



Principles of Nurse Case Management: Why Are We Here?

Catalina B. Navarro, BSN, RN
June 5, 2024

Comprehensive TB Nurse Case Management
June 5 – June 6, 2024
San Antonio, Texas

Catalina B. Navarro, BSN, RN has the following disclosures to make:

- No conflict of interests
- No relevant financial relationships with any commercial companies pertaining to this educational activity





Principles of Nurse Case Management

Why Are We Here?

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**Why are we
here?**



**Is TB still a
problem?**



Objectives

- Epidemiology of TB Globally, in the USA and in Texas
- Definition of TB Nurse case management
- Goals and elements of TB case management

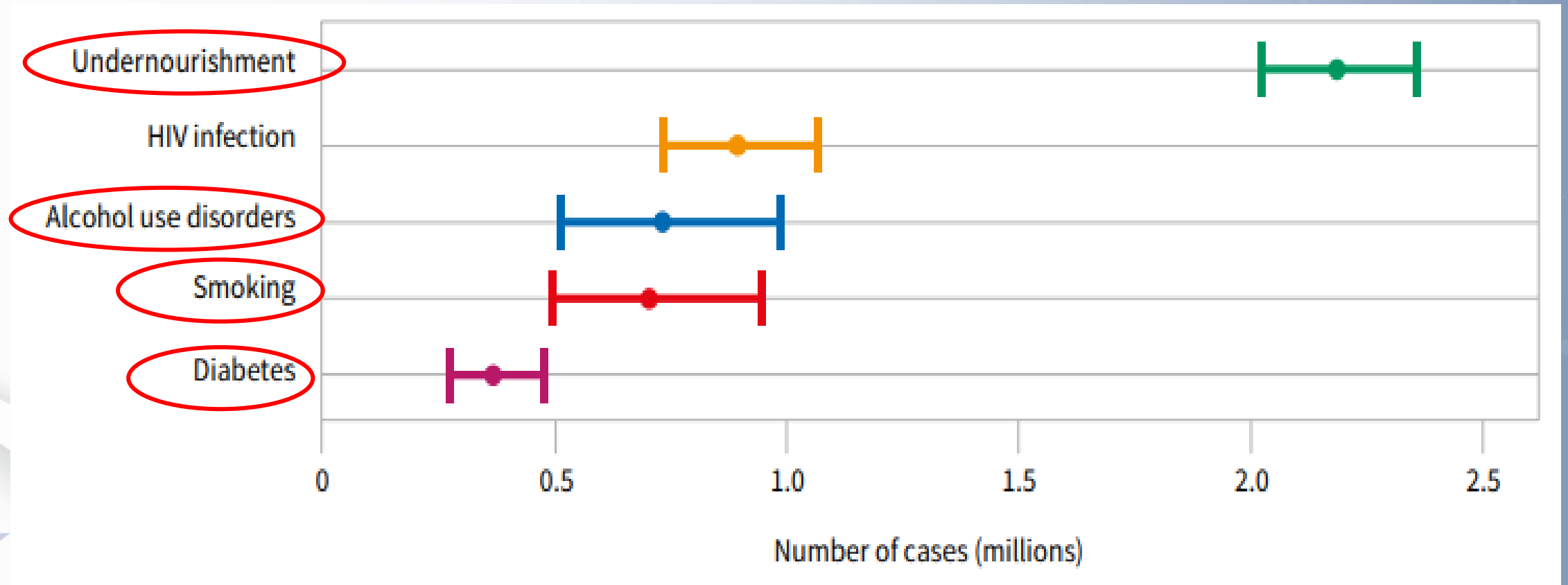


TB is still a Big Problem

- TB is the second leading infectious killer after Covid-19
- TB is the leading killer of people **with HIV**
- In 2022 > **10** million people fell ill with TB disease

