



# **Principles of Nurse Case Management: Why Are We Here?**

Catalina Navarro, BSN, RN

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Essentials of TB Nurse Case Management Online

April 9, 16, 23, 30, 2024

Online Course

# **Catalina Navarro, BSN, RN** has the following disclosures to make:

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- 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

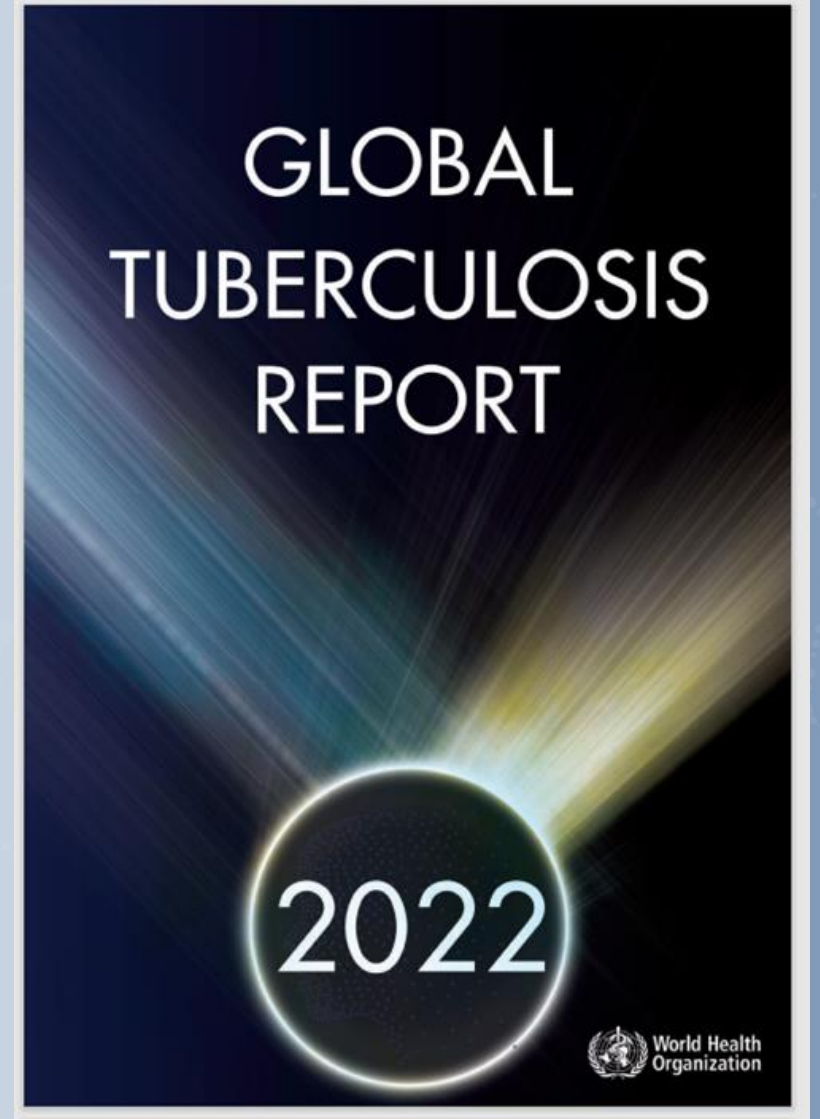
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- Trends of TB Globally
- TB in the U.S.A.
- Define the role of TB Nurse Case Management and Patient-Centered Care



