Appendix B: Glossary

Term	Chapter	Definition
	Number	
Acid-fast bacilli	5	Microscopic examination of a specimen (e.g., sputum) or a
(AFB) smear		processed sediment for detection of AFB. The most common
		method uses fluorescence staining. AFB-smear microscopy is
		not specific for <i>M. tuberculosis</i> complex. AFB-smear
		microscopy may also be performed to verify the presence of
		AFB in positive cultures prior to confirmatory species
		identification.
Active	4	Health departments actively contact and interact with healthcare
surveillance		facilities or individual providers to stimulate disease reporting,
		sometimes directly assuming the primary responsibility of
		reporting cases from large or high-volume institutions.
Calculated	5, 9	CDC-developed variables, calculated from existing information,
variable		to simplify certain algorithms.
Case detection	3, 4	Detection of one instance of a specific disease or exposure, e.g.,
		TB. A front-line surveillance activity, it is typically
		accomplished as a by-product of routine medical or veterinary
		care, or laboratory work, or via an astute observer such as a
		health care worker.
Case	3, 5	An RVCT calculated variable used for verifying a TB case.
Verification		
Criteria		
(VERCRIT)		
CDC data	2	CDC database used for reporting and analysis. The data stored
warehouse		in the warehouse are uploaded from the operational systems and
		may pass through an operational data store for additional
		operations before they are used for reporting.
Clinical	5	Material taken directly from the patient (e.g., sputum,
specimen		cerebral/spinal fluid, pleural fluid, or lung biopsy specimen).
Cohort	9	A group of TB patients managed over a specific period of time,
		usually 3 months.

Term	Chapter	Definition
~ -	Number	
Cohort review	9	A systematic review process for managing patients. TB cases in
		a specific cohort are reviewed for the patient's clinical status,
		the adequacy of the medication regimen, treatment adherence or
		completion, and the result of contact investigation.
Commercial	5, 6, 9	A web-based surveillance system developed by a private
surveillance		company.
software		
Completion of	5	Therapy is completed within one year from start of treatment or
therapy (COT)		as indicated by the patient's medical provider.
Content	2	Process used to validate state-generated Health Level 7 (HL7)
validation		2.5 TB case notification messages (e.g., date of birth occurs
		before the date of death).
Country of birth	9	The country where a person was born. See RVCT item 12. For a
(COB)		more detailed explanation see Report of Verified Case of Tuberculosis
		(RVCT): Self-Study Modules, RVCT item 12 – Country of Birth
		http://www.cdc.gov/tb/programs/rvct/default.htm.
Country of	6, 9	A calculated variable that combines the responses for RVCT
origin		item 12, Country of Birth, to determine U.Sborn or foreign-
		born status. The reason for this calculation is to obtain rates
		using the only available population estimates from the U.S.
		Census Bureau's American Community Survey.
Data accuracy	3,5	The data submitted matches patient records maintained at the
		point of care. The recorded data in the surveillance system are
		consistent with what happens in a clinical encounter, whether or
		not it is clinically appropriate.
Data	3, 6, 9	A measure that indicates whether the information submitted
completeness		contains the complete set of mandatory data items.
Data	3, 8	The protection of personally identifiable information collected
confidentiality		by public health organizations.
Data quality	3	The accuracy and completeness of the data recorded in the TB
		surveillance system.
Data security	3, 8	The protection of public health data and information systems to
	, ,	prevent unauthorized release of identifying information and
		accidental loss of data or damage to the systems.
	l	, , , , , , , , , , , , , , , , , , ,

