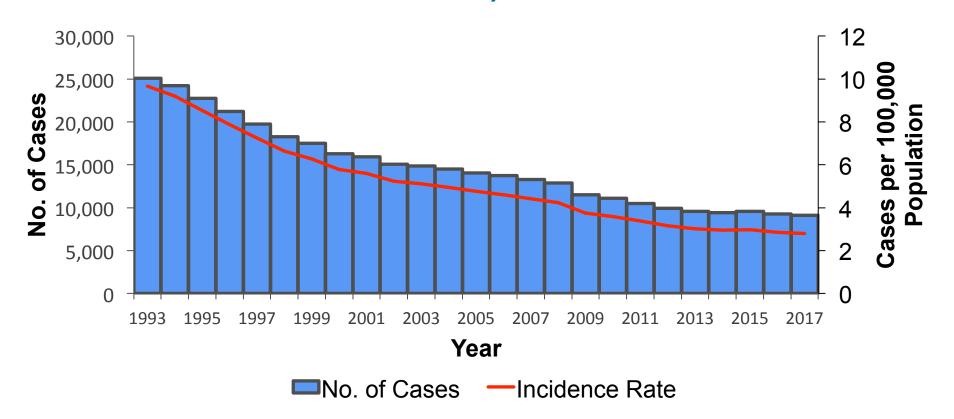
National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention Division of Tuberculosis Elimination



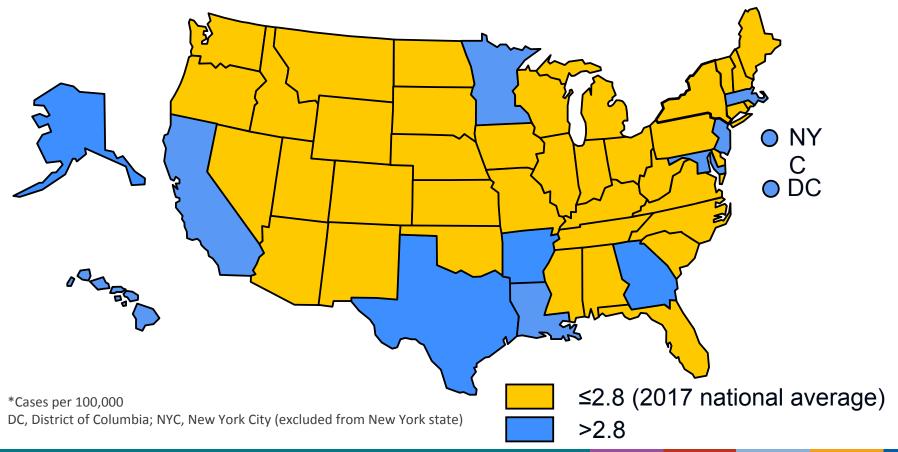
Tuberculosis in the United States 1993–2017

National Tuberculosis Surveillance System

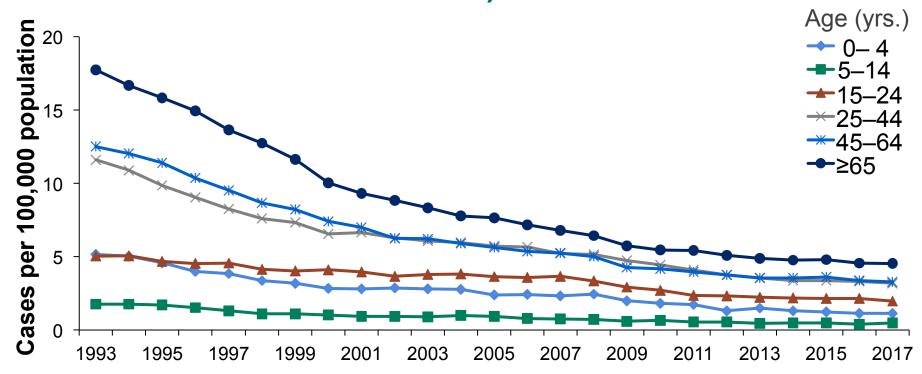
Reported Tuberculosis (TB) Cases and Rates United States, 1993–2017



