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U.S. Department of Health and Human Services





Progress Review Overview

- Summarize the burden of Tuberculosis and infectious diseases in the U.S. and abroad
- Provide an update on the progress of Healthy People 2020 objectives
- Examine what is being done to achieve the Healthy People 2020 objectives

Evolution of Healthy People



Target Year	1990	2000	2010	2020
				
Overarching Goals	<ul style="list-style-type: none"> •Decrease mortality: infants–adults •Increase independence among older adults 	<ul style="list-style-type: none"> •Increase span of healthy life •Reduce health disparities •Achieve access to preventive services for all 	<ul style="list-style-type: none"> •Increase quality and years of healthy life •Eliminate health disparities 	<ul style="list-style-type: none"> •Attain high-quality, longer lives free of preventable disease •Achieve health equity; eliminate disparities •Create social and physical environments that promote good health •Promote quality of life, healthy development, healthy behaviors across life stages
# Topic Areas	15	22	28	42
# Objectives/Measures	226/NA	312/NA	467/1,000	1,200/1200



Healthy People 2020 Remains Relevant



HEALTHY PEOPLE
The Surgeon General's Report On
Health Promotion And Disease Prevention



1979



1990



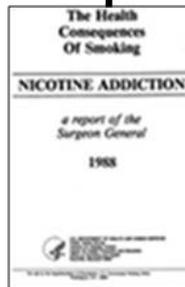
2000



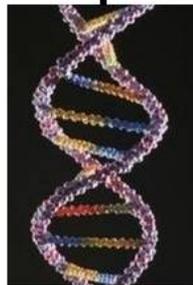
2010



1979 Small Pox
Eradicated



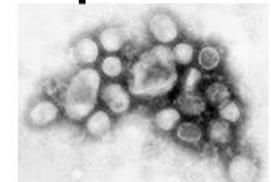
1988 SG
Declares
Nicotine
Addictive



1990
Human
Genome
Project
Begins



2000s Obesity
and Chronic Disease



2009 H1N1 Flu



1970 Clean
Air Act



1982 AIDS
is infectious



1990s Drinking
Water Fluoridation



September
11, 2001



2005 Hurricane
Katrina

Healthy People 2020

- 42 topic area and 1200 objectives
- Source for reliable, science-based, public health measures
- Can be customized to meet needs of diverse users
- Guided by collaborative stakeholder-driven process

The screenshot shows the HealthyPeople.gov website. The main heading is "2020 Topics & Objectives – Objectives A-Z". Below this, there is a search bar and a "NOW ONLINE" banner. The page lists various topic areas, with "Global Health" and "Immunization and Infectious Diseases" circled in red. The list includes:

Letter	Topic Area
A	Access to Health Services
B	Blood Disorders and Blood Safety ^{New}
C	Cancer Chronic Kidney Disease
D	Dementias, Including Alzheimer's Disease ^{New} Diabetes Disability and Health
G	Genomics ^{New} Global Health ^{New}
H	Health Communication and Health Information Technology Healthcare-Associated Infections ^{New} Health-Related Quality of Life & Well-Being ^{New} Hearing and Other Sensory or Communication Disorders Heart Disease and Stroke HIV
I	Immunization and Infectious Diseases
J	Injury and Violence Prevention
N	Nutrition and Weight Status
O	Occupational Safety and Health Older Adults ^{New} Oral Health
P	Physical Activity Preparedness ^{New} Public Health Infrastructure
R	Respiratory Diseases
S	Sexually Transmitted Diseases



Immunizations and Infectious Diseases

- Vaccinations are the greatest U.S. public health achievement of the 20th Century
- Immunizations increased U.S. life expectancy during the 20th century
- Vaccines are among the most cost-effective clinical preventive services



Cost Savings Attributed to Vaccines

Reduces direct health care costs by \$14 billion.



Saves \$69 billion in total societal costs.



Prevents 20 million cases of disease.



Saves 42,000 lives.



