



WISCONSIN DEPARTMENT
of HEALTH SERVICES

Tuberculosis Epidemiology

Global, United States, and Wisconsin, 2024

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TB Nurse Consultant

April 7, 2026

Global Case Data

Tuberculosis Epidemiology

Global tuberculosis report 2025



[Global Tuberculosis
Report 2025 \(who.int\)](#)

Global Burden and Mortality

	Number of People	Number of Deaths
All TB Disease	10.7 Million	1.23 Million*
HIV and TB	660,000	150,000
MDR and R-R TB	390,000	Not Reported for 2024

* Including deaths attributed to both HIV+TB and TB

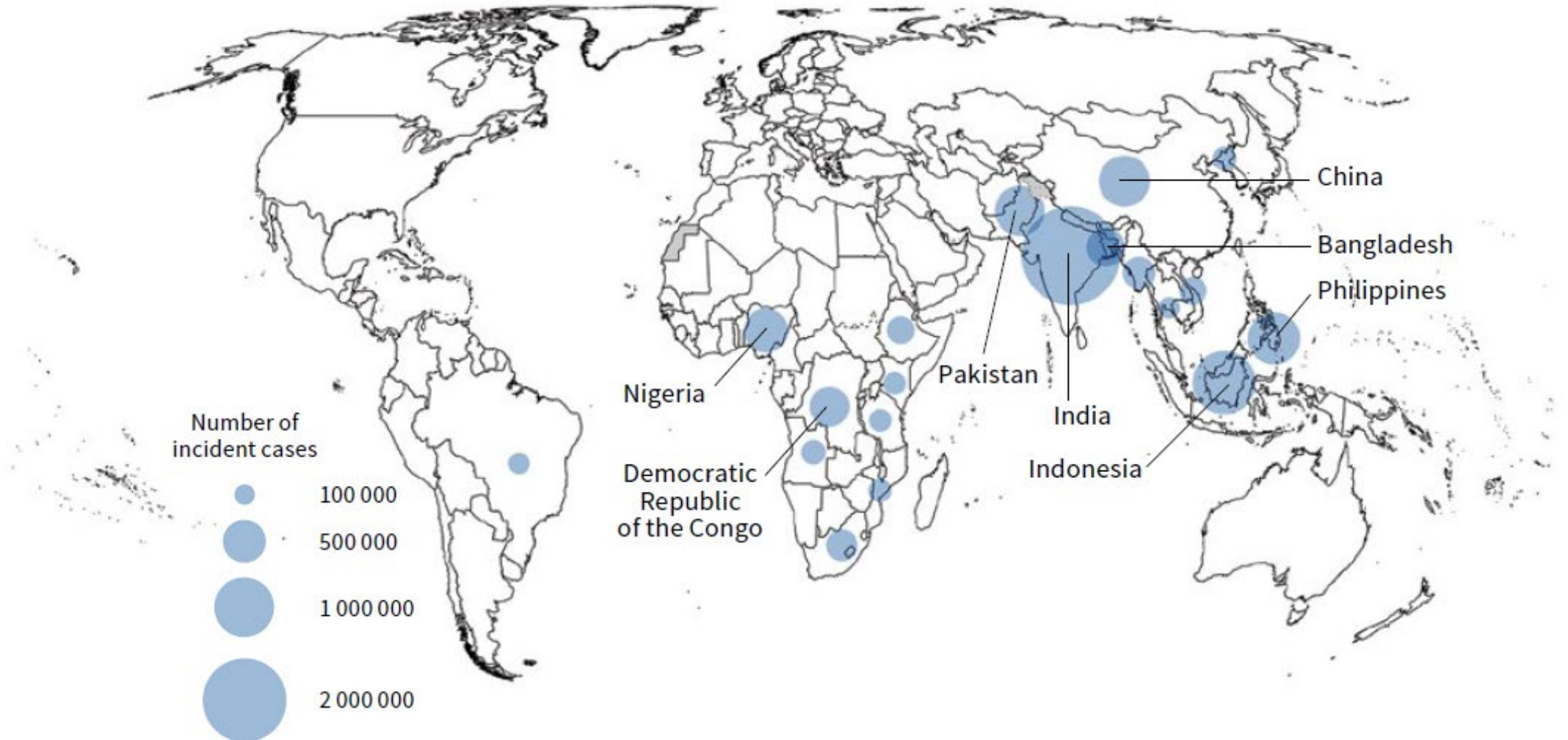
Trivia Question 1



All of the following have historically been used to refer to tuberculosis, except:

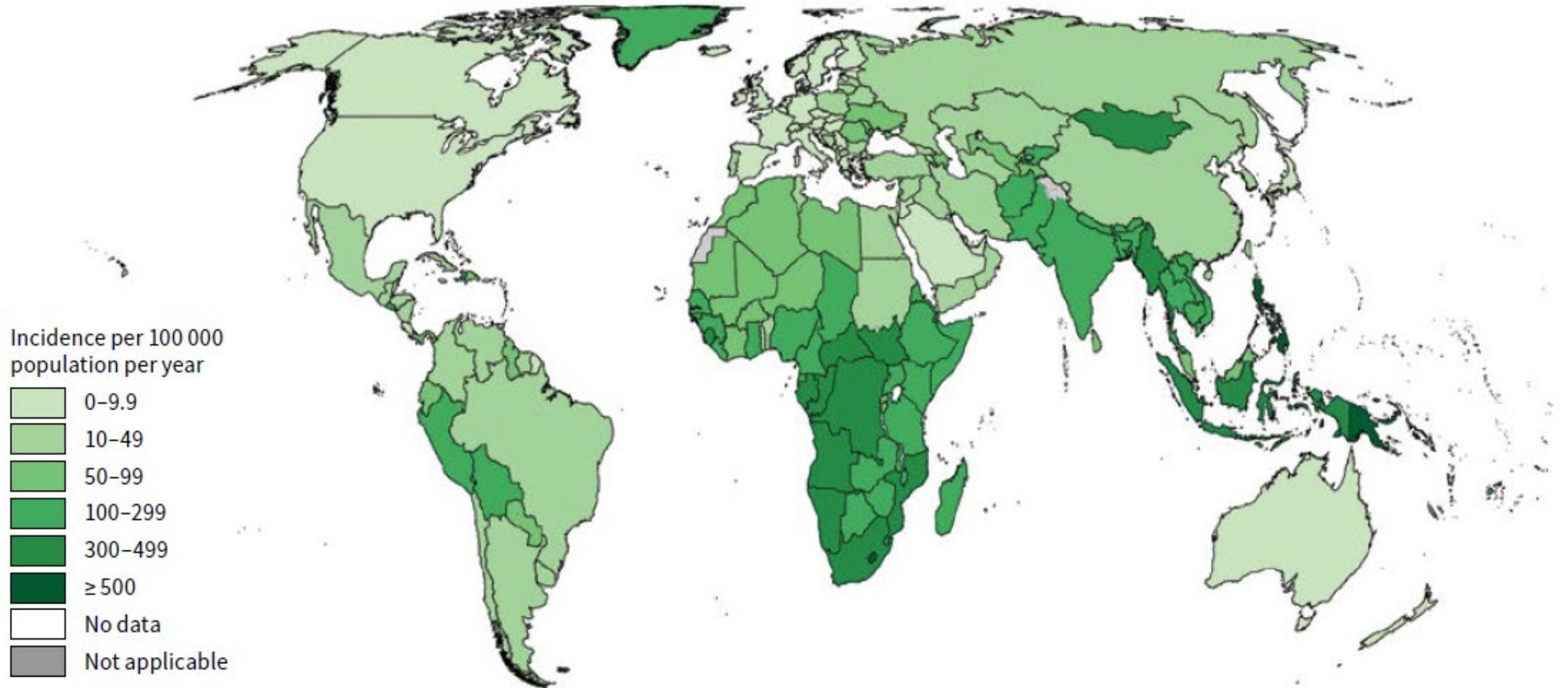
- A. White Plague
- B. Consumption
- C. Potts Disease
- D. King's Evil
- E. Mortification

Estimated Number of Cases



^a The labels show the eight countries that accounted for two thirds of the global number of people estimated to have developed TB in 2024.

Estimated TB Incidence Rates by Country



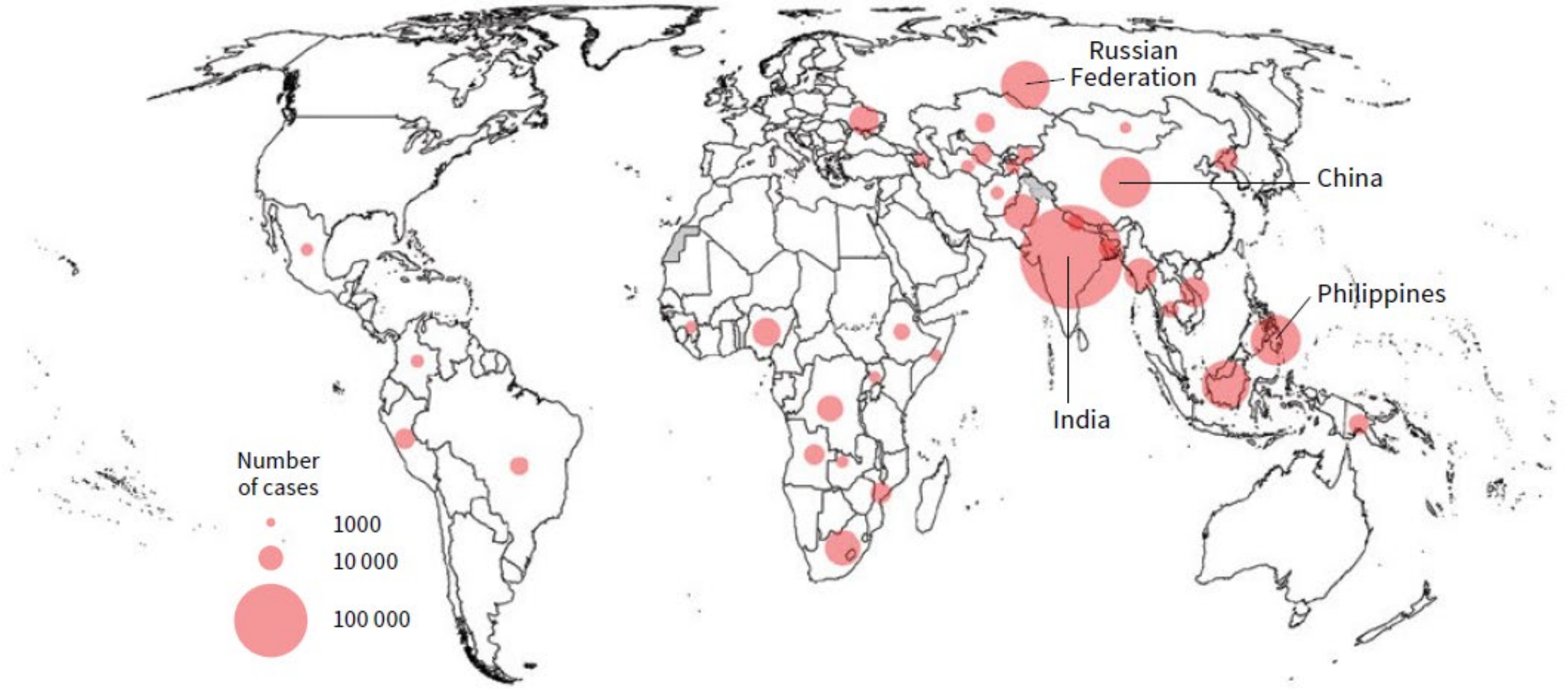
Trivia Question 2



Which of the following cannot detect TB?

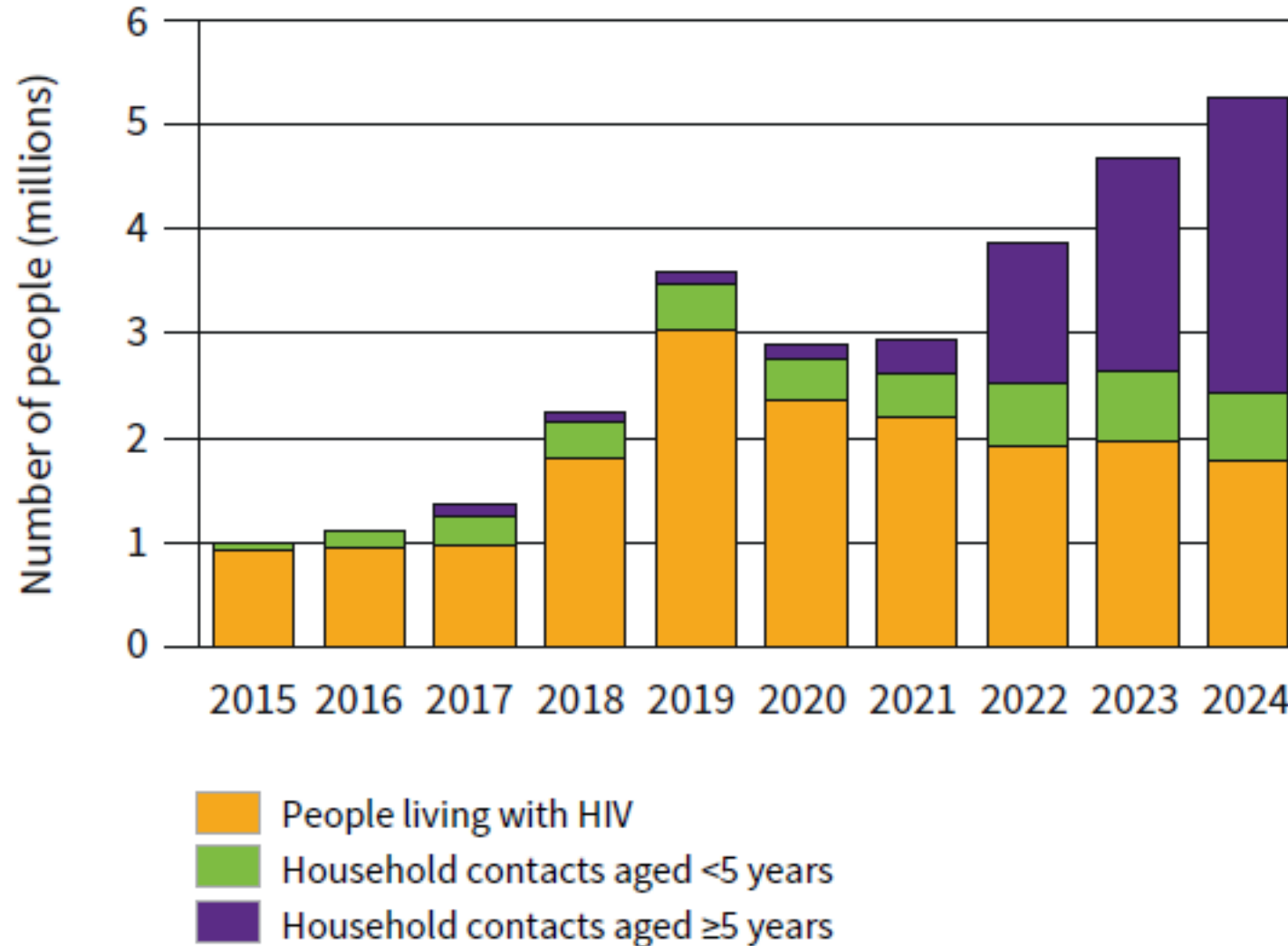
- A. Cepheid GeneXpert MTB/RIF
- B. *Aedes* mosquitoes
- C. MALDI-TOF with specific isolate libraries
- D. African giant pouched rats
- E. DNA sequencing

Estimated MDR/RR-TB Incidence

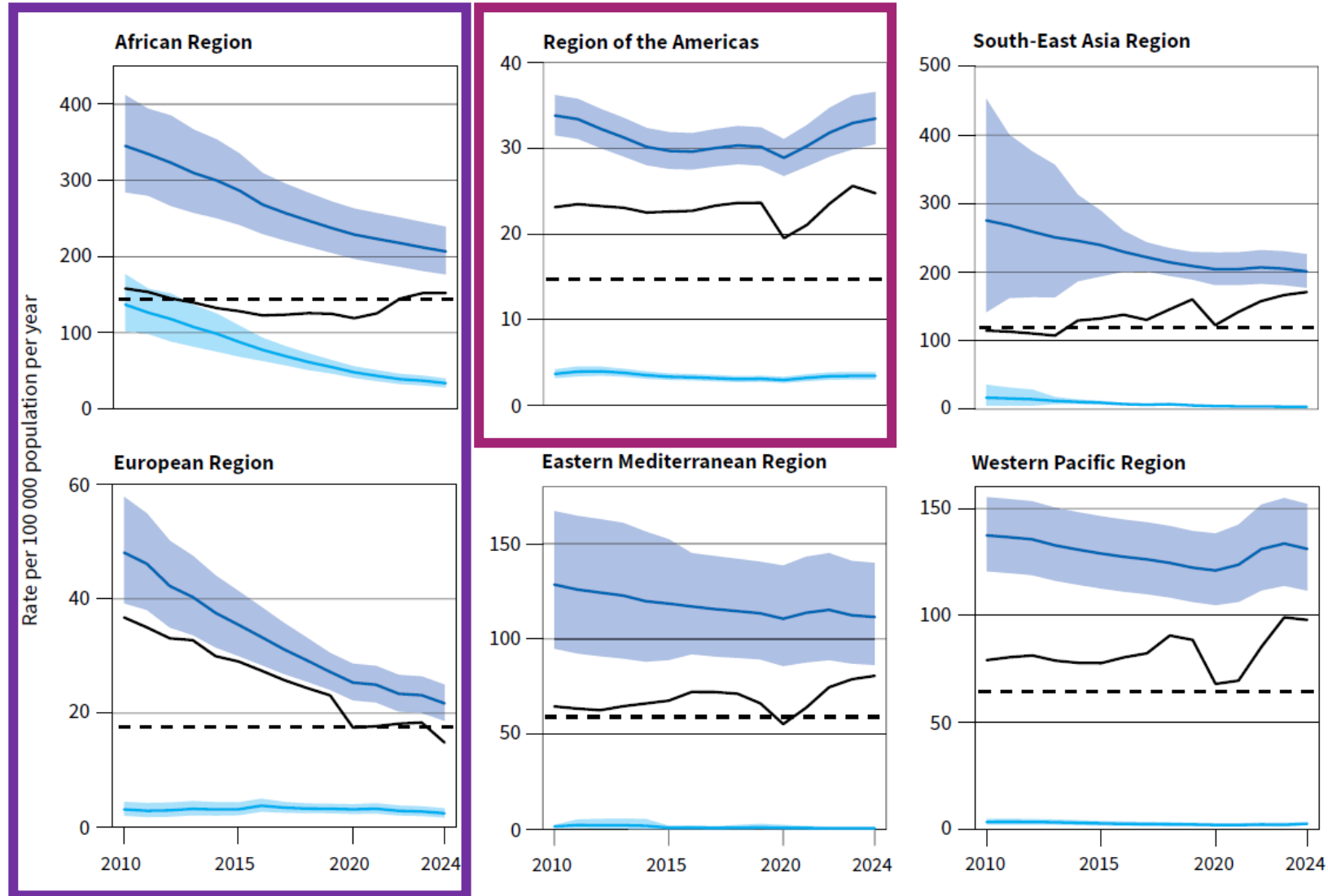


^a The labels show the four countries that accounted for more than half of the global number of people estimated to have developed MDR/RR-TB in 2024.

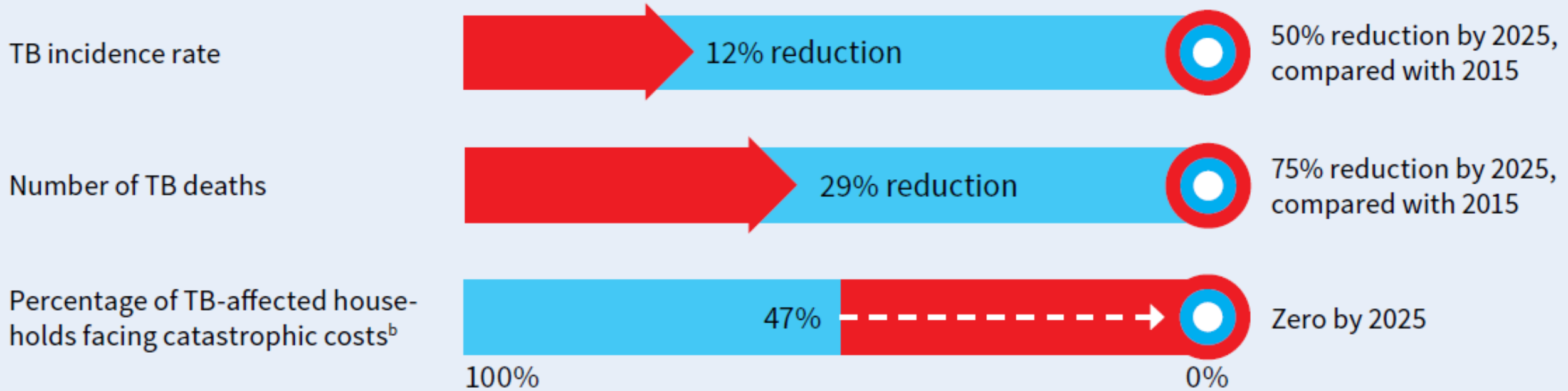
Number of People Provided TB Preventive Treatment



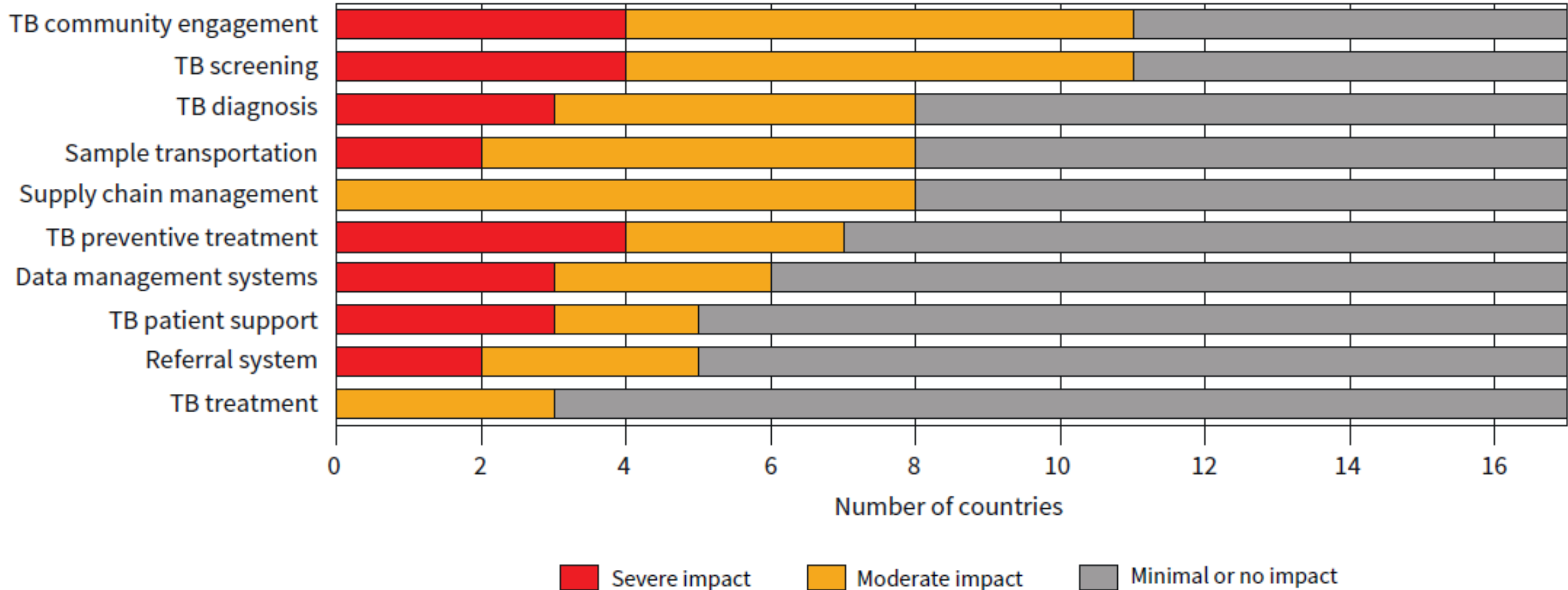
Incidence Rate Trends by WHO Region



End TB Strategy, 2025 Milestones



Reported Impacts on TB Services and Support Systems



^a As of August 2025, information was not available for four of the 21 countries shown in Fig. 29. Information was obtained from WHO country offices between April and August 2025.