# TB is still a Big Problem

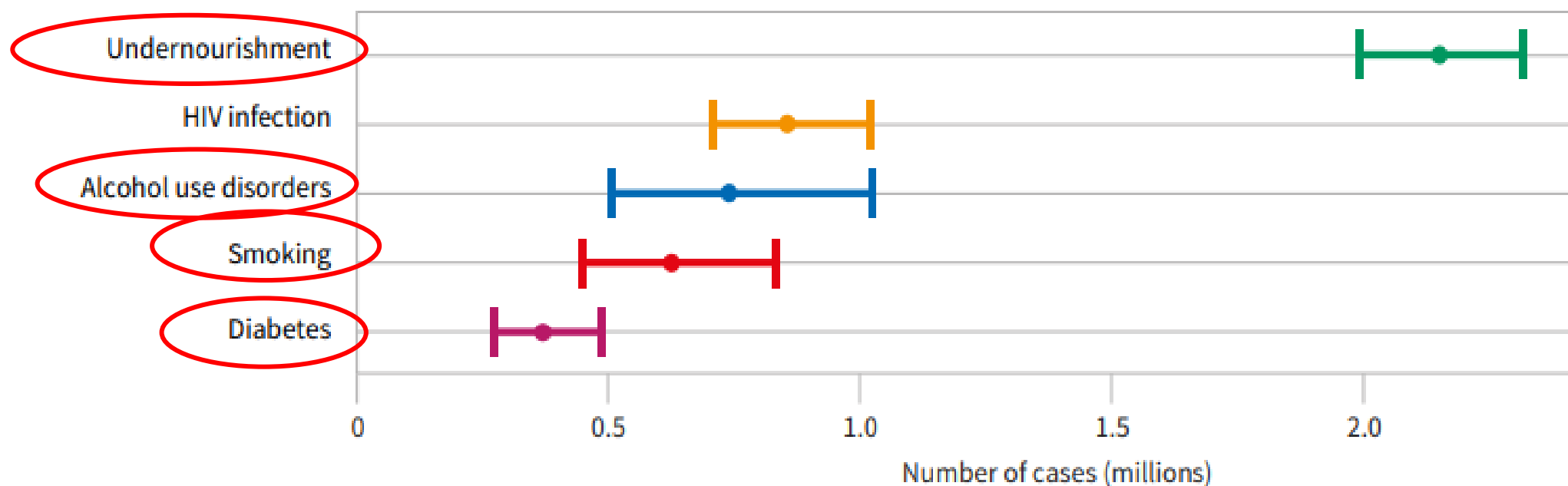
- TB is the second leading infectious killer after Covid-19
- TB is the leading killer of people **with HIV**
- In 2021 an estimate of **10.6** million people fell ill with TB disease



# TB is a Social Disease....

FIG. 36

Global estimates of the number of incident TB cases attributable to selected risk factors, 2021<sup>a</sup>



<sup>a</sup> 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

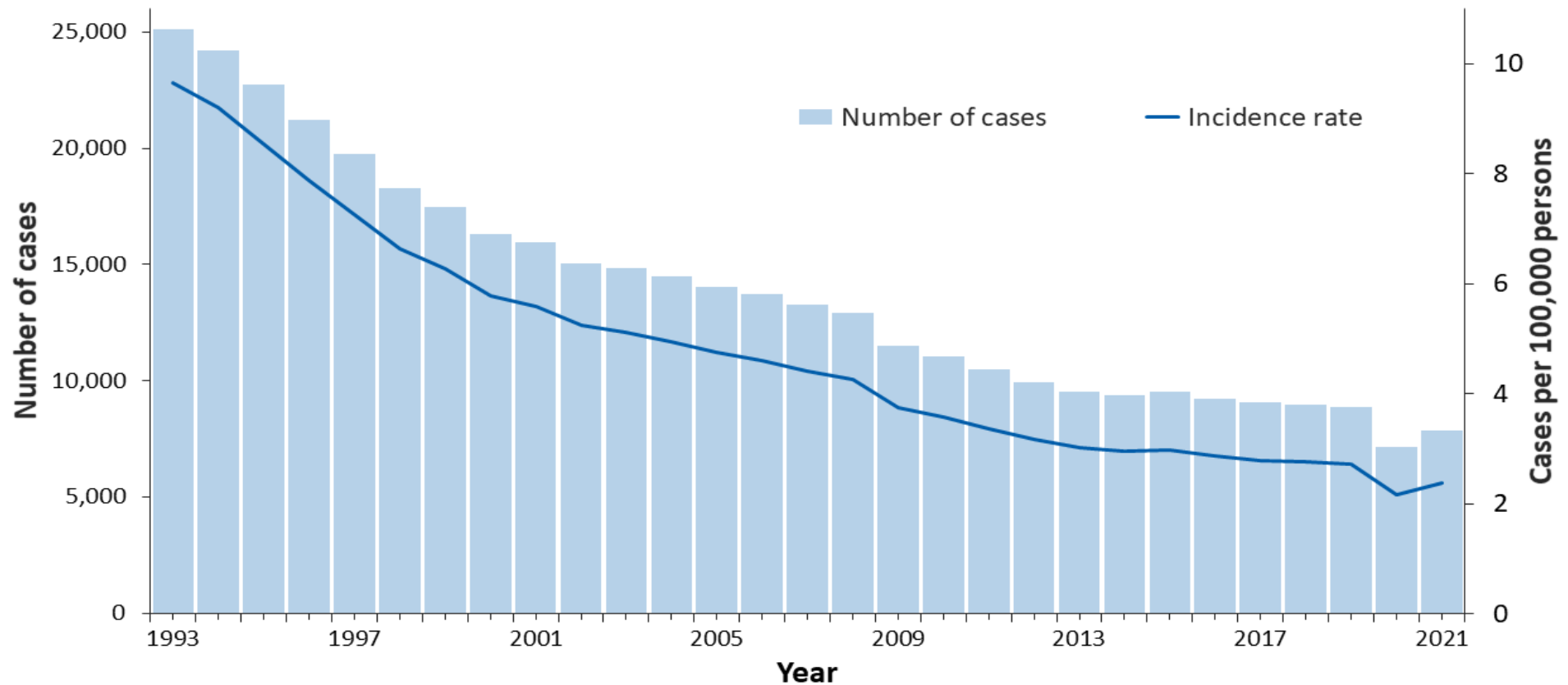
Morbidity and Mortality Weekly Report  
March 24, 2023