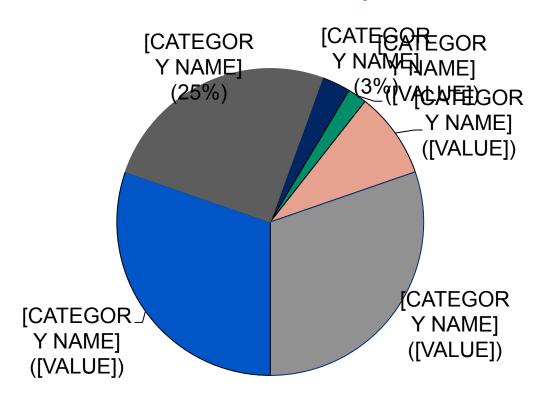
TB Case Rates,* United States, 2017



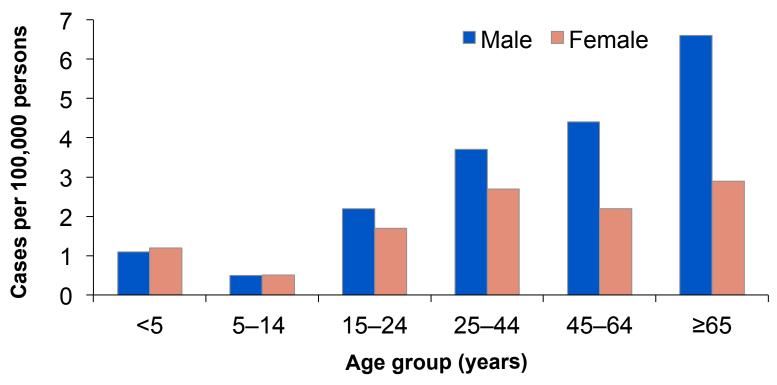
TB Case Rates* by Age Group, United States, 1993–2017



Reported TB Cases by Age Group, United States, 2017

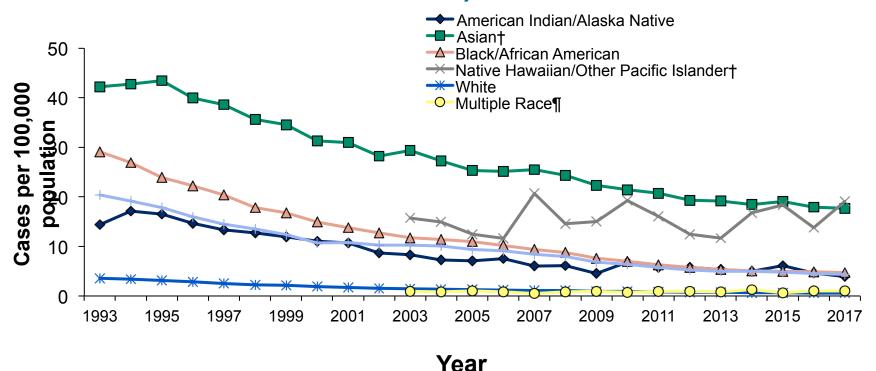


TB Case Rates by Age Group and Sex, United States, 2017*



^{*}Cases per 100,000 population

TB Case Rates by Race/Ethnicity* United States, 1993–2017

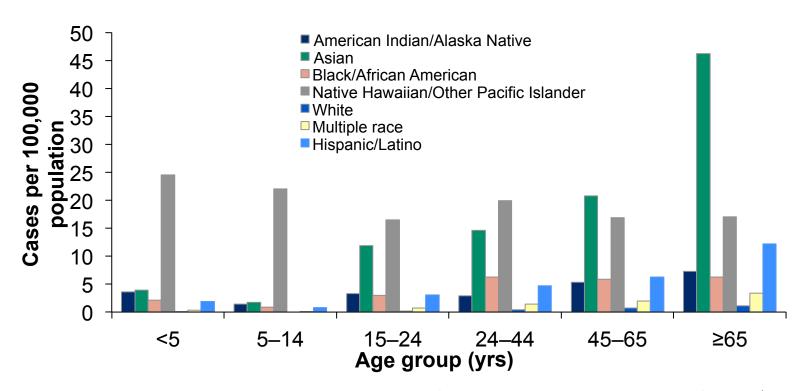


^{*} All races are non-Hispanic; multiple race indicates two or more races reported for a person, but does not include persons of Hispanic/Latino origin.

[†] Asian race category reporting includes Pacific Islander from 1993–2002; Native Hawaiian/Other Pacific Islander race first reported separately in 2003.