United States Case Data

Tuberculosis Epidemiology



Tuberculosis (TB) Disease in the United States 1993–2024*

Division of Tuberculosis Elimination

National Center for HIV, Viral Hepatitis, STD, and TB Prevention

National Tuberculosis Surveillance System

*Data updated as of July 10, 2025

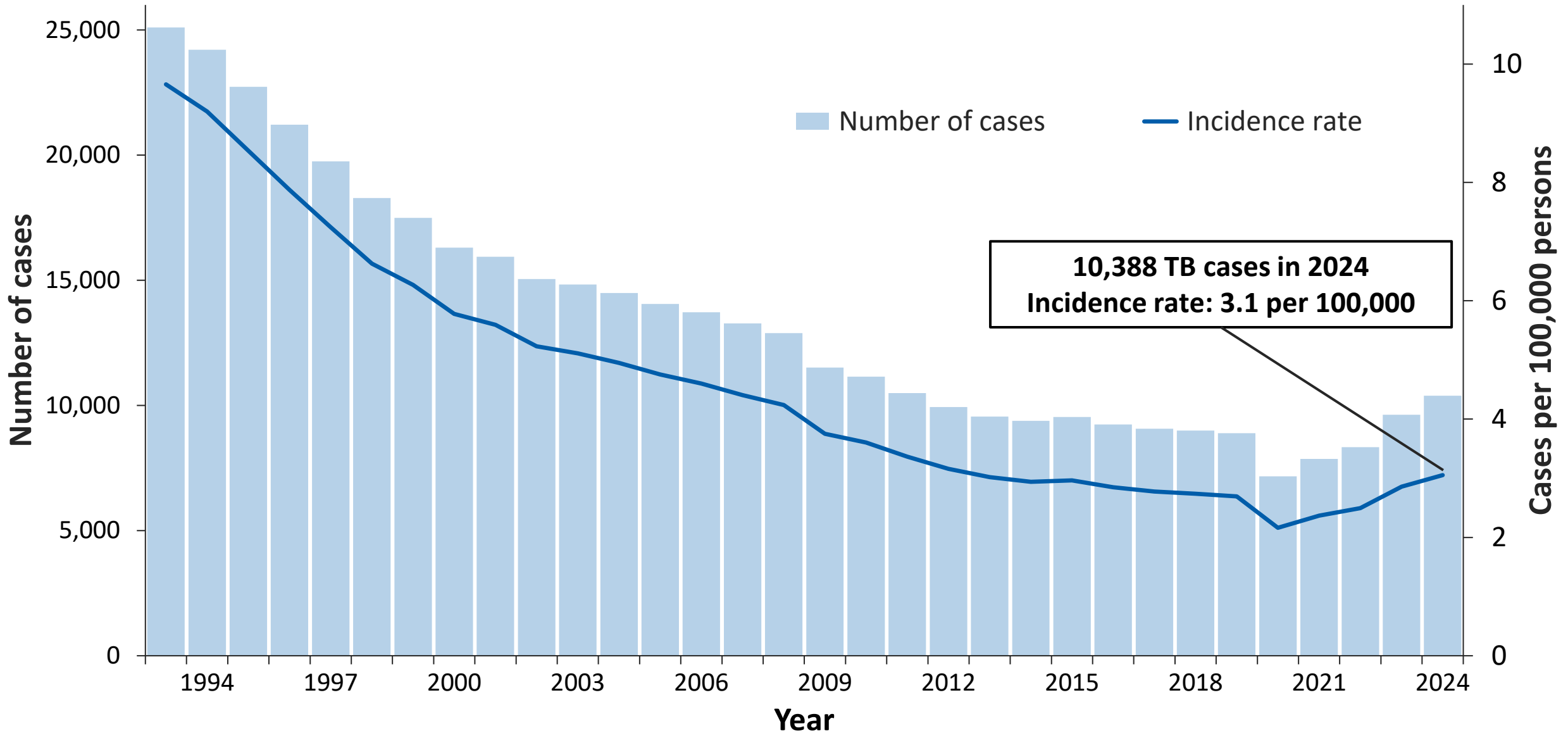
[CDC Tuberculosis Disease in the United States, 1993-2024](#)

Trivia
Question 3 ✓

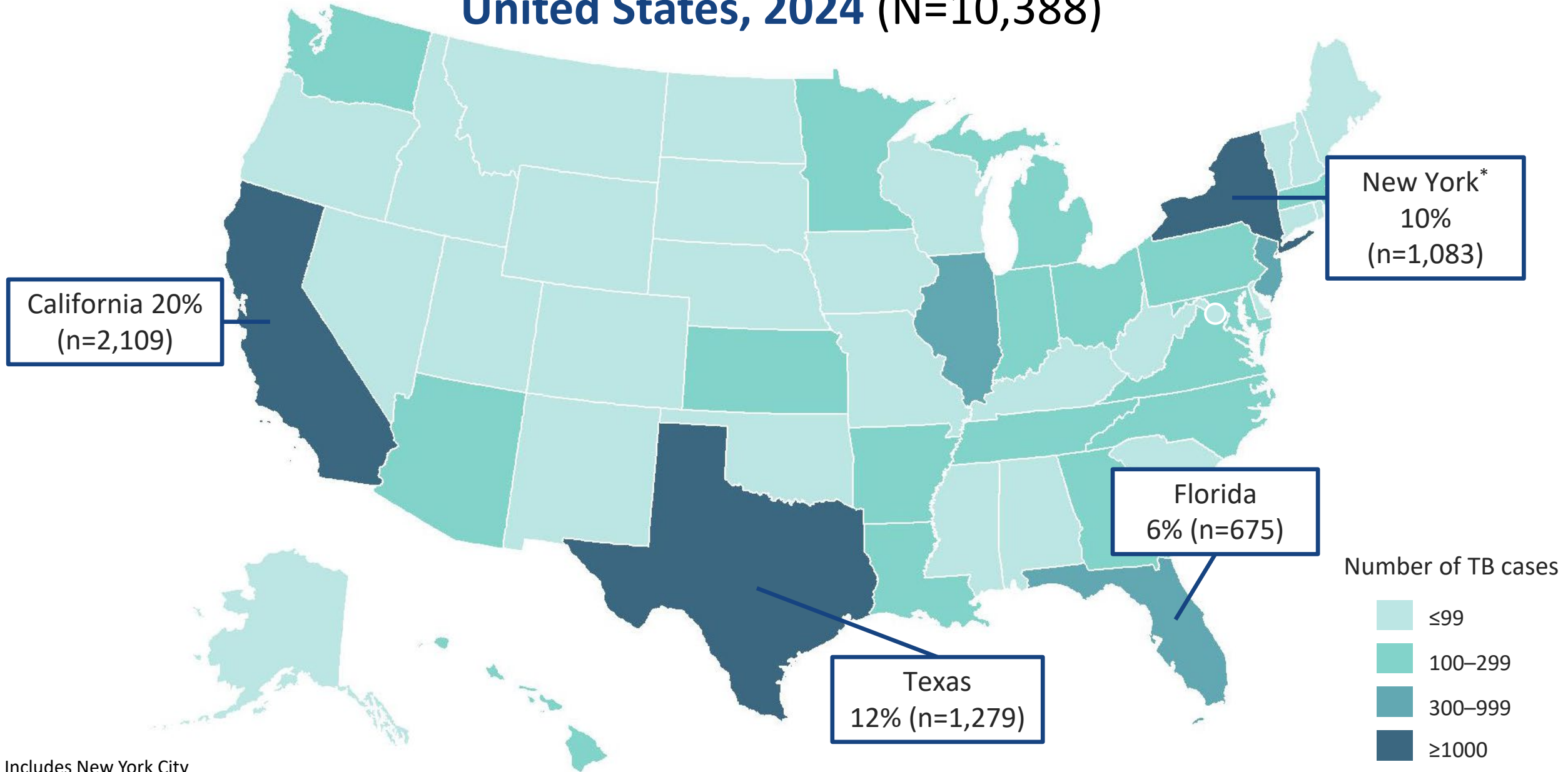
When was the first report of TB published?

- A. 1990
- B. 1893
- C. 1889
- D. 1923
- E. 1953

TB Cases and Incidence Rates, United States, 1993–2024

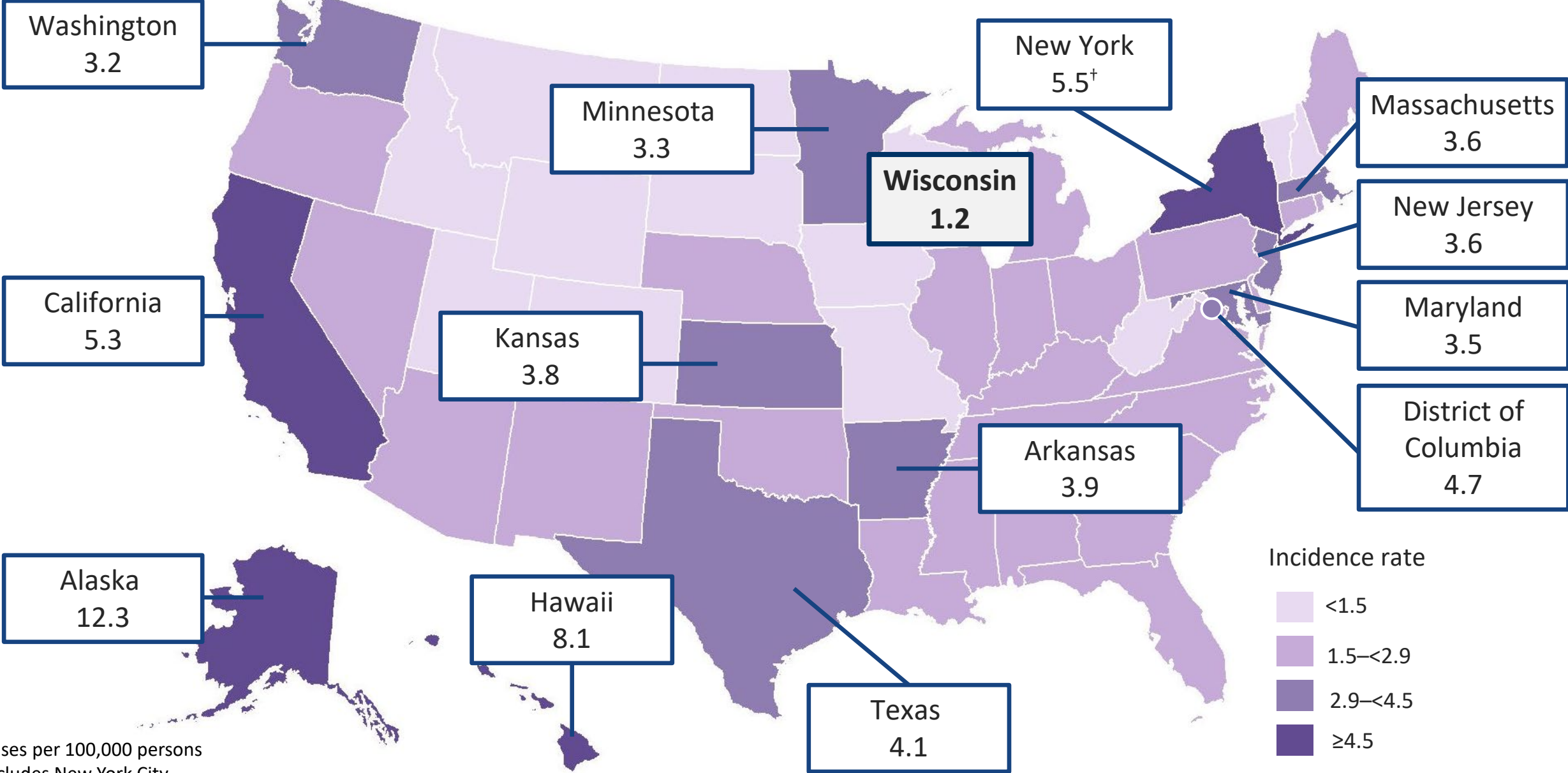


TB Cases and Percentages by Reporting Area, United States, 2024 (N=10,388)



* Includes New York City

TB Incidence Rates* by Reporting Area, United States, 2024



Incidence rate

- <1.5
- 1.5–<2.9
- 2.9–<4.5
- ≥4.5

*Cases per 100,000 persons

[†]Includes New York City

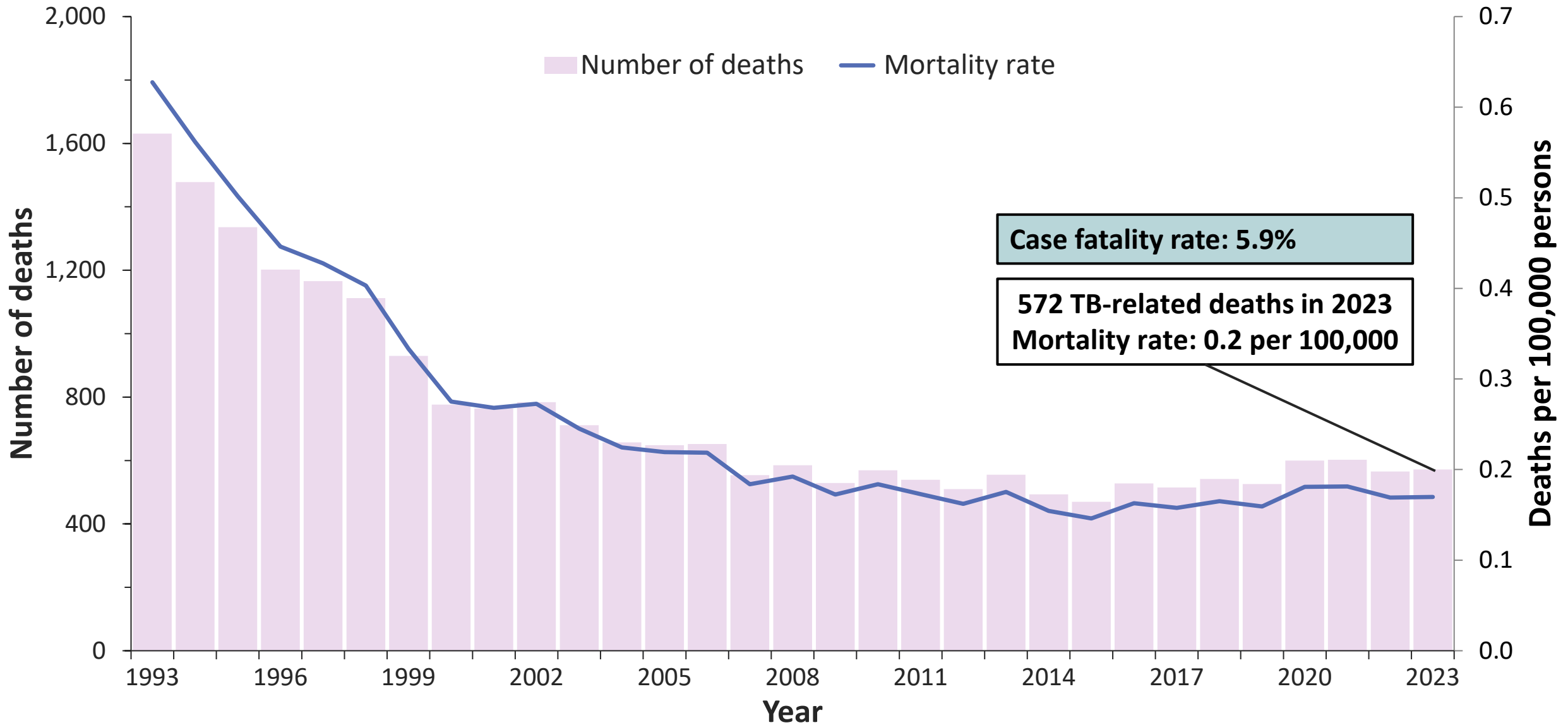
Trivia Question 4



Which of the following were at least, in part, related to or a result of TB?

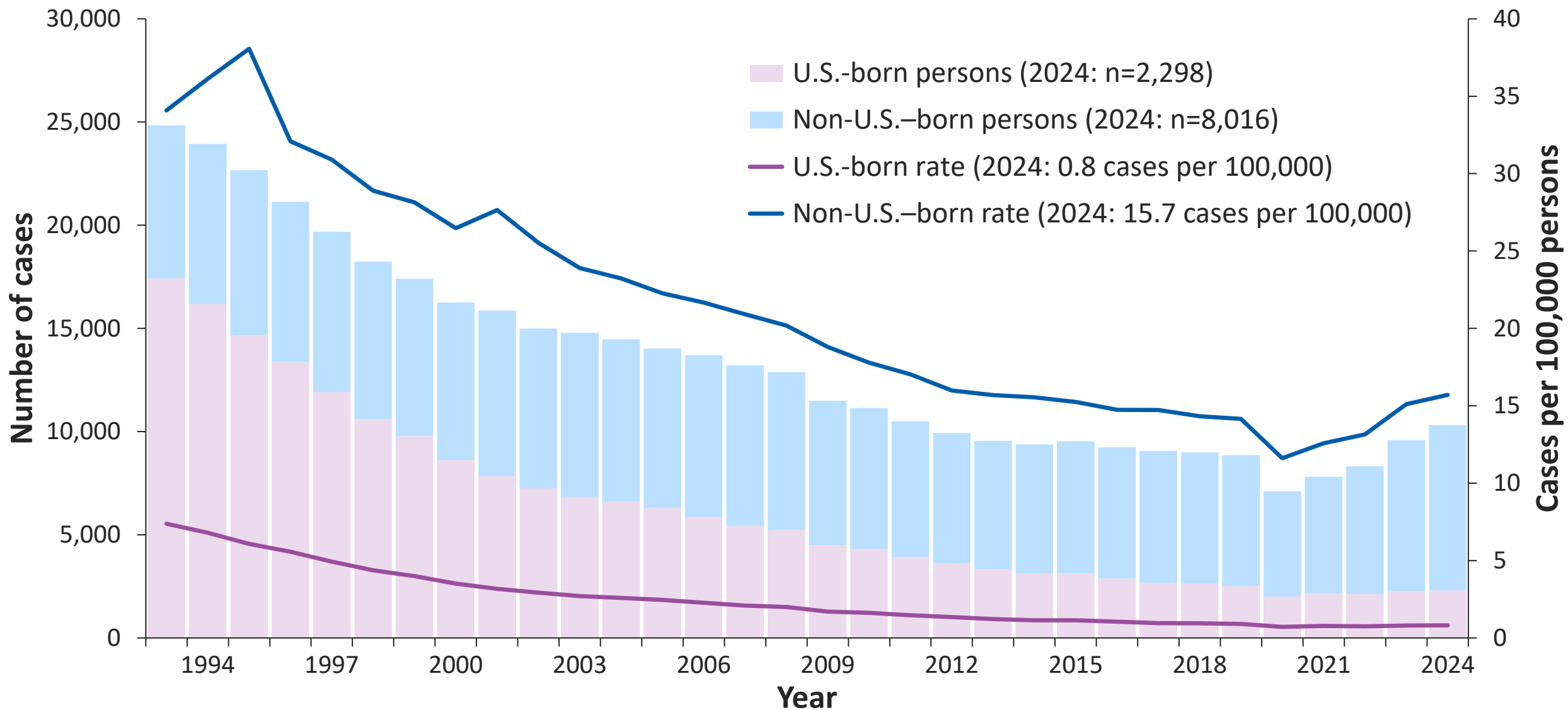
- A. Shorter hemlines for skirts
- B. Cowboy hats
- C. Spittoons
- D. New Mexico statehood
- E. All the above