Global Health

■ Plays an increasingly important role in global and U.S Security

- Corona Viruses: SARS (2003), MERS (2012)
- H1N1 Influenza (2009)
- H7N9 Influenza (2013)

■ Rapid identification of infectious diseases helps:

- Promote health abroad
- Prevent the international spread of disease
- Protect the health of the U.S. population

SOURCE: HealthyPeople.gov



Presenters

Chair

- Howard K. Koh, MD, MPH
Assistant Secretary for Health, HHS

Data Presentation

- Irma Aripse, PhD
Associate Director, National Center for Health Statistics, CDC

Immunization and Infectious Diseases

- Rear Admiral Kenneth Castro, MD
Director, Division of Tuberculosis Elimination, CDC

Global Health

- Tom Kenyon, MD, MPH
Director, Center for Global Health, CDC
- Craig Shapiro, MD
Director, Office of the Americas, Office of Global Affairs, HHS

Community Highlight

- Ed Zuroweste, MD
Chief Medical Officer, Migrant Clinician Network

U.S. Leading Causes of Death

	1900	1950	2010
1	Pneumonia and influenza	Heart disease	Heart disease
2	Tuberculosis	Cancer	Cancer
3	Diarrhea and enteritis	Stroke	Chronic lung disease
4	Heart disease	Injuries	Stroke
5	Stroke	Infant mortality	Injuries
6	Kidney disease	Pneumonia and influenza	Alzheimer's disease
7	Injuries	Tuberculosis	Diabetes
8	Cancer	Arteriosclerosis	Kidney disease
9	Senility	Kidney disease	Pneumonia and influenza
10	Diphtheria	Diabetes	Suicide



