Result	Interpretation
Rifampin	rpoB	No mutation	Probably Rifampin susceptible. (97% of RMP-R isolates in our in-house evaluation of 550 clinical isolates have a mutation at this locus.)
Isoniazid	inhA	No mutation	Isoniazid resistant. (100% of isolates in our in-house evaluation of 550 clinical isolates with this mutation are INH-R.)
	katG	Mutation: AGC>ACC, Ser315Thr	
	fabG1	No mutation	

*A negative result (e.g., no mutation) does not rule out contributory mutations present elsewhere in the genome.

GENEXpert

Date Released: 01/27/2020

Mycobacterium tuberculosis complex DNA detected by direct specimen Nucleic Acid Amplification Test.
No rpoB gene mutations detected by direct specimen Nucleic Acid Amplification Test; probably Rifampin susceptible.
Comment: Results from the MTB/RIF test should be interpreted in conjunction with other laboratory and clinical data. If test results do not match clinical signs and symptoms, additional testing may be warranted. A result of "Mycobacterium tuberculosis complex DNA Not Detected" does not exclude the possibility of isolating a Mycobacterium tuberculosis complex organism from the specimen. Additionally, a result of "No rpoB gene mutations detected; probably Rifampin susceptible" does not exclude the possibility of Rifampin resistance. Test results may be affected by inhibitors and variability in specimen collection and transport.

35. Was genotypic/molecular drug susceptibility testing done?

Drug Name	Gene name
Isoniazid	<i>katG</i>
Rifampin	<i>rpoB</i>
Pyrazinamide	<i>pncA</i>
Ethambutol	<i>embB</i>
Bedaquiline	<i>atpE, rv0678, pepQ</i>
Second line injectables (kanamycin, amikacin, capreomycin)	<i>rrs</i>

New

36. Was the patient treated as an MDR case (regardless of DST results)?

- **Yes** – patient was treated as an MDR TB case at any point during their therapy (e.g., clinical diagnosis of TB with known contact to an MDR TB case)
 - Do not select “Yes” if second-line TB drugs were used for reasons other than presumed or confirmed resistance (e.g., drug shortage, drug intolerance, interactions, etc.)
- **No** – the patient was not treated as an MDR TB case
- **Unknown**

If “Yes” is selected, the **MDR TB Supplemental Tab** must be completed.


36. Was the Patient Treated as an MDR TB Case Regardless of DST Result:


 

37. Sputum culture conversion documented?

- Complete this item for patients who had an initial positive sputum culture.
 - **Yes** – Initial sputum specimen was culture positive followed by at least one negative sputum culture after which there are no additional positives.
 - **No** – Initial sputum specimen was culture positive and no subsequent sputum specimens were culture-negative
 - **Unknown** – results of follow-up cultures are not known or it is not known whether follow-up cultures were done.

Sputum Culture Conversion Documented

37. Sputum Culture Conversion Documented?: 

If Yes, date specimen collected for FIRST consistently negative sputum culture: 

If No, reason for not documenting sputum culture conversion:

Other If No, reason for not documenting sputum culture conversion:

The specimen captured as the conversion specimen collection date should not be in the initial set of sputa.

If there are any positive sputum cultures after what is considered sputum culture conversion, the sputum culture “calendar”/“calculator” resets.

37. Sputum culture conversion documented?

- If conversion was not documented, selected the most appropriate reason:

Option (select one)	Description
No follow-up sputum despite induction	Repeat sputum collection was attempted (including induced sputum collection), but because of clinical improvement, patient was not able to produce sputum.
No follow-up sputum and no induction	Repeat sputum collection was attempted, but induced sputum collection was not attempted and patient was not able to produce sputum.
Died	Patient died before having an opportunity to submit sputum to document whether the sputum culture had converted.
Patient lost to follow-up	Patient was lost to follow-up before having an opportunity to submit a sputum to document whether the sputum culture had converted.
Patient refused	Patient refused to provide a sputum specimen for a repeat culture.
Other (specify)	A reason not included in the above choices (e.g., treatment failed or the patient moved outside the United States).
Unknown	It is not known why a repeat sputum culture was not obtained.