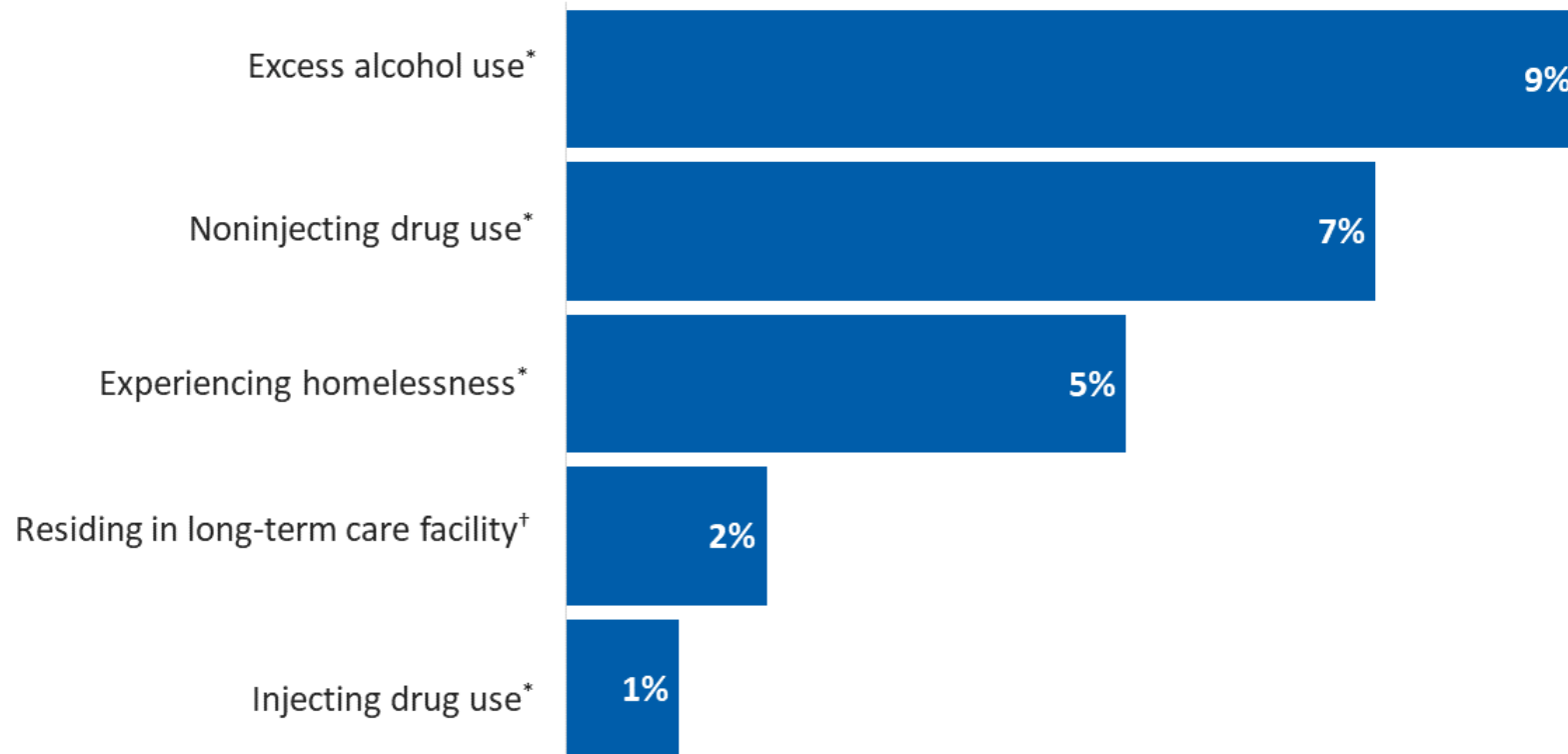


TB is a Social Disease....



Social and Behavioral Risk Factors among Persons Aged >15 Years with TB, USA 2021

Percentage of Social and Behavioral Risk Factors Among Persons Aged ≥ 15 Years with TB, United States, 2022