TB-Related Deaths* and Mortality Rates, United States, 1993–2023



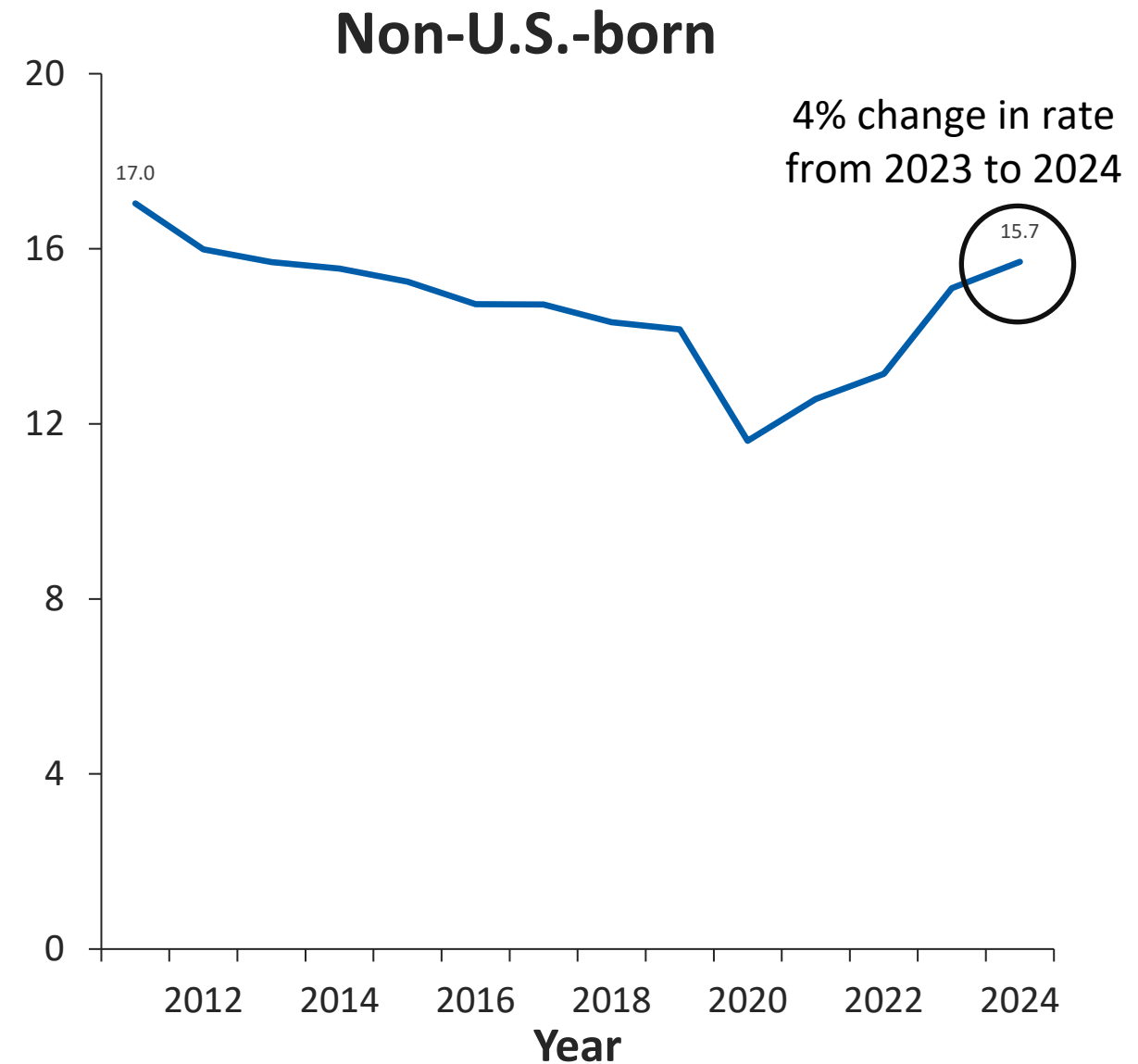
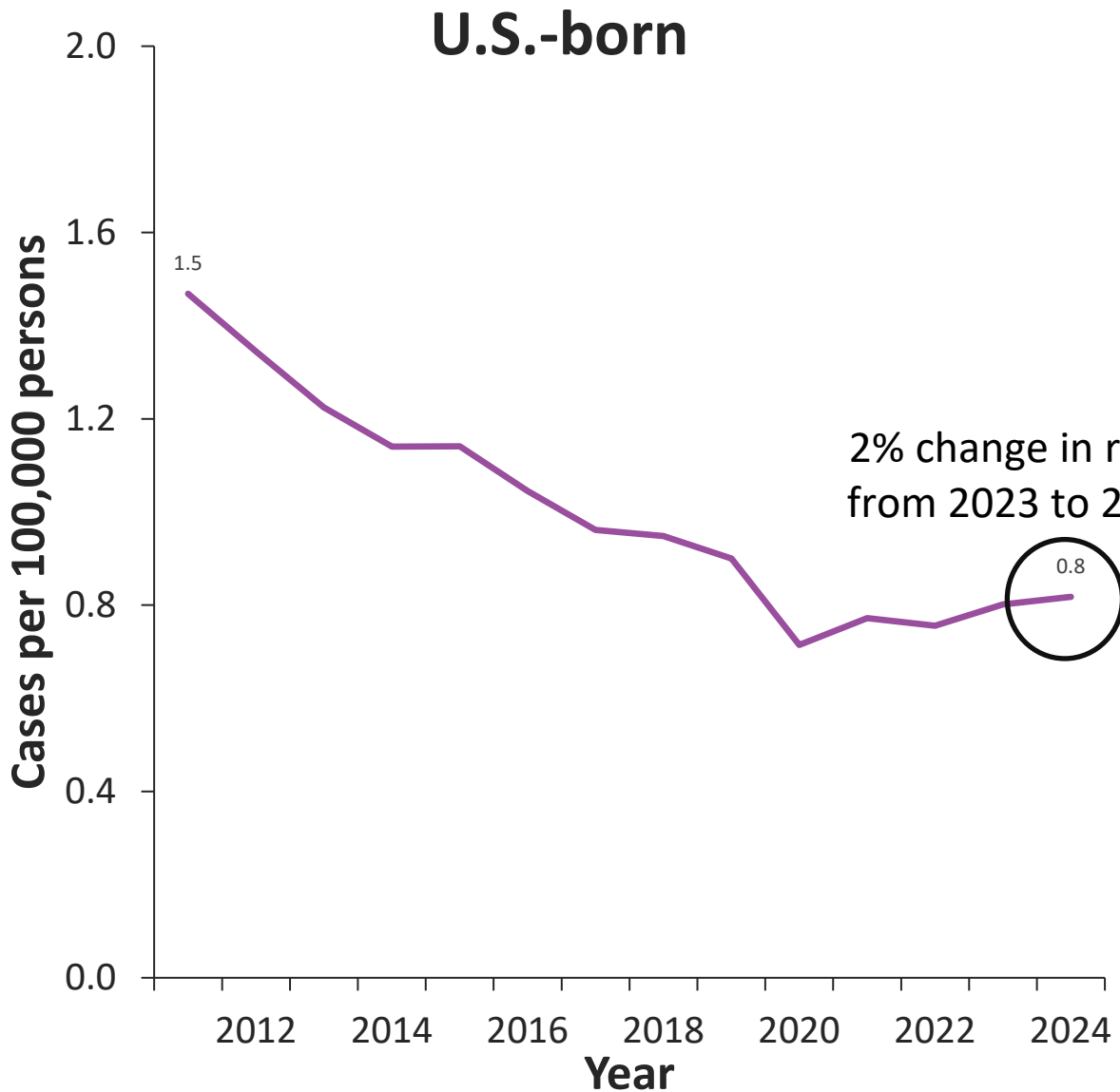
*National Vital Statistics System Underlying Cause of Death (based on deaths reported through 2023)

TB Cases and Incidence Rates by Origin of Birth,* United States, 1993–2024



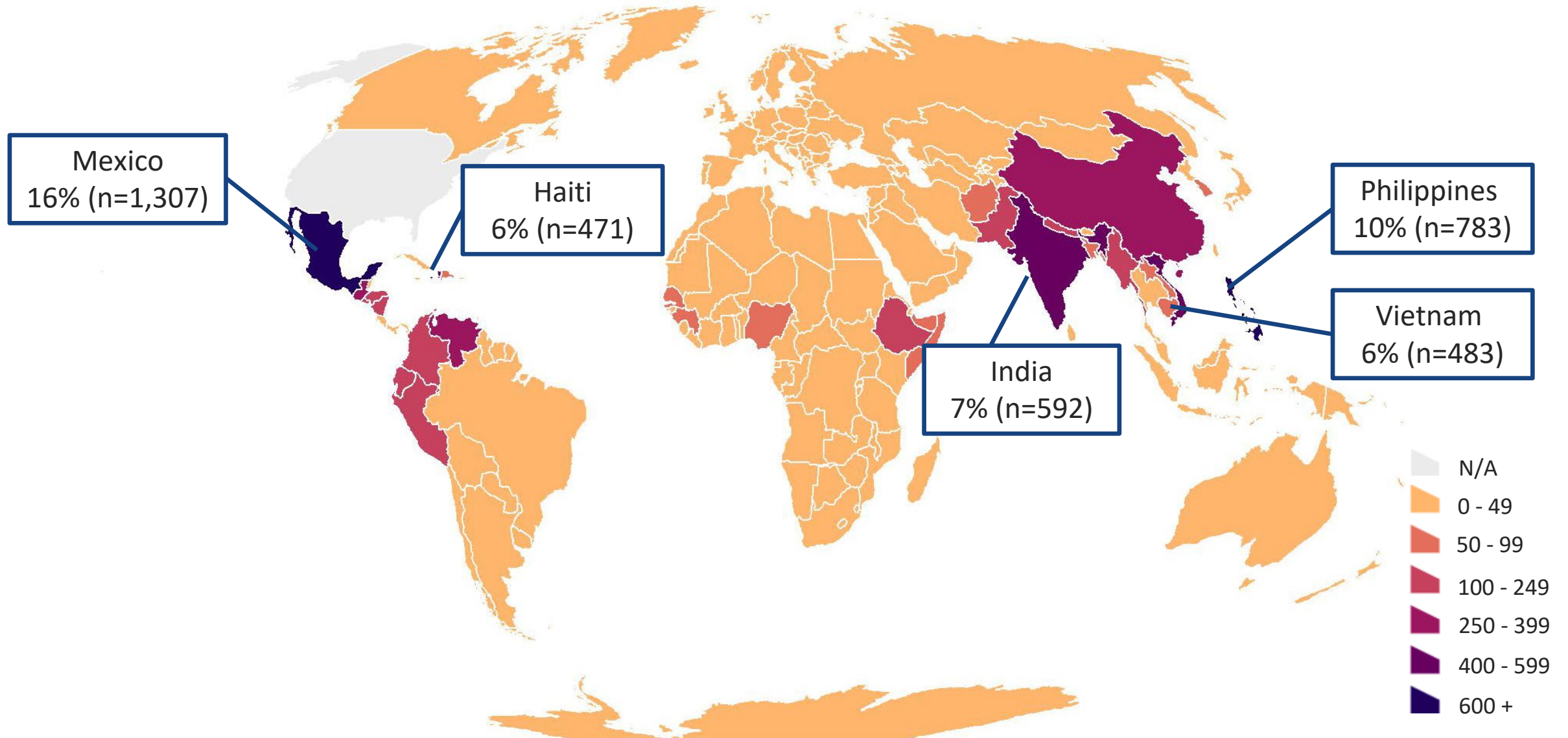
*Persons born in the United States, certain U.S. territories, or elsewhere to at least one U.S. citizen parent are categorized as U.S.-born. All other persons are categorized as non-U.S.-born.

TB Incidence Rates by Origin of Birth,* United States, 2011–2024



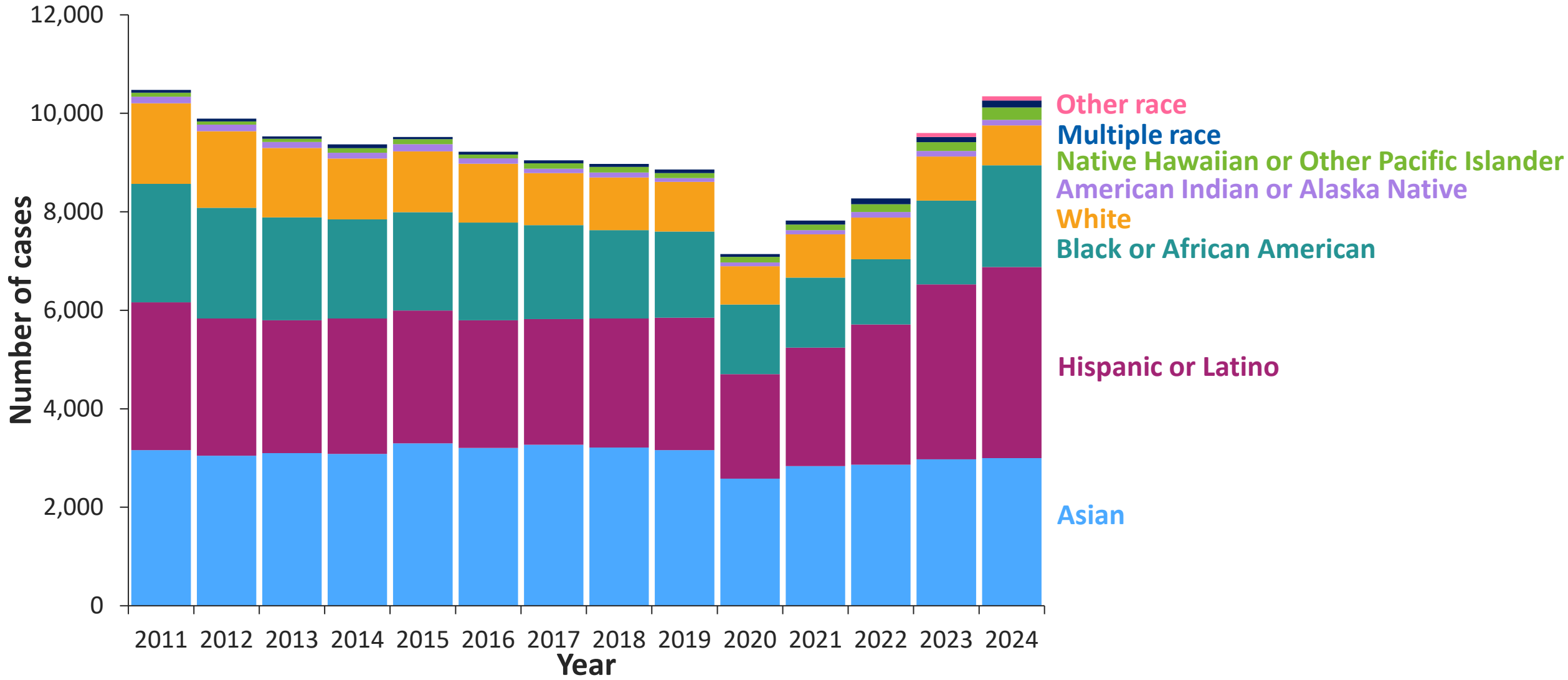
*Persons born in the United States, certain U.S. territories, or elsewhere to at least one U.S. citizen parent are categorized as U.S.-born. All other persons are categorized as non-U.S.-born.

TB Cases by Countries of Birth Among Non-U.S.–Born* Persons, United States, 2024 (N=8,016)



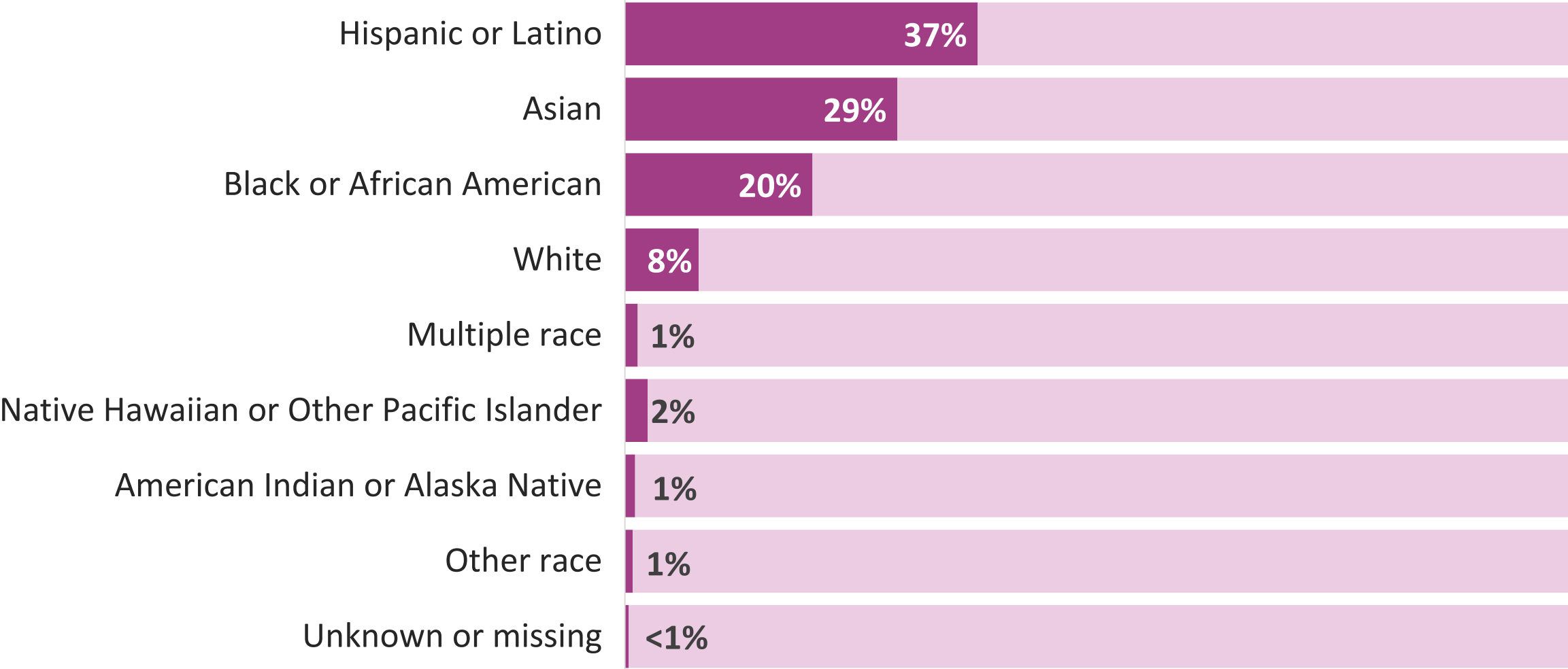
*Persons born in the United States, certain U.S. territories, or elsewhere to at least one U.S. citizen parent are categorized as U.S.-born. All other persons are categorized as non-U.S.–born.

TB Cases by Race/Ethnicity,* United States, 2011–2024



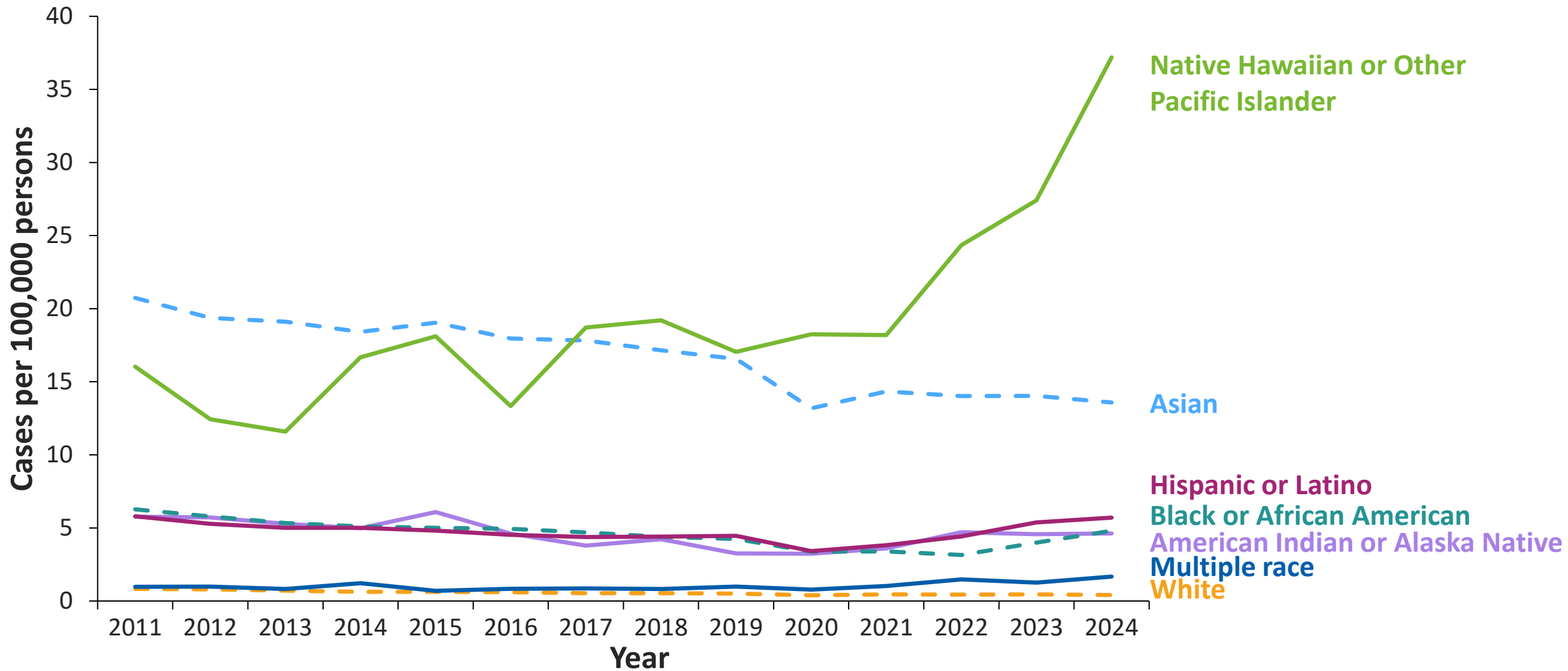
*Persons who identified as Hispanic or Latino were categorized as "Hispanic," regardless of self-reported race. Persons who did not identify as Hispanic or Latino were categorized by self-reported race; if more than one race was reported, the person was categorized as "Multiple race." "Other race" was first reported as a new race category in 2023.

Percentage of TB Cases by Race/Ethnicity,* United States, 2024 (N=10,388)



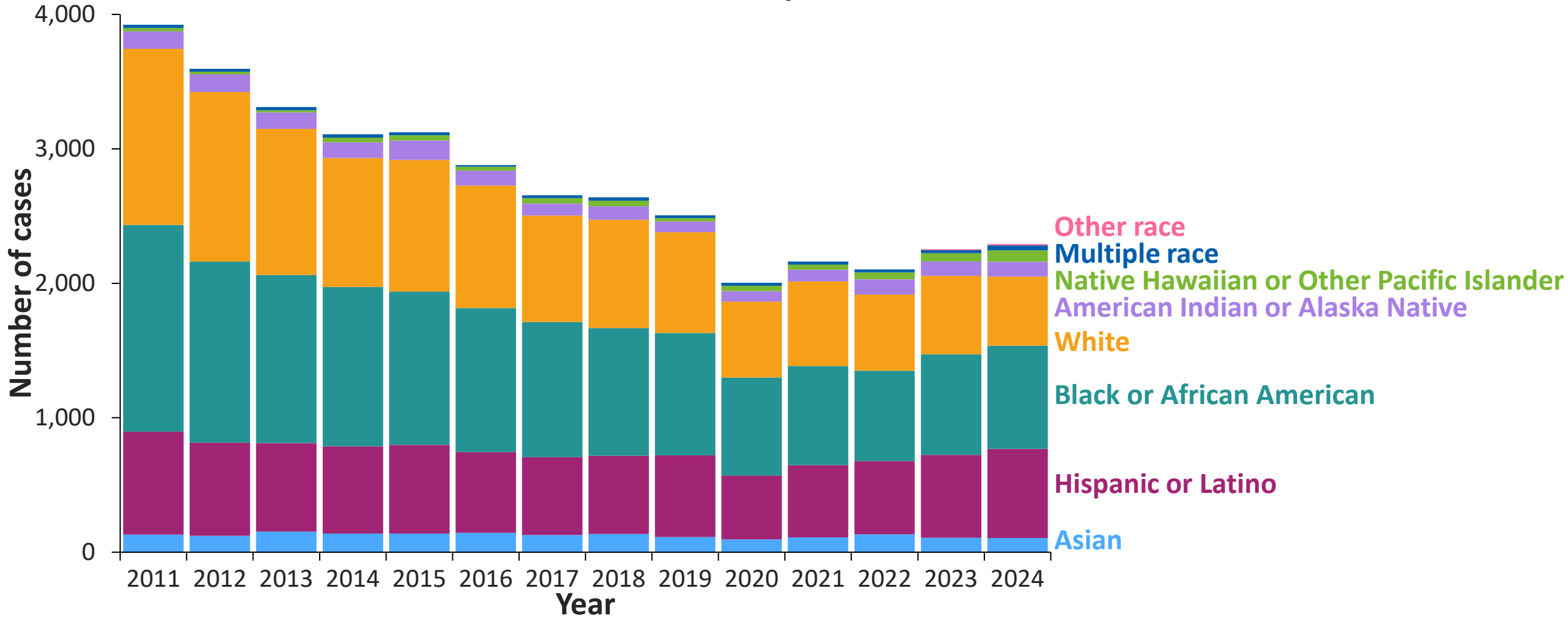
*Persons who identified as Hispanic or Latino were categorized as "Hispanic," regardless of self-reported race. Persons who did not identify as Hispanic or Latino were categorized by self-reported race; if more than one race was reported, the person was categorized as "Multiple race."

TB Incidence Rates by Race/Ethnicity,* United States, 2011–2024



*Persons who identified as Hispanic or Latino were categorized as "Hispanic," regardless of self-reported race. Persons who did not identify as Hispanic or Latino were categorized by self-reported race; if more than one race was reported, the person was categorized as "Multiple race." Population data for "Other race" were not available.