Recommended Sputum Sample Collection Schedule for Monitoring Smear and Culture Conversion in Pulmonary Cases

Virginia Department of Health Tuberculosis Program

Purpose	Monitoring	Frequency	Number of specimens	Comments
Determine infectiousness and Confirmation of TB disease	Initial contact with client	Collect 3 consecutive specimens	<p>Minimum of 3 samples, with one collected in the early morning.</p> <p>If diagnosis was confirmed before the client was reported, collect 3 additional specimens to determine if infectious.</p>	<p>At least one specimen collection should be observed/coached by HD staff.</p> <p>At minimum, samples should be at least 8 hours apart.</p> <p>Guidance for high quality sputum collection.</p> <p>Submit specimens to the lab as soon as possible. Do not hold and submit specimens in a batch.</p>
Establish the <u>earliest date</u> a client can be considered non-infectious and can be removed from isolation	Smear conversion or smear improvement*	<p>Collect one specimen every 7–10 days; with maximum of 3/month</p> <p>One specimen should be collected 55-60 days after treatment initiation</p> <p>If urgent to remove from isolation, upon the first negative smear follow with collecting one every other day. If any have a positive smear resume 7-10 day frequency</p>	<p>Total number of specimens will vary from client to client.</p> <p>When there is evidence of increasing difficulty with spontaneous sputum production collect a specimen every 7 days, not every 10 days</p>	<p>Single specimens should be observed by HD staff when feasible.</p> <p>Collecting a specimen 55 – 60 days after treatment initiation provides valuable information about treatment response</p> <p>Additional criteria to release from isolation “Controlling Tuberculosis in the United States,” 11/4/2005, Vol. 54, No. RR- 12, Page 9, Box 3</p>
Monitor for response to treatment and Determine need for extension of treatment	Culture conversion	<p>Collect one sample every 7-10 days, with maximum of 3/month, until 2 consecutive sputum <u>cultures</u> are negative with no positive culture results thereafter.</p> <p>Continue monthly collection until treatment completion for: Rifamycin resistance; MDR/XDR-TB; HIV+</p>	Until 2 consecutive sputum <u>cultures</u> are negative with no positive culture results thereafter.	<p>Single specimens should be observed by HD staff when feasible.</p> <p>If unable to produce sputa spontaneously, several 20 minute induction attempts on different days, including early AM, should be undertaken before deciding that a client can no longer produce sputum.</p>

Exercise

Jose's has the following sputum culture results. Based on this information, what would you select as the collection date for the culture conversion?

- Collection 1:
 - Coll. 9/1/2023 – culture positive
 - Coll. 9/2/2023 – culture positive
 - Coll 9/2/2023 – culture negative
- Collection 2:
 - Coll 9/9/2023 – culture negative
- Collection 3
 - Coll 9/17/2023 – culture negative
- Collection 4
 - Coll 10/1/2023 – culture negative

Updated

38. Moved during therapy?

- Document if the patient moved to an area where another reporting area must now provide or coordinate TB care (i.e., out of the state or out of the United States).
 - This variable no longer captures movement within the state

38. Moved During Therapy?: Yes

(Use Ctrl to select more than one)

Out of State
Out of United States

Selected Values: Out of State

If Yes, Moved to Where (select all that apply)?:

If Out of State, Specify Destination: New Hampshire

If Out of Country, Specify Destination:

Transnational Referral Made?:

If patient moved to another state or out of the country, specify the new state or country. If the patient moved out of the country, indicate if a transnational referral was made, such as through CureTB.


Updated

38. Moved during therapy? – Examples

Moved from	Moved to	Select
Arlington, VA	Richmond, VA	Do not report as moved
Fairfax, VA	Boston, MA	Out of State
Roanoke, VA	Guam	Out of State
Norfolk, VA	Brazil	Out of the U.S.

39. Date therapy stopped

- The last date the patient took TB medications

39. Date Therapy Stopped: 

The interval between **Date Therapy Started** and **Date Therapy Stopped** is meant to encompass the entire period (including interruptions in therapy) that the patient was receiving medications.