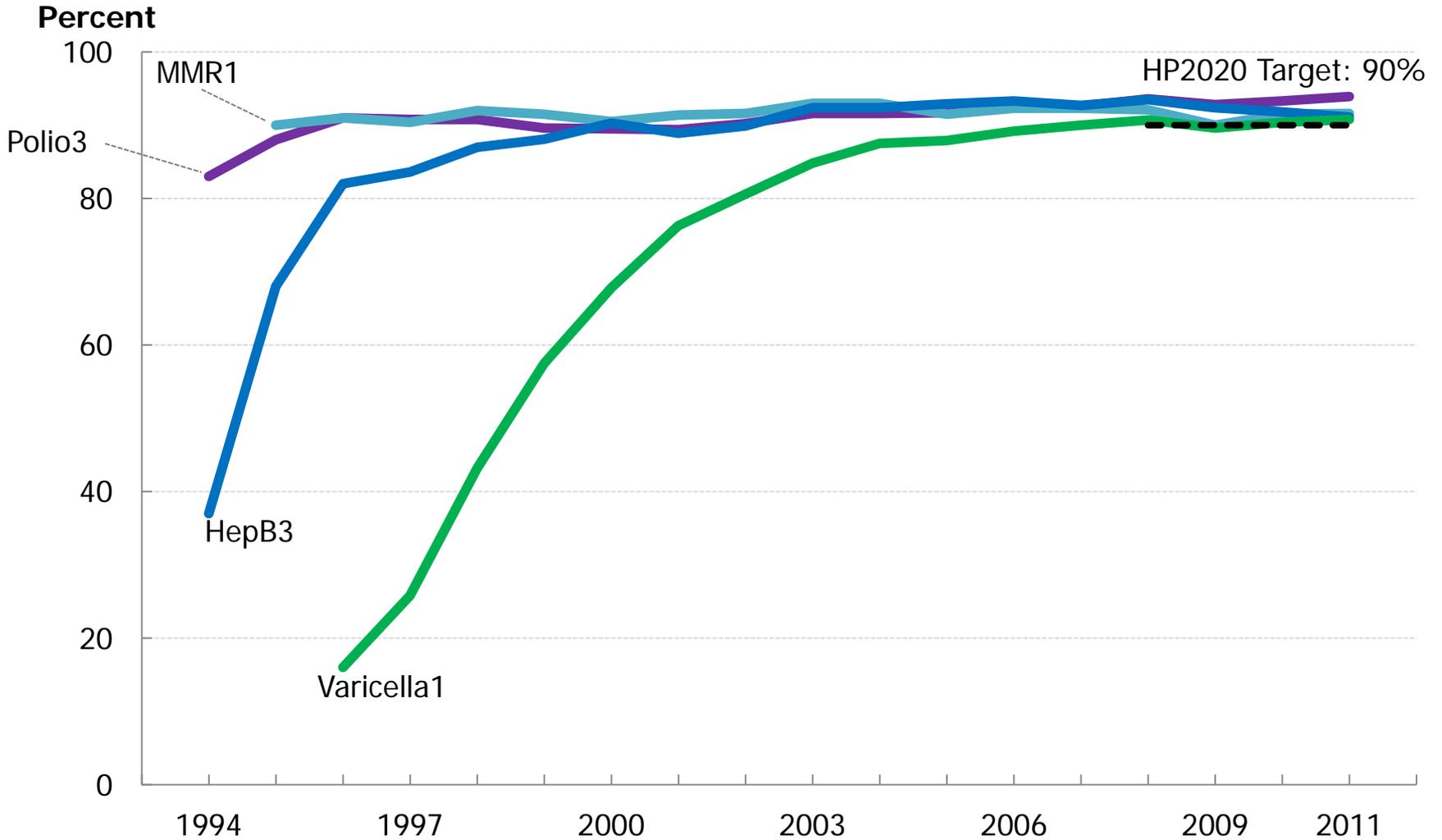
Data Presentation Outline

- Vaccination coverage
 - Child
 - Adolescent

- Vaccine-preventable diseases
- Global health
- Tuberculosis (TB): U.S. and abroad

Vaccination Coverage

Children 19-35 months, 1994-2011

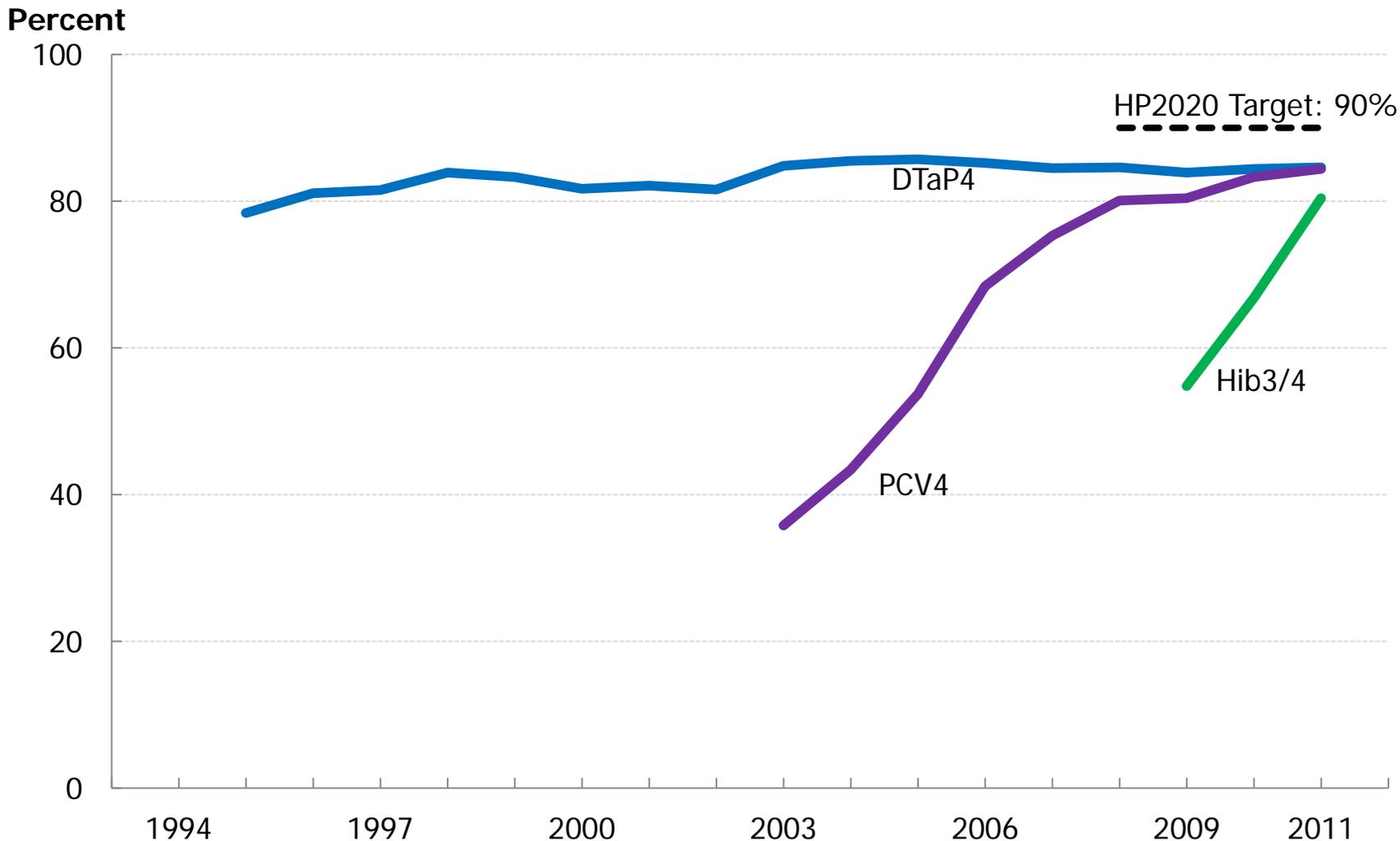


NOTE: 1994 data are from Apr-Dec 1994.