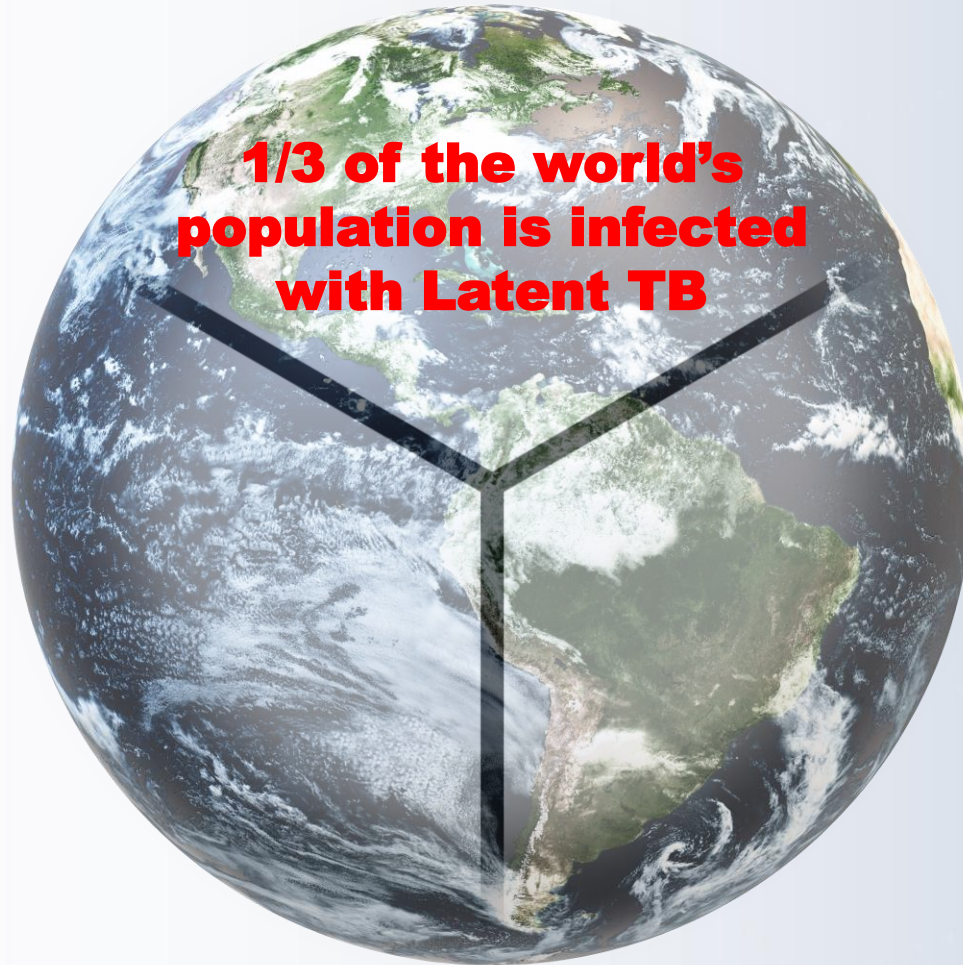


*Within past 12 months prior to TB diagnosis

†At the time of TB diagnosis



How about **Latent TB** in the world? And Drug Resistant?



Drug-resistant tuberculosis remains a public health crisis

In 2020 only about

1 IN 3 OF THOSE IN NEED RECEIVED TREATMENT FOR DRUG-RESISTANT TB



TB in United States

U.S. News & WORLD REPORT

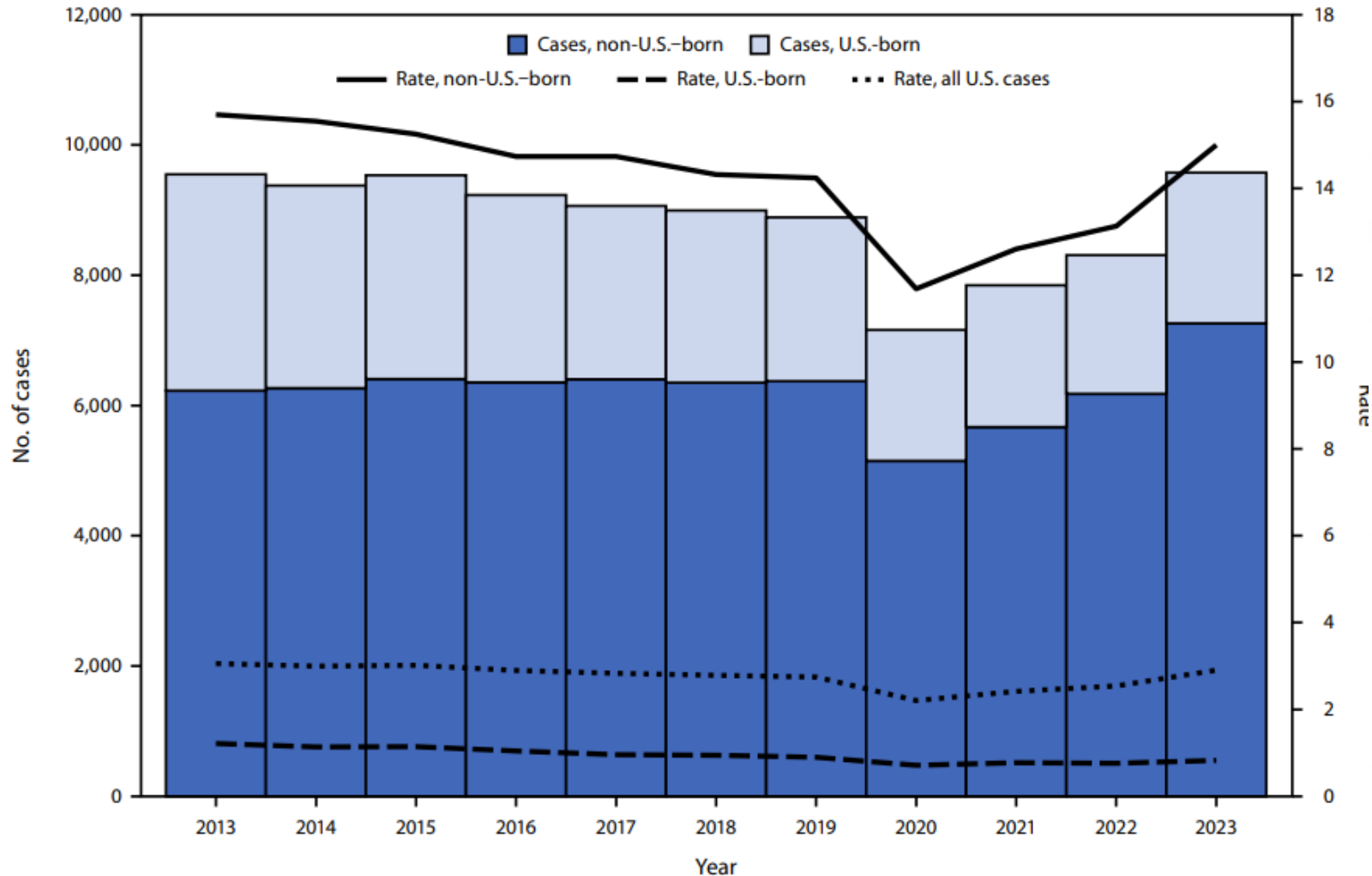
U.S. TB Cases Reach Highest Level in a Decade

