National Center for HIV/AIDS, Division of Tuberculosis Elimit

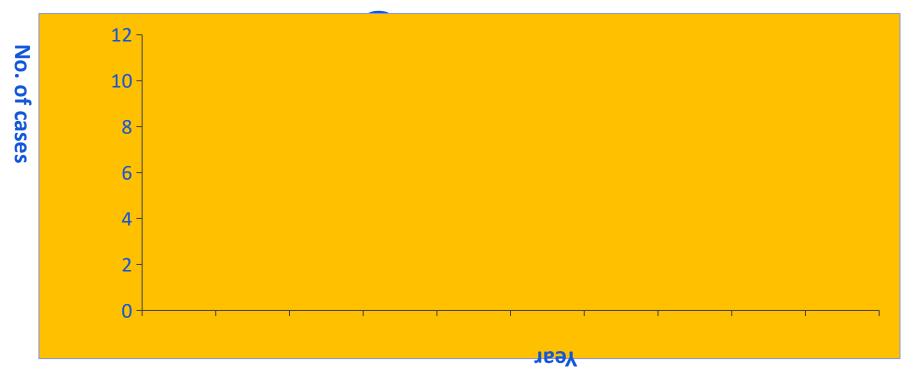
STD, and TB Prevention



Tuberculosis in the United States

 National Tuberculosis Surveillance System Highlights from 2016

Reported Tuberculosis (TB)



*As of June 21, 2017.

TB Morbidity United States, 2011–2016

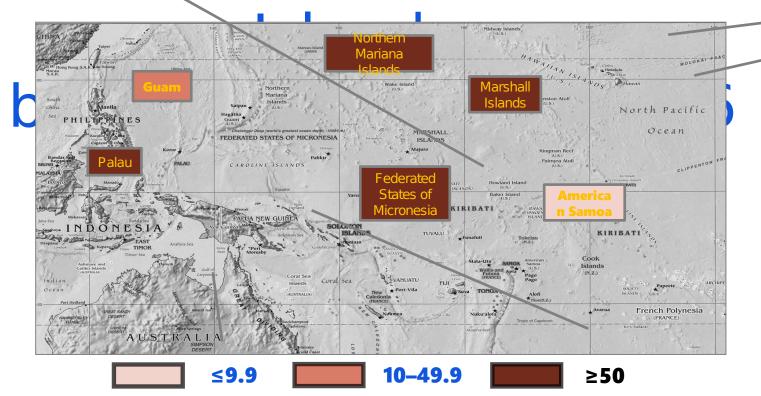
Year	No.	Rate*
2011	10,509	3.4
2012	9,940	3.2
2013	9,561	3.0
2014	9,398	3.0
2015	9,547	3.0
2016	9,272	2.9

Cases per 100,000 population; as of June 21, 2017.

*

TB Case Rates,* United States, **ONYC O**DC T BD ≤2.9 (2016 national average) *Cases per 100,000; as of June 21, 2017. DC, District of Columbia; NYC, New York City (excluded from New York state) >2.9