TB Cases Among U.S.-Born* Persons by Race/Ethnicity,[†] United States, 2011–2024

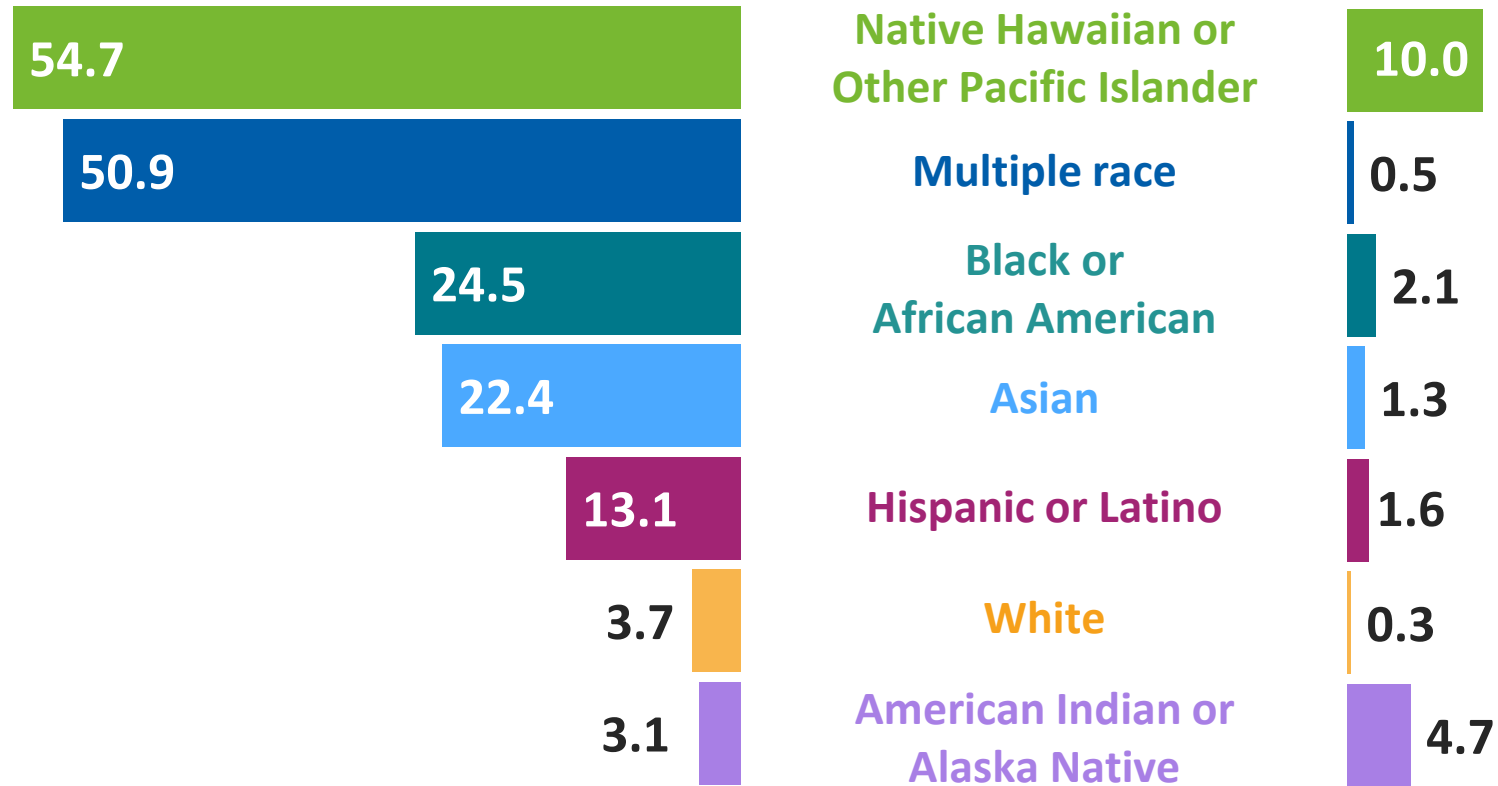


*Persons born in the United States, certain U.S. territories, or elsewhere to at least one U.S. citizen parent are categorized as U.S.-born. All other persons are categorized as non-U.S.-born.
[†]Persons who identified as Hispanic or Latino were categorized as "Hispanic," regardless of self-reported race. Persons who did not identify as Hispanic or Latino were categorized by self-reported race; if more than one race was reported, the person was categorized as "Multiple race." "Other race" was first reported as a new race category in 2023.

TB Incidence Rates* by Origin† and Race/Ethnicity,§ United States, 2024

Non-U.S.–born persons
(N=8,016)

U.S.-born persons
(N=2,298)



* Cases per 100,000 persons

† Persons born in the United States, certain U.S. territories, or elsewhere to at least one U.S. citizen parent are categorized as U.S.-born. All other persons are categorized as non-U.S.–born.

§ Persons who identified as Hispanic or Latino were categorized as "Hispanic," regardless of self-reported race. Persons who did not identify as Hispanic or Latino were categorized by self-reported race; if more than one race was reported, the person was categorized as "Multiple race." Population data for "Other race" were not available.

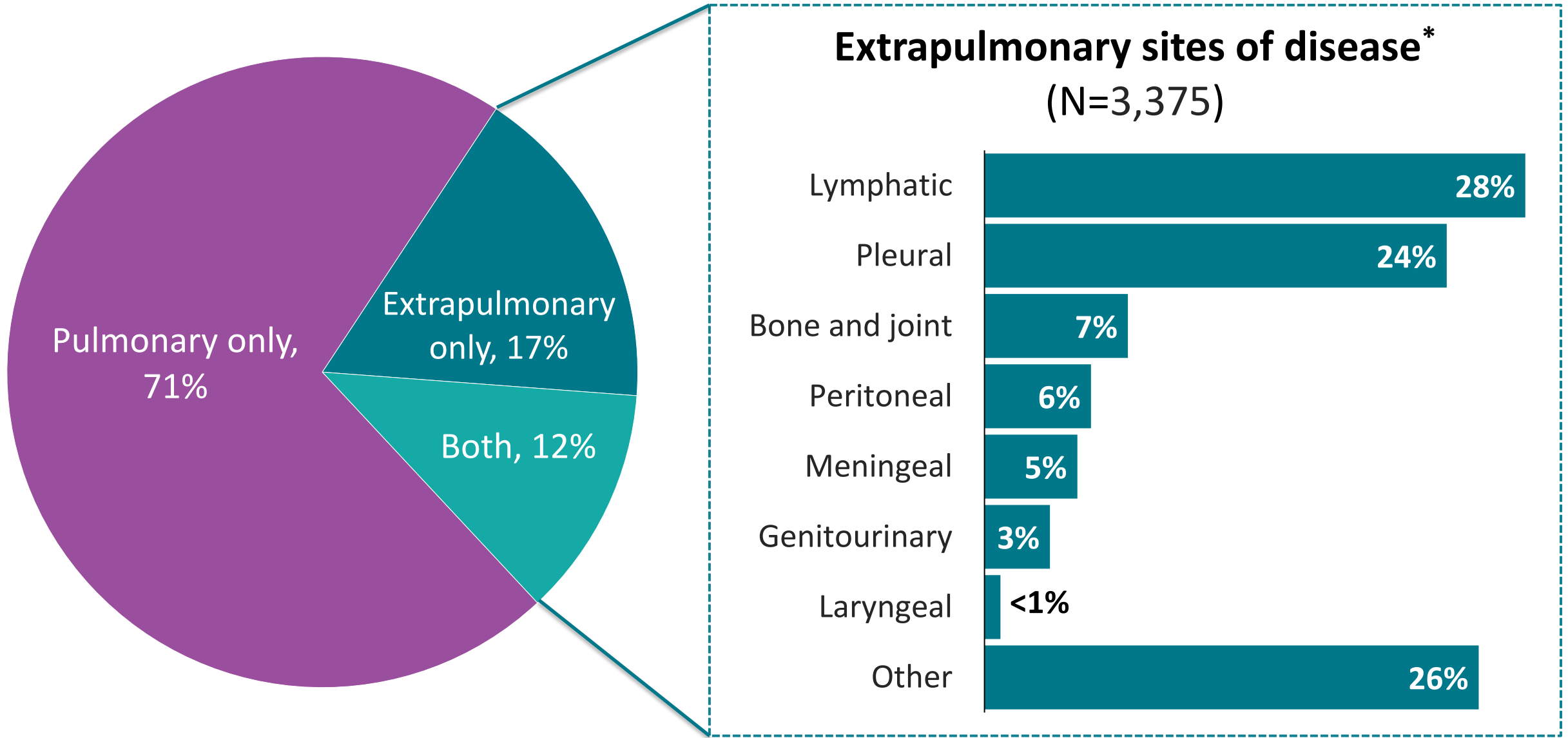
Trivia Question 5



Who developed the process to create a purified protein derivative (PPD) of tuberculin?

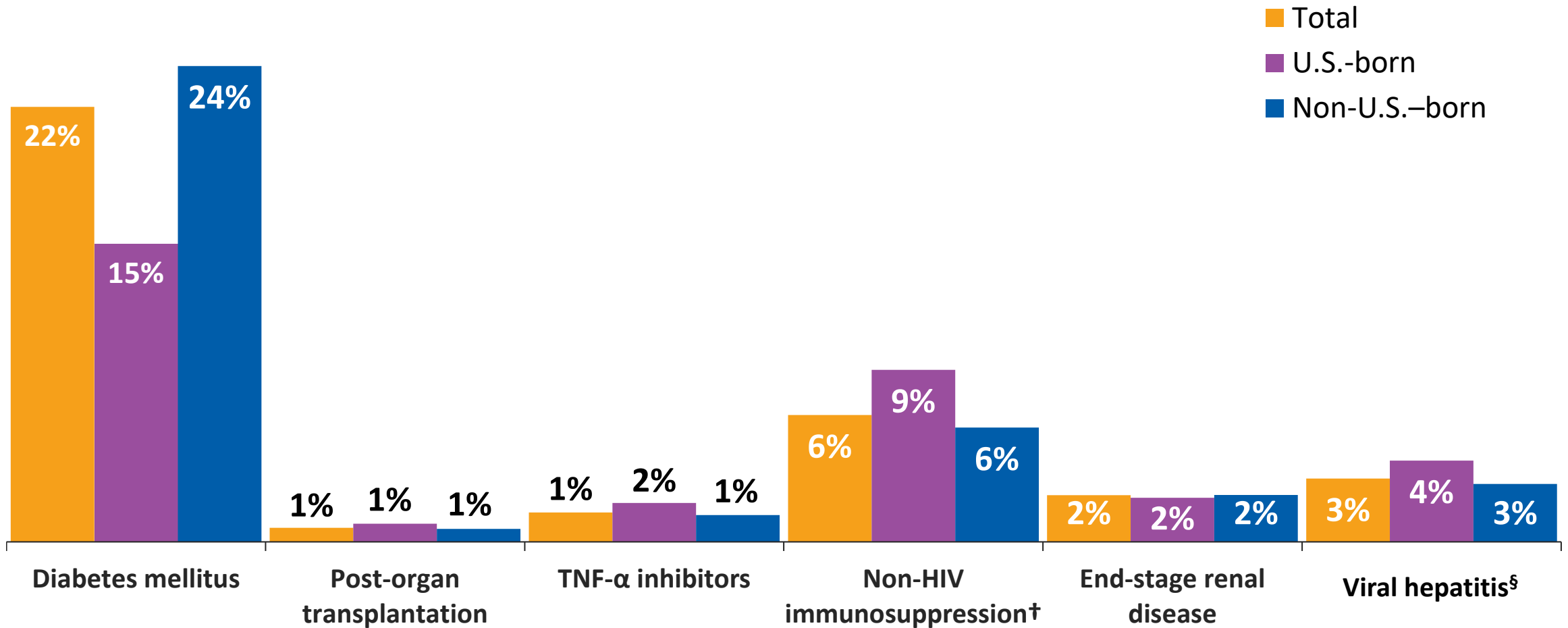
- A. Florence Seibert
- B. Charles Mantoux
- C. Robert Koch
- D. Albert Calmette
- E. Ignaz Semmelweis

Percentage of TB Cases by Site of Disease, United States, 2024



* Persons might have more than one extrapulmonary site of disease.

Percentage of Selected Medical Risk Factors Among Persons with TB by Origin of Birth,* United States, 2024



* Persons born in the United States, certain U.S. territories, or elsewhere to at least one U.S. citizen parent are categorized as U.S.-born. All other persons are categorized as non-U.S.-born.

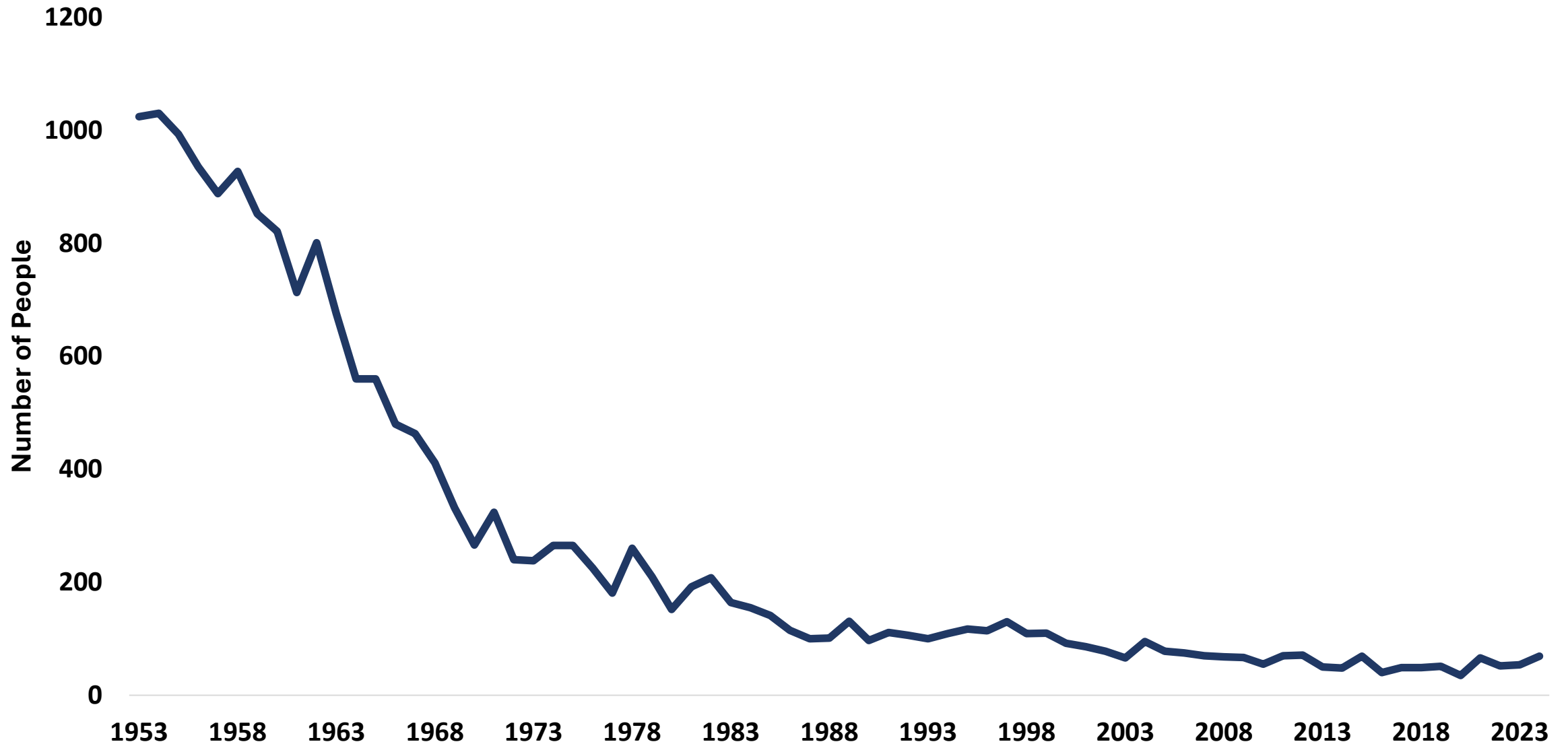
† Excludes HIV and other conditions elsewhere represented in this figure.

§ Diagnosed with hepatitis B or C (acute or chronic).

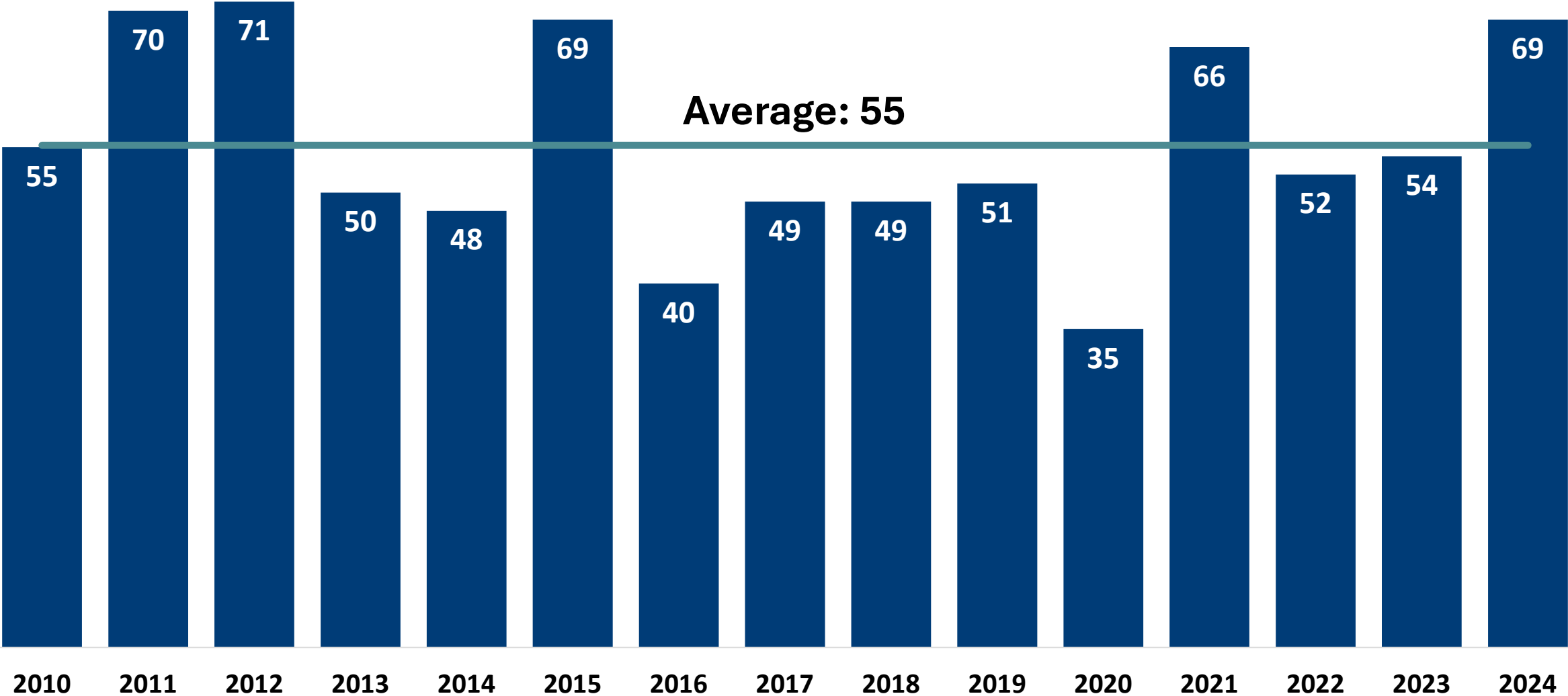
Wisconsin Case Data

2010–2024

Annual TB Case Count Since 1953



Annual TB Case Count



Trivia Question 6



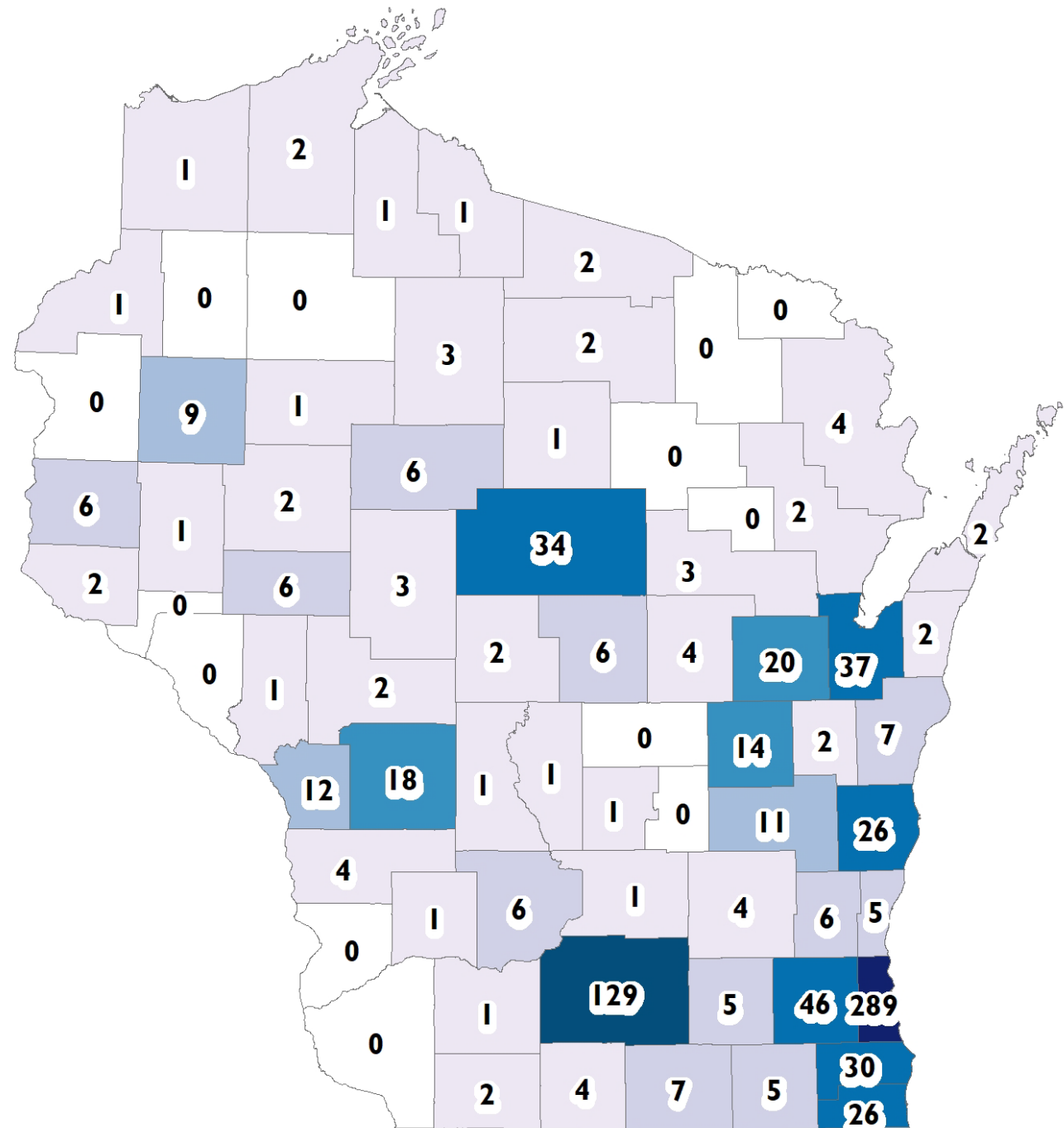
In what year was the number of people with TB in Wisconsin last over 100 people?