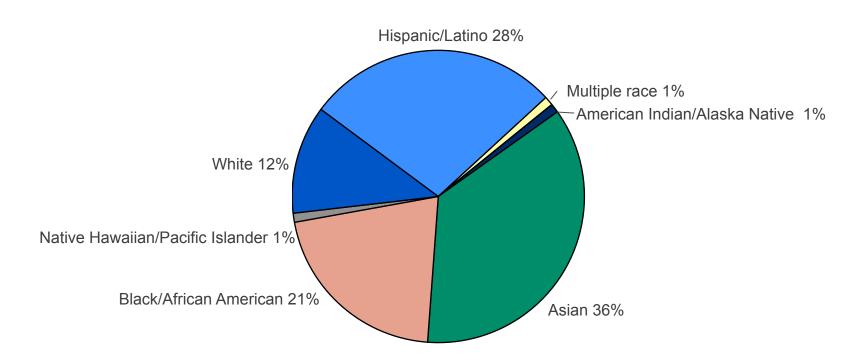
[¶] Multiple race rates first reported in 2003.

TB Case Rates by Age Group and Race/Ethnicity, United States, 2017*



^{*} 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.

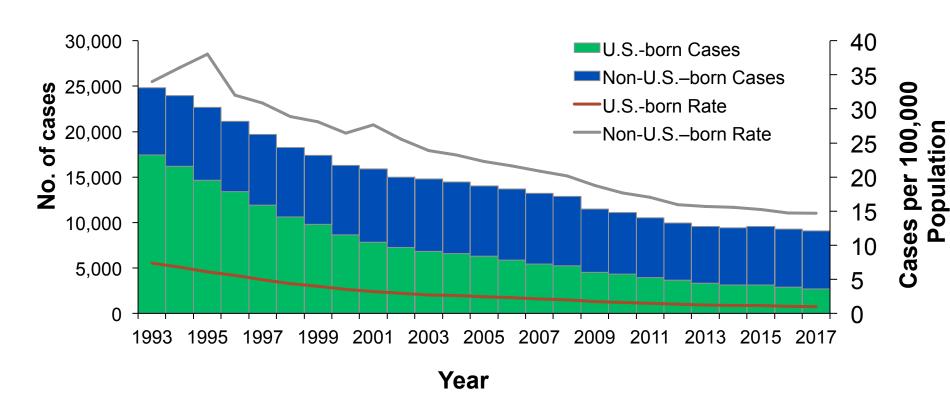
Reported TB Cases by Race/Ethnicity,* United States, 2017[†]



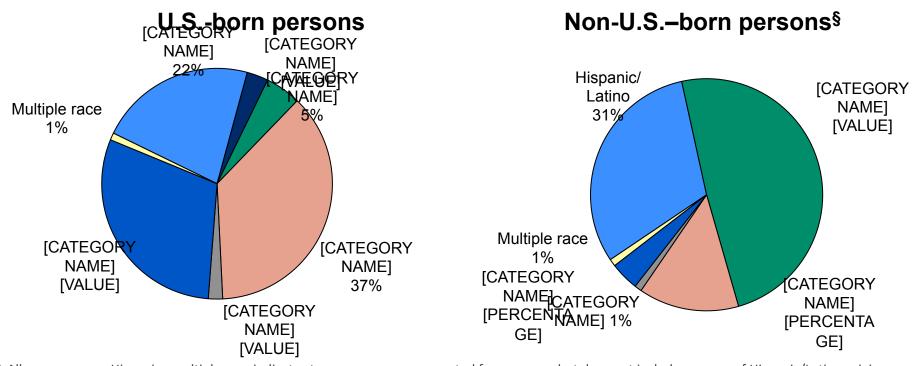
^{*} All races are non-Hispanic; multiple race indicates two or more races reported for a person, but does not include persons of Hispanic/Latino origin.

Percentages are rounded.

TB Cases and Rates Among U.S.-Born versus Non-U.S.-Born Persons, United States, 1993–2017



Reported TB Cases by Origin and Race/Ethnicity*, United States, 2017[†]



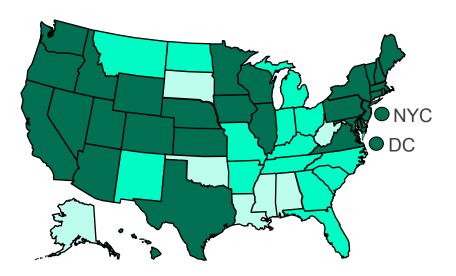
^{*} All races are non-Hispanic; multiple race indicates two or more races reported for a person, but does not include persons of Hispanic/Latino origin.

