## TB EPIDEMIOLOGY

Philip Wegner RN, MPH
TB Nurse Consultant
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Global TB


Global Tuberculosis Report 2021 (who.int)

## The Global Burden of TB 2020

## Estimated number of cases

## 9.9 million

10.0 million last year
787,000 (7.9\%)

820,000 last year (8.2\%)
454,020 (4.6\%)
190,688 (42\%)

465,000 last year (4.6\%) 182,000 last year (39\%)

## The Global Burden of TB 2020

## Impact of Covid-19

FIG. 1
Global trend in case notifications of people newly diagnosed with TB, 2016-2020


## The Global Burden of TB 2020

Fig. 11 Estimated TB incidence in 2020, for countries with at least 100,000 incident case The eight countries that rank first to eighth in terms of numbers of cases, and that accounted for two thirds of global cases in 2020, are labelled.


## The Global Burden of TB 2020

Fig. 13 Estimated TB incidence rates, 2020


Source: WHO Global Tuberculosis Report 2021

## The Global Burden of TB 2020

Fig. 2.1.6 Estimated HIV prevalence in new and relapse TB cases, 2020


Source: WHO Global Tuberculosis Report 2021

## The Global Burden of TB 2019

## FIG. 4.30

Percentage of new TB cases with MDR/RR-TB ${ }^{\text {a }}$


Source: WHO Global Tuberculosis Report 2020 (not reported in 2021 Report)

## The Global Burden of TB 2019

FIG. 4.31
Percentage of previously treated TB cases with MDR/RR-TB ${ }^{\text {a }}$


## The Global Burden of TB 2019

FIG. 4.32
Estimated incidence of MDR/RR-TB ${ }^{\text {a }}$ in 2019, for countries with at least 1000 incident cases


Source: WHO Global Tuberculosis Report 2020 (not reported in 2021 Report)

## The Global Burden of TB 2020

Fig. 3.2.3 Percentage of new and relapse pulmonary TB cases with bacteriological confirmation, 2020


## The Global Burden of TB 2020

Fig. 3.1.7 Percentage of extrapulmonary cases among new and relapse TB cases, 2020


Source: WHO Global Tuberculosis Report 2021


TB in the United States


Reported TB in the US 2020 | Data \& Statistics | TB |CDC

## TB Cases and Incidence Rates, United States, 1993-2020



## Reported Tuberculosis (TB) Cases United States, 1982-2020



Year

## U.S. TB EPIDEMIOLOGY

## TB Case Rates, United States, 2020



DC, District of Columbia; NYC, New York City (excluded from New York state)

## U.S. TB EPIDEMIOLOGY

## TB Cases, United States, 2020



DC, District of Columbia; NYC, New York City (excluded from New York state)

## TB Cases and Incidence Rates by Origin of Birth, United States, 1993-2020



TB Incidence Rates* and Percentages by Origin of Birth, United States, 2020

$$
(\mathrm{N}=7,145)
$$

Non-U.S.-born
(Rate: 11.7 per $100,000)$
*Cases per 100,000 persons

Percentage of TB Cases Among Non-U.S.-born Persons by Years Since Initial Arrival in the United States at Diagnosis, 2020 ( $\mathrm{N}=5,127$ )


## Top Countries of Birth Among Non-U.S.born Persons with TB, United States, 2020 ( $\mathrm{N}=5,127$ )



## Top 10 TB Incidence Rates,* by Country of Birth, ${ }^{\dagger}$ United States, 2016-2020



* Cases per 100,000 persons
† Populations for the countries of birth shown were selected based on their ranked 5-year rate of TB cases by country of birth in the United States.


## Percentage of TB Cases Among Non-

 U.S.-born Persons by Years Since Initial Arrival in the United States at Diagnosis, 2020 ( $\mathrm{N}=5,127$ )

TB Cases by Race/Ethnicity, * United States, 2011-2020

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

## Percentage of TB Cases by Race/Ethnicity,* United States, $2020(\mathrm{~N}=7,174)^{\dagger}$


*All races are non-Hispanic; multiple race indicates two or more races reported for a person but does not include persons of Hispanic or Latino origin.
†Percentages are rounded. Percentages of unknowns/missing are $<1 \%$ and are not displayed in graph.

## TB Cases Among U.S.-born Persons by Race/Ethnicity,* United States, 2011-2020


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

## TB Cases Among Non-U.S.-born Persons by Race/Ethnicity,* United States, 20112020


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

## TB Incidence Rates by Race/Ethnicity,* United States, 2011-2020


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

## Percentage of TB Cases by Origin and Race/Ethnicity, United States, $2020^{\dagger}$



* All races are non-Hispanic; multiple race indicates two or more races reported for a person but does not include persons of Hispanic or Latino origin.
Percentages are rounded. Percentages of unknowns/missing are $<1 \%$ and are not displayed in graphs.


## Percentage of TB Cases by Origin and Race/Ethnicity,* United States, $2020^{+}$




* All races are non-Hispanic; multiple race indicates two or more races reported for a person but does not include persons of Hispanic or Latino origin.
${ }^{+}$Percentages are rounded. Percentages of unknowns/missing are $<1 \%$ and are not displayed in graphs.
§ American Indian/Alaska Native accounted for no cases among non-U.S.-born persons (not visible).


## Percentage of TB Cases by Site of Disease, United States, 2020


*Any pulmonary involvement which includes cases that are pulmonary only and both pulmonary and extrapulmonary.
Patients may have more than one disease site but are counted in mutually exclusive categories for surveillance purposes.

Cases and Percentages of MDR TB by History of TB, United States, 1993-2020

*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.

## Percentage of Selected Risk Factors Among Persons with TB by Origin of Birth, United States, 2020



Diabetes mellitus Non-HIV immunosuppressio@ontact with infectious TB

## Five States with the Highest Percentages of TB Cases Diagnosed Among Correctional Facility* Residents Aged $\geq 15$ Years, United States, 2020


*Correctional facilities include federal prisons, state prisons, local jails, juvenile correctional facilities, other correctional facilities, or unknown type.


TB in Wisconsin

## Reported TB Cases Wisconsin, 1982-2020



## Average TB Incidence rates by Regions in Wisconsin 2011-2020



## Number of TB Cases in U.S.-born vs. Foreignborn Persons, Wisconsin, 2005-2020

$\square$ US-Born $\square$ Foreign-Born


## Percentage of Non-U.S.-Born TB Cases by Time in Wisconsin at Diagnosis, 2011-2020



## Reported TB Cases by Origin and Race/Ethnicity Wisconsin, 2011-2020

Non-U.S.-Born persons

U.S.-Born persons


## TB Case Rates by Race/Ethnicity, Wisconsin, 2005-2020



## Countries of Birth Among Non-U.S.-Born Persons with TB Wisconsin, 2011-2020.



## TB rates for Top 10 Countries of Birth Wisconsin, 2010-2019



## U.S. TB Cases by Site of Disease Wisconsin, 2011-2020



## Foreign—Born TB Cases by Site of Disease Wisconsin, 2011-2020



## Number of TB Cases by Case Verification Criteria Wisconsin, 2005-2020



## Reported TB Cases by Risk Factor, Wisconsin, 2005-2020

Most Common Risk Factors Reported Among TB patients


Comparison of Selected Risk Factors by Origin of Birth