- A. 1999
- B. 2019
- C. 2012
- D. 1972

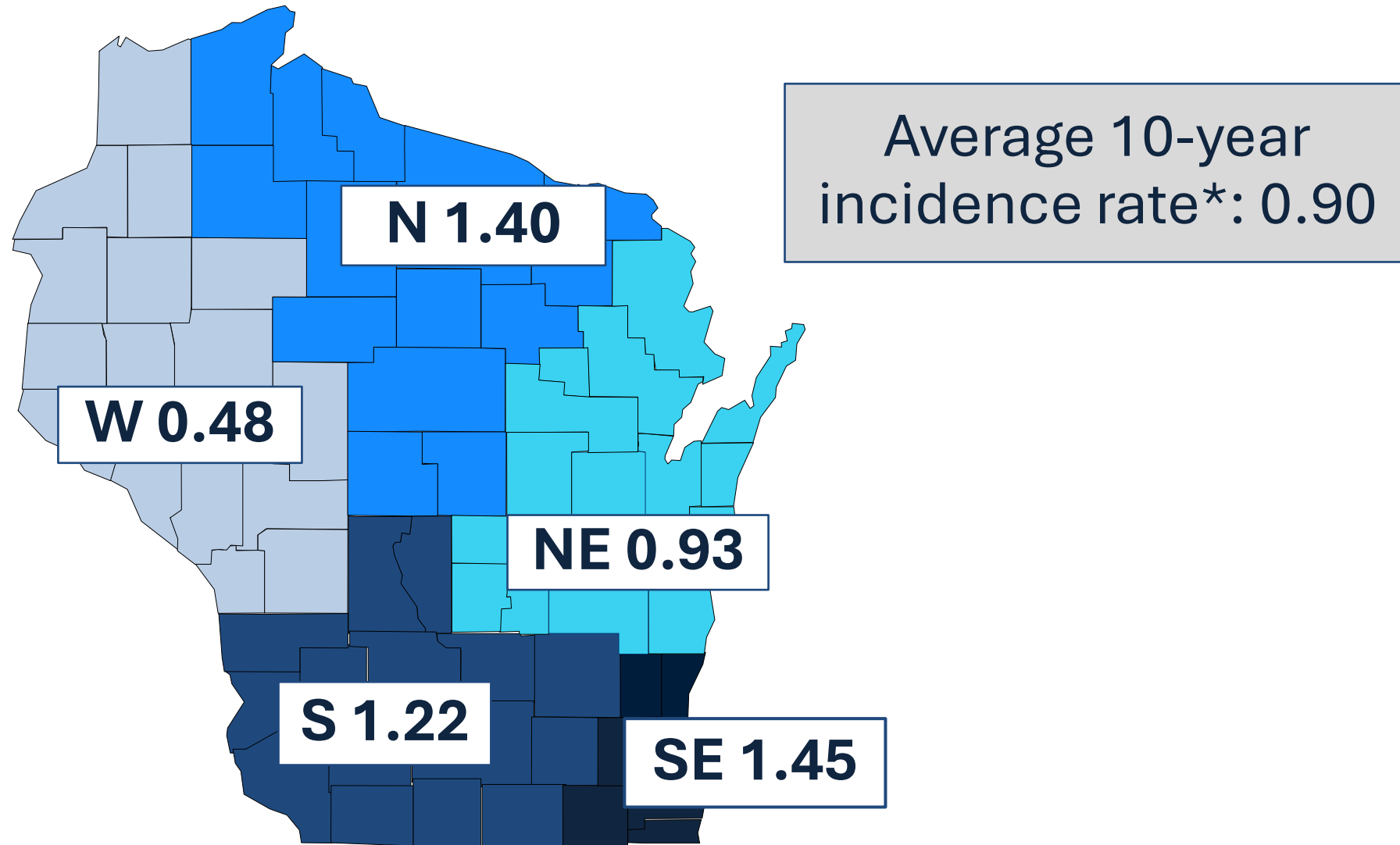
Wisconsin Regions

2010-2024

Number of People With TB by County



Regional Incidence Rates*



*Incidence rates per 100,000 population on this slide calculated using Wisconsin DOA annual population estimates

Trivia Question 7



All of the following were TB Sanatoria in Wisconsin, except:

- A. Lake View Sanatorium
- B. Seaview Hospital
- C. Pureair Sanatorium
- D. Maple Crest Sanatorium
- E. Muirdale Tuberculosis Hospital

Lake View Madison, WI

LAKE VIEW Patient voices



Tuberculosis was a leading disease in 1900, killing millions worldwide, tens of thousands in the U.S., and thousands in Wisconsin.

Life was not easy for patients at Lake View sanatorium. Most came from Madison and smaller Dane County communities. Most were young, in their 20s and 30s. Common occupations of patients in 1933 included housewife, farmer, laborer, school child, nurse, store clerk, stenographer, student, maid, teacher, and mechanic.

“It was quite a building and on a hill like that—it was like a palace. Except you were a prisoner no matter what. It was boring. There wasn’t much to do. If it hadn’t been for the radio and books, I would’ve lost my mind.”

— Katherine, Lake View patient

“Miss Edith Dopp, Lakeview typing instructor, states that typing students for her class are in great demand. All on ex. 6 and above who would like to take typing see her on Mon., Wed., or Fri. for enrollment. (at 5 PM)”

— Lakeviews Monthly, January 1953

“Some patients have expressed their interest in photography and it seems fitting to suggest forming a Camera Club. This group would hold round (or square) table discussions with cameras on hand and exchange ideas and knowledge in camera techniques. Several advanced ‘Photo Bugs’ have indicated their willingness to instruct a group in developing and printing. Paul Rasmussen of the Rehab Dep’t. says that we have one of the finest dark rooms in the state. Here is an opportunity to learn to use your camera and getting the most from it.”

— Lakeviews Monthly, January 1953

“It is with a tear in our eye and a flutter in our heart that we this week announce the discharge of one of our more prominent alumni, one of the truly greats of Lake View, a former member of the *View Point* Staff, the idol of the males and females alike, a gentleman in the eyes of all and one that 2nd floor is proud and privileged to have numbered among its personnel, a man who has cheated the grim reaper and is now truly ready to return to the work of industry in restored health and vigor. That gentleman and scholar, better known as Kelly, received his honorable discharge last week and departed from these hallowed premises on Sunday to resume his niche in the outside world.”

— *The View Point*, Aug. 13, 1938



“Harry, in 322, is from Madison and worked at the Kipp. He is married, has a son and daughter, and stated, “There is nothing else to know about me, except that I’m anxiously waiting to get outside.”

— *Lake Views*, October/November 1944

“Over across the hall in 321 we find Ed and Art. Ed is making billfolds and feeding the squirrels that are in the room at night. Art is taking life easy and keeping an eye on Ed, which is a full time job.”

— *Lakeviews Bi-Monthly*, November/December 1953



“Tuberculosis is a disease most prevalent between the ages of 15 and 40, a time of life when the loss of time and loss of life is most costly to the community. During these periods the father and the mother are most needed by their children and by the community, and the loss of a father and mother at this period is most costly to the community. Most other diseases taking a heavy toll of life take their victims at a later period, largely after 40, when the loss of life to the family and to the community is often not so keenly felt.”

— *Lake View Sanatorium, Third Annual Report, 1932-1933*

“We often snuck off the ground and sat on the tombstones out back behind Lakeview Lutheran Church—just to get away from the building. Someone had a key to the church under a rock or bush, and some patients would go smoke in the church. They even hid things, like liquor, there.”

— Katherine, Lake View patient

INCREASED VISITING HOURS FOR CHILDREN
Beginning February 15 all patients who have been negative for three months may have their children visit them, in their rooms. Patients are asked to heed a few simple rules:

1. One Sunday visit per month.
2. Children must wear a mask while in patient’s room.
3. Children are not permitted on beds.
4. Patients are requested not to embrace children.
5. Allow nursing staff to remove mask and see that child has his or her hands washed before leaving the building.

— *Lakeviews Monthly*, February 1953



IMAGE CREDITS Top left National Register of Historic Places. All others, left to right, top to bottom Wisconsin Historical Society: WHS-62860, WHS-53853, WHS-96599, WHS-72557, WHS-72565, WHS-96586, WHS-62863, WHS-96590, WHS-19276, WHS-50094.

Pureair Sanatorium

“The San”

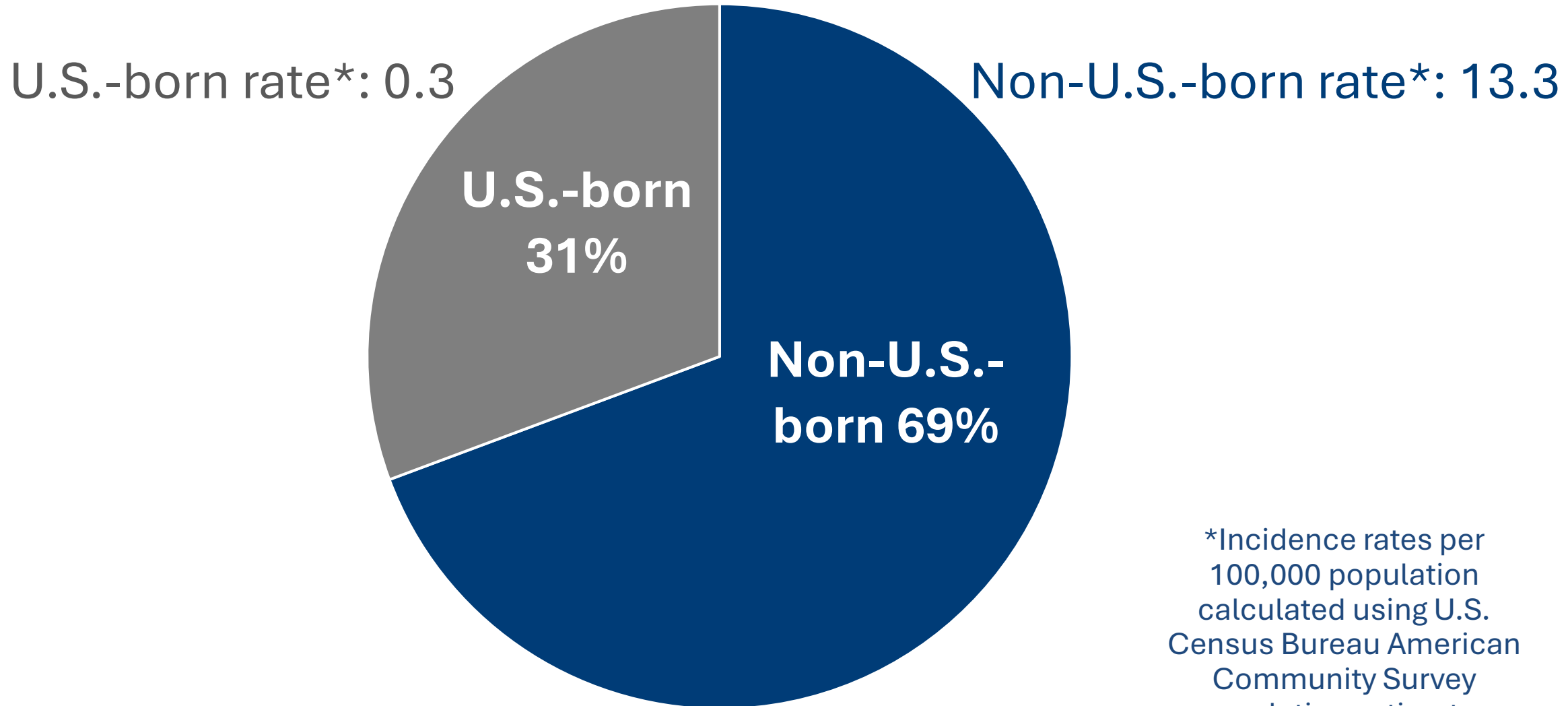
Bayfield, WI



Origin of Birth

2010-2024

More Non-U.S.-Born Persons Have TB



U.S.-born rate*: 0.3

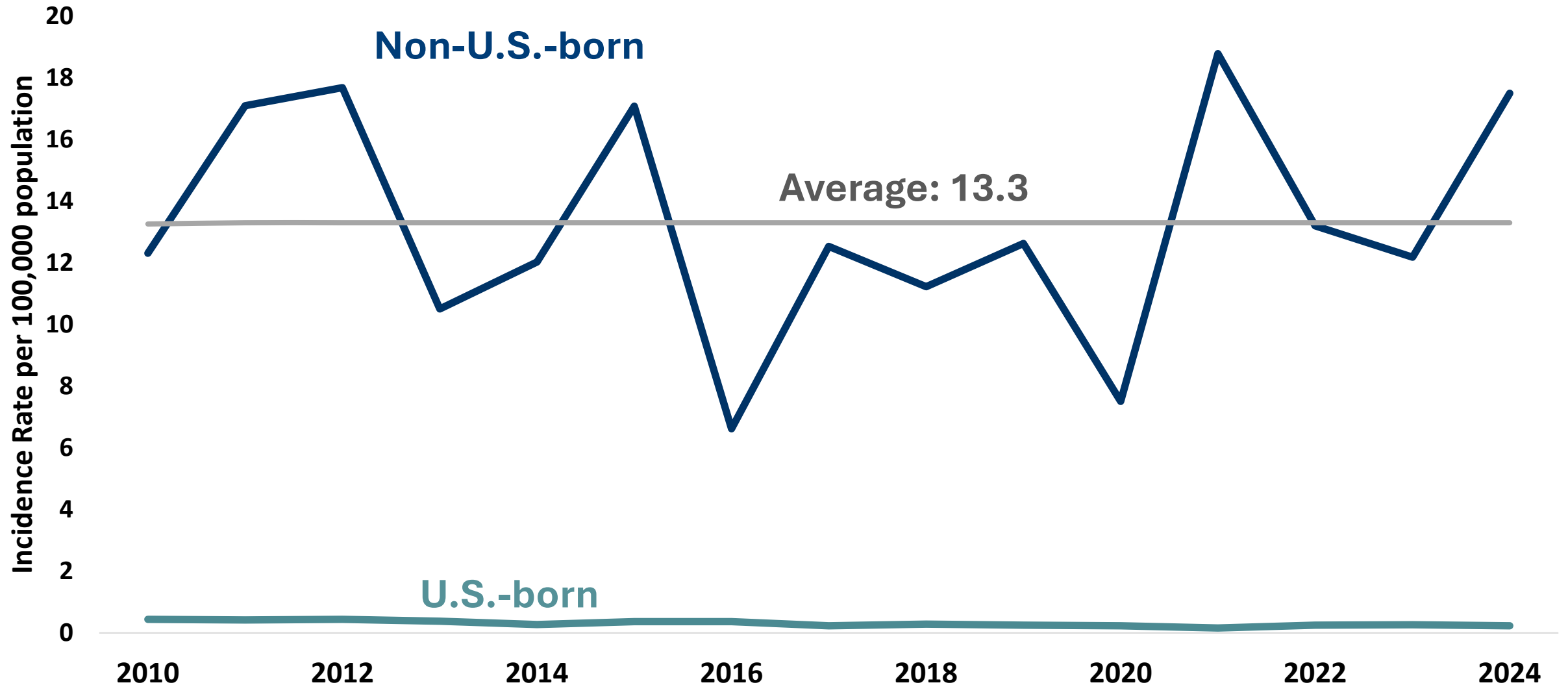
Non-U.S.-born rate*: 13.3

**U.S.-born
31%**

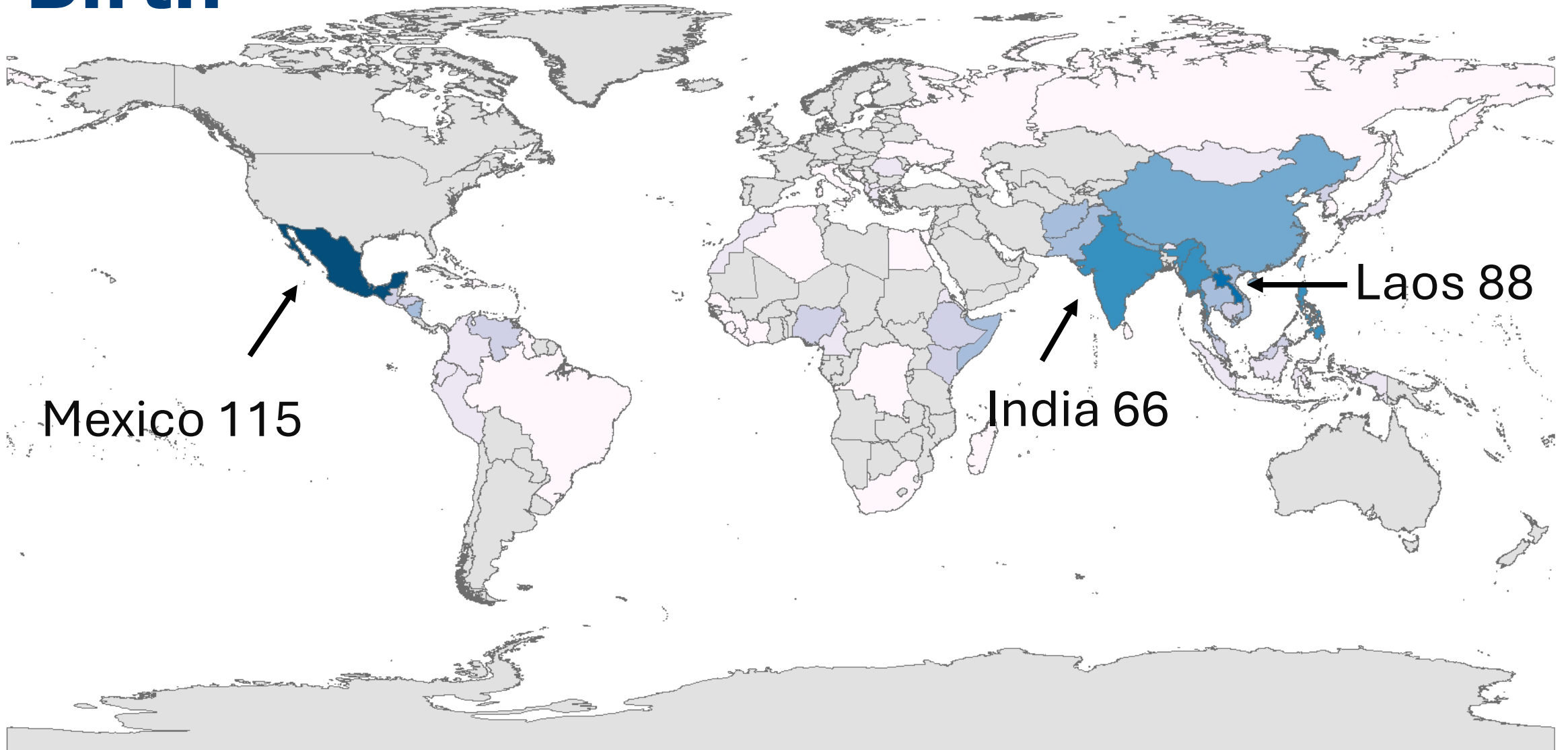
**Non-U.S.-
born 69%**

*Incidence rates per 100,000 population calculated using U.S. Census Bureau American Community Survey population estimates

Incidence is Higher for Non-U.S.-Born Persons



Non-U.S.-Born Cases by Country of Birth



U.S. Census American Community Survey (ACS) Country of Birth Estimates Available in 2017



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American Community Survey (ACS)

The [American Community Survey](#) (ACS) helps local officials, community leaders, and businesses understand the changes taking place in their communities. It is the premier source for detailed population and housing information about our nation.



Featured

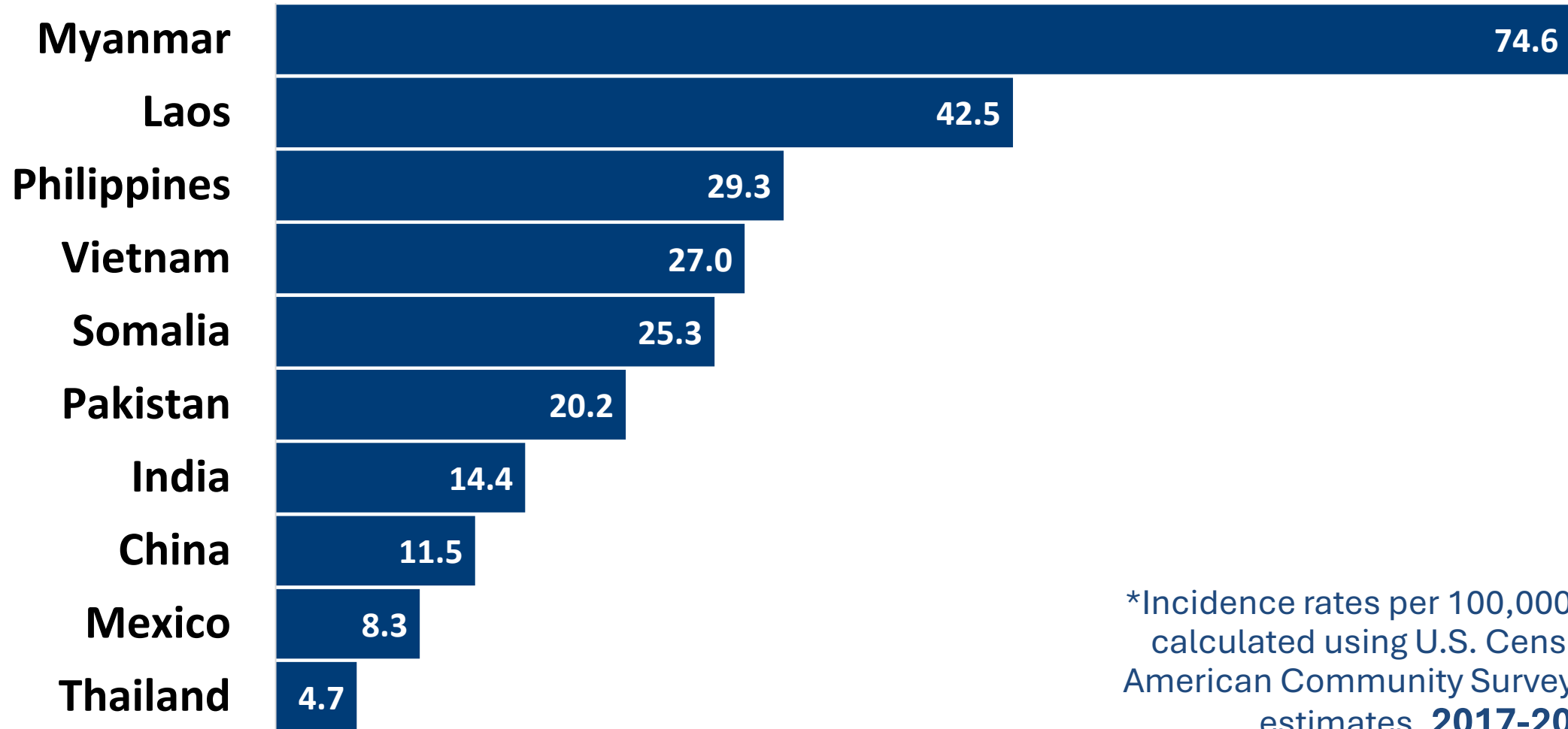
Respond to the ACS

Learn the different ways to respond to the American Community Survey – online, by phone, by email. Read our FAQs or call us for more help with the survey.