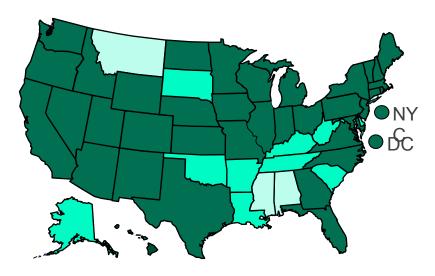
[†] Percentages are rounded.

[§] American Indian/Alaska Native accounted for <1% of cases among non-U.S.—born persons and are not shown.

Percentage of Non-U.S.-Born Persons Among TB Cases, United States, 2007 and 2017

2017







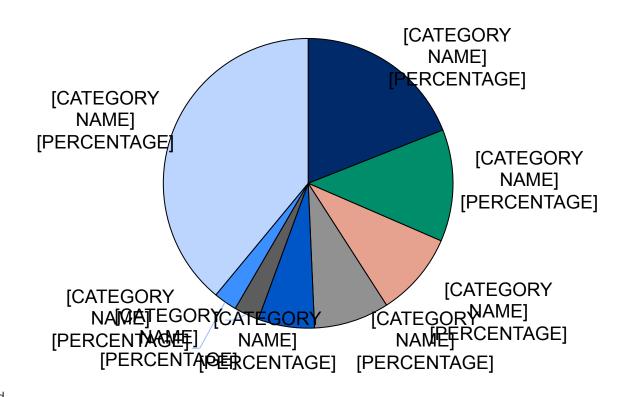


≤24% 25%-49%



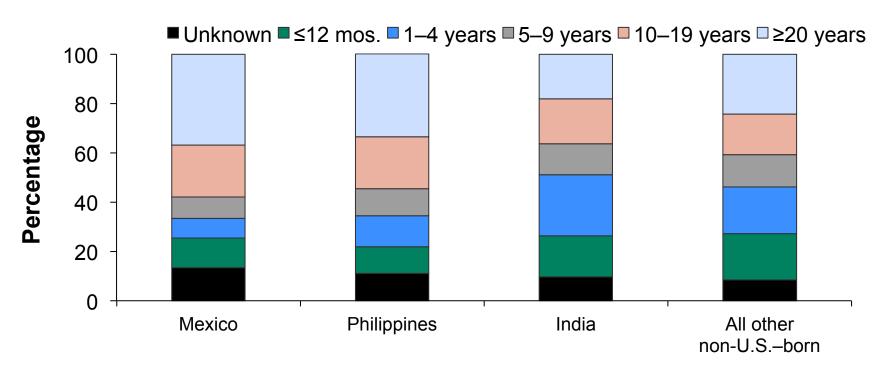
≥50%

Countries of Birth Among Non-U.S.—Born Persons Reported with TB, United States, 2017

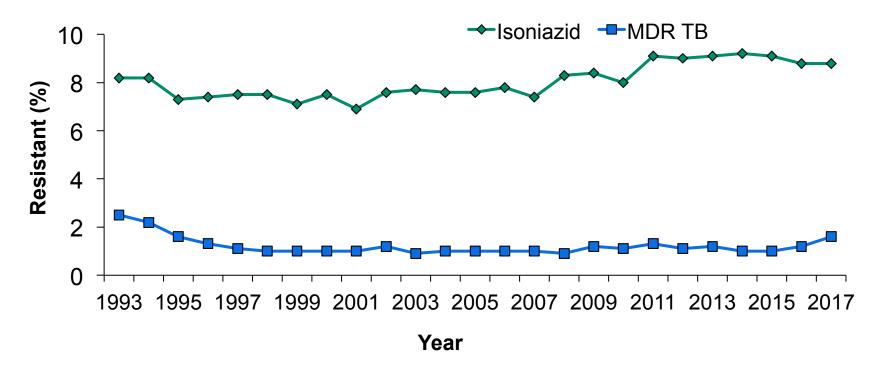


^{*}Percentages are rounded.