Map of U.S.-Affiliated Pacific



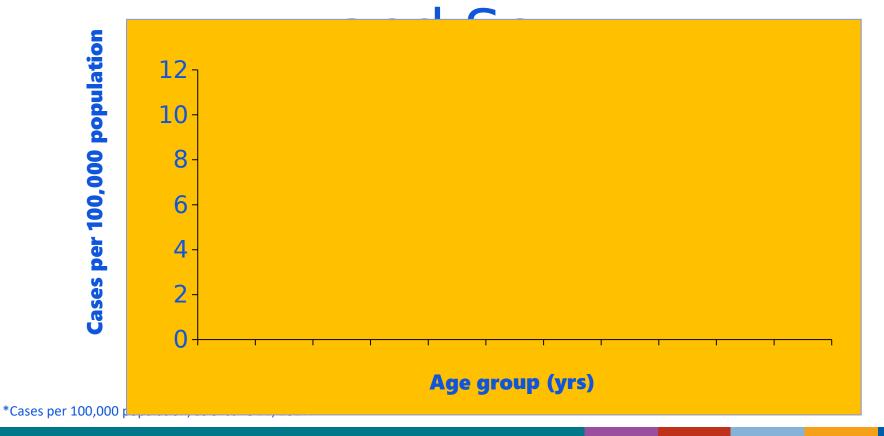
TB Case Rates,* U.S.-



TB Case Rates* by Age Group, United States, 1993–2016

Reported TB Cases by Age Group, United States, 2016*

TB Case Rates by Age Group

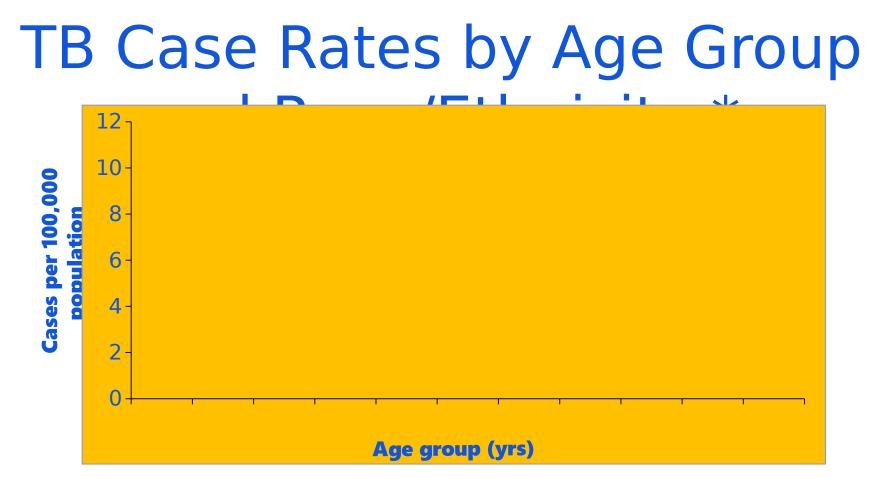


12 10 00,00 8 populatio **Cases per** 6 4 2 Year

All races are non-Hispanic; multiple race indicates two or more races reported for a person, but does not include persons of Hispanic/Latino origin. As of June 21, 2017. +

*

TB Case Rates by



All races are non-Hispanic; multiple race indicates two or more races reported for a person, but does not include persons of Hispanic/Latino origin. As of June 21, 2017.

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Reported TB Cases by Race/Ethnicity,* United States, 2016†