American Community Survey Data

Incidence* For Top Ten Non-U.S. Countries of Birth



*Incidence rates per 100,000 population calculated using U.S. Census Bureau American Community Survey population estimates, **2017-2024**

Race and Ethnicity

2010-2024

U.S.-Born vs. Non-U.S.-Born Incidence Rates* by Race

Non-U.S.-born

U.S.-born

9.85

White

0.19

8.91

Hispanic, any
race

0.71

8.11

American
Indian,
Alaskan Native

1.43

22.82

Black or African
American

1.67

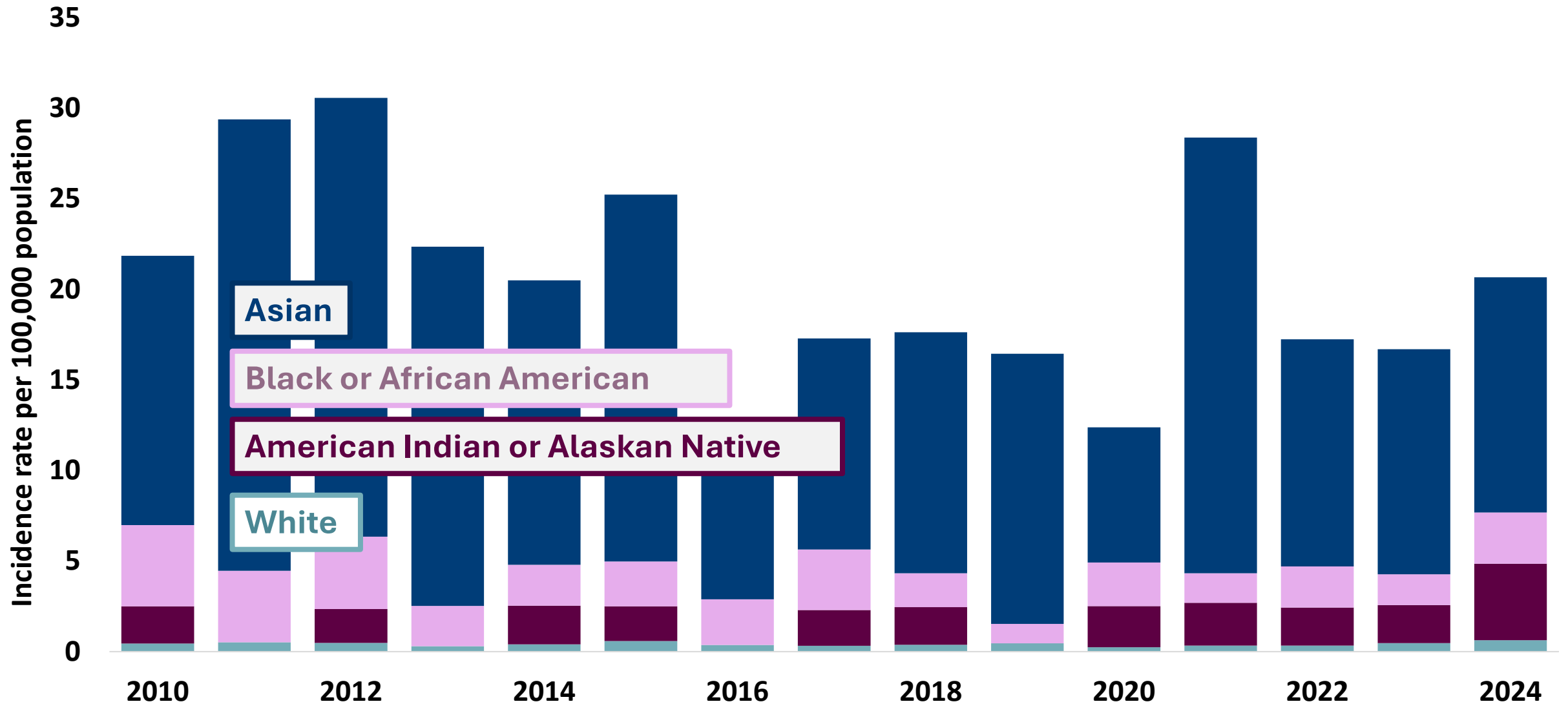
24.61

Asian

2.19

*Incidence rates per 100,000 population calculated using U.S. Census Bureau American Community Survey population estimates

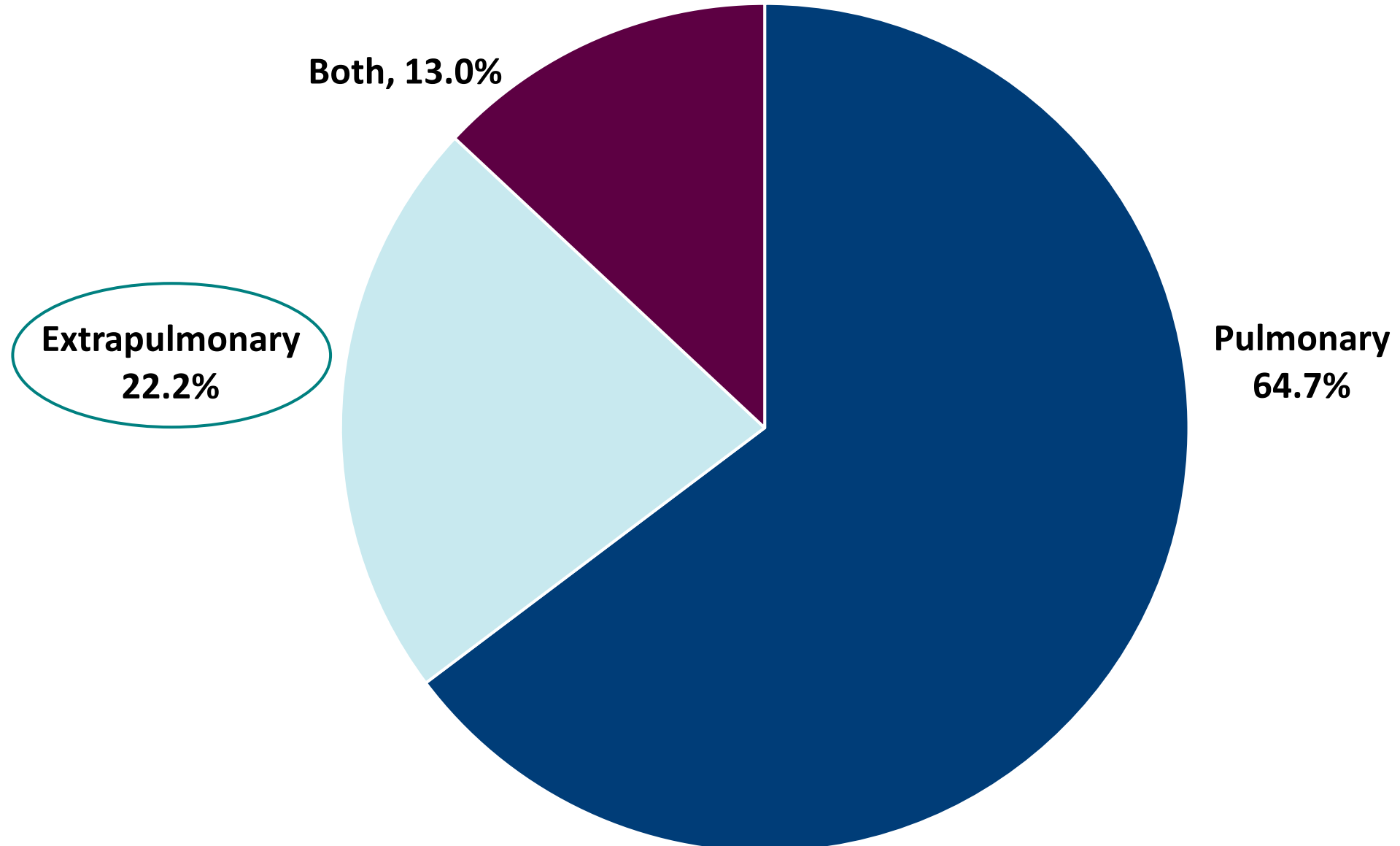
Incidence is Highest in Those Identifying as Asian



Site of Disease

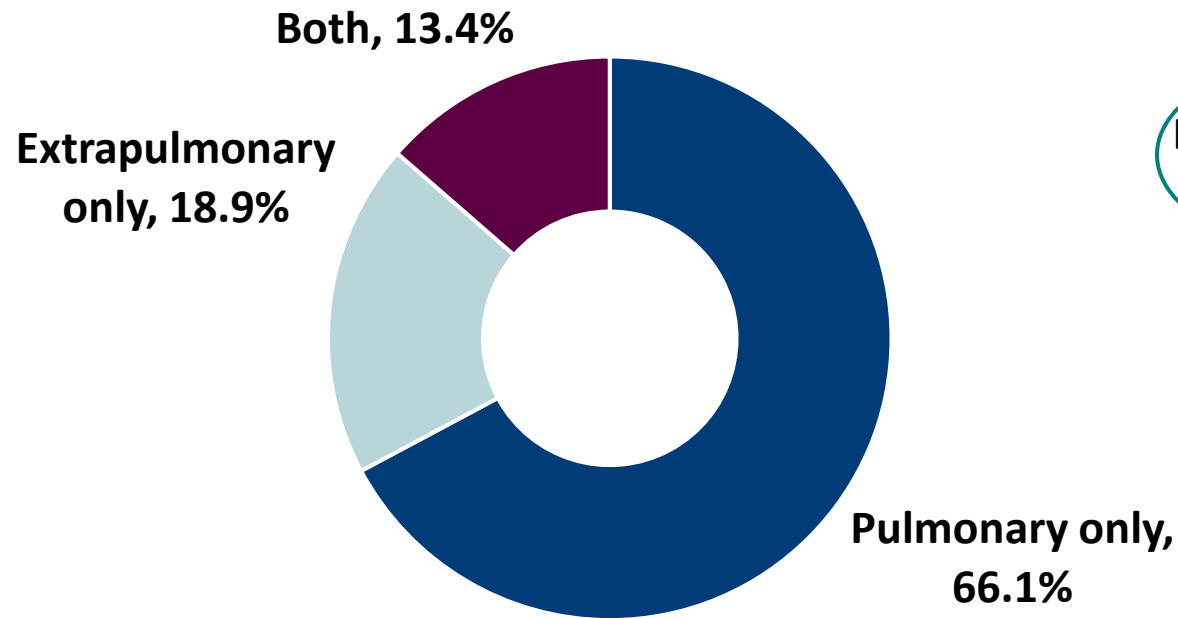
2010-2024

Site of Disease

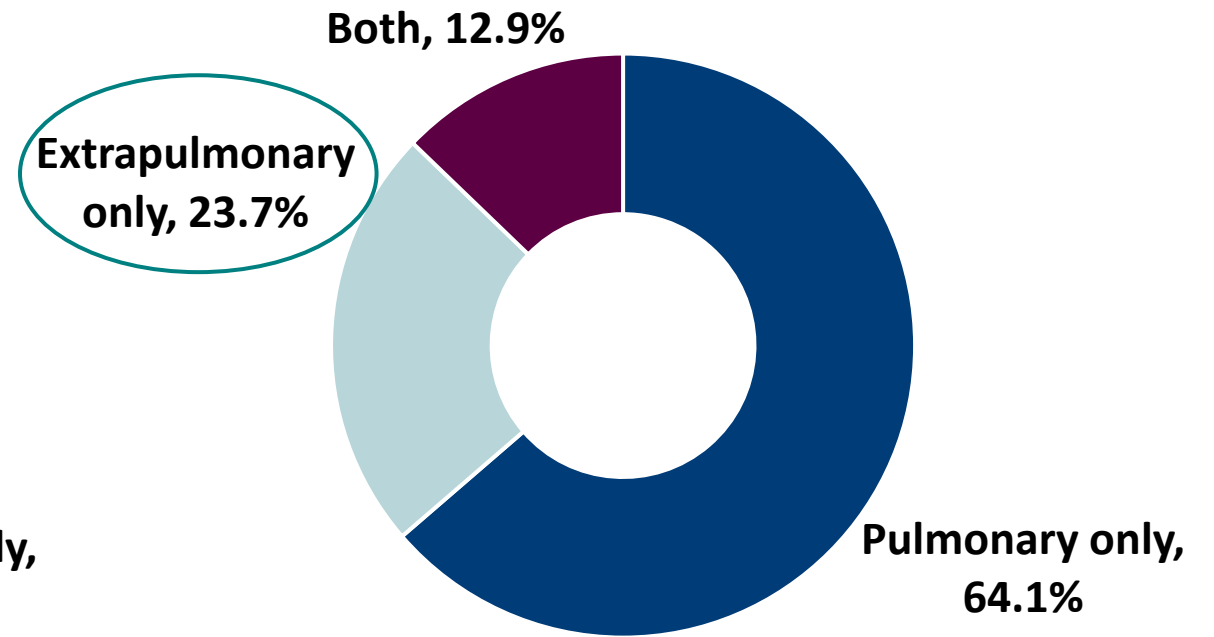


Extrapulmonary TB is More Common in Persons Born Outside the U.S

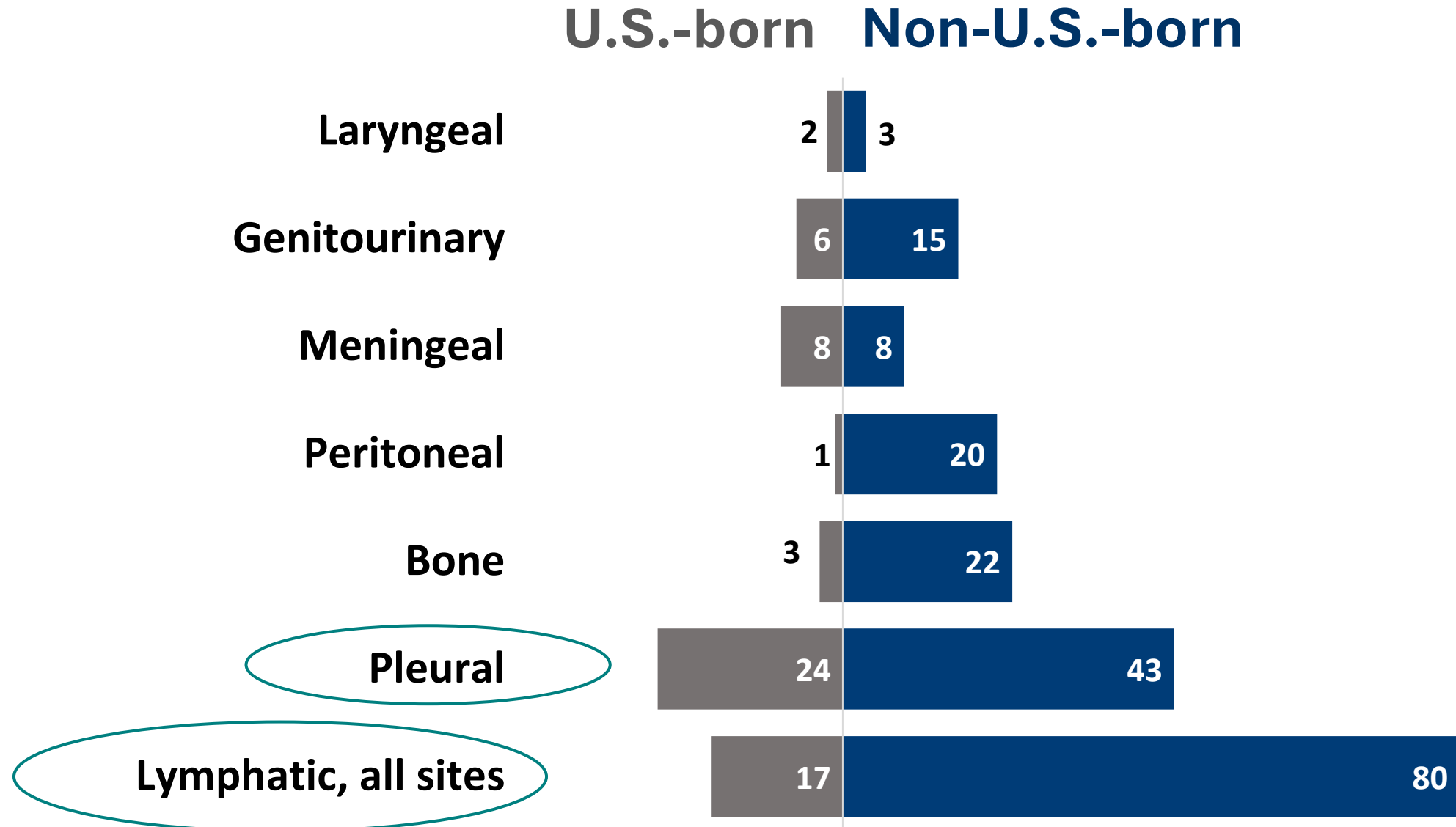
U.S.-born



Non-U.S.-born



Extrapulmonary Sites Vary by Origin of Birth



**Trivia
Question 8**



What was the patient newsletter called that was circulated biweekly at Lake View Sanatorium?

- A. Sputum News
- B. The Bi-Weekly Wheeze
- C. Tuberculosis Bi-Weekly
- D. The Cough Buzz

Lake View

Madison, WI

Lake View patients passed much of their time with reading, conversation, and listening to the radio. Lake View produced a newsletter ("*The Wheeze*"), and offered clubs for all interests. Popular exercise included croquet on the great lawn, walking the grounds, and gardening.

OUR PLATFORM

1. Make Lake View the foremost Sanatorium in the State.
2. A bigger and better newspaper for the Sanatorium.
3. A much better Radio System for Lake View.
4. More, later and better moving pictures.
5. Help secure pensions for ex-patients.

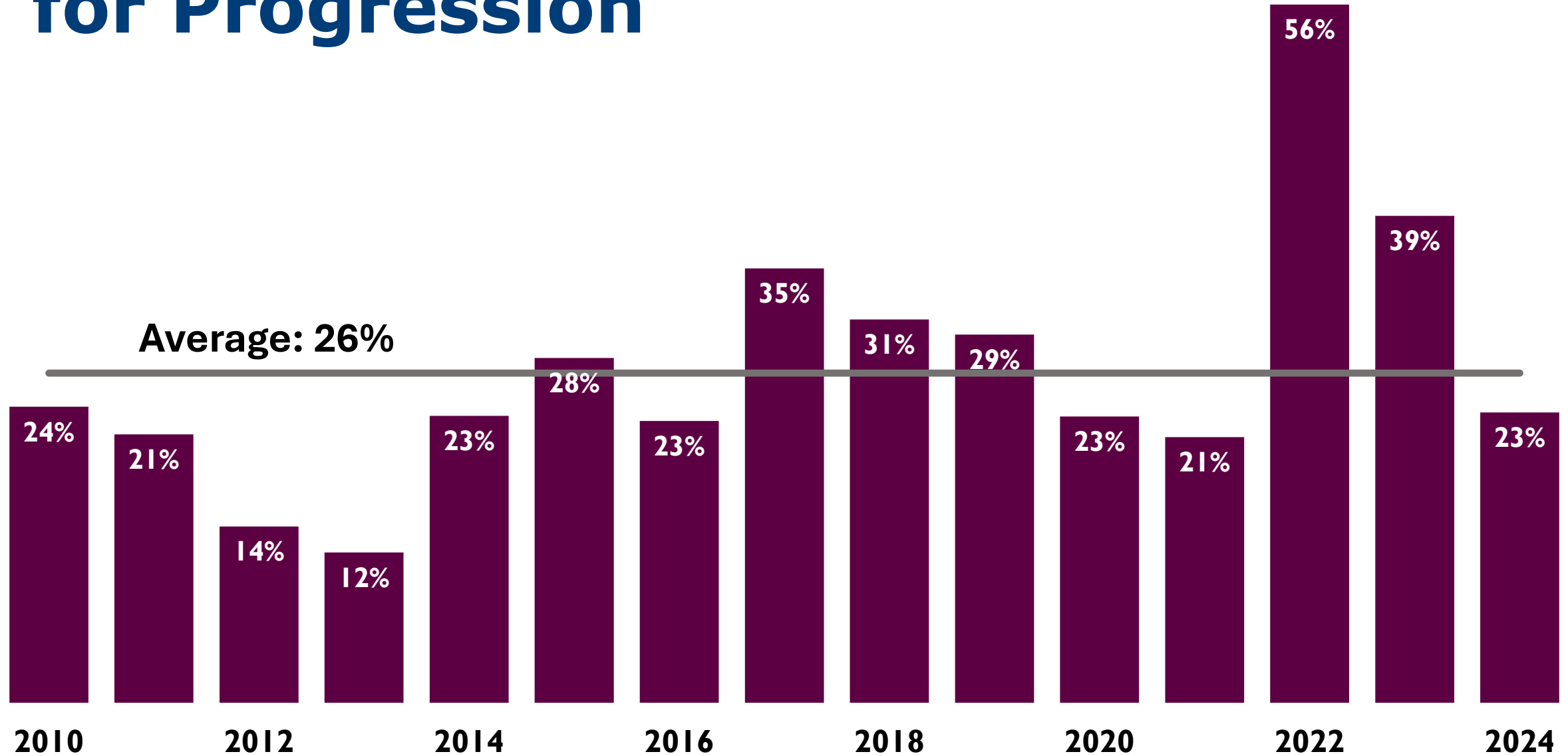
— *The Bi-Weekly Wheeze*, March 12, 1938

IMAGE CREDITS Left Wisconsin Historical Society WHS-19301. Top right WHS-82948. Bottom right Wisconsin Historical Society Library, Lake Views