Updated

40. Reason therapy stopped or never started?

- **Completed therapy** – If clinician determines that the patient has completed adequate therapy (sometimes this may be less than the planned duration of treatment).
- **Lost** – The patient could not be located either before the start or the for the completion of treatment.
- **Patient choice** – Patient refused to start or complete therapy (previously “uncooperative or refused”)
- **Adverse treatment event** – therapy permanently stopped due to an adverse event due to TB medications
- **Not TB** – Complete diagnostic evaluation did **not** substantiate the diagnose of TB (e.g., *M. bovis* BCG was isolated from clinical specimen, alternate dx, etc.)
- **Died** – Patient was alive at diagnosis but died either before the start or prior to completing treatment
- **Dying** – Treatment was stopped or never started by clinician or at patient request because patient’s condition was terminal and death was imminent.
- **Other** – Therapy was discontinued for some other reason (including that the patient moved out of the United States)
- **Unknown**

If patient leaves the United States during treatment and completion **cannot** be verified through CureTB or through VET, select “**Other**”

40. Reason Therapy Stopped or Never Started:

Other 40. Reason Therapy Stopped or Never Started:

Updated

41. Reason TB therapy extended >12 months, if applicable?

41. Reason TB Disease Therapy Extended Beyond 12 Months, If Applicable (select all that apply):

(Use Ctrl to select more than one)

Adverse Drug Reaction
Clinically Indicated for Reasons Other Than Above
Failure
Inability to Use Rifampin
Nonadherence

Selected Values:

- **Inability to use rifampin (resistance, intolerance, etc.)** – Rifampin, or another rifamycin such as rifabutin) could not be used to treat the patient (e.g., drug-resistant TB, rifampin intolerance), resulting in treatment protocol lasting more than 12 months.
- **Adverse drug reaction** – Patient had a significant adverse drug reaction or experience an adverse treatment event from TB medications (other than a rifamycin) that prolonged therapy.
- **Nonadherence** – There were barriers to the patient's adherence to TB treatment (e.g., treatment interruption), resulting in extension of therapy beyond 12 months.
- **Failure** – A culture tested positive 4 or more months after treatment began, resulting in prolonged therapy.
- **Clinical indicated (other reasons)** – Clinical indications (other than adverse drug reactions) include central nervous system TB (e.g., meningitis, severe liver disease, or other criteria specified by the clinician).
- **Other (specify)**
- **Unknown**

The 12 month time period is calculated using date therapy started and date therapy stopped, so it includes treatment interruptions, etc.

Updated

42. Treatment administration

- **DOT** – Select if directly observed therapy was used for any doses for the patient.
- **EDOT** – Select if electronic DOT (i.e., VET – video enhanced therapy), was used to document adherence to the medication regimen for any doses.
- **Self-administered** – Select if any doses of medication were taken by the patient not under DOT or eDOT (including weekend doses).

Select all that apply. For many Virginia clients, all three will be selected.

42. Treatment Administration (select all that apply):

(Use Ctrl to select more than one)


Directly Observed Therapy (DOT)
Electronic DOT (Video Enhanced Therapy)
Self-Administered
Unknown


Selected Values:


New


43. Did the patient die (either before diagnosis or at any time while being followed by TB program?)

- **Yes** – The patient died for any reason either before the TB diagnosis was made or at any point after TB diagnosis while being followed by the TB program.
 - If “Yes” selected, record the date of death
 - If “Yes” selected, indicate if TB or complications of TB treatment contributed to death
- **No** – The patient was alive at the time that the TB program stopped following the patient.

Mortality Information As Of Date: 

43. Did the Patient Die (either before diagnosis or at any time while being followed by TB program): 

Date of Death: 

Did TB or Complications of TB Treatment Contribute to Death?: 

MDR Supplemental Tab

- **Complete, regardless of DST results, for cases treatment with MDR TB medications including patients:**
 - Confirmed to have MDR TB (or XDR TB) through laboratory evidence of resistance to at least isoniazid and rifampin **or**
 - Presumed to have MDR TB (e.g., contact to known MDR-case), **or**
 - Not thought to have MDR TB, but are treated with second-line TB drugs for other reasons (e.g., drug shortage, drug intolerance, interactions, adverse events).

New

MDR Supplemental Tab

indicates a required field

- Patient
- Case Info
- Tuberculosis
- TB Disease Only
- MDR TB
- LTBI Only
- Contact Tracing
- Contacts
- Contact Records
- Supplemental Info

Multi-Drug Resistant (MDR) [Back to top](#)

[Collapse Subsections](#)

MDR Treatment Course

1. History of Treatment Before Current Episode:

2. Date MDR TB Therapy Started for Current Episode:

3. Drugs Ever Used for MDR Treatment

Drug	Length of Time Administered
No Data has been entered.	