Term	Chapter	Definition
	Number	
Data timeliness	3, 7	Prompt reporting of surveillance data to health authorities.
Data validation	5	The process of verifying that the data provided originate from
		valid data. The process can be used to calculate the percent
		discordance between the TB patients' medical records and the
		surveillance system data.
Decline in	4	A large, unexpected decline in TB cases beyond the statistically
reported		expected range.
tuberculosis		
Direct detection	5	Rapid detection (usually 2 days) of nucleic acid (e.g., RNA or
		DNA) sequences of interest in organisms present in a clinical
		specimen. Nucleic Acid Amplification (NAA) test is an example
		of direct detection.
Discordance	5	The data entered in the system are different from the data in the
		patient's medical records.
Electronic	5, 6, 9	A web-based surveillance system for reporting TB cases
Report of		developed by CDC's DTBE and available to all reporting
Verified Case of		jurisdictions. The system is based on the RVCT form.
Tuberculosis		
(eRVCT)		
Final TB Case	7	Reporting jurisdiction's final TB case count transmitted in April.
Count		It includes the RVCT; Follow-up 1 Report (Initial Drug
		Susceptibility Report); and Follow-up 2 Report (Case
		Completion Report for previous 2 years). For example: RVCT
		2012, Follow-up 1 2012, Follow-up 2 2011). Only countable
		cases are included.
Firewall	2	A computer software program or hardware with a predetermined
		set of rules that controls the incoming and outgoing network
		traffic. Data are analyzed to determine whether they should be
		allowed through or not. A network's firewall builds a bridge
		between an internal network that is assumed to be secure and
		trusted, and another network, usually an external network, such
		as the Internet, that is not assumed to be secure and trusted.

Term	Chapter	Definition
	Number	
Genotype	9	A specific genetic pattern or strain that is detected by one or
		more of the genotyping techniques used for <i>M. tuberculosis</i> :
		spoligotyping, MIRU-VNTR analysis, or IS6110-based RFLP.
		National terminology for genotype is based on either
		spoligotype and 12-locus MIRU-VNTR (PCRType, e.g.,
		PCR00002), or spoligotype and 24-locus MIRU-VNTR
		(GENType, e.g., G00011). GENType is routinely available for
		all culture-confirmed TB cases reported after April 2009.
Genotyping	9	The tracking number assigned to each TB isolate received by a
Accession		genotyping laboratory. Accession numbers are formatted as a 2-
Number		digit year, followed by either an L or RF depending on which
		genotyping lab assigned the number, and a unique 4-digit
		number that is assigned sequentially (e.g., 06L1058, 11RF0005,
		12L3788). The California genotyping laboratory assigns L, and
		the Michigan laboratory assigns RF in their accession numbers.
Genotyping	9	The laboratories funded by CDC to provide TB genotyping
laboratories		services to state and local TB control programs. For 2004-2013,
		these laboratories are located at the Michigan Department of
		Community Health and the California Department of Health
		Services.
Health Level 7	2, 5	A code developed to promote and facilitate use of international
(HL7) code		healthcare informatics interoperability standards. HL7 code
		provides a framework (and related standards) for the exchange,
		integration, sharing, and retrieval of electronic health information.
Indicators	9	
Indicators	9	Measures for assessing performance or progress of a program or
International	4	activity. A standardized classification of diseases, injuries, and causes of
Classification of	4	death, by etiology and anatomic localization, and codified into a
Disease, 9 th		6-digit number, which allows clinicians, statisticians, policy
edition, Clinical		makers, health planners, and others to speak a common
Modification		language, both in the United States and internationally. Note
(ICD) 9 codes		that ICD codes are updated periodically.
Invalid, Missing	6, 9	RVCT variables that are either invalid, missing, or unknown.
and Unknown	0, 7	1 2. variables that are eliter invalid, inissing, or unknown.
(MUNK)		
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Term	Chapter	Definition
2 01 111	Number	2 VIIIIVAVII
Isolate	5	A sample from a specimen that was identified as a certain
		organism such as <i>M. tuberculosis</i> complex from a culture.
		Culture media may be solid (e.g., Lowenstein-Jensen [LJ] or
		Middlebrook) or liquid (e.g., MGIT, VersaTrek, BacTAlert,
		7H9 broth).
Linking	9	The process of connecting a TB genotype result from a specific
		isolate to the corresponding surveillance record for the patient
		that was the source of that isolate. Linking in the context of
		genotyping is different from RVCT item 3, Linking State Case
		Number.
Miliary	5	Miliary TB is a serious type of disease. It is based on a
tuberculosis		histological or radiologic finding, rather than a site of disease.
		The diagnosis is supported by the appearance on radiograph as a
		great number of small, well-defined nodules that look like millet
		seeds scattered throughout the lungs, hence the name "miliary."
Mycobacterium	5	The bacterium that causes tuberculosis. It has a waxy cell wall
tuberculosis		and is slow growing. It is sometimes called the tubercle bacillus.
Mycobacterium	5	In addition to <i>M. tuberculosis</i> , the complex includes seven other
tuberculosis		TB-causing mycobacteria: M. bovis, M. africanum, M. microti,
complex		M. canetti, M. caprae, M. pinnipedii, and M. mungi.
(MTBC)		
National	2, 5, 6, 9	A web-based surveillance system with an infrastructure
Electronic		developed by CDC that uses specific Public Health Information
Disease		Network (PHIN) and NEDSS messaging standards.
Surveillance		
System (NEDSS)		
National TB	2, 5, 6, 9	A monitoring system using standardized definitions, indicators,
Indicators		and calculations to track progress toward attaining national TB
Project (NTIP)		program objectives.
National TB	9	Objectives that reflect the national priorities for TB control in
Program		the United States.
Objectives		
National	2, 5, 6, 9	The only national repository of TB surveillance data in the
Tuberculosis		United States. NTSS receives data on TB cases from reporting
Surveillance		jurisdictions' web-based systems through a standardized data
System (NTSS)		collection form, the Report of Verified Case of Tuberculosis
		(RVCT).