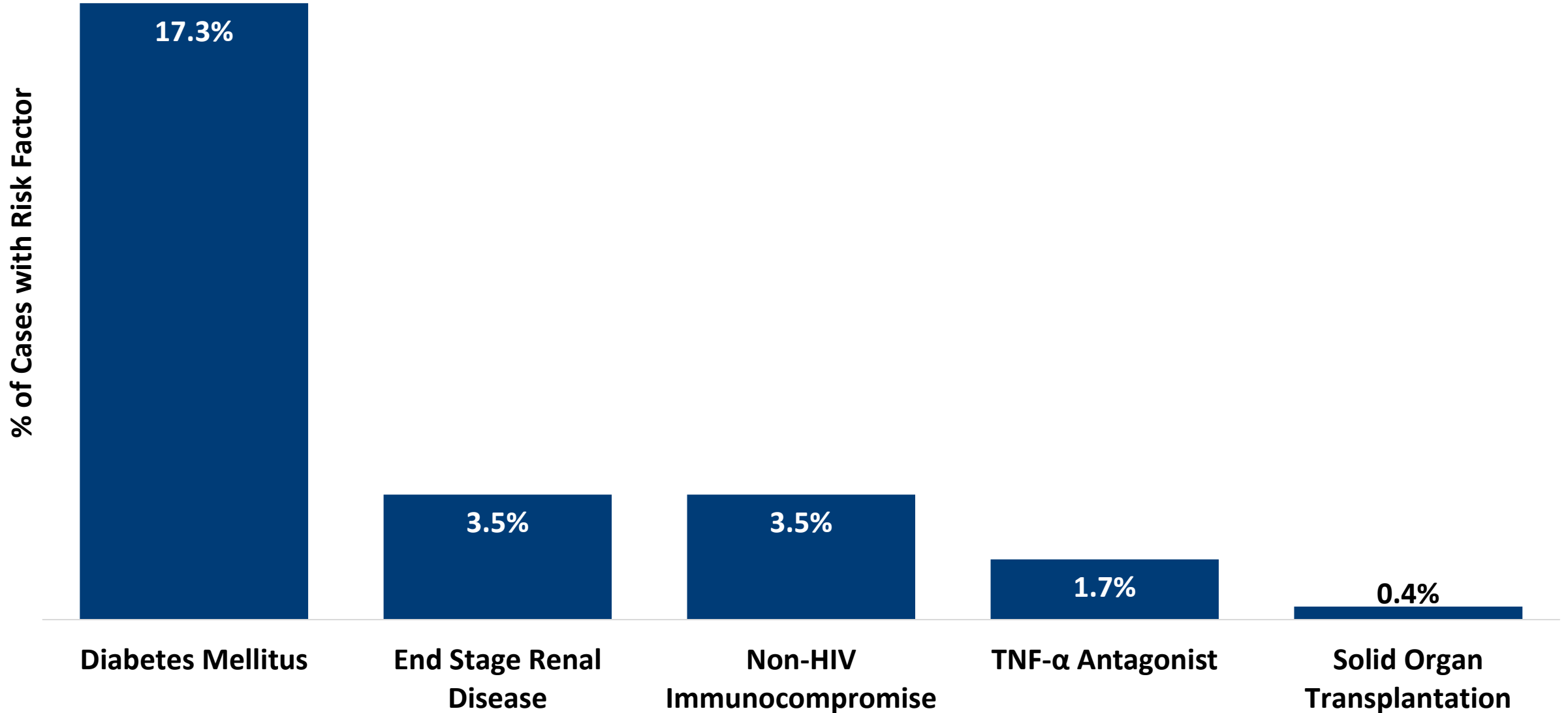
Progression and Exposure Risks

2010-2024

Percent of Cases with Medical Risks for Progression



Medical Risks for Progression



Exposure Risk by Origin of Birth

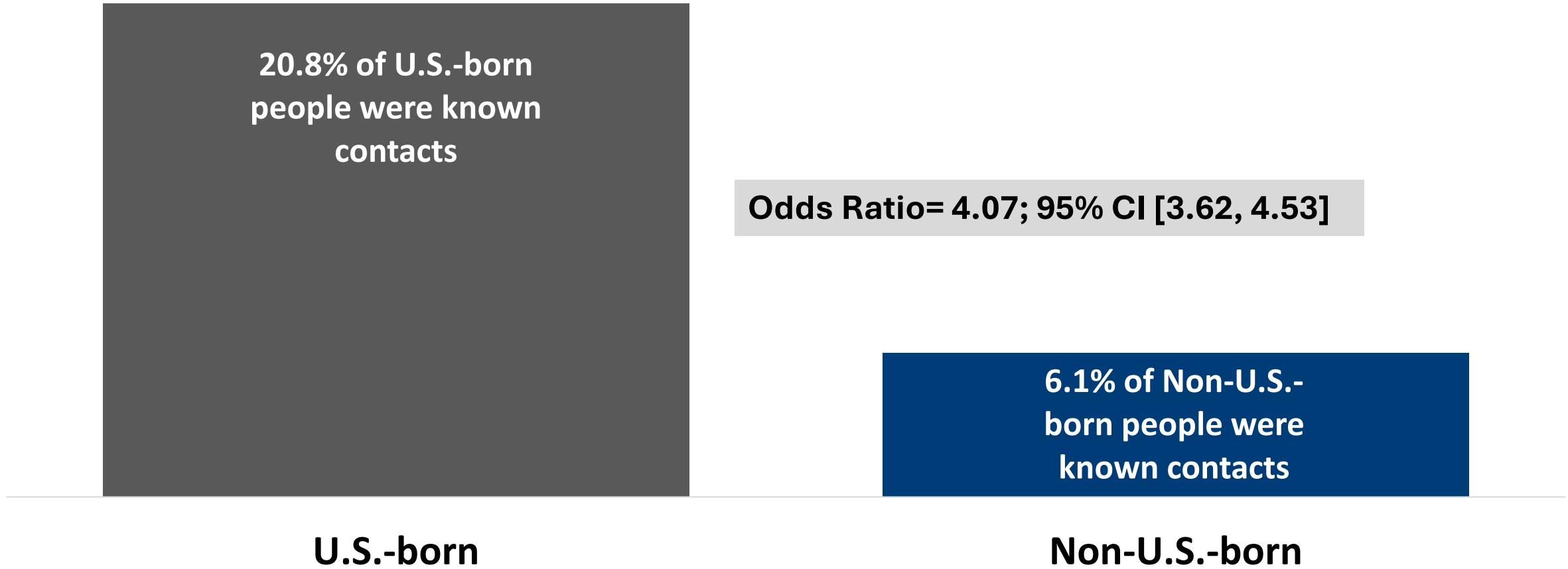
20.8% of U.S.-born
people were known
contacts

Odds Ratio= 4.07; 95% CI [3.62, 4.53]

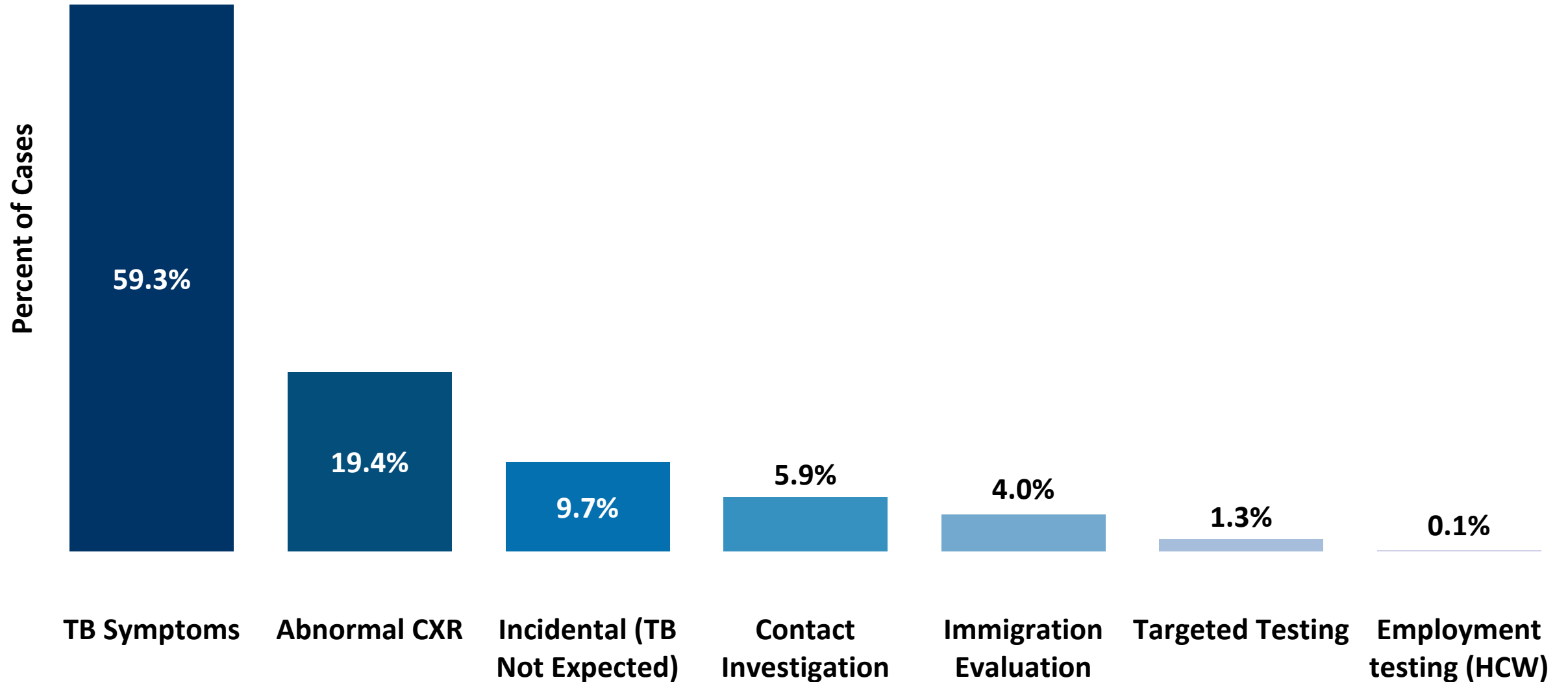
6.1% of Non-U.S.-
born people were
known contacts

U.S.-born

Non-U.S.-born



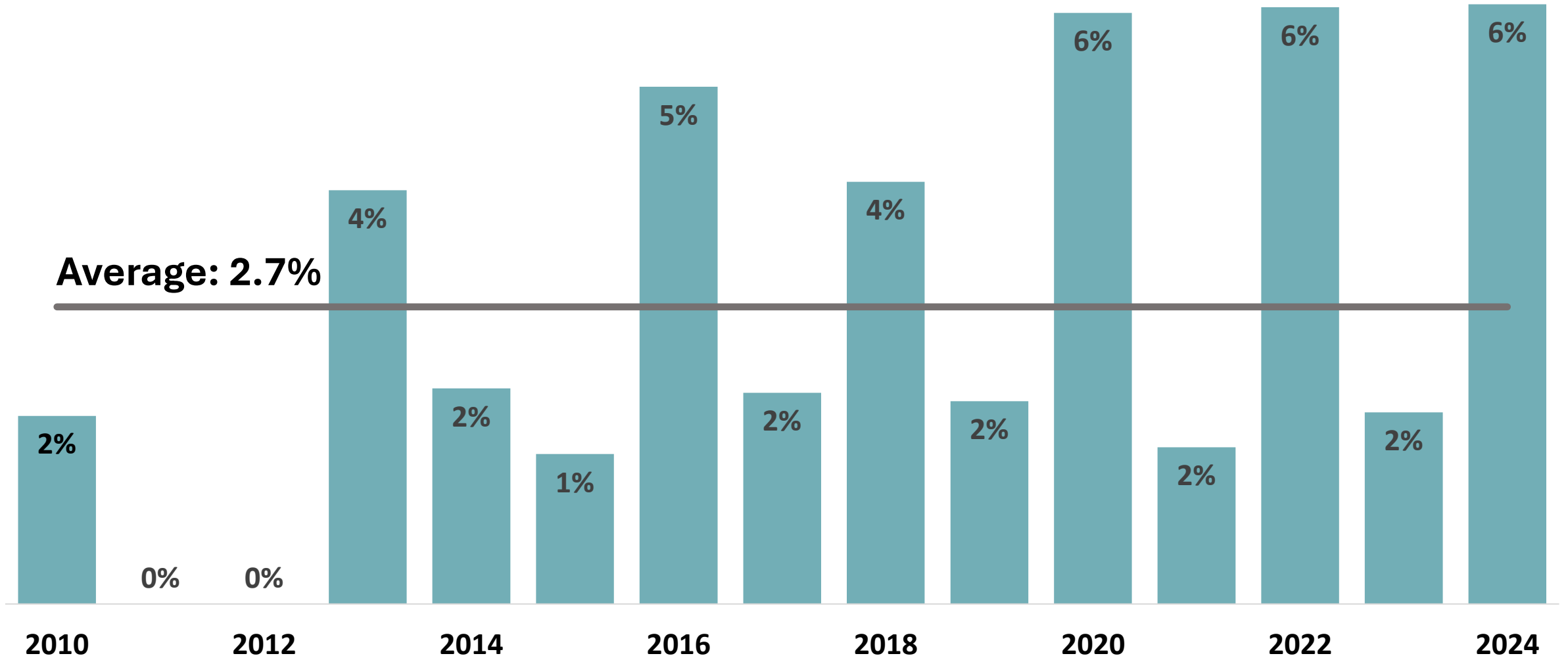
Method of Case Identification



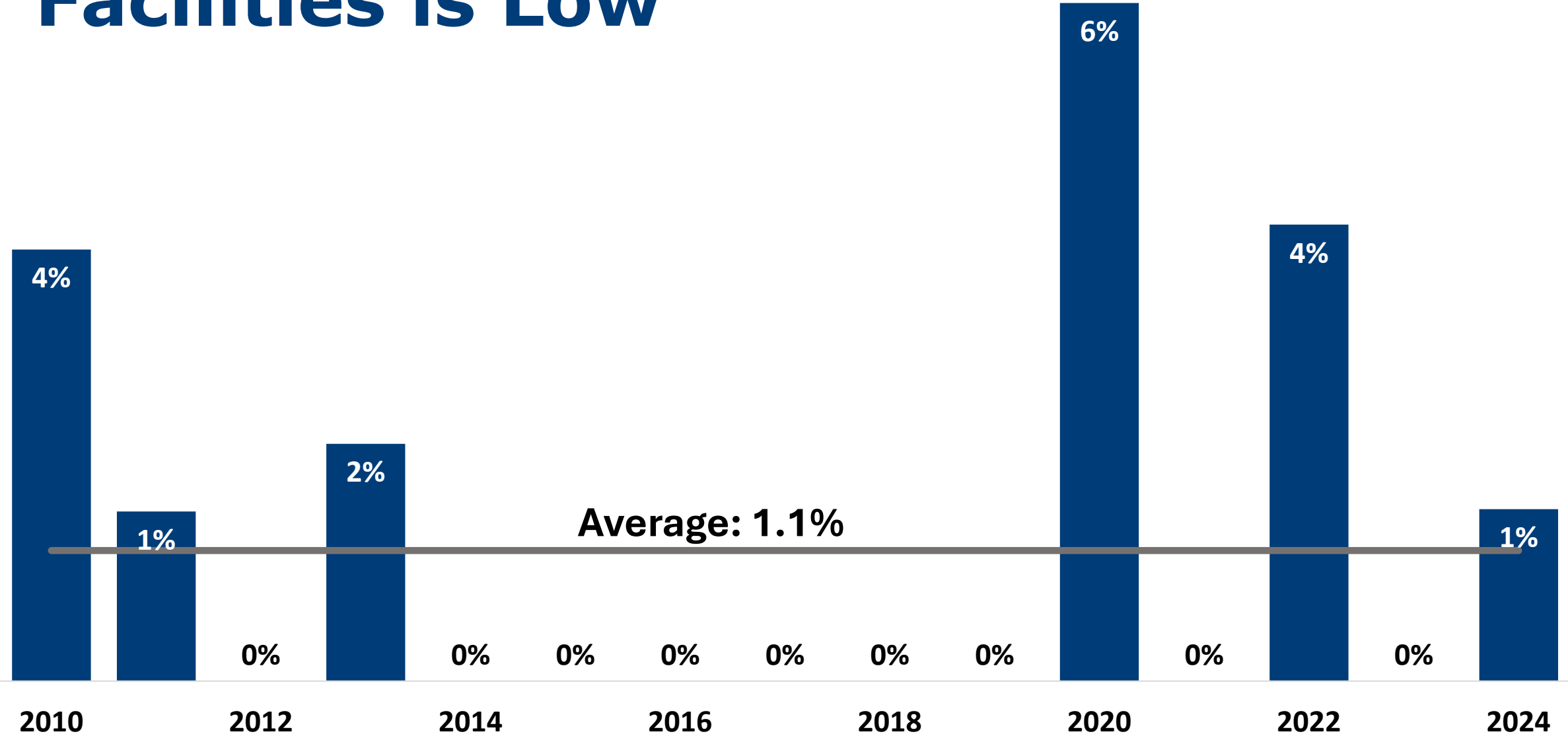
Housing and Living Situation

2010-2024

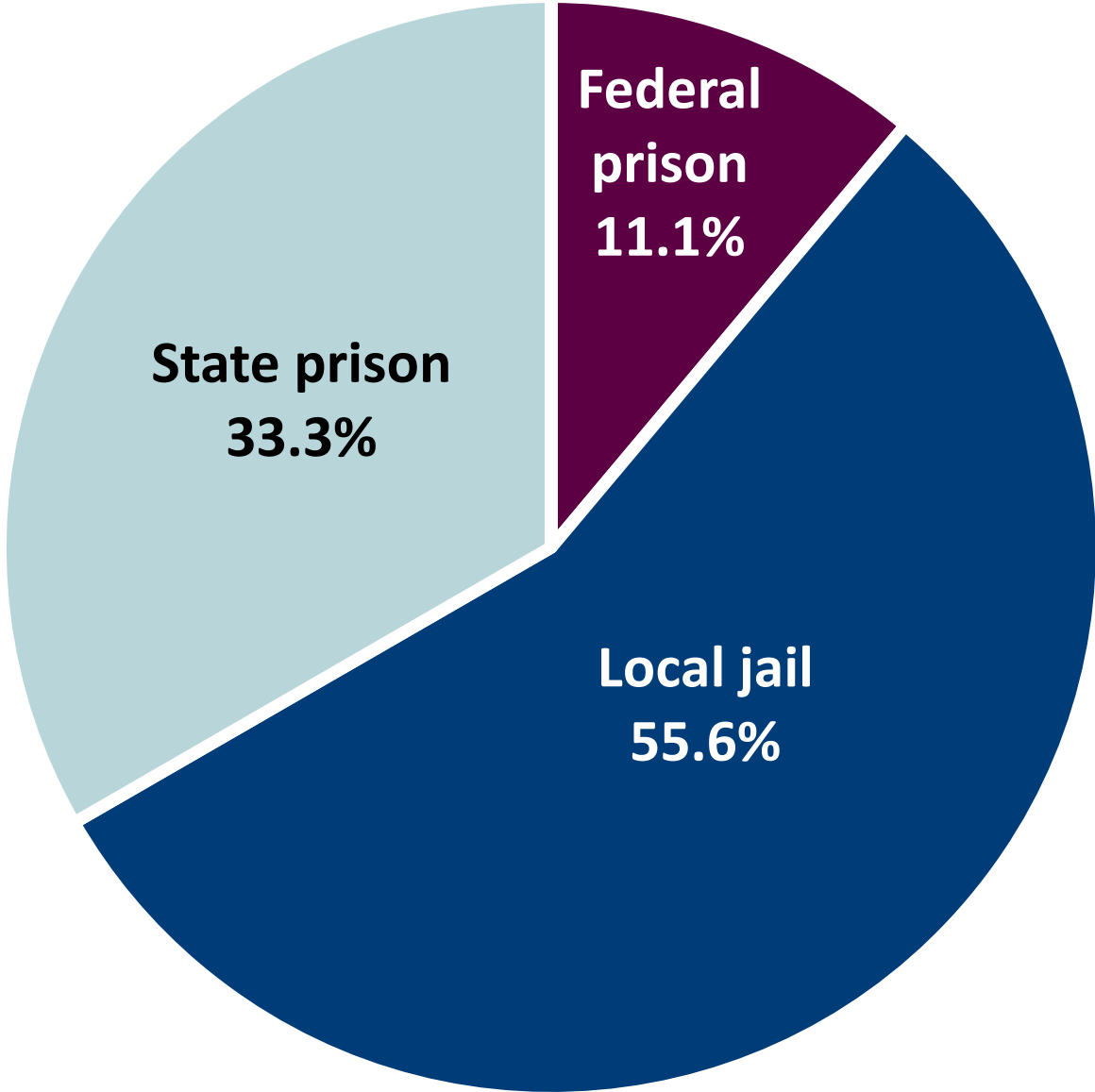
Percent of Cases with Unstable Housing



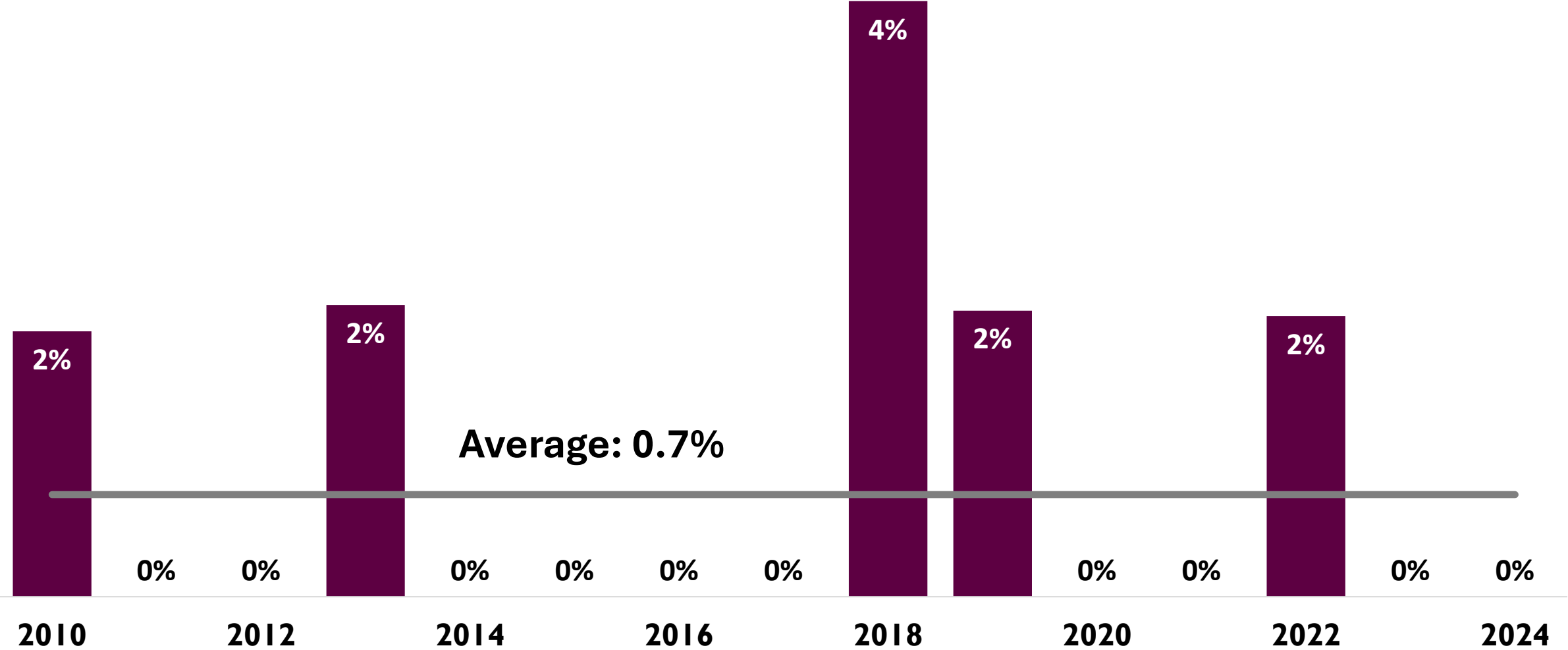
Occurrence of TB in Correctional Facilities is Low