White 13%

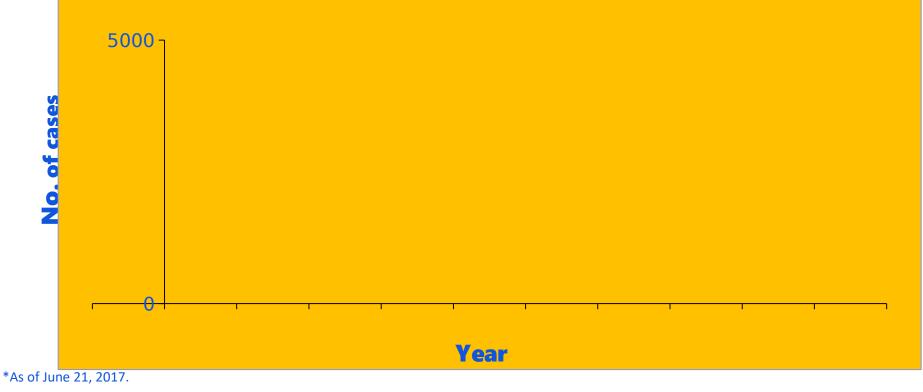
Native Hawaiian/Pacific Islander 1%

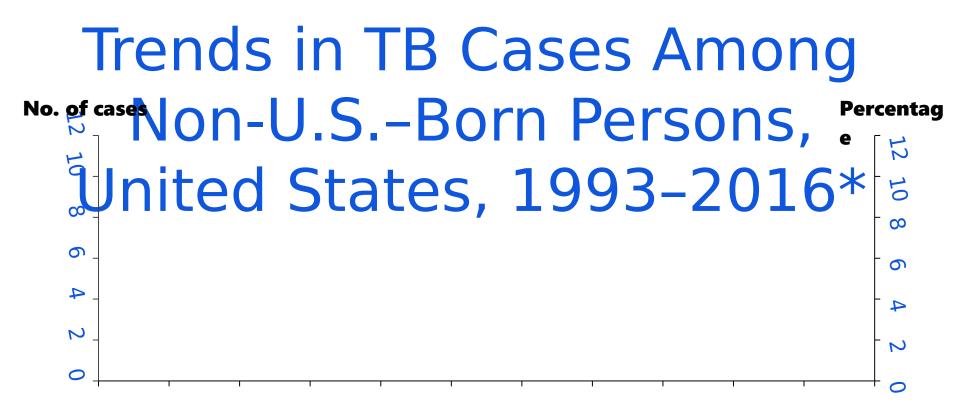
Black/African American 21%

Asian 35%

All races are non-Hispanic; multiple race indicates two or more races reported for a person, but does not include persons of Hispanic/Latino origin. Percentages are rounded; as of June 21, 2017.

Number of TB Cases Among



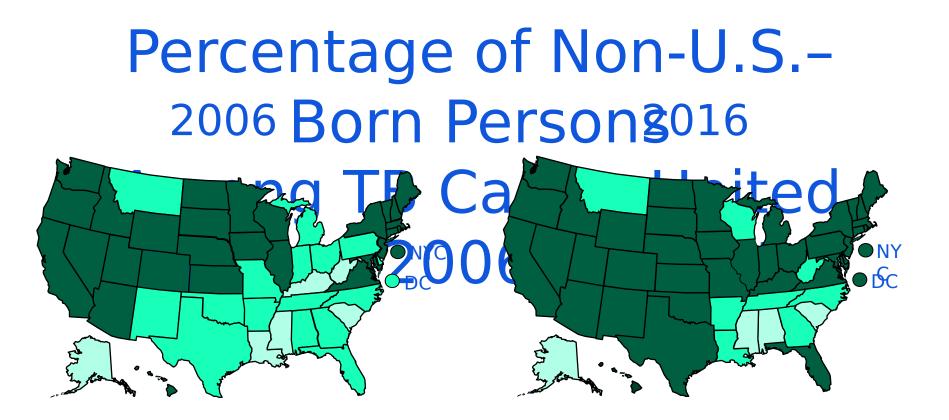


Year

*As of June 21, 2017.

Reported TB Cases by Origin and Race/Ethnicity*.s-United States, 2016†

- * All races are non-Hispanic; multiple race indicates two or more races reported for a person, but does not include persons of Hispanic/Latino origin.
- Percentages are rounded; as of June 21, 2017.
- S American Indian/Alaska Native accounted for <1% of cases among non-U.S –born persons and are not shown</p>

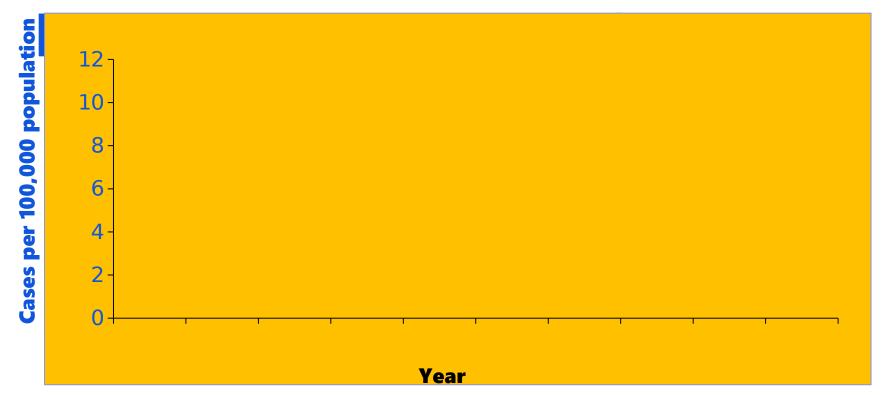




*As of June 21, 2017.