Percentage of Non-U.S.—Born Persons with TB, by Time of Residence in U.S. Before Diagnosis, 2017

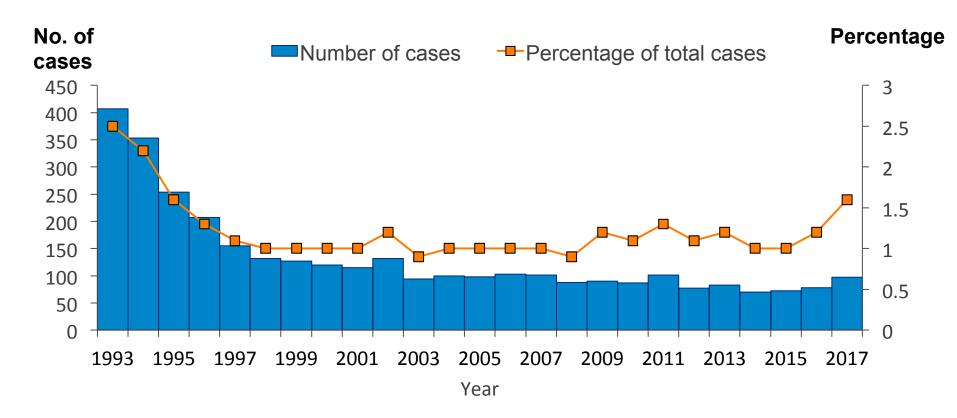


Primary Anti-TB Drug Resistance, United States, 1993–2017*



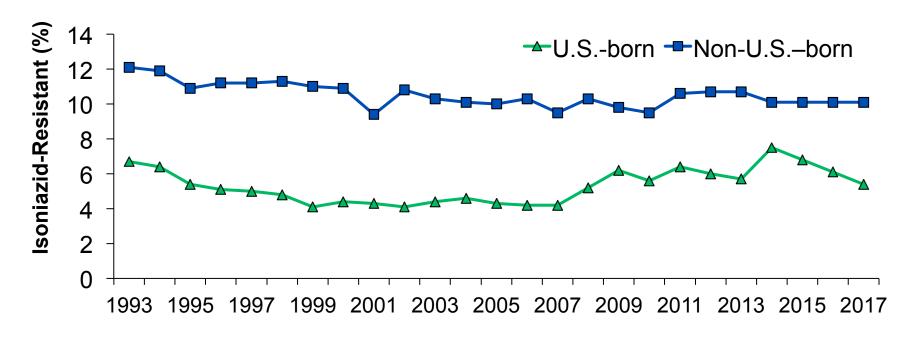
^{*} Based on initial isolates from persons with no prior history of TB; multidrug-resistant TB (MDR TB) is defined as resistance to at least isoniazid and rifampin.

Primary MDR TB, United States, 1993–2017*



^{*} 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.

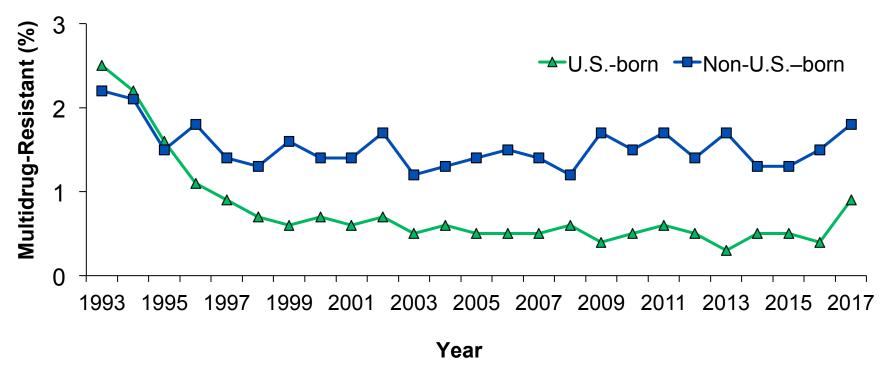
Primary Isoniazid Resistance Among U.S.-Born versus Non-U.S.-Born Persons, United States, 1993–2017*



