



Principles of Nurse Case Management


Why Are We Here?

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Catalina 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





**Why are we
here?**



**Is TB still a
problem?**



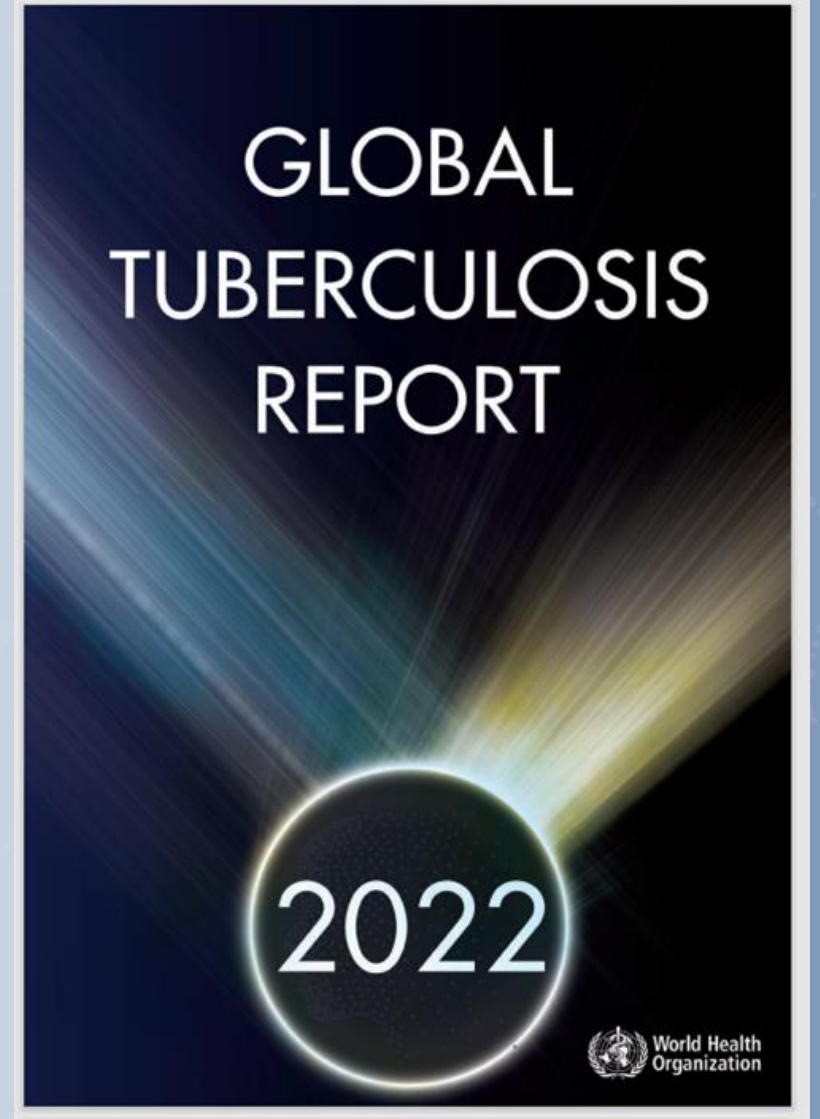
Objectives

- Trends of TB Globally
- TB in the U.S.A.
- Define the role of TB Nurse Case Management and Patient-Centered Care