By [HealthDay](#)

| March 29, 2024, at 7:52 a.m.



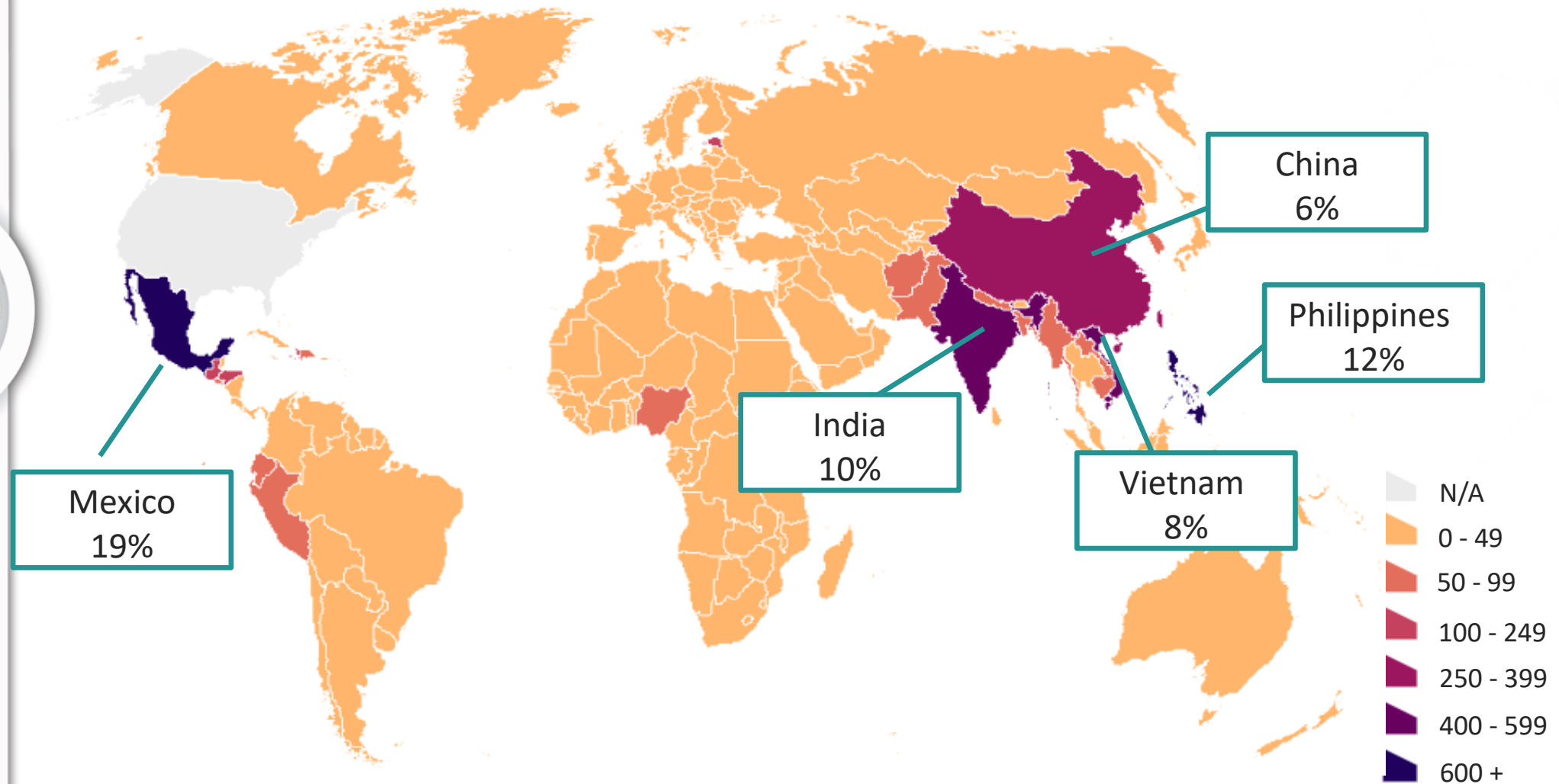
Annual Numbers and Rate of Cases of TB Disease, by Patient U.S birth Origin USA, 2013-2023