Term	Chapter	Definition
	Number	
NTSS reporting	6, 9	All 50 U.S. states, the District of Columbia, New York City,
jurisdictions		American Samoa, the Federated States of Micronesia, Guam,
		the Republic of the Marshall Islands, the Commonwealth of the
		Northern Mariana Islands, Puerto Rico, the Republic of Palau,
		and the U.S. Virgin Islands.
Nucleic Acid	5	A technique that amplifies (copies) DNA or RNA segments, in
Amplification		order to directly identify microorganisms in sputum specimens.
(NAA)		
Overall	8	High-ranking official who accepts overall responsibility for
Responsible		implementing and enforcing data security standards. This
Party (ORP)		official should have the authority to make decisions about
		program operations that might affect programs accessing or
		using the data, and should serve as a contact for public health
		professionals regarding security and confidentiality policies and
		practices. The ORP is responsible for protecting data as they are
		collected, stored, analyzed, and released and must certify
		annually that all security program requirements are being met.
		The state's security policy must indicate the ORP(s) by name.
Passive	4	Health departments passively receive case reports from health
surveillance		care providers and are dependent on health care providers to
		comply with reporting requirements.
Percent	5	The calculation that divides the number of discordant records by
discordance		the number of records reviewed.
Personally	8	Any information about an individual maintained by an agency,
identifiable		including (1) any information that can be used to distinguish or
information		trace an individual's identity, such as name, social security
(PII)		number, date and place of birth, mother's maiden name, or
		biometric records; and (2) any other information that is linked or
		linkable to an individual, such as medical, educational, financial,
		and employment information.
Probe	5	A piece of single-stranded nucleic acid that hybridizes
		specifically to the complementary sequence of RNA or DNA in
		the sample. Probes are used to detect the presence of M .
		tuberculosis within a clinical specimen or culture.

Term	Chapter	Definition
Term	Number	Demittion
Provisional TB	7	Reporting jurisdiction's final total TB case count for the
Case Count	,	preceding year transmitted to CDC for the World TB Day
Case Count		Morbidity and Mortality Weekly Report (MMWR) publication
		in March of each year. Cases must meet case verification criteria
D 11' II . 141	2.5.6.0	for counting as a case. This includes countable cases only.
Public Health	2, 5, 6, 9	A standardized code used by computer programmers to assign
Information		TB data to a specified RVCT variables. These variable codes are
Network		essential in transmitting data to CDC. Several data issues have
(PHIN) code		been attributed to errors on data system programming involving
		PHIN codes. For example, if a code is incorrect, the data can
		disappear. If the data are all missing, check the PHIN Variable
		ID.
Public Health	2	Local, state, and federal governments use the Public Health
Information		Information Network Messaging System, PHINMS,
Network		(pronounced "fin em es") to rapidly and securely send messages,
Messaging		which contain sensitive health information, over the internet to
System		other organizations as well as to the CDC. The data are securely
(PHINMS)		encrypted to ensure patient information is protected.
Quality	3	A continuous process to improve TB surveillance data that
assurance		includes a continuous cycle of planning, doing, checking, and
		improving data quality.
Report of	2, 5, 6, 9	The NTSS standardized data collection form. Data are collected
Verified Case of		by 60 reporting jurisdictions and submitted electronically to
Tuberculosis		CDC. Data are used to monitor national TB trends, identify
(RVCT)		priority needs, and create the DTBE annual surveillance report,
		Reported Tuberculosis in the United States.
Secure Access	5, 6	A federal information technology system that gives authorized
Management	·	personnel secure, external access to non-public CDC
Services (SAMS)		applications.
Skip pattern	5	Data response pattern that allows one to skip automatically
		when data entered for a field is not expected.
State-built	6	A web-based surveillance system developed by a reporting
surveillance		jurisdiction.
system		
J		