TB is still a Big Problem

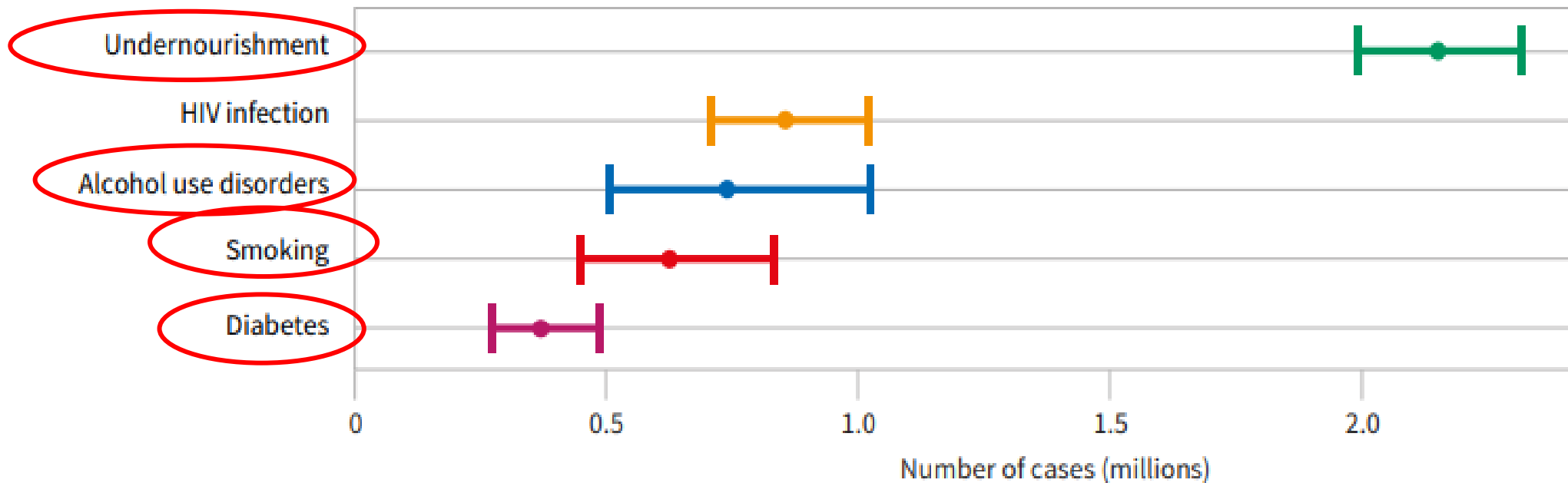
- TB is the second leading infectious killer after Covid-19
- TB is the leading killer of people **with HIV**
- In 2021 an estimate of **10.6** million people fell ill with TB disease



TB is a Social Disease....

FIG. 36

Global estimates of the number of incident TB cases attributable to selected risk factors, 2021^a



^a Sources of data used to produce estimates were: Imtiaz S et al. *Eur Resp Jour* (2017); Hayashi S et al. *Trop Med Int Health* (2018); Lönnroth K et al. *Lancet* (2010); World Bank Sustainable Development Goals Database (<http://datatopics.worldbank.org/sdgs/>); WHO Global Health Observatory (<https://www.who.int/data/gho>); and WHO Global TB Programme.

How about latent TB in the world? And Drug Resistant?





**1/3 of the world's
population is infected
with Latent TB**

**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 USA

Centers for Disease Control and Prevention
MMWR
Weekly / Vol. 72 / No. 12

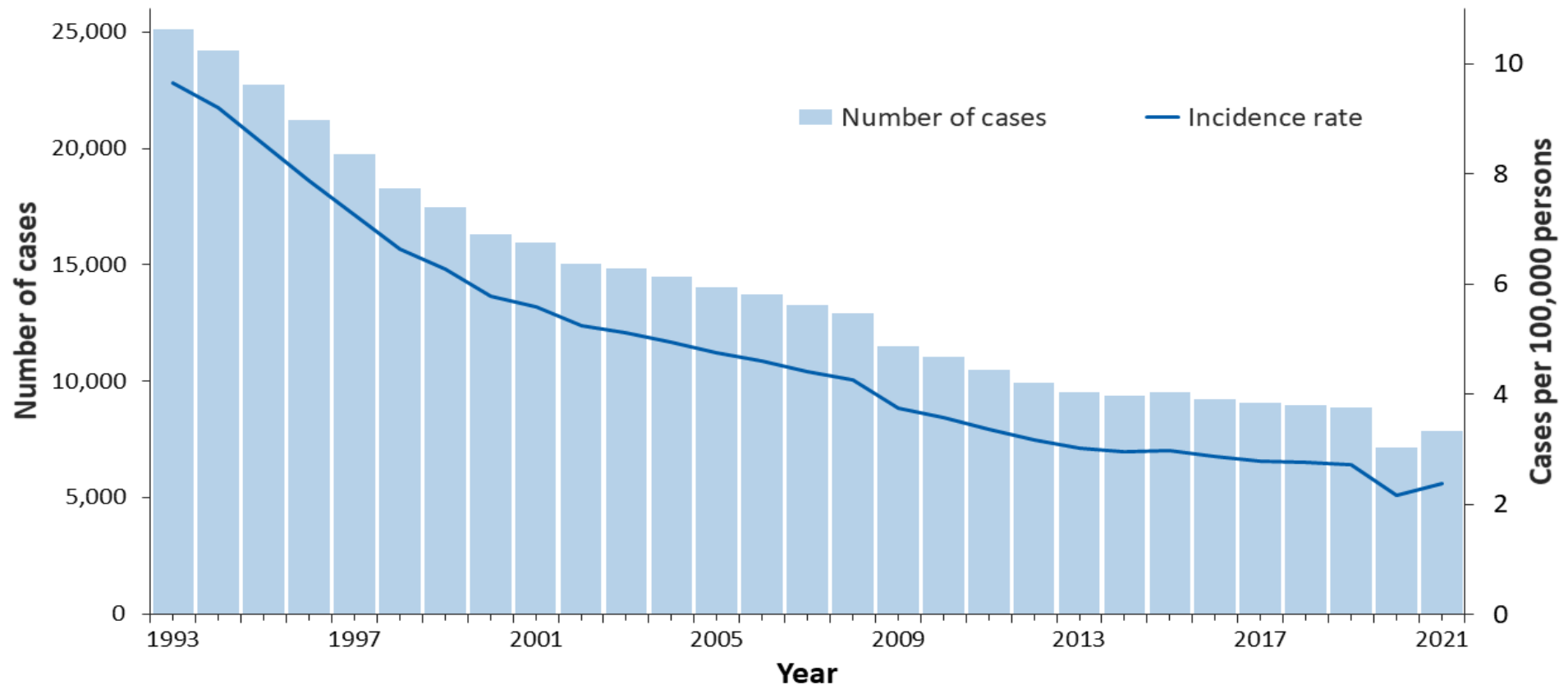
Morbidity and Mortality Weekly Report
March 24, 2023