TB by Correctional Facility



Occurrence of TB in Long Term Care Facilities is Low

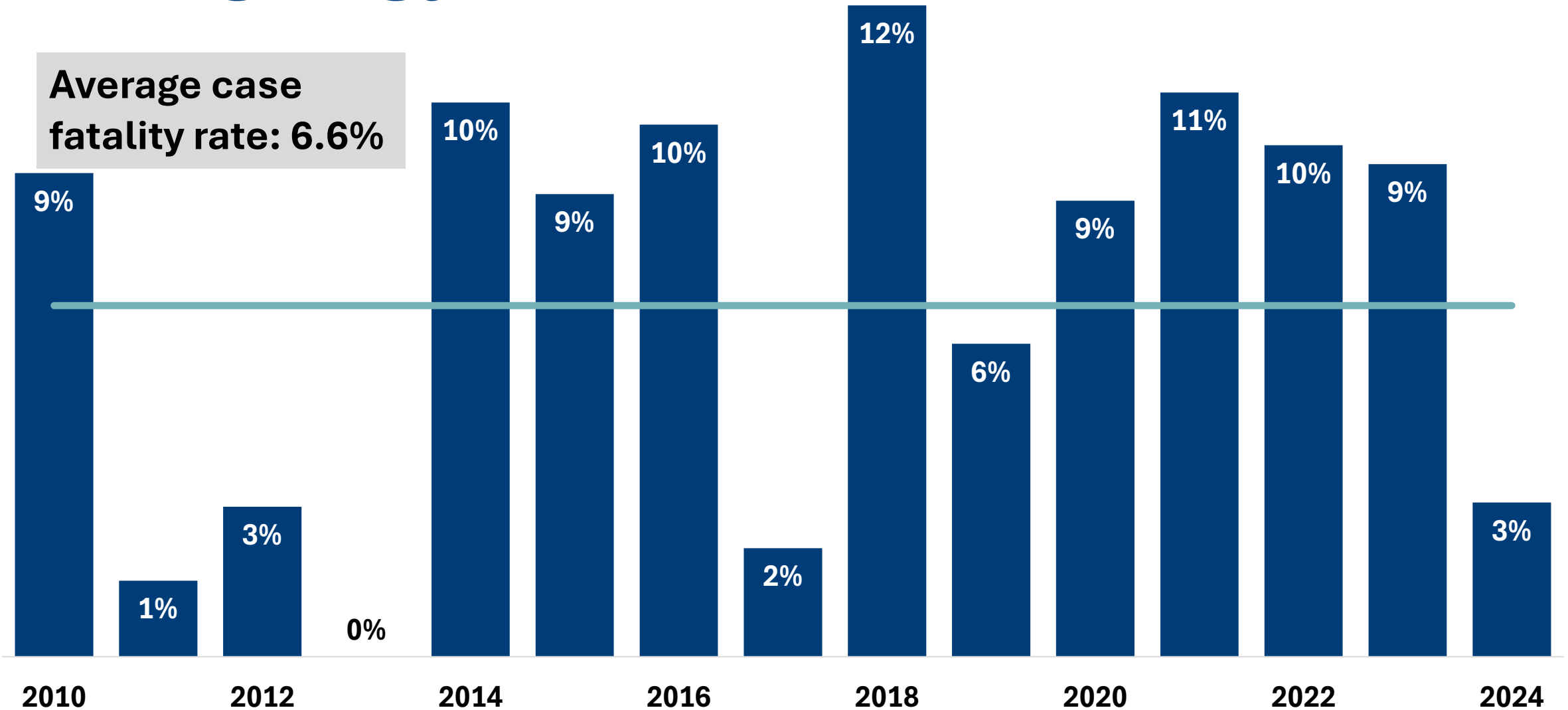


Mortality

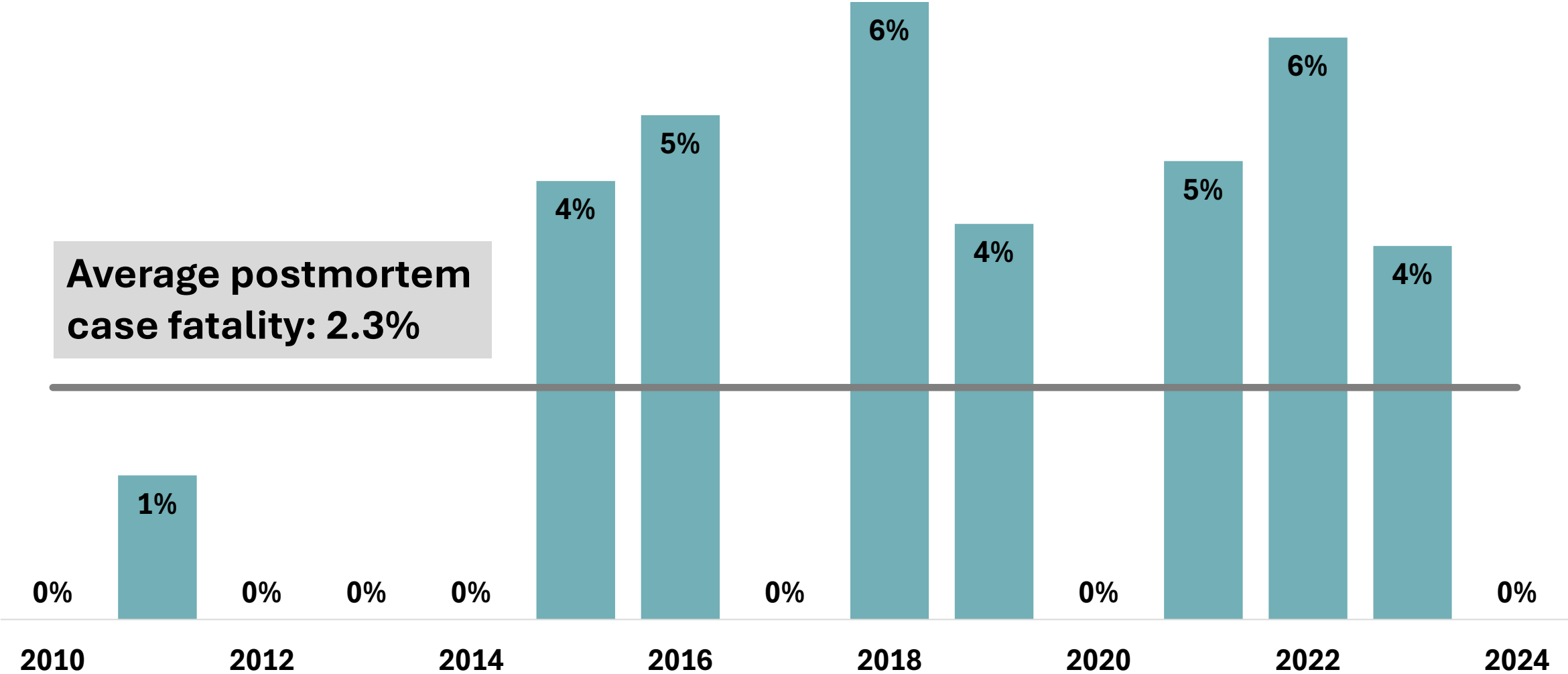
2010-2024

On Average, Four People Died from TB Per Year

Average case fatality rate: 6.6%



One Person Died Each Year Prior to Diagnosis



Average postmortem case fatality: 2.3%

Recent Estimates of TB Mortality in Europe

International Journal of Infectious Diseases 130 (2023) 76–82

European Union: ~6-8%

Denmark: **21%!**



Contents lists available at [ScienceDirect](#)

International Journal of Infectious Diseases

journal homepage: www.elsevier.com/locate/ijid

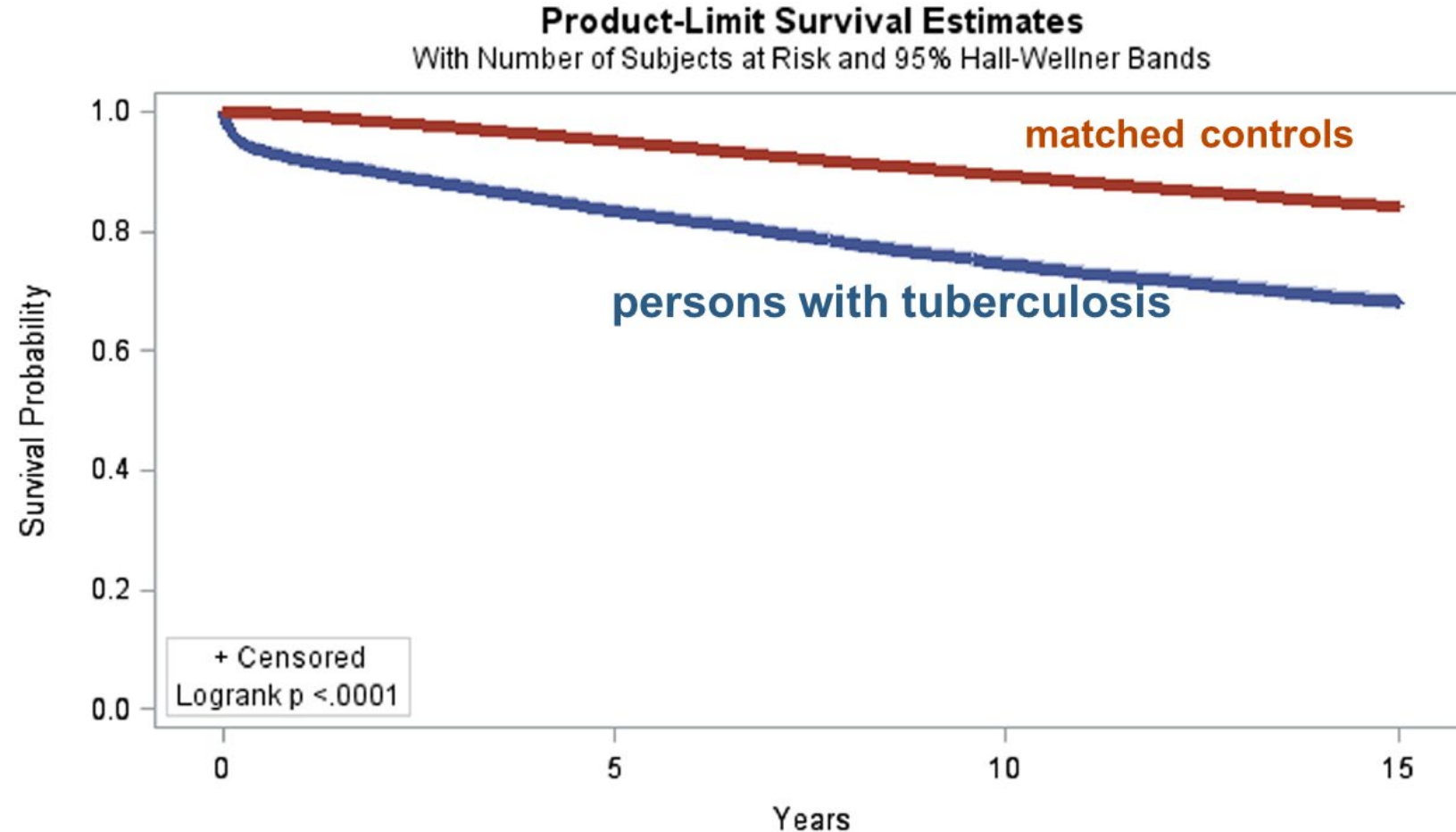
Mortality, risk factors, and causes of death among people with tuberculosis in Denmark, 1990-2018

Anne Christine Nordholm^{1,*}, Aase Bengaard Andersen², Christian Wejse^{3,4}, Anders Norman¹, Claus Thorn Ekstrøm⁵, Peter Henrik Andersen⁶, Troels Lillebaek^{1,6,#}, Anders Koch^{2,6,7,#}

WHO Regional Office for Europe. Tuberculosis surveillance and monitoring in Europe, 2019.

Nordholm AC (2023) Int J Infect Dis 130: 76–82.

TB Survival Estimates in Denmark



“persistently inferior survival up to 15 years after TB diagnosis compared with controls.”

Diagnostic Delay

2022-2025

Diagnostic Delay Data

Symptom onset date was only collected and reported 2022-2025. All subjects had symptomatic, microbiologically confirmed TB with known onset date.

+ PREVIOUS DIAGNOSIS DETAILS

- CLINICAL HISTORY & FINDINGS

Date of illness onset/symptom start date

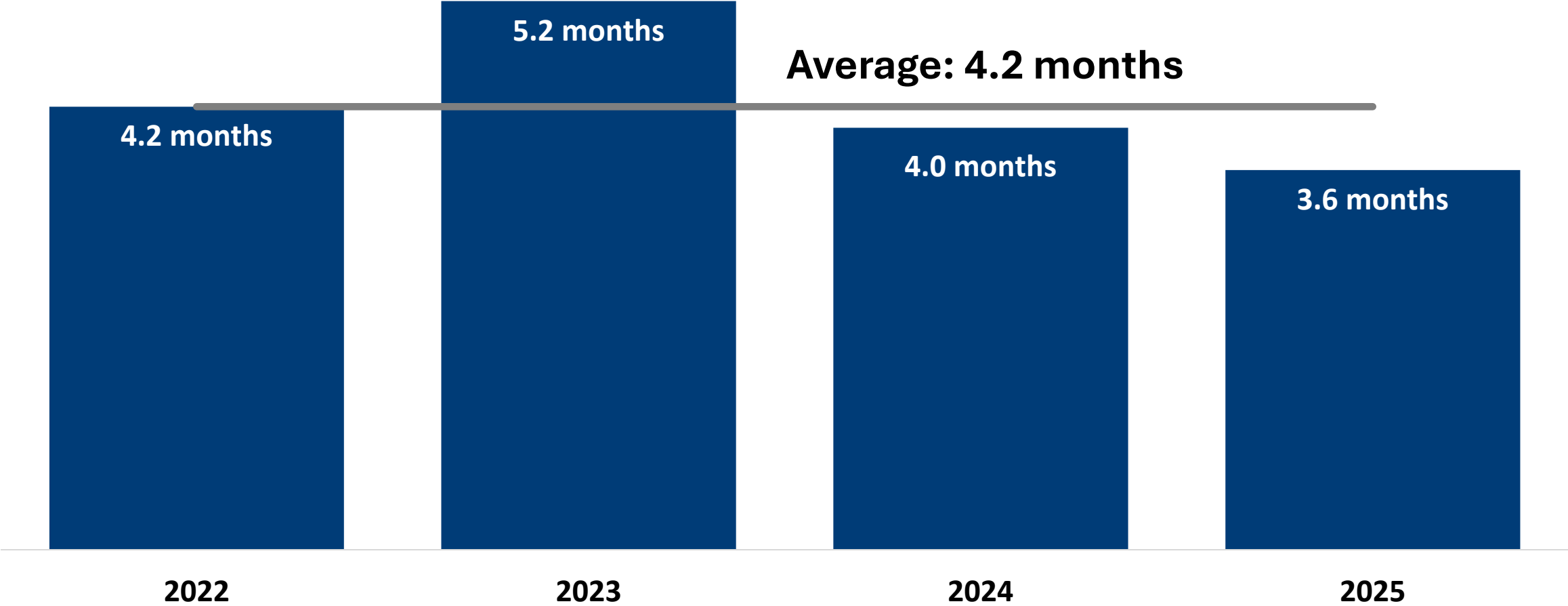
Additional Site #1

Additional Site #2

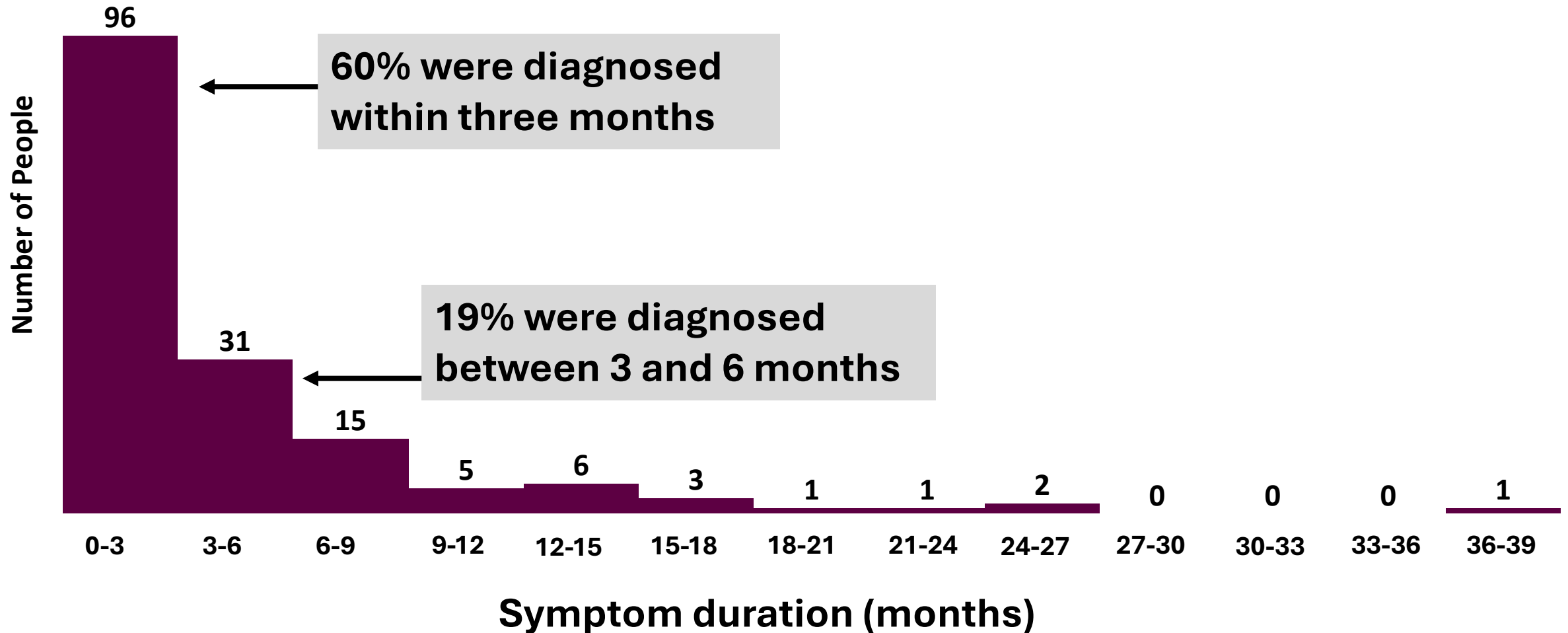
Additional Site #3

Concatenate Site Field Data

On Average, Symptoms Began Four Months Prior to TB Diagnosis



Most Were Diagnosed Within Three Months of Symptom Onset



Diagnostic Delay for U.S.-Born and Non-U.S.-Born Persons



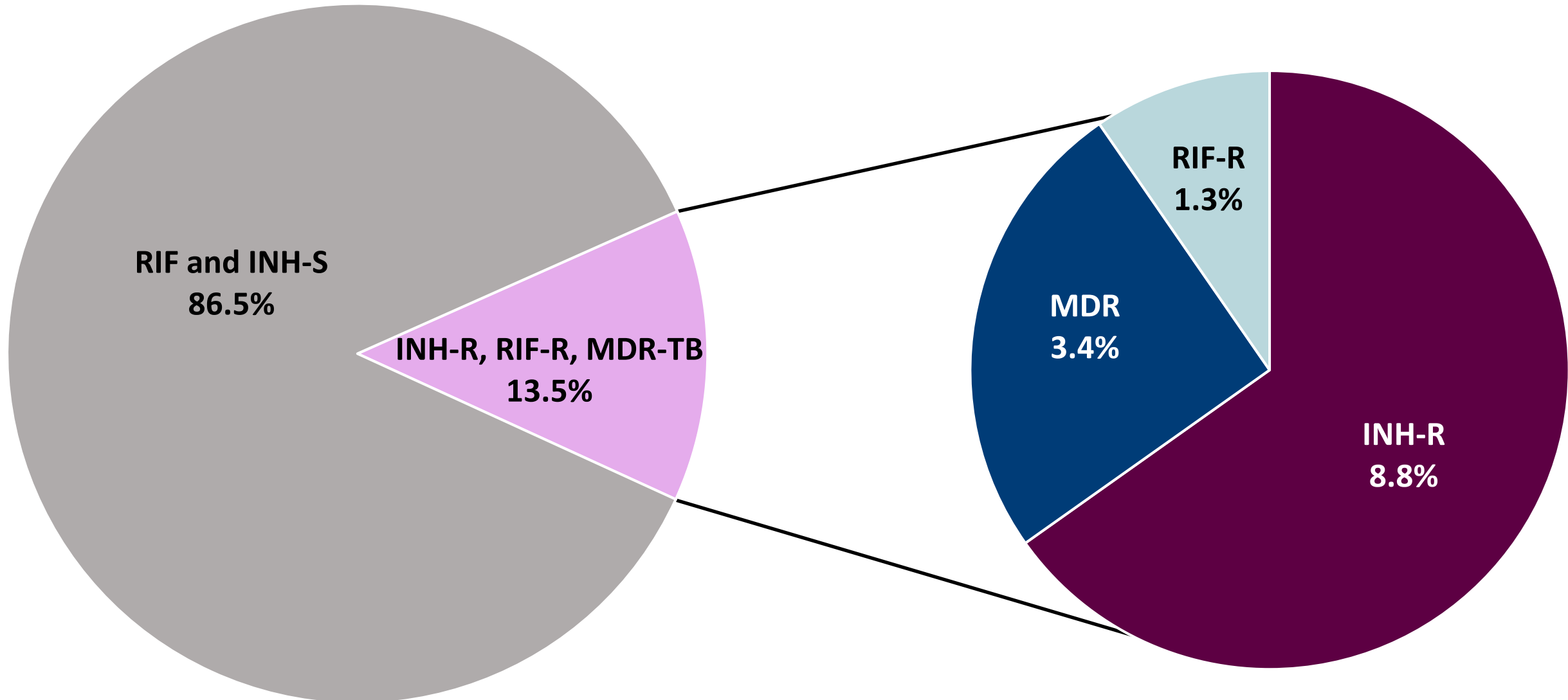
U.S.-born

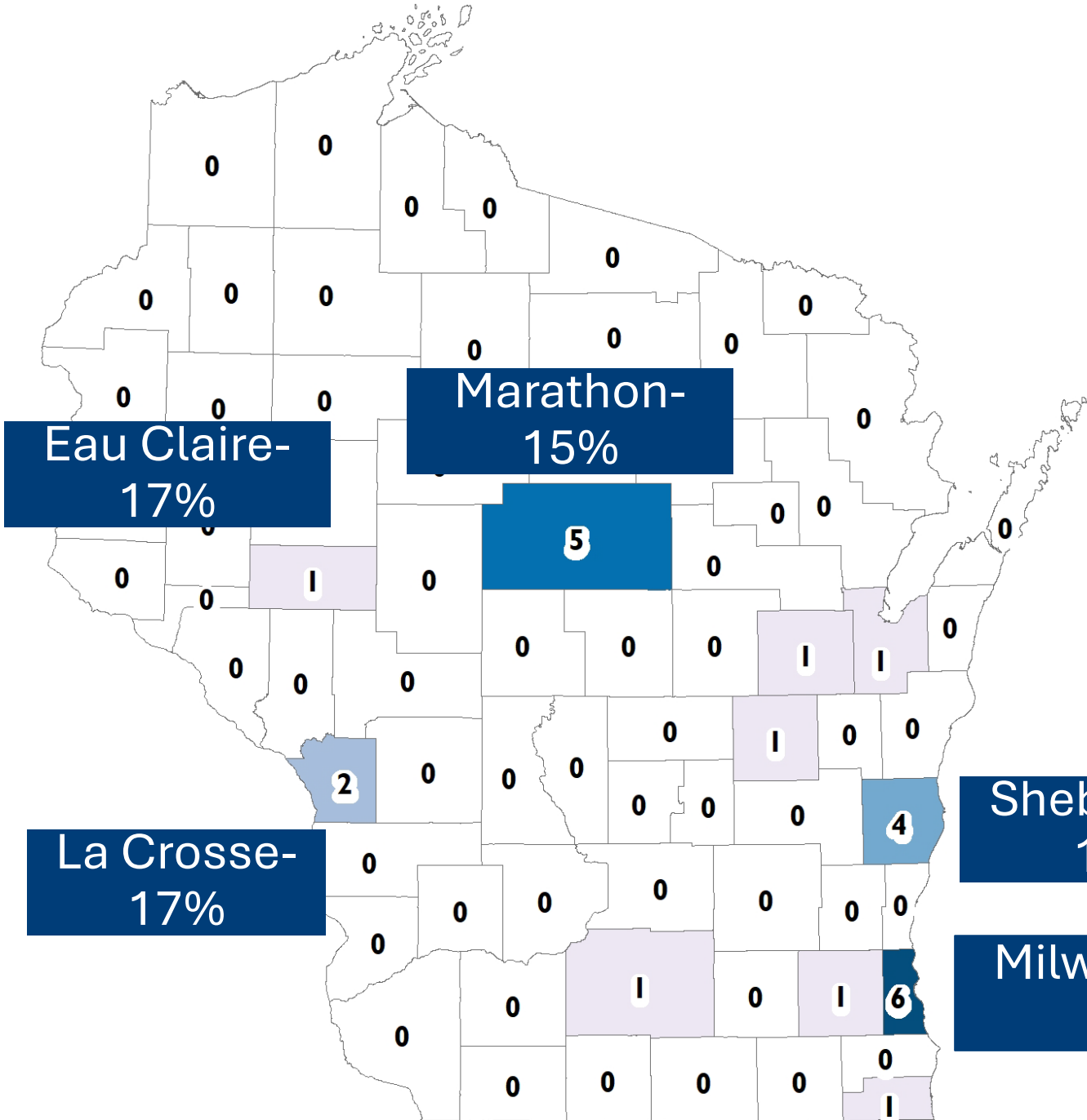
Non-U.S.-born

Drug Resistance

2010-2024

13.5% of Microbiology Confirmed TB was Drug Resistant





MDR-TB is Concentrated in a Few Areas



WISCONSIN DEPARTMENT
of HEALTH SERVICES

Contact info for questions

Thank you!

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