* Case counts are based on data from the National Tuberculosis Surveillance System as of February 17, 2024.

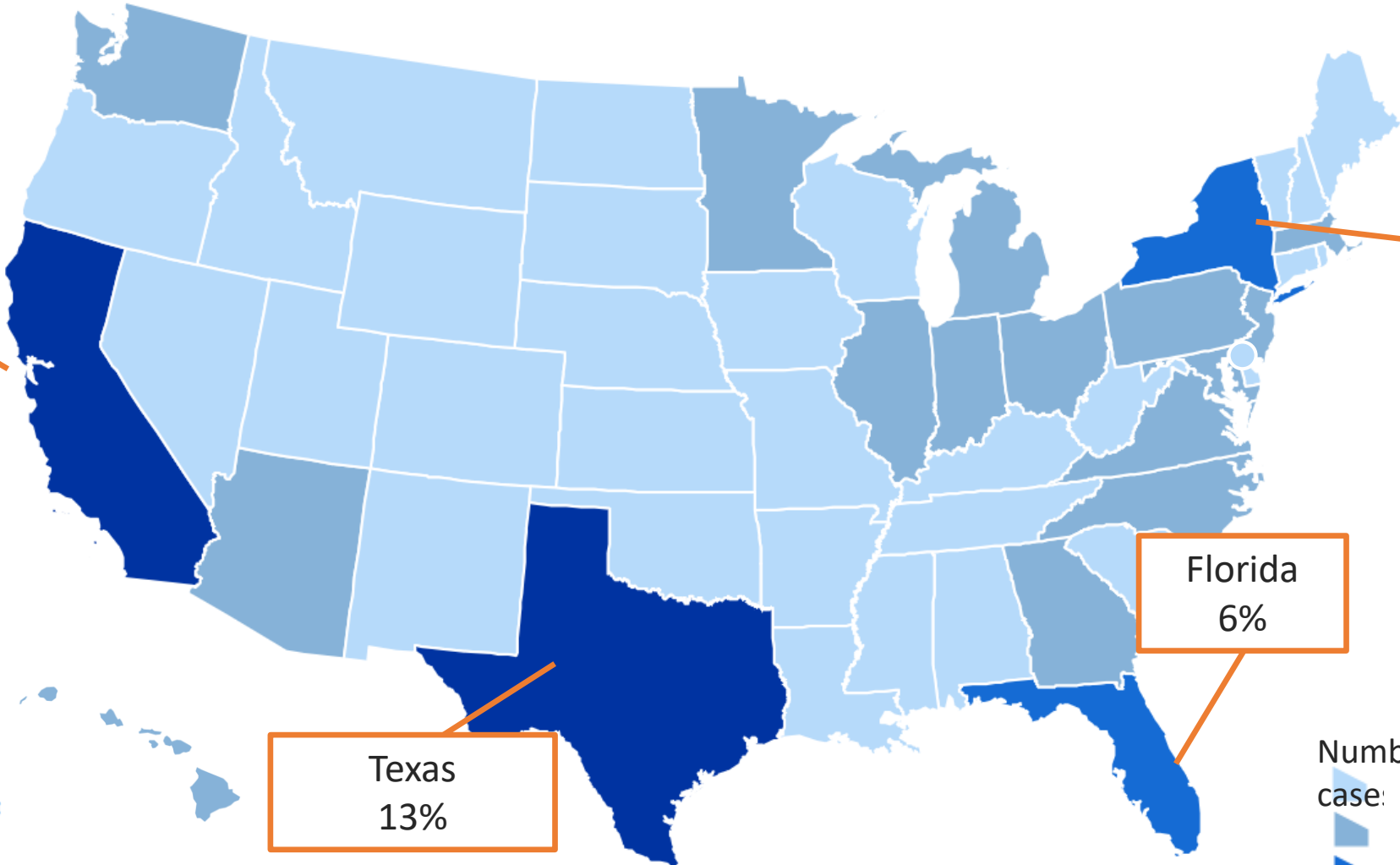


TB Cases by Countries of Birth Among Non-U.S.–Born* Persons with TB, USA, 2021 (N=5,626)