Tuberculosis — United States, 2022

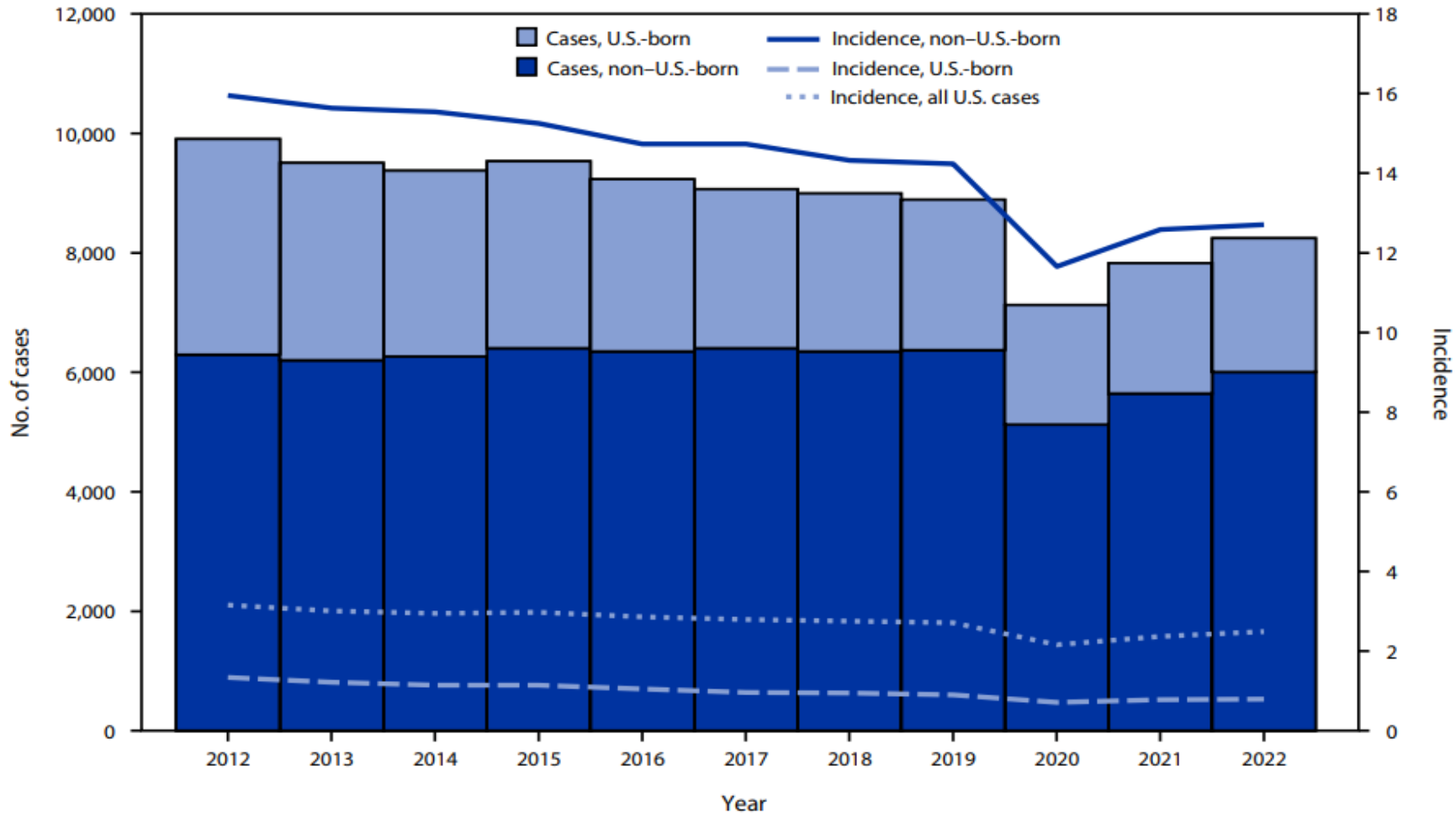
Kimberly R. Schildknecht, MPH^{1,2}; Robert H. Pratt²; Pei-Jean I. Feng, MPH²; Sandy F. Price²; Julie L. Self, PhD²