## Tuberculosis — United States, 2022

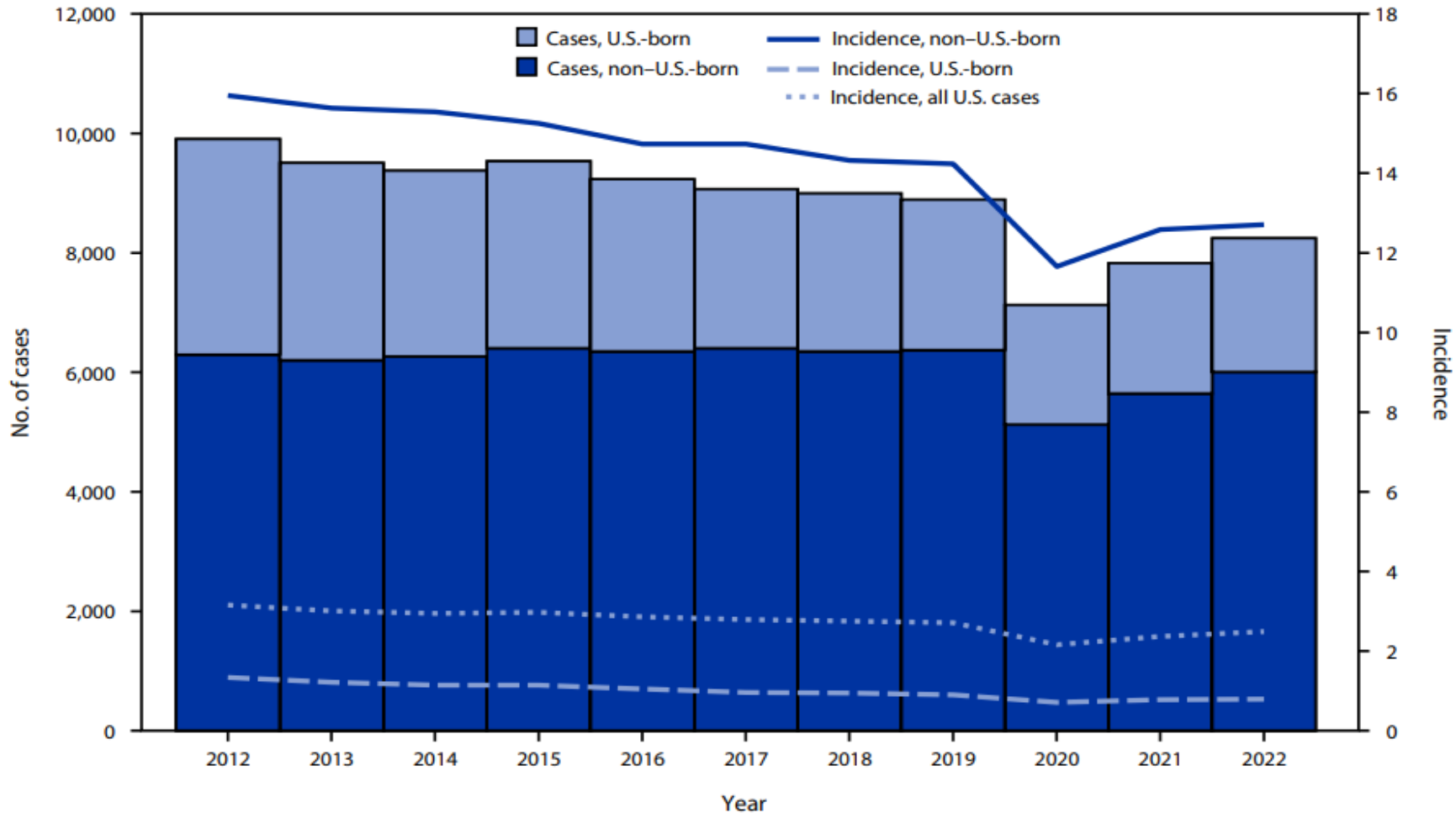
Kimberly R. Schildknecht, MPH<sup>1,2</sup>; Robert H. Pratt<sup>2</sup>; Pei-Jean I. Feng, MPH<sup>2</sup>; Sandy F. Price<sup>2</sup>; Julie L. Self, PhD<sup>2</sup>