*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 Reporting Area, United States, 2022



California
22%

New York*
9%

Florida
6%

Texas
13%



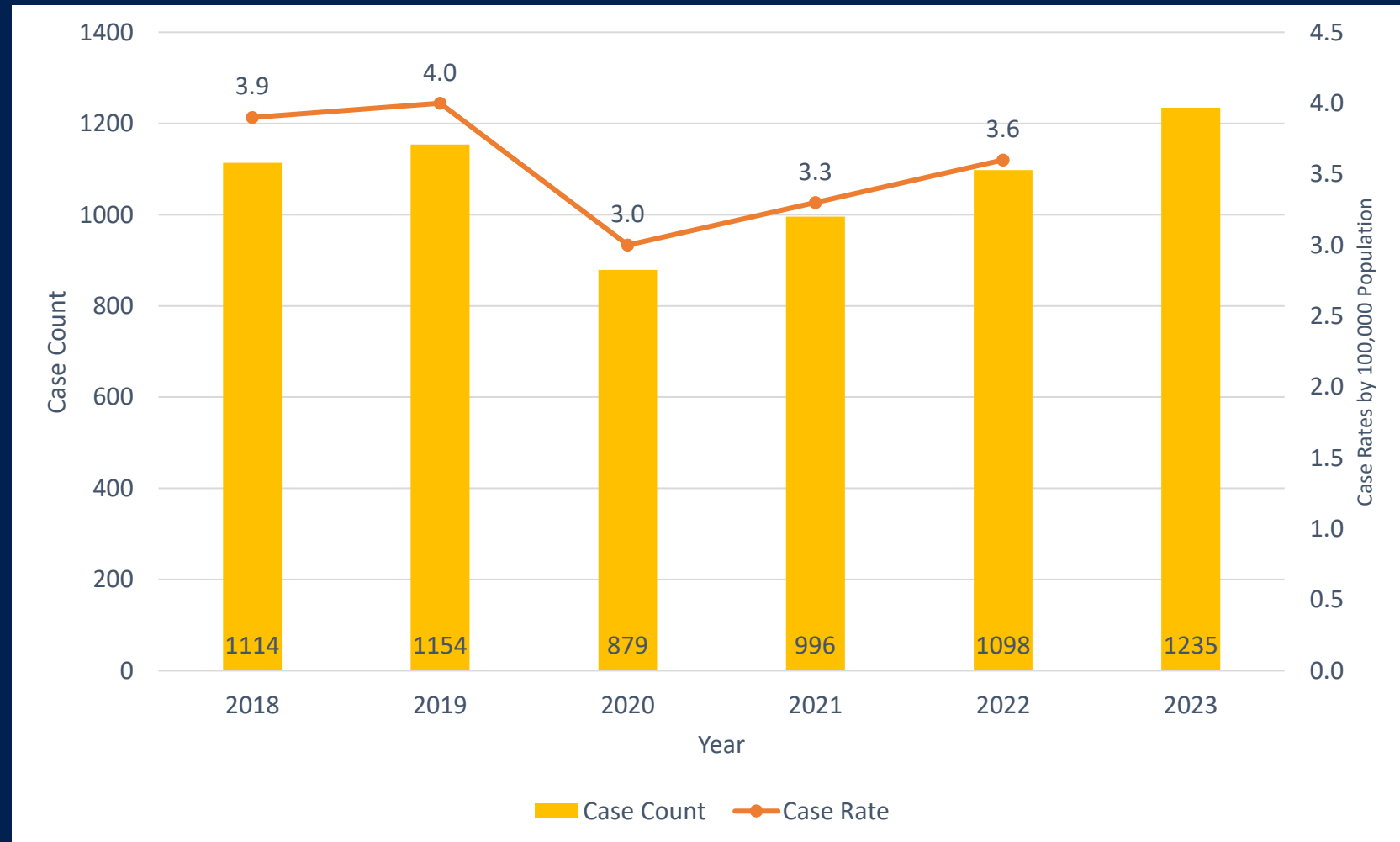
* Includes New York City

TB Case Counts and Rates in Texas, 2018-2023*



TEXAS
Health and Human Services

Texas Department of State
Health Services



*2023 data are provisional and subject to change

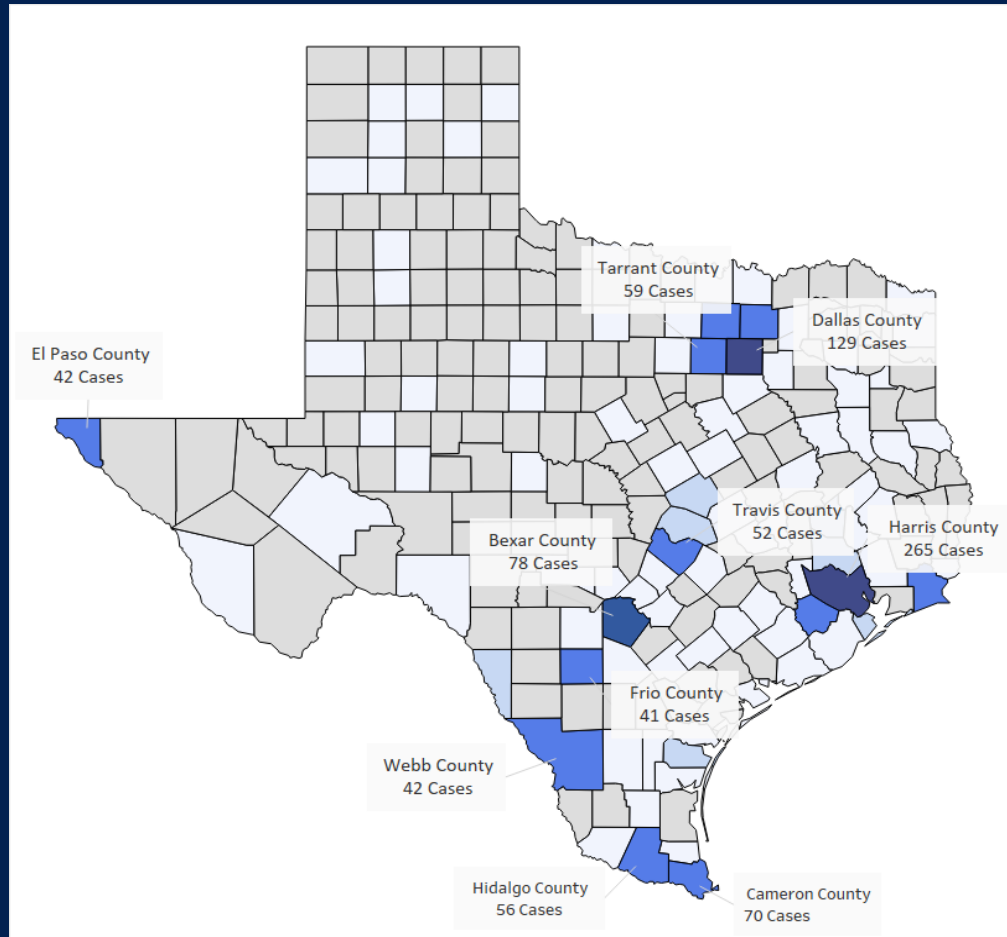
Distribution of TB in Texas, 2023



TEXAS

Health and Human Services

Texas Department of State
Health Services



County	Reported Cases	Percent of All Cases
Harris	265	21.5%
Dallas	129	10.5%
Bexar	78	6.3%
Cameron	70	5.7%
Tarrant	59	4.8%
Hidalgo	56	4.5%
Travis	52	4.2%
El Paso	42	3.4%
Webb	42	3.4%
Frio	41	3.3%
Total	834	67.5%

TB Cases Among Correctional Facilities Residents Aged >15 Years, USA 2021

State Prisons



Federal Prisons



Local Jails



Other Facilities



How About Latent TB in USA?

More than 80% of TB diagnoses in the U.S. are associated with long-standing, latent TB infection



Tuberculosis Hides in Plain Sight



13 million people in the United States live with inactive TB



1 in 10 people with inactive TB will get sick with active TB disease



Who is responsible for the treatment of TB?

“The responsibility for successful treatment of TB is placed primarily on **the provider** or program initiating treatment **rather than on** the patient”



The Reason Why We Are Here According to ATS/CDC/IDSA

“Strategy : **Patient-Centered Care and Case Management should be used**”

“Utilize case management interventions during treatment of patients with Tuberculosis”

Case Management:

Strategy to help patients to complete TB treatment. Patient education/counseling, field/home visits, integration/coordination of care with specialists and medical home, patient reminders, incentives/enabler.