TB Cases and Incidence Rates, United States 1993-2021



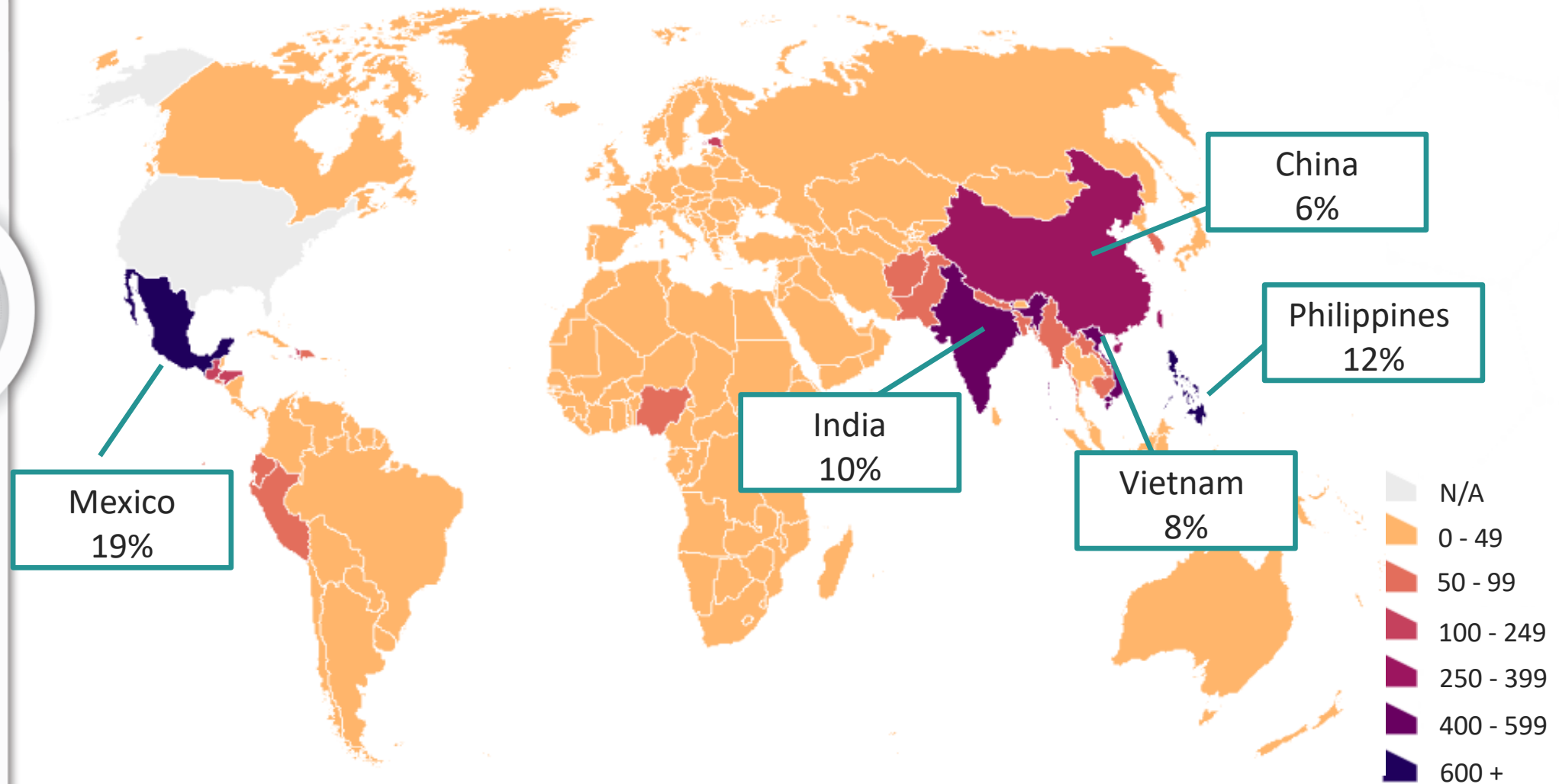
TB Disease Cases* and Incidence, by Patient U.S birth Origin Status USA, 2012-2022