Term	Chapter	Definition
	Number	
State Case	9	The official identification number for the case; commonly
Number		known as the RVCT number. If additional communication about
		a record is required between CDC and a reporting area, this
		number is used to identify the record.
Steps in a TB	7	Steps are suspecting TB disease, reporting to the local health
surveillance		department, verifying the TB case, counting the case,
system		identification of trends or outbreaks, or the effect of prevention
		and control measures.
Structural	2	This is part of a flexible message-quality framework of services
validation		and utilities designed to assist public health partners with
		preparing and communicating quality standard electronic
		messages, as defined by the applicable messaging standards.
		This is used to validate standard HL7 messages per defined
		message specification guidelines.
Submitter	9	A tracking number assigned to an isolate by a state public health
number		laboratory. The format of the submitter number varies by state.
		Most state laboratories refer to this as an accession number;
		however, it is not the same number as a "genotyping accession
		number."
Surveillance	2	An on-going systematic collection, analysis, interpretation, and
		dissemination of data to allow TB programs to target resources
		and interventions that will provide the most impact in
		eliminating TB. These data are essential in describing morbidity
		and mortality, monitoring trends in TB incidence and
		prevalence, detecting potential outbreaks, and defining high-risk
Surveillance	4	groups. Easters influencing the reported number of TP cases because of
artifact	4	Factors influencing the reported number of TB cases because of misrepresentation of data due to changes in TB surveillance
armact		variables or systems, less active case finding because of staffing
		shortage or other disease priorities, or introduction of new
		diagnostic tests.
TB data mart	2	A subset of the CDC data warehouse that contains RVCT data
1D data mart		submitted from the states and used to supply data to the Division
		of Tuberculosis Elimination.
Timeliness	7	The time interval linking any of the steps in TB surveillance.
measure	,	and or the steps in 12 but volumes.
111041541		

Term	Chapter	Definition
	Number	
Tuberculosis	2, 5, 6, 9	A secure web-based system designed to improve access,
Genotyping		management, and application of genotyping data at the state and
Information		local level. As part of the NTSS, TB GIMS contains tools to
System (TB		detect and prioritize TB outbreaks.
GIMS)		
Tuberculosis	2, 5, 6, 9	TIMS was a Windows-based, client-server application that
Information		helped health departments and other facilities manage TB
Management		patients, conduct TB surveillance activities, and manage TB
System (TIMS)		programs overall. TIMS replaced former DTBE software
		(SURVS-TB and TBDS) and provided for electronic
		transmission of TB surveillance data and program management
		reports. TIMS was replaced by web-based surveillance systems
		in 2009.
Underdiagnosis	4	Failure to recognize or correctly diagnose a disease or condition,
		especially in a significant proportion of patients.
Underreporting	4	Reports are not received due to delays or disruption in flow of
		TB case information from the reporting jurisdictions to CDC, or
		because reports are absent from hospitals, other providers, or
		laboratories.
U.Sborn	9	A person born in 1 of the 50 states or the District of Columbia, or a
		person born outside the United States to at least one parent who was a
		U.S. citizen. For a more detailed explanation see Report of Verified
		Case of Tuberculosis (RVCT): Self-Study Modules, RVCT item 12 –
		Country of Birth
II I I I I I I I I I I I I I I I I I I	_	http://www.cdc.gov/tb/programs/rvct/default.htm.
Verbal TB Case	7	Reporting jurisdiction's total TB cases to date (reported and
Count		counted cases) provided to CDC verbally from September of the
		current year to March of the following year.