Drug:

Other Drug:

Length of Time Administered:

Add

MDR Treatment Course Continued

4. Date Injectable Medication Stopped (If no injectable drugs were used leave blank.):

5. Was Surgery Performed to Treat MDR TB?:

If Yes, Date of Surgery:

6. Side Effects

Side Effect	Side Effect Experienced	When?
No Data has been entered.		

Side Effect:

Other Side Effect:

Side Effect Experienced:

When?:

Add

MDR Supplemental Tab

Complete for all patients who are:

- Confirmed to have MDR TB (or XDR TB) through laboratory evidence of resistance to at least isoniazid and rifampin **or**
- Presumed to have MDR TB (e.g., contact to known MDR-case), **or**
- Not thought to have MDR TB, but are treated with second-line TB drugs for other reasons (e.g., drug shortage, drug intolerance, interactions, adverse events).

1. History of Treatment before current episode

- Patient self-report of treatment for a previous episode of MDR TB disease is acceptable if documentation is not available.

2. Date MDR TB therapy started for current episode

- Date the patient first began a drug regimen containing at least two second-line drugs.

1. History of Treatment Before Current Episode:









2. Date MDR TB Therapy Started for Current Episode:



3. Drugs ever used for MDR Treatment

3. Drugs Ever Used for MDR Treatment

Drug			Length of Time Administered
		 Amikacin	Not Taken
		 Bedaquiline	>=1 month

Drug:

Other Drug:

Length of Time Administered:


- Provide a response for all drugs in the drop down (there is no autofill option).
- This should reflect treatment for the current episode.
- Duration of therapy is cumulative.


4. Date injectable medication was stopped


- Provide the last date the injectable was given.
- If patient never received injectables, leave blank.

5. Was surgery performed to treat MDR TB?

- Indicate if surgery was performed as part of MDR treatment, and if so, the date, or an estimated date, of the surgery.
- A biopsy done to diagnose MDR TB is not considered surgery for treatment, but excisional biopsy for the treatment of extrapulmonary TB is considered surgical treatment.

4. Date Injectable Medication Stopped (If no injectable drugs were used leave blank.): 

5. Was Surgery Performed to Treat MDR TB?: 

If Yes, Date of Surgery: 

New

6. Side effects

- Provide a response for each possible side effect in the drop down (there is no autofill option) and if experienced indicate if it was during treatment or after the treatment was stopped, or both.

6. Side Effects

			Side Effect	Side Effect Experienced	When?
			Arthralgia	No	
			Cardiac Abnormalities	Yes	During Treatment
			Depression	Yes	End of Treatment

Side Effect:

Other Side Effect:

Side Effect Experienced:

When?:

Contact Tracing Tab

- Captures contact investigation information and comments
- VDH TB enters when 502 submitted

Patient	Case Info	Tuberculosis	TB Disease Only	MDR TB	LTBI Only	Contact Tracing	Contacts	Contact Records	Supplemental Info
<input type="checkbox"/> Contact Investigation Collapse Subsections									
<input type="checkbox"/> Risk Assessment									
<div style="text-align: right;"> Contact Investigation Priority: <input type="text"/> ▼ Infectious Period From: <input type="text"/> 📅 Infectious Period To: <input type="text"/> 📅 </div>									
<input type="checkbox"/> Administrative Information									
<div style="text-align: right;"> Contact Investigation Status: <input type="text"/> ▼ Contact Investigation Comments: <input style="width: 100%; height: 100%;" type="text"/> </div>									

Contacts Tab

- Captures summary contact investigation information
- VDH TB enters when 502 submitted