SOURCE: National Immunization Survey (NIS), CDC/NCIRD and CDC/NCHS.

Obj. IID-7.1 through 7.10
Increase desired

Vaccination Coverage Children 19-35 months, 1994-2011

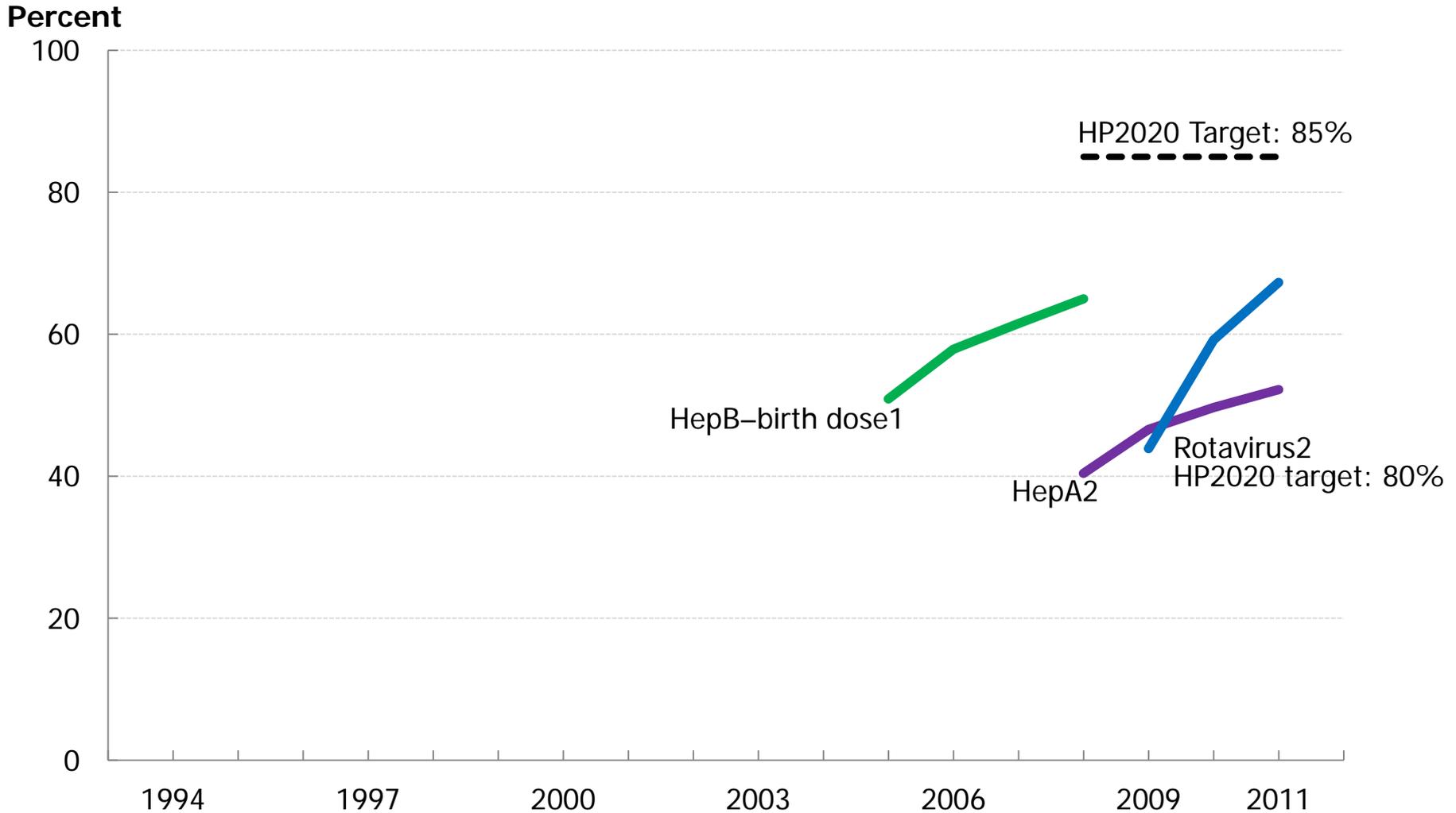


NOTE: 1994 data are from Apr-Dec 1994.

