**Report of Verified Case of Tuberculosis (RVCT)**

*Contribution and Effort for these resources were made by Pravin Tahiliani*

# 1.0 Introduction

Tuberculosis (TB) is a nationally notifiable communicable disease, and reporting is mandated in all states. The surveillance system is designed to collect information on new and active cases of TB disease from the Centers of Disease Control and Prevention (CDC) using the report of Verified Case of Tuberculosis. Data is collected by state and local agency programs and submitted electronically to CDC, Division of Tuberculosis Elimination (DTBE). These data points are used to monitor national TB trends, identify priority needs, and create the annual surveillance report.

The state and local agencies must be able to monitor the TB disease in high-risk populations, as well as identify new patterns of disease and possible outbreaks using contact tracing to control and eliminate TB.

The RVCT data message includes changing epidemiological TB in terms of risk factors, new drug treatments, and enhanced laboratory capacity for diagnostic tests.

All TB episodes are tracked and reported by the message which includes a person meeting the laboratory or clinical criteria for TB.

# 2.0 Tuberculosis Surveillance Data

Every RVCT message collects data that is unique to their jurisdiction. Identifying information is tagged as PII protecting these data elements using strict data security standards and only data which can be shared can be sent to receiving agencies. Locally assigned case numbers are used for case identification and State and Local case numbers are used by CDC to identify cases when communicating with state or local agencies. The State case number helps to identify a person with TB who has been transferred from one health jurisdiction (example state) to another, and when trying to link TB cases (contact tracing).

## 2.1 Impact of RVCT Data

The TB control program gathers accurate and useful data including risk factors which is essential to efficient and effective TB program management.

The RVCT data facilitates the following benefits.

* Patient services for quality care, continuity of care, sharing of accurate information with patients and health facilities.
* Follow-up services to patients.
* Resource allocation for staff, facilities, drugs, supplies, and benefits.
* Contact investigation and tracing.
* Passive and Active Surveillance Data
* Measurement of the effectiveness of the TB program using case outcomes.

# 3.0 Features

Datovy’s case management system is used by case managers for public health surveillance to track intake, assessment, case investigation, case tracking and contact tracking, and outreach to record clients’ progress through programs to deliver the appropriate services and care to the community.

|  |  |
| --- | --- |
| Feature | Description |
| Case Management | Tuberculosis case definition for public health surveillance. |
| Assessment | Assessments with scores and sub scores. |
| Reporting | Reporting and counting tuberculosis cases. |
| Location | Reporting region. |
| Drugs and Resistance | Anti-TB drug names and genes associated with drug resistance. |
| Clinical | Clinical, diagnosis, treatment, laboratory, drug susceptibility testing and reporting. |
| Surveillance | Surveillance details. |
| Anatomy | Anatomic sites. |
| Outcomes | Program outcomes. |
| Medication | Medication dosage, list, and schedule. |
| Referral | Incoming and outgoing referrals, tasks, reminders, and events. |
| Benefits | Benefits, cost, and utilization of benefits to clients. |

4.0 Roadmap

The major features in focus for the next release include:

* The RVCT message to collect the information applicable to all jurisdictions in the United States for TB and LBTI (Latent Tuberculosis Infection) based on jurisdiction applicable message formats.
* Multidrug resistant (MDR) surveillance form will also be included in the data collection report.
* Integration with external agencies to send TB messages based on contract.
* Dashboard reports for internal agency viewing with logo and print option.
* Billing and reporting by encounters to state or other external agencies.

# 5.0 RVCT Schema

The companion XSD schema can be found under the Open Source Edam Studio (ES) project file:

[Datovy.Edam/RVCT\_Extension\_Document.xsd at main · esobrino/Datovy.Edam · GitHub](https://github.com/esobrino/Datovy.Edam/blob/main/Edam.App.Data/Projects/Datovy.HC.RVCT/Files/RVCT_Extension_Document.xsd)

Within ES related project call “Datovy.HC.RVCT” you may find other resources generated by the application including JSON schema, DDL, Excel Workbook dictionary and others. Optionally you could use ES to generate those as needed. Locate ES in:

[GitHub - esobrino/Datovy.Edam: Datovy Enterprise Data Asset Management](https://github.com/esobrino/Datovy.Edam)

# Links and References

[1] RVCT CDC Form

[Report of verified case of tuberculosis (cdc.gov)](https://www.cdc.gov/tb/programs/rvct/rvct-form.pdf)

[2] CDC Communicable Disease Messages

<https://ndc.services.cdc.gov/mmgpage/tuberculosis-and-latent-tb-infection-message-mapping-guide/>