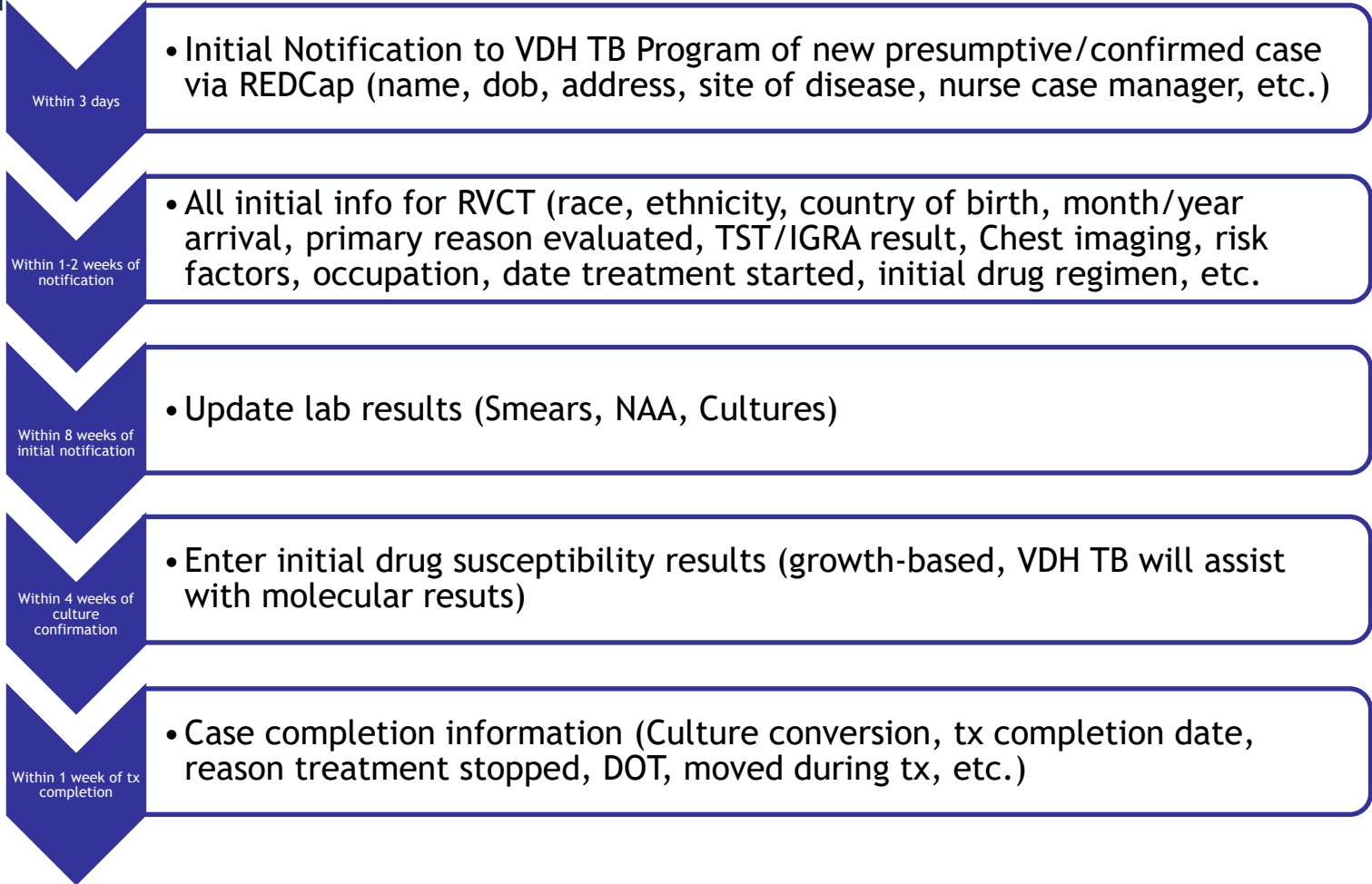
Patient	Case Info	Tuberculosis	TB Disease Only	MDR TB	LTBI Only	Contact Tracing	Contacts	Contact Records	Supplemental Info
<div style="border: 1px solid #ccc; padding: 5px;"> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 20%;"> <p><input type="checkbox"/> Custom Fields</p> <p>Collapse Subsections</p> <p><input type="checkbox"/> Contact Counts</p> </div> <div style="width: 80%; padding-left: 20px;"> <p>Number of Contacts: <input type="text"/></p> <p>Number Evaluated: <input type="text"/></p> <p>Number with TB Disease: <input type="text"/></p> <p>Number with Latent TB Infection: <input type="text"/></p> <p>Number Started LTBI Treatment: <input type="text"/></p> <p>Number Completed LTBI Treatment: <input type="text"/></p> </div> </div> </div>									
<div style="border: 1px solid #ccc; padding: 5px;"> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 20%;"> <p><input type="checkbox"/> Reason LTBI Treatment Not Completed</p> </div> <div style="width: 80%; padding-left: 20px;"> <p>Death: <input type="text"/></p> <p>Contact Moved: <input type="text"/></p> <p>Active TB Developed: <input type="text"/></p> <p>Adverse Effect of Medicine: <input type="text"/></p> <p>Contact Chose to Stop: <input type="text"/></p> <p>Contact is Lost to Follow-up: <input type="text"/></p> <p>Provider Decision: <input type="text"/></p> </div> </div> </div>									

Supplemental Info Tab

- Shows associated labs, morbidity reports, uploaded documents, etc.