Year

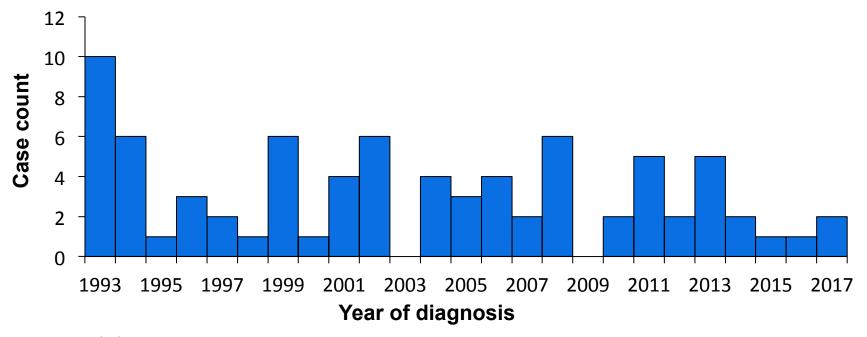
^{*} Based on initial isolates from persons with no prior history of TB.

Primary MDR TB Among U.S.-Born versus Non-U.S.-Born Persons, United States, 1993–2017*



^{*} 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.

XDR TB* Case Count, Defined on Initial DST,[†] by Year, 1993–2017[§]

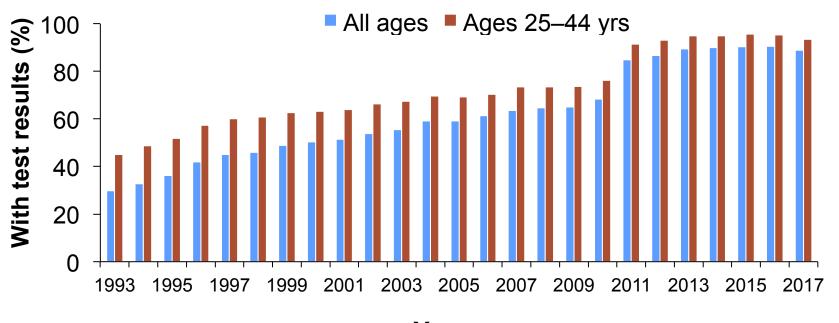


^{*} XDR TB, extensively drug-resistant TB.

[†] DST, drug susceptibility test.

[§] XDR TB is defined as resistance to isoniazid and rifampin, plus resistance to any fluoroquinolone and at least one of three injectable second-line anti-TB drugs.

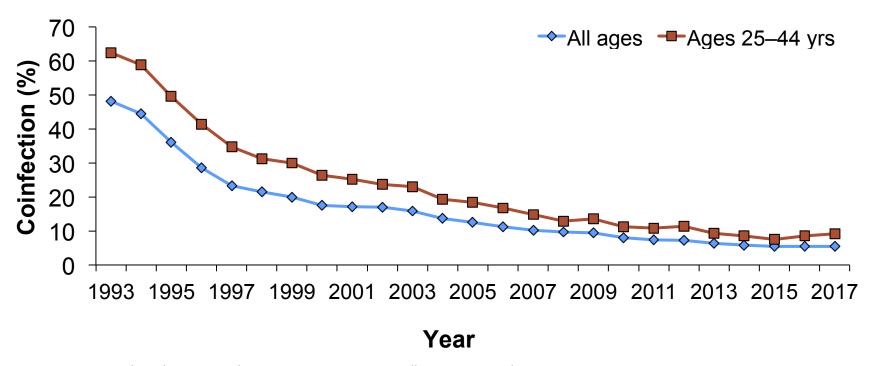
Reporting of HIV Test Results Among Persons with TB, by Age Group, United States, 1993–2017*



Year

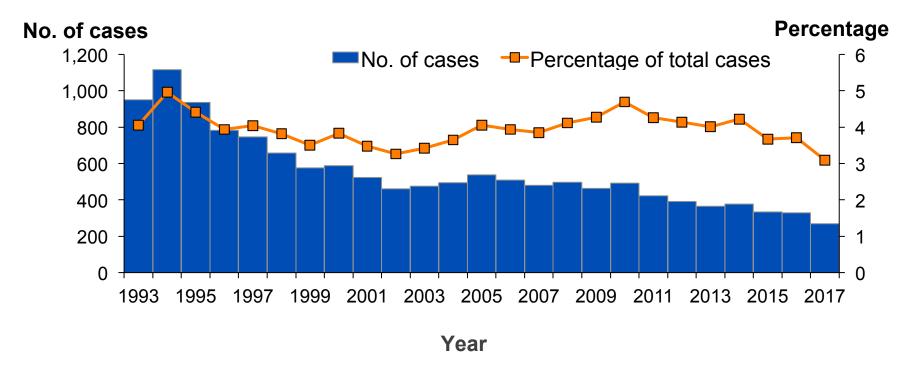
* Includes persons with positive, negative, or indeterminate human immunodeficiency virus (HIV) test results and persons from California with co-diagnosis of TB and acquired immunodeficiency syndrome (AIDS) (co-diagnosis with AIDS in California was only for a period ending in 2004). Rhode Island did 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 Persons Reported with TB, United States, 1993–2017*