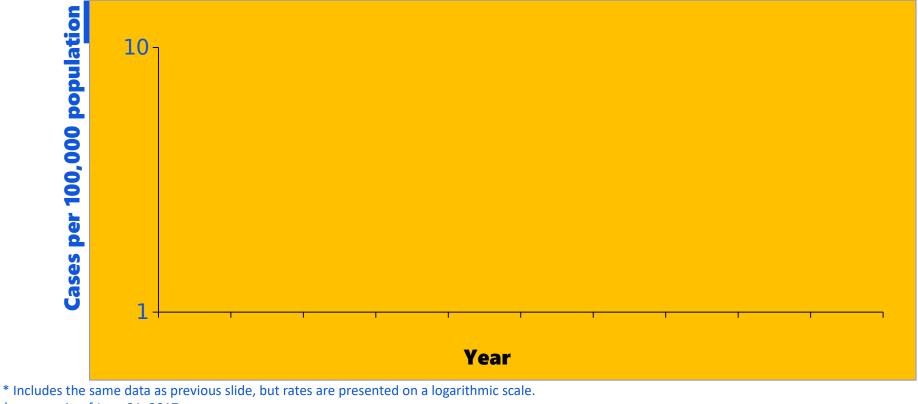
DC_District of Columbia: NYC_New York City (excluded from New York state)

TB Case Rates Among U.S.-



*As of June 21, 2017.

TB Case Rates Among U.S.-



As of June 21, 2017.

Countries of Birth Among Non-U.S.-Born Persons Reported with TB, United States, 2016

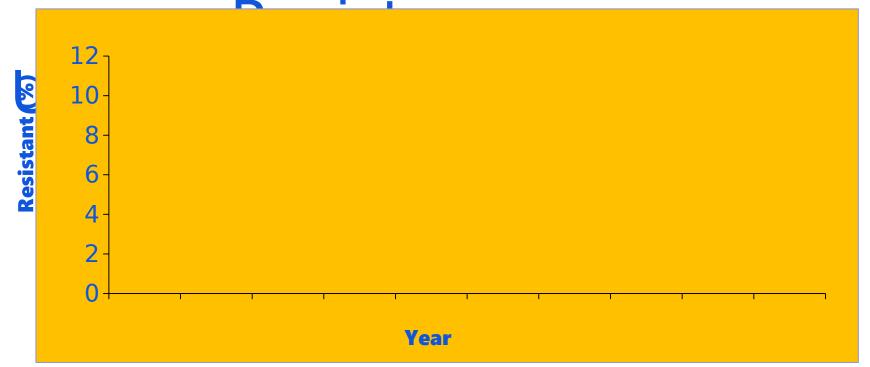
*Percentages are rounded; as of June 21, 2017.

Percentage of Non-U.S.-Born Persons with TB, 10 by Time of Residence in U.S. Before Diagnosis, 2016* ercentage 20

As of June 21, 2017.