# TB Cases and Incidence Rates, United States 1993-2021



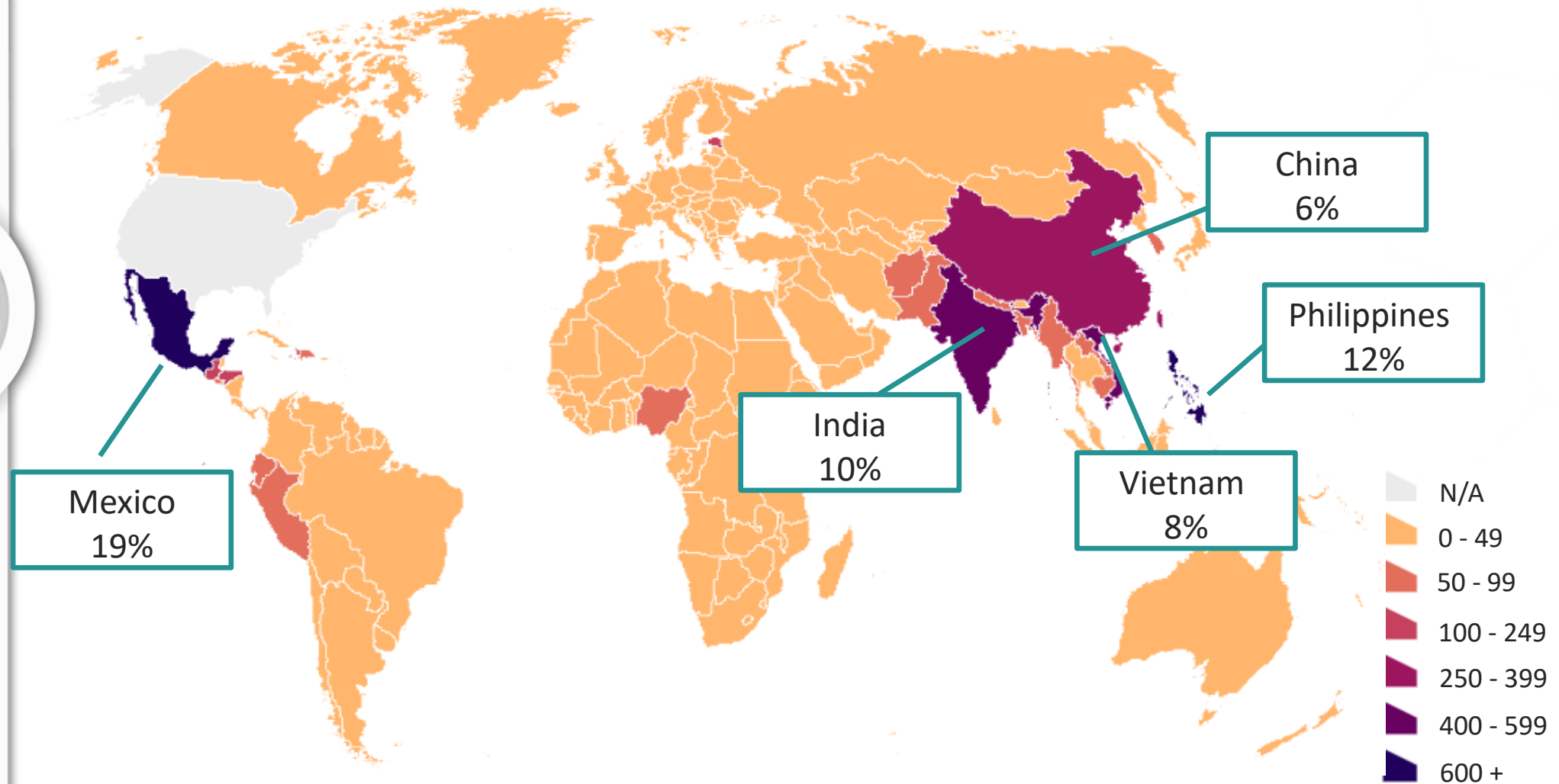
# TB Disease Cases\* and Incidence, by Patient U.S birth Origin Status USA, 2012-2022