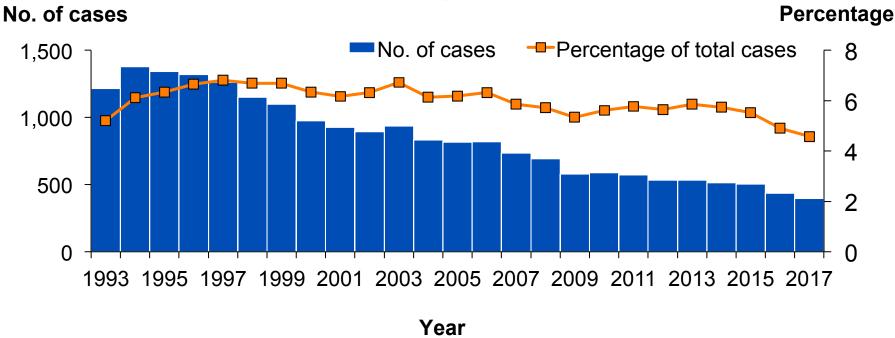
^{*} Minimum estimates are based on reported HIV-positive status among all TB patients in the age group.

TB Cases Among Persons Ages ≥15 Years Residing in Correctional Facilities, United States, 1993–2017*



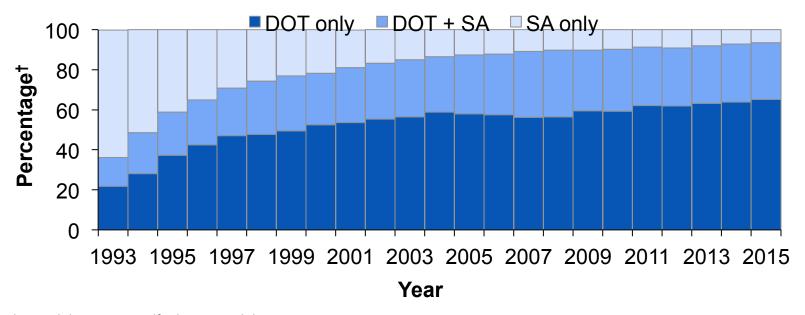
^{*} Resident of correctional facility at time of TB diagnosis.

TB Cases Reported Among Homeless Persons During the 12 Months Before Diagnosis, Ages ≥15 Years, United States, 1993–2017*



^{*} Homeless during the 12 months before TB diagnosis.

Mode of Treatment Administration Among Persons Reported with TB, United States, 1993–2015*

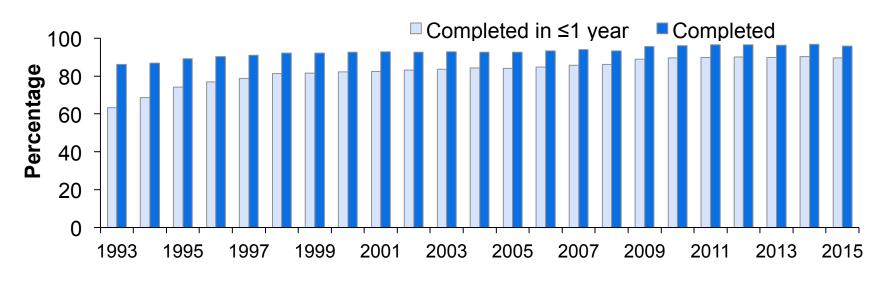


DOT, directly observed therapy; SA, self-administered therapy.

^{*} Data available through 2015 only.

[†] Percentage of total cases among persons alive at diagnosis, with an initial regimen of one or more drugs prescribed and excluding cases with unknown mode of treatment administration.