SOURCE: National Immunization Survey (NIS), CDC/NCIRD and CDC/NCHS.

Obj. IID-7.1 through 7.10
Increase desired

Vaccination Coverage Children 19-35 months, 1994-2011



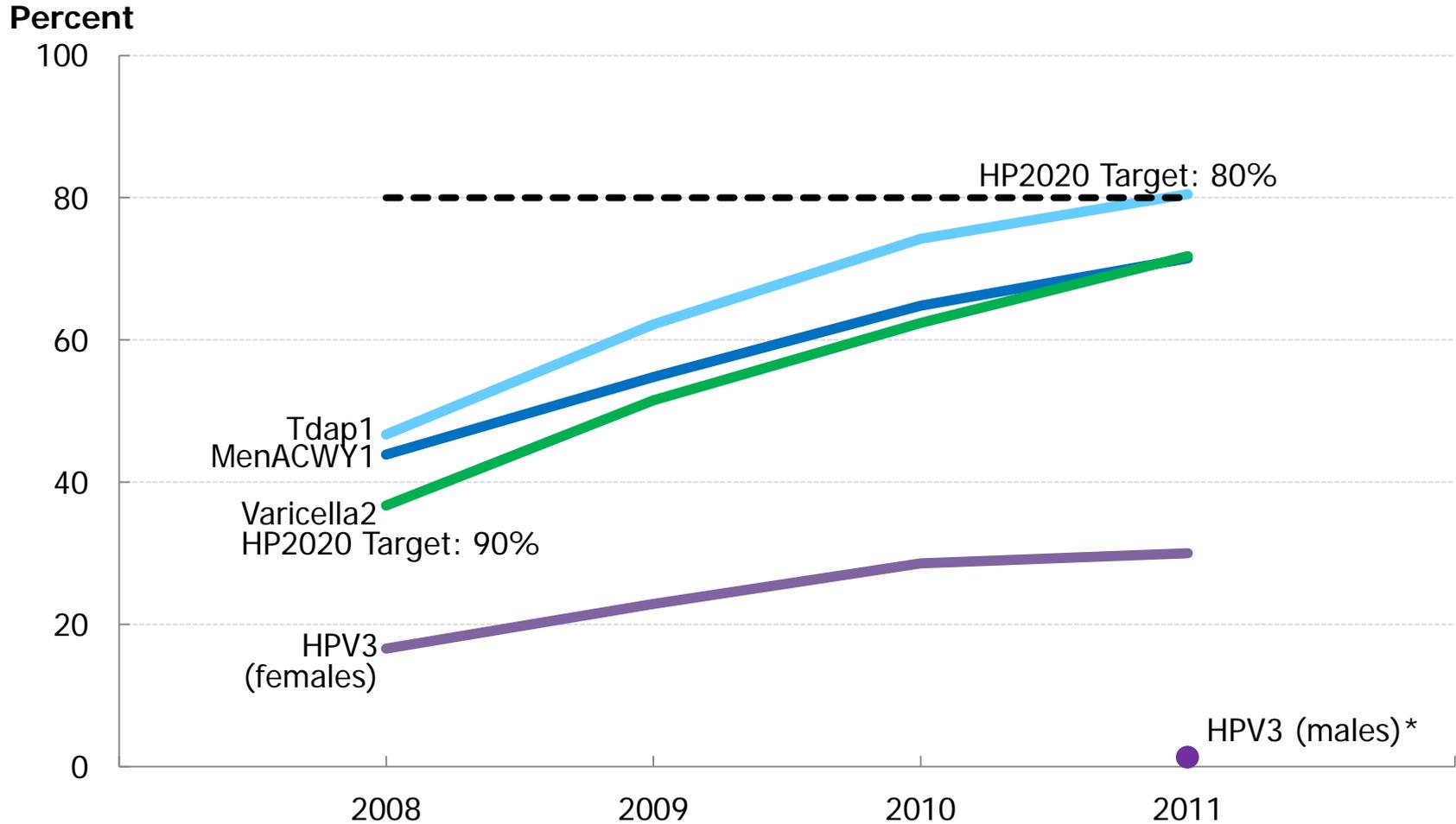
Obj. IID-7.1 through 7.10
Increase desired

NOTE: Data are presented by birth cohort for HepB-birth dose and by data year for HepA and Rotavirus vaccines.