\* 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.

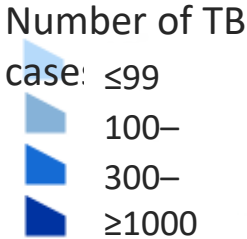
# TB Cases by Reporting Area, United States, 2021

California  
22%

New York\*  
9%

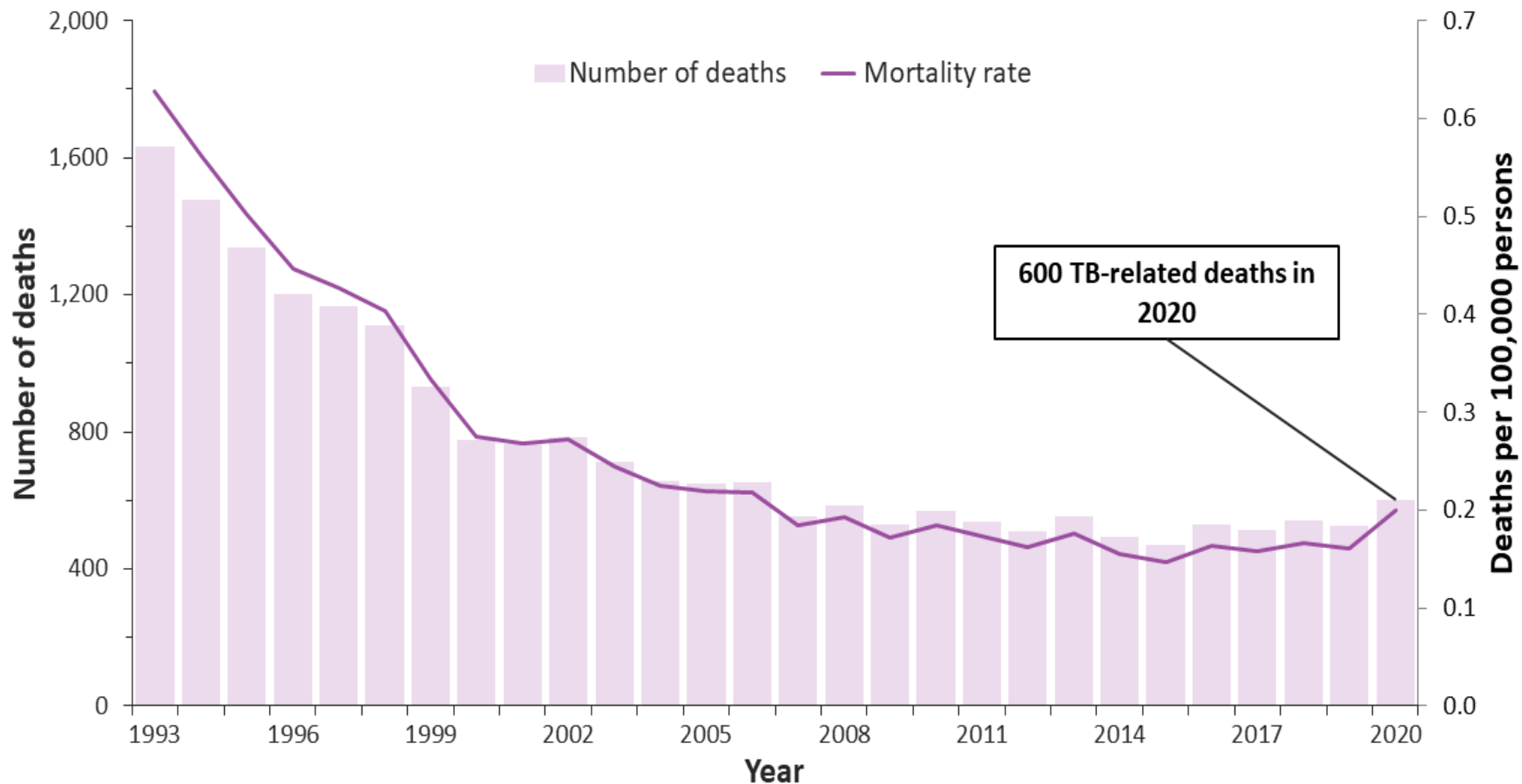
Florida  
6%

Texas  
13%



\* Includes New York City