Completion of TB Treatment Therapy, United States, 1993–2015*

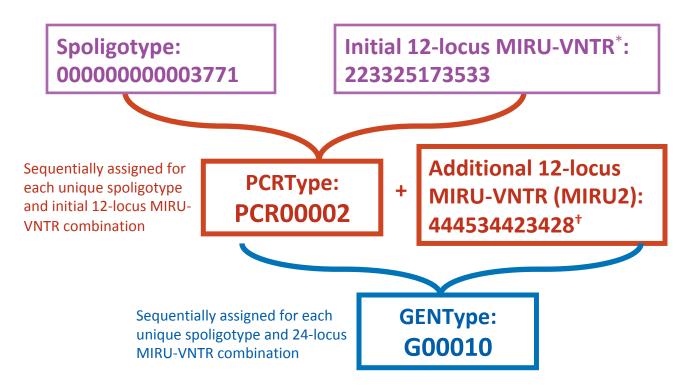


Year

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.

^{*} Data available through 2015 only.

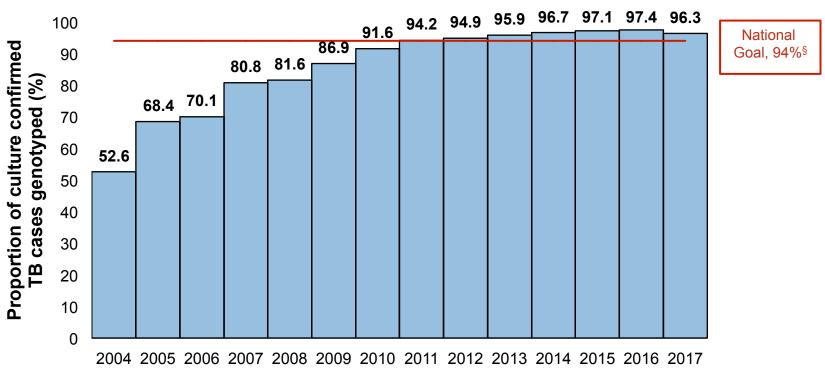
Definition for Tuberculosis Genotyping in the United States



^{*} 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.

National Tuberculosis Genotyping Surveillance Coverage* by Year: United States*, 2004–2017

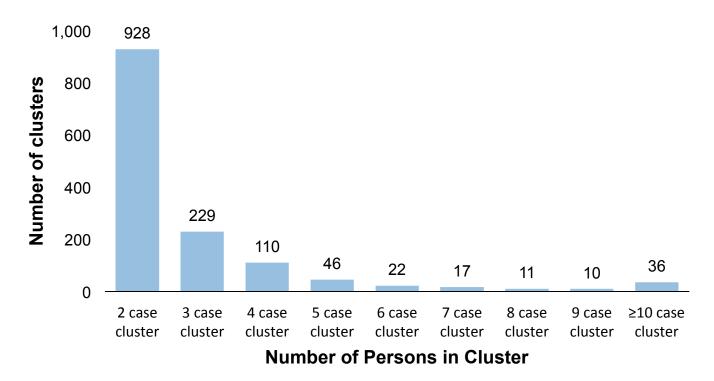


^{*} The proportion of positive cultures with at least one genotyped isolate.

[†] Includes 50 states and the District of Columbia.

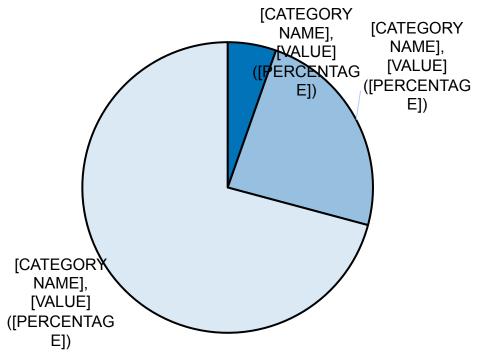
[§] For the year 2020, the national goal for TB genotyping surveillance coverage will change to 100%.

Number of County-based Tuberculosis Genotype Clusters* by Cluster Size, United States, 2015–2017



^{*}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, 2015–2017



^{*}Tuberculosis Genotyping Information Management System

 $^{^{\}dagger}$ 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 statistic: "No alert" is indicated if LLR is between 0 − <5, "medium" is for LLR of 5 − <10 and "high" alert is for clusters with LLR ≥ 10.

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 US 12-4

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.