SOURCE: National Immunization Survey (NIS), CDC/NCIRD and CDC/NCHS.

Vaccination Coverage

Adolescents 13–15 years, 2009-2011

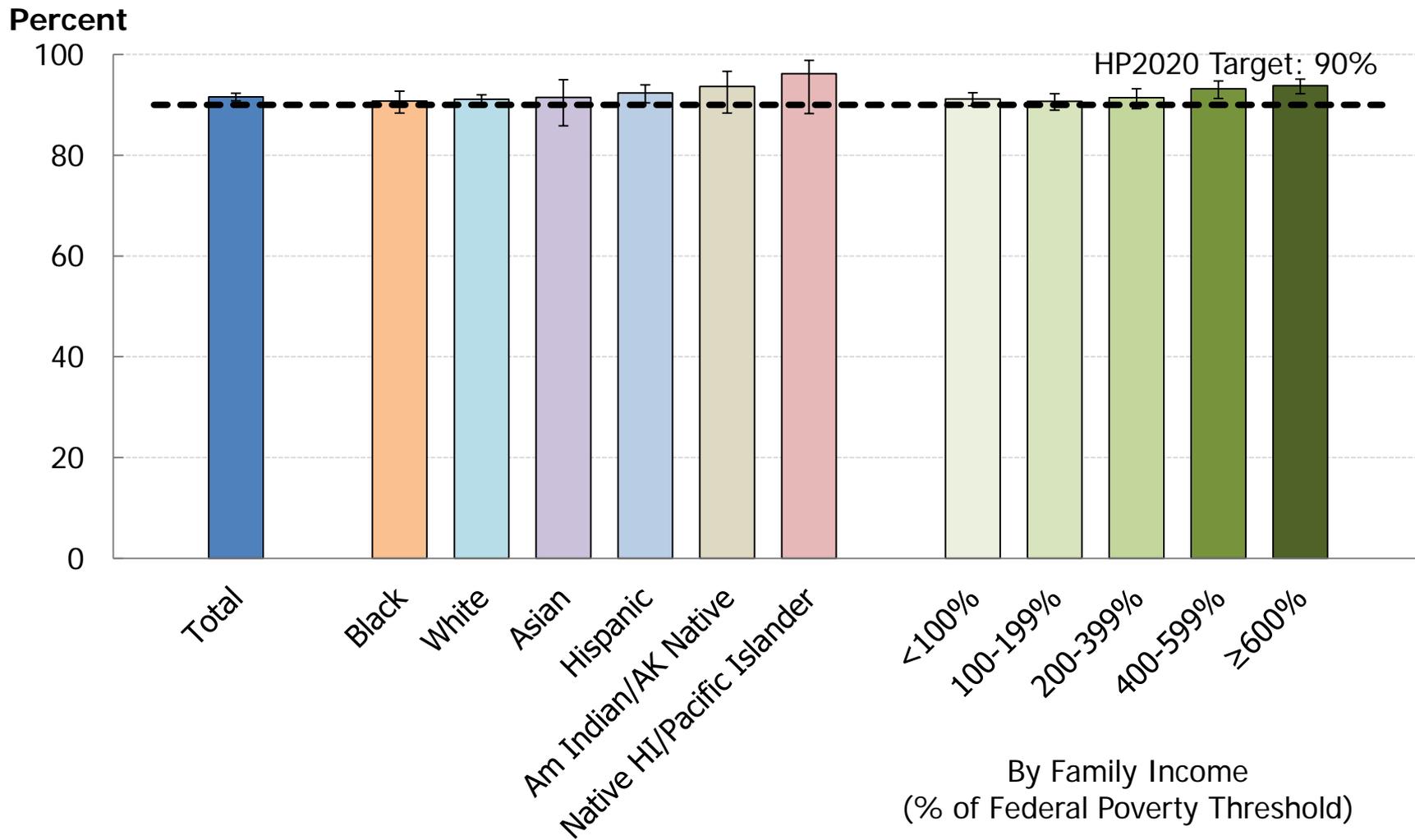


NOTES: *aged 13-17 years, not a HP2020 objective

SOURCE: National Immunization Survey (NIS)-Teen, CDC/NCIRD and CDC/NCHS.

Obj. IID-11.1 through 11.4
Increase desired