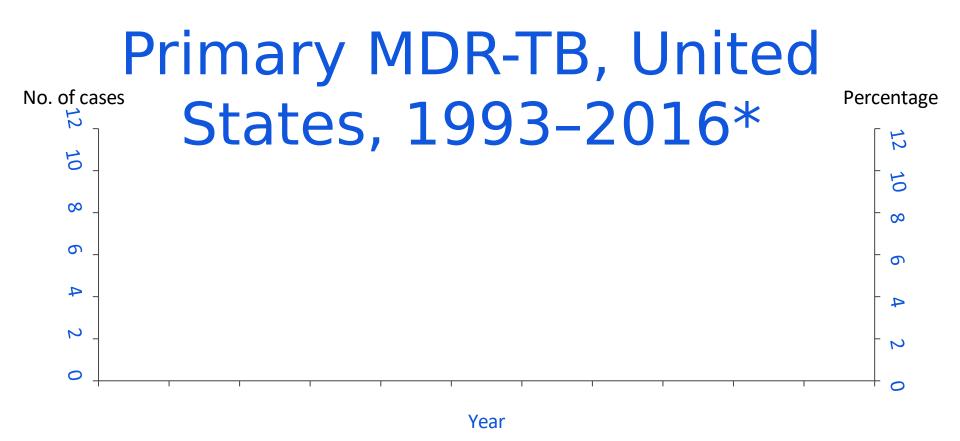
Non-U.S.–born persons for whom information on length of residence in the United States before diagnosis is unknown or missing.

Primary Anti-TB Drug



* As of June 21, 2017.

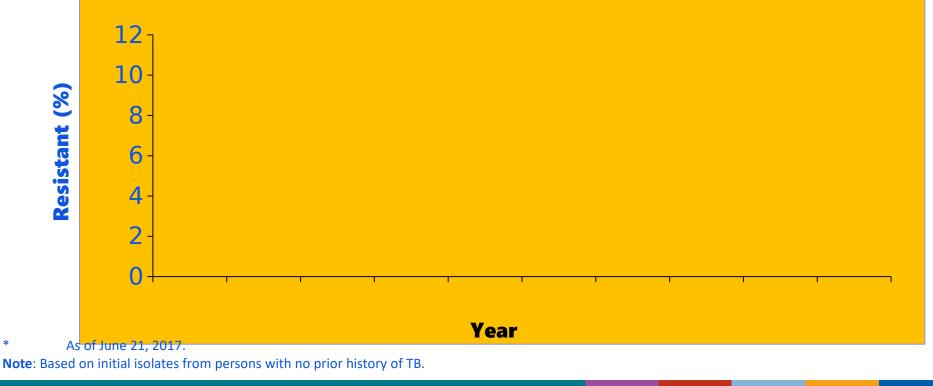
Note: Based on initial isolates from persons with no prior history of TB; multidrug-resistant TB (MDR-TB) is defined as resistance to at least isoniazid and rifampin.

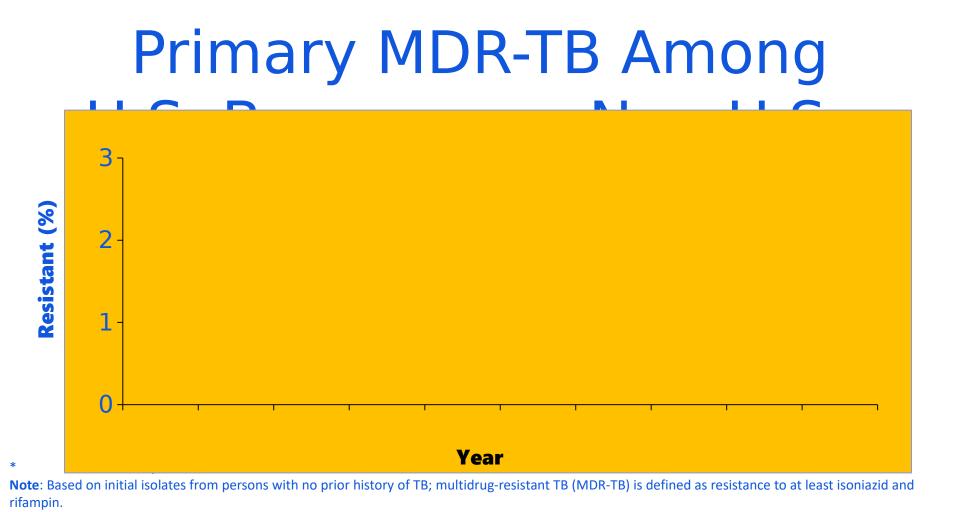


* As of June 21, 2017.