Nurse Case Manager



Public health nurses have responsibility for TB case management and patient outcomes

Nurses coordinates services for the patient with TB from initial presentation to completion of treatment

2016 ATS/CDC/IDSA *TB Treatment Guidelines* August 2016



It's time

to invest in nurses and healthcare workers

Nurses and health workers play a critical role in tuberculosis prevention and care. Enabling them to work to their full potential improves healthcare for all.



Goals of TB Case Management

- Treat patients with TB according with TB Guidelines
- Complete treatment in appropriate time frames
- Prevent progression of TB and drug resistant
- Prevent transmission of TB with effective Contact Investigation (CI)
- Educate patient, family and community about TB



CASE FINDING

DOCUMENTATION

ASSESSMENT

EVALUATION

TB Case Management Process

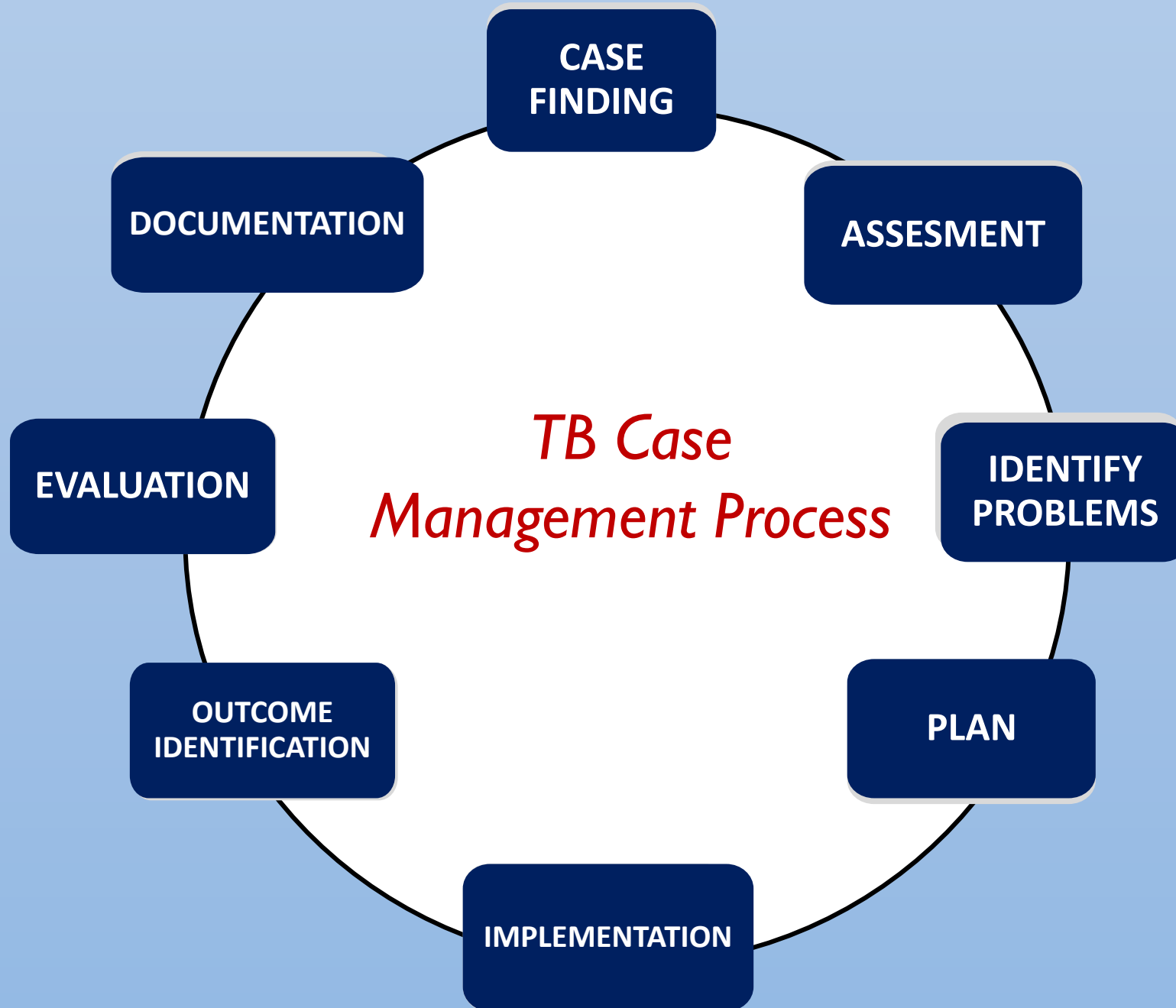
IDENTIFY
PROBLEMS

OUTCOME
IDENTIFICATION

PLAN

IMPLEMENTATION





THANK YOU!