* Case counts are based on data from the National Tuberculosis Surveillance System as of March 6, 2023.



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.

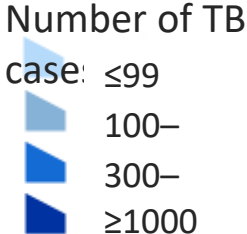
TB Cases by Reporting Area, United States, 2021

California
22%

New York*
9%

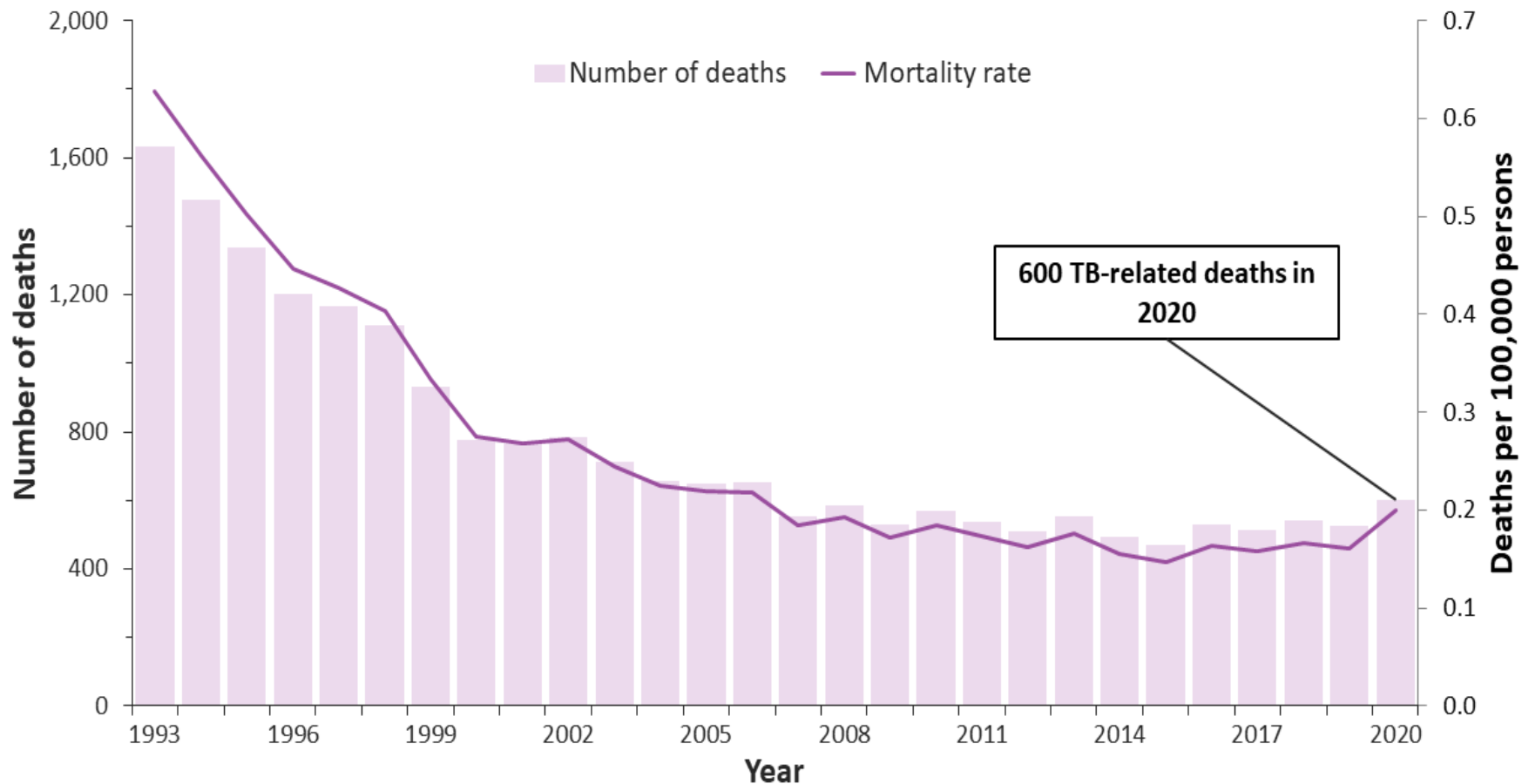
Florida
6%

Texas
13%



* Includes New York City

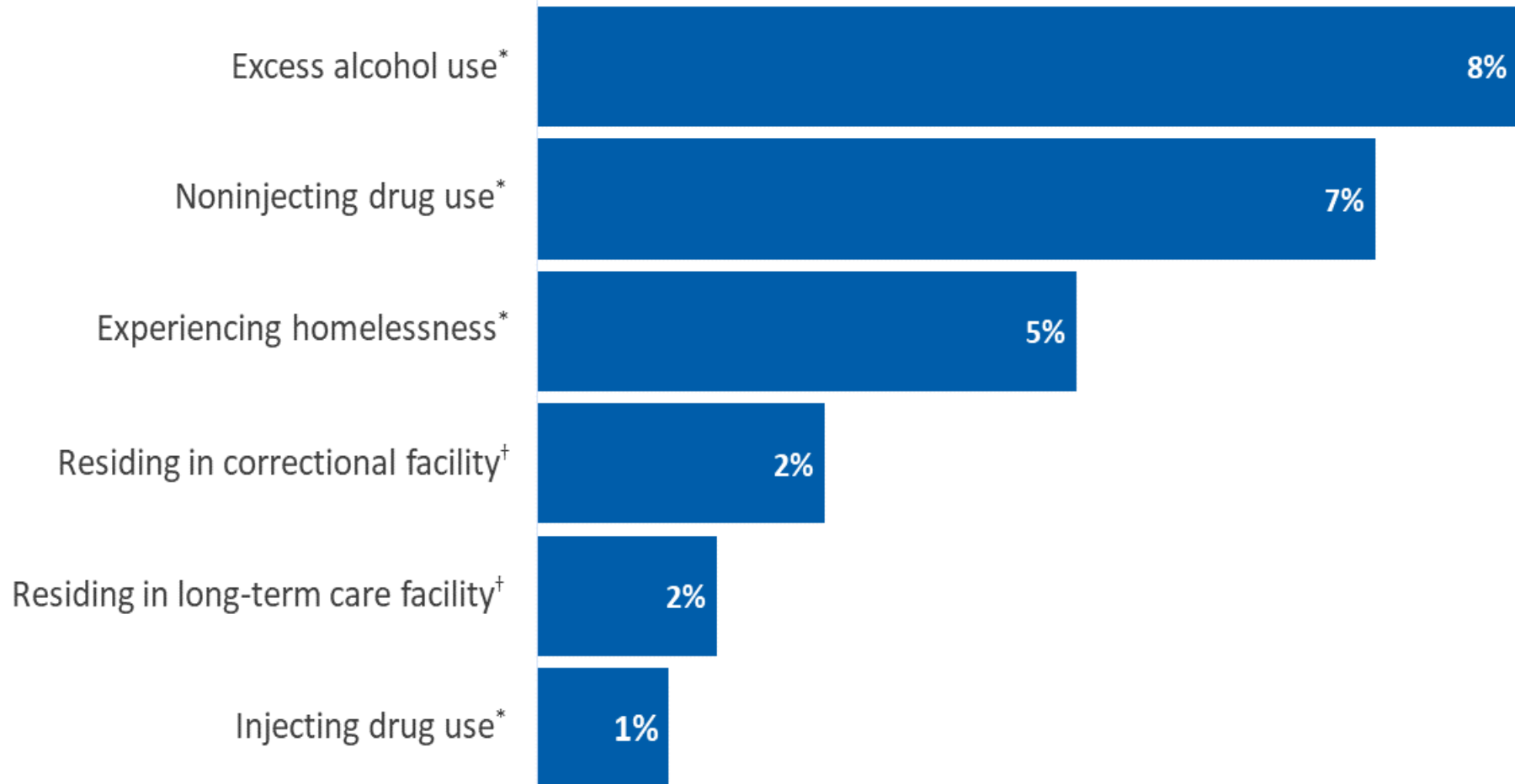
TB Related Deaths and Mortality Rates, USA 1993-2020