# TB Related Deaths and Mortality Rates, USA 1993-2020

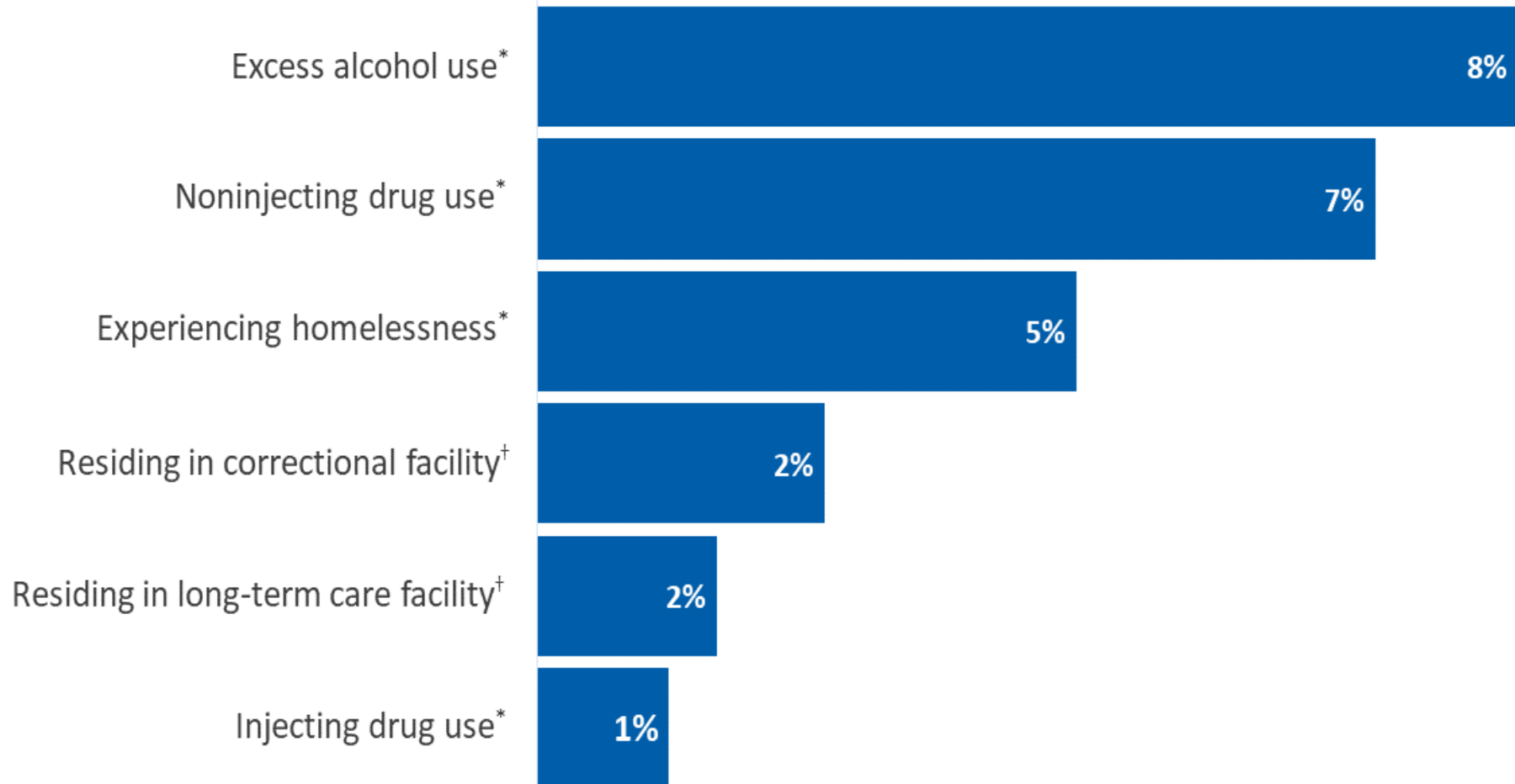


\*National Vital Statistics System Underlying Cause of Death (based on deaths reported through 2020)





# 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

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“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.