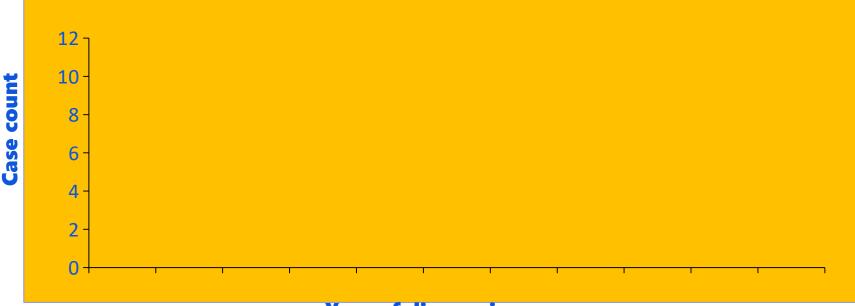
Note: Based on initial isolates from persons with no prior history of TB; multidrug-resistant TB (MDR-TB) is defined as resistance to at least isoniazid and rifampin.

Primary Isoniazid Resistance





XDR-TB* Case Count,



Year of diagnosis

least one of three injectable second-li

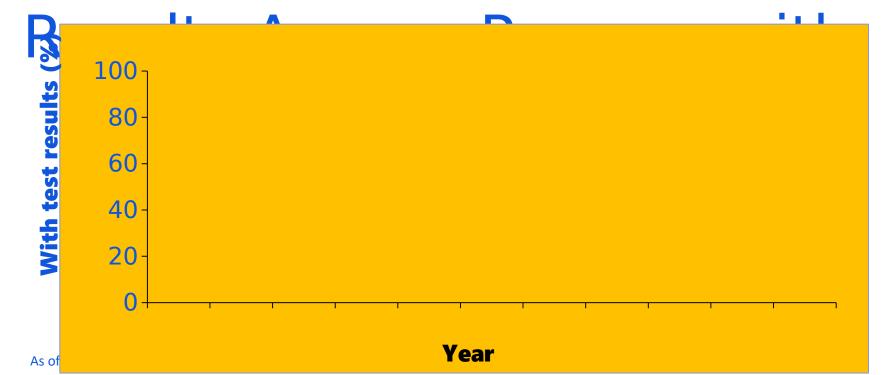
- XDR-TB , extensively drug-resistant TB.
- DST, drug susceptibility test.
 - As of June 21, 2017.

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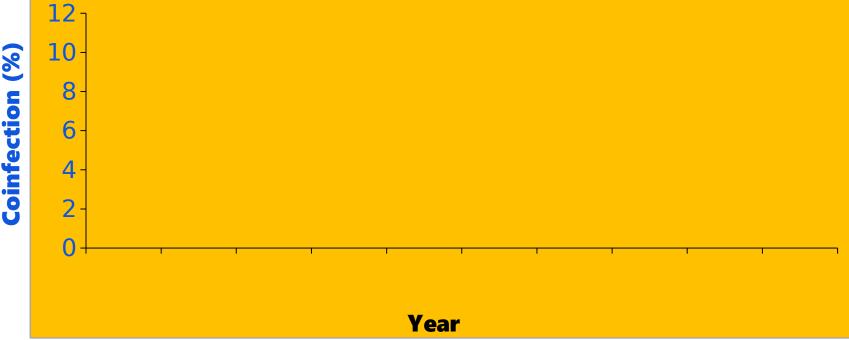
Reporting of HIV Test



Note: Includes persons with positive, negative, or indeterminate human immunodeficiency virus (HIV) test results and persons from California with codiagnosis of TB and acquired immunodeficiency syndrome (AIDS). Rhode Island did not report HIV test results for years 1993–1997. HIV test results for Vermont are not included for years 2007–2013. HIV test results for California are not included for years 2005–2010.