*National Vital Statistics System Underlying Cause of Death (based on deaths reported through 2020)



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



*Within past 12 months prior to TB diagnosis

†At the time of TB diagnosis



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



Prevention is the Key

Clinical Review & Education

JAMA | US Preventive Services Task Force | **RECOMMENDATION STATEMENT**

Screening for Latent Tuberculosis Infection in Adults US Preventive Services Task Force Recommendation Statement

US Preventive Services Task Force



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 coordinate 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.



THANK YOU
for all you do!

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

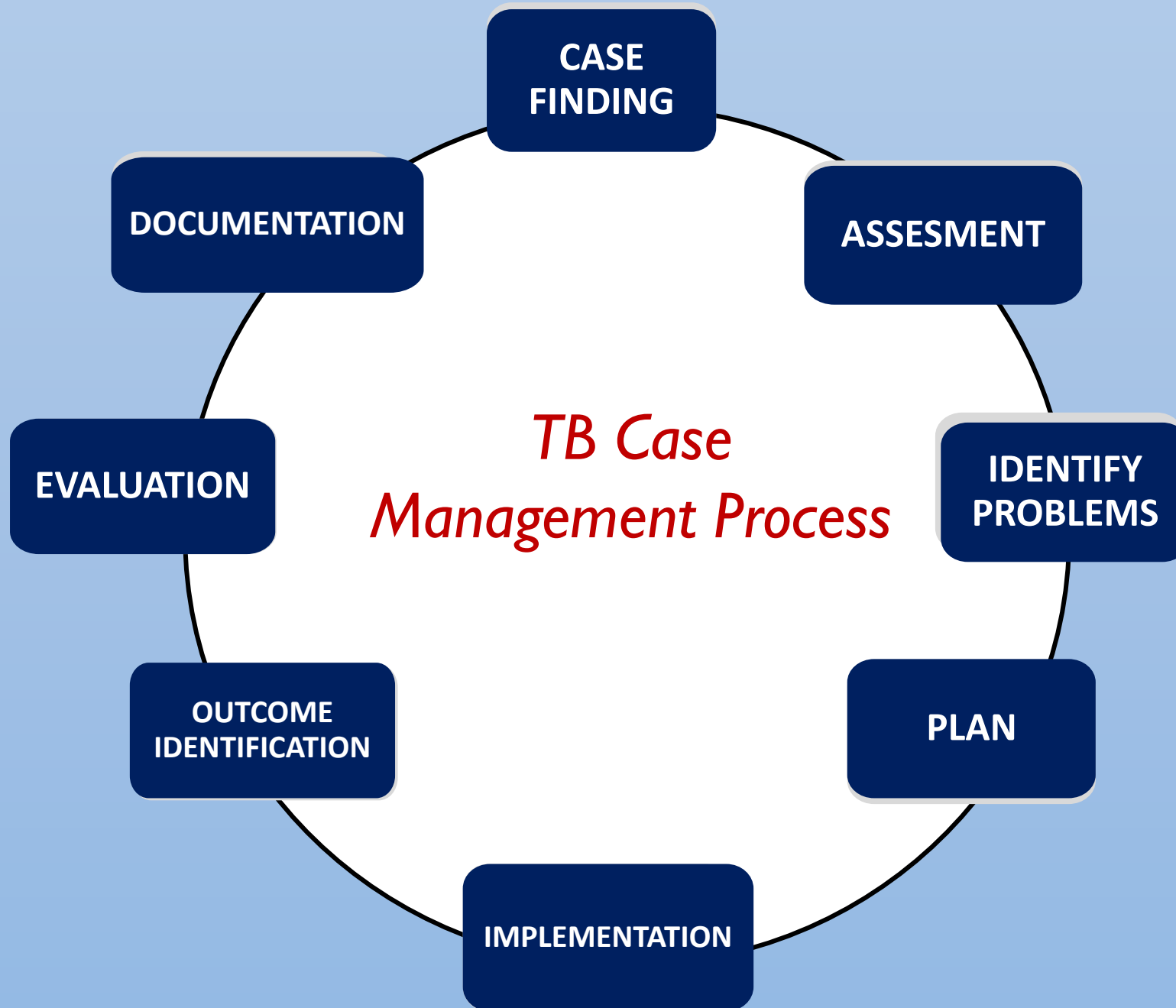
IDENTIFY
PROBLEMS

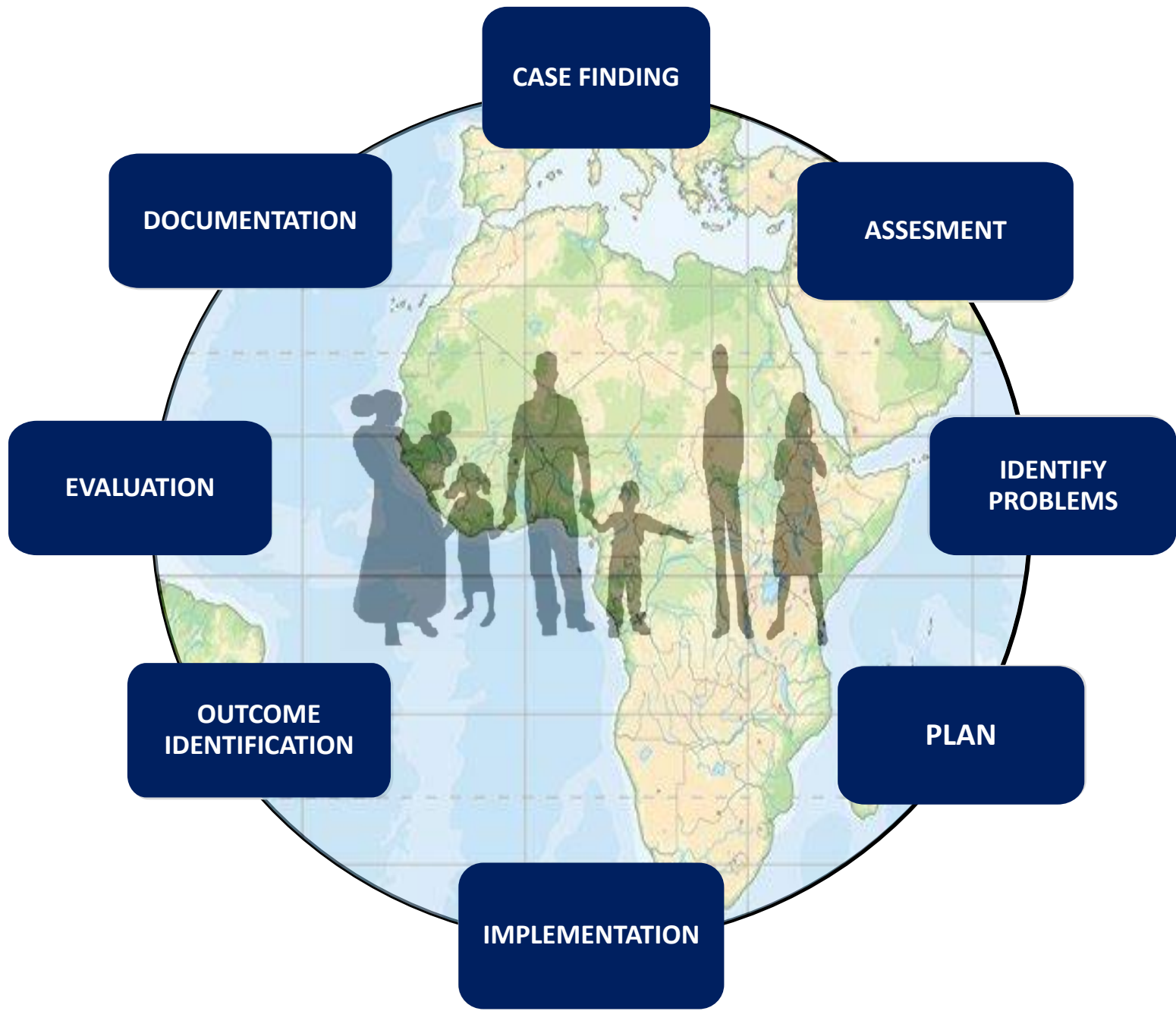
OUTCOME
IDENTIFICATION

PLAN

IMPLEMENTATION







THANK YOU!