Patient	Case Info	Tuberculosis	TB Disease Only	MDR TB	LTBI Only	Contact Tracing	Contacts	Contact Records	Supplemental Info										
Go to: Associations Notes and Attachments History Collapse Sections																			
<input type="checkbox"/> Associations Collapse Subsections																			
<input type="checkbox"/> Associated Lab Reports <table border="1"> <thead> <tr> <th>Date Received</th> <th>Reporting Facility/Provider</th> <th>Date Collected</th> <th>Test Results</th> <th>P</th> </tr> </thead> <tbody> <tr> <td colspan="5">Nothing found to display.</td> </tr> </tbody> </table>										Date Received	Reporting Facility/Provider	Date Collected	Test Results	P	Nothing found to display.				
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<input type="checkbox"/> Associated Morbidity Reports <table border="1"> <thead> <tr> <th>Date Received</th> <th>Condition</th> <th>Report Date</th> <th>Type</th> <th>Obse</th> </tr> </thead> <tbody> <tr> <td colspan="5">Nothing found to display.</td> </tr> </tbody> </table>										Date Received	Condition	Report Date	Type	Obse	Nothing found to display.				
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<input type="checkbox"/> Notes <table border="1"> <thead> <tr> <th>Date Added</th> <th>Added By</th> <th>Note</th> </tr> </thead> <tbody> <tr> <td colspan="3">Nothing found to display.</td> </tr> </tbody> </table>										Date Added	Added By	Note	Nothing found to display.						
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Date Added	Added By	File Name	Descrip																
Nothing found to display.																			

**Data
entry
timeline**



Coming soon in 2024: LTBI

Patient	Case Info	Tuberculosis	TB Disease Only	MDR TB	LTBI Only	Contact Tracing	Contacts	Contact Records	Supplemental Info
<p><input type="checkbox"/> TBLISS Specific Questions</p> <p>Collapse Subsections</p> <p><input type="checkbox"/> LTBI Treatment and Outcome</p>									
<p>Was LTBI Treatment Offered: <input type="text"/></p> <p>25. LTBI Therapy Started?: Yes <input type="text"/></p> <p>Treatment Start Date: <input type="text"/></p> <p>Specify Initial LTBI Regimen: <input type="text"/></p> <p>Other Specify Initial LTBI Regimen: <input type="text"/></p> <p>Treating Provider Type: <input type="text"/></p> <p>Other Treating Provider Type: <input type="text"/></p> <p>Why LTBI Treatment Not Started: <input type="text"/></p> <p>Other Why LTBI Treatment Not Started: <input type="text"/></p> <p>26. Date Therapy Stopped: <input type="text"/></p> <p>(Use Ctrl to select more than one)</p> <p>27. Treatment Administration (LTBI): <input type="text"/></p> <p>Selected Values:</p> <p>28. Reason LTBI Therapy Stopped: <input type="text"/></p> <p>Other 28. Reason LTBI Therapy Stopped: <input type="text"/></p> <p>NTSS State Case Number should be entered as 4 digit report year+ 2 letter state abbreviation + 9 digit alphanumeric number</p> <p>NTSS state case number (YYYY-GA-ABCD56789): <input type="text"/></p> <p>(Use Ctrl to select more than one)</p> <p>Severe Adverse Event (select all that apply): <input type="text"/></p> <p>Selected Values:</p>									
<p>PLEASE IMMEDIATELY REPORT ALL ADVERSE EVENTS RESULTING IN HOSPITALIZATION OR DEATH TO CDC AT LTBIIDRUGEVENTS@CDC.GOV</p> <p>Client Initially Worked Up as a Presumptive TB Case but Active Disease Ruled Out: <input type="text"/></p>									

Questions?

- Contact Laura Young
 - laura.r.young@vdh.virginia.gov
 - 804-836-6059
- You can also always email tuberculosis@vdh.virginia.gov