Estimated HIV Coinfection

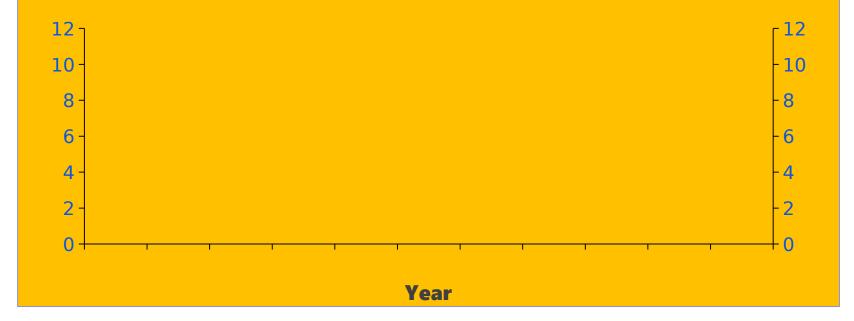
Among Dorconc



As of June 21, 2017.

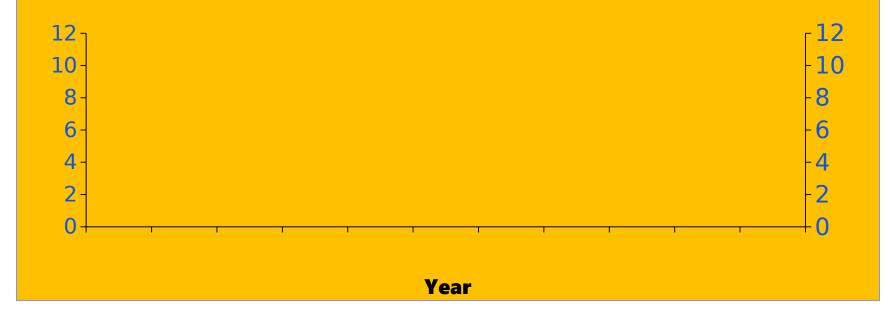
Note: Minimum estimates are based on reported HIV-positive status among all TB patients in the age group.

TB Cases Among Persons



* As of June 21, 2017. **Note**: Resident of correctional facility at time of TB diagnosis.

TB Cases Reported Among



* As of June 21, 2017. Note: Homeless during the 12 months before TB diagnosis.

Mode of Treatment **Administration Among** Persons Reported with TB, linited States, 1993–2014*



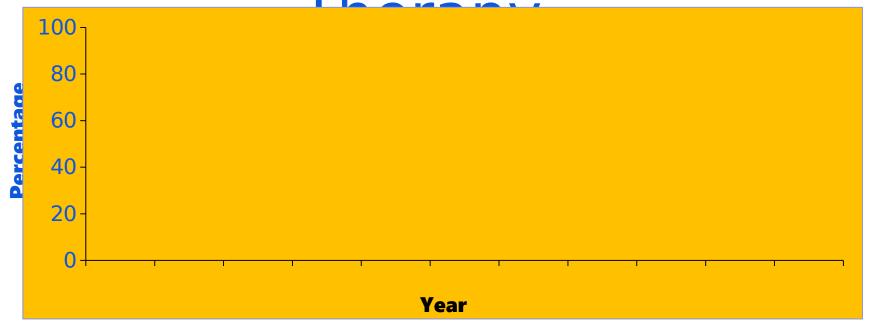


DOT, directly observed therapy; SA, self-administered therapy.

* As of June 21, 2017; data available through 2014 only.