# Goals of TB Case Management

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- 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*

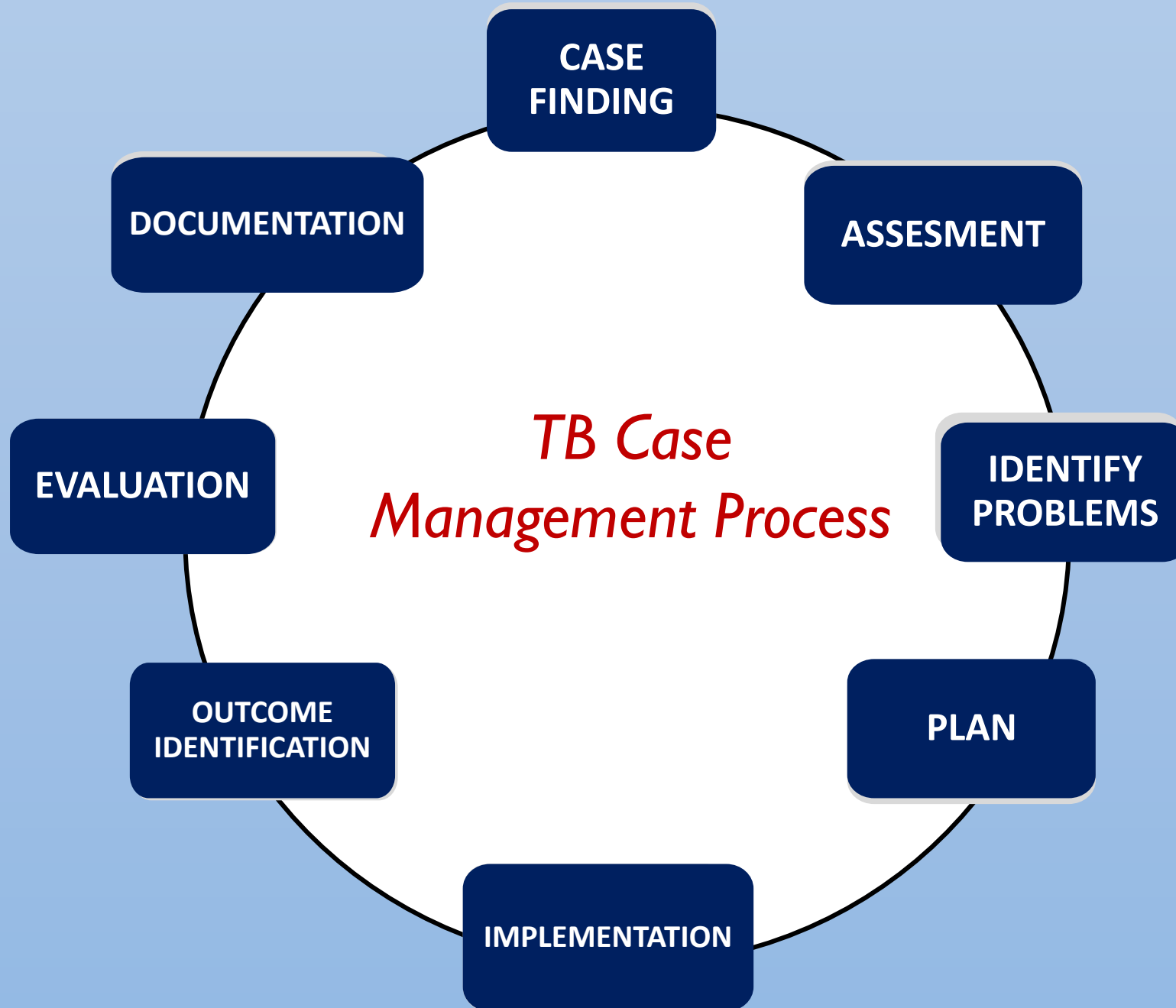
IDENTIFY  
PROBLEMS

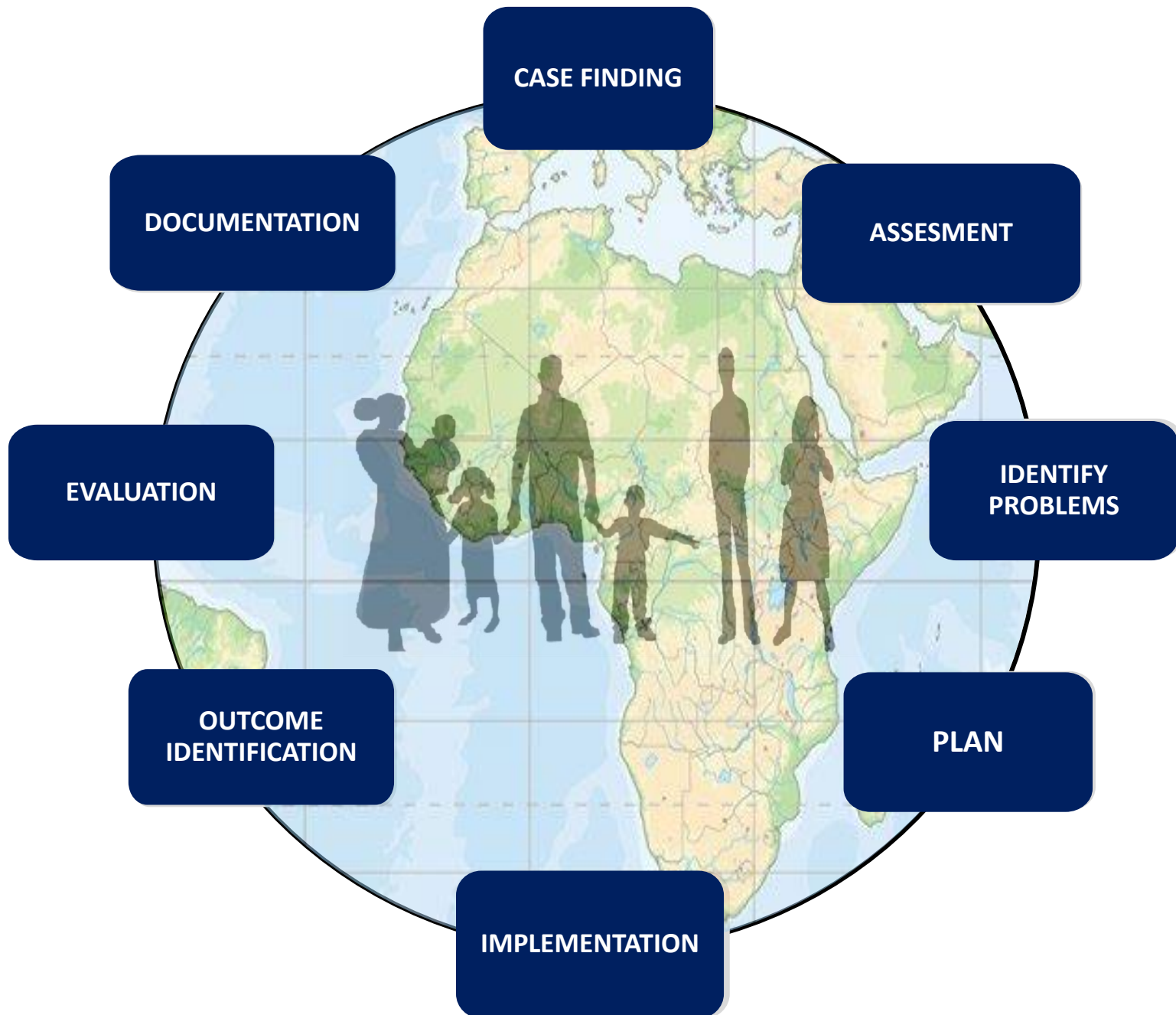
OUTCOME  
IDENTIFICATION

PLAN

IMPLEMENTATION







**CASE FINDING**

**DOCUMENTATION**

**ASSESMENT**

**EVALUATION**

**IDENTIFY PROBLEMS**

**OUTCOME IDENTIFICATION**

**PLAN**

**IMPLEMENTATION**

**THANK YOU!**