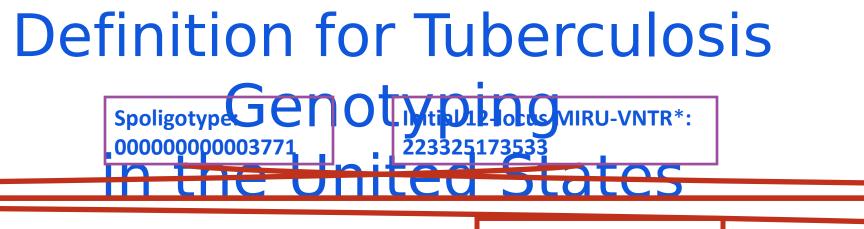
Percentage of total cases among persons alive at diagnosis, with an initial regimen of one or more drugs prescribed and excluding cases

Completion of TB Treatment



As of June 21, 2017; data available through 2014 only.

Note: Includes persons alive at diagnosis, with initial drug regimen of one or more drugs prescribed, who did not die within one year of initiating treatment; excludes persons with initial rifampin-resistant isolate, patients with bone and joint disease, meningeal disease, or disease of the central nervous system, or pediatric patients (ages 0–14 years) with miliary disease or positive blood culture or a positive nucleic acid amplification test on a blood specimen, and those who moved out of the country within one year of initiating treatment.



+

Sequentially assigned for each unique spoligotype and initial 12-locus MIRU-VNTR combination



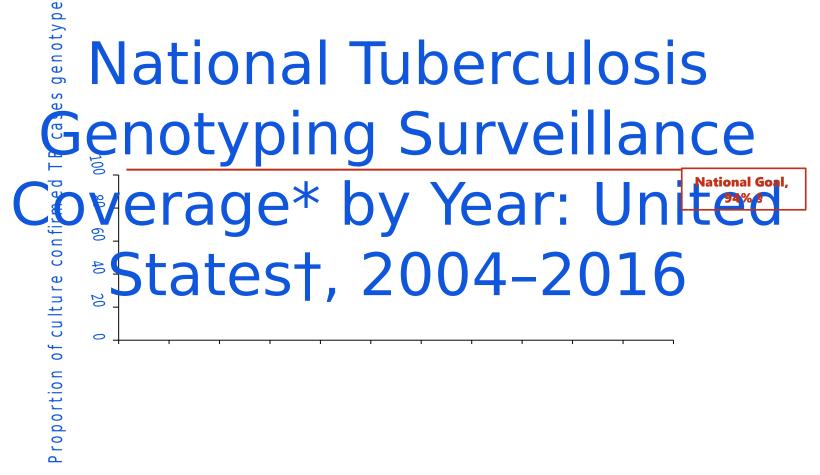
Additional 12-locus MIRU-VNTR (MIRU2): 444534423428⁺

Sequentially assigned for each unique spoligotype and 24-locus MIRU-VNTR combination



Mycobacterial interspersed repetitive unit–variable number tandem repeat.

The complete set of 24 loci is referred to as 24-locus MIRU-VNTR and is used for GENType designation for genotype in the United States.



The proportion of positive cultures with at least one genotyped isolate.

Includes 50 states and the District of Columbia.

Number of County-Based Tuberculosis Genotype Clusters* by Cluster Size, United States, 2014-2016 Numbe 0

Number of Persons in Cluster

^{*} Genotype cluster is defined as two or more cases with matching spoligotype and 24-locus MIRU-VNTR (GENType) within a county during the specified 3-year time period.

Tuberculosis Genotype Clusters by TB GIMS* Alert Levels†, United States, 2014-2016

Tuberculosis Genotyping Information Management System.

Alert level is determined by the log likelihood ratio statistic (LLR) for a given cluster, identifying higher than expected geospatial concentrations for a TB genotype cluster in a specific county, compared to the national distribution of that genotype; TB GIMS generates alert level notifications based on this

Division of Tuberculosis Elimination

National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention Centers for Disease Control and Prevention 1600 Clifton Road NE MS E-10 Atlanta, GA 30329 Phone: 404-639-8120 Internet Address: http://www.cdc.gov/tb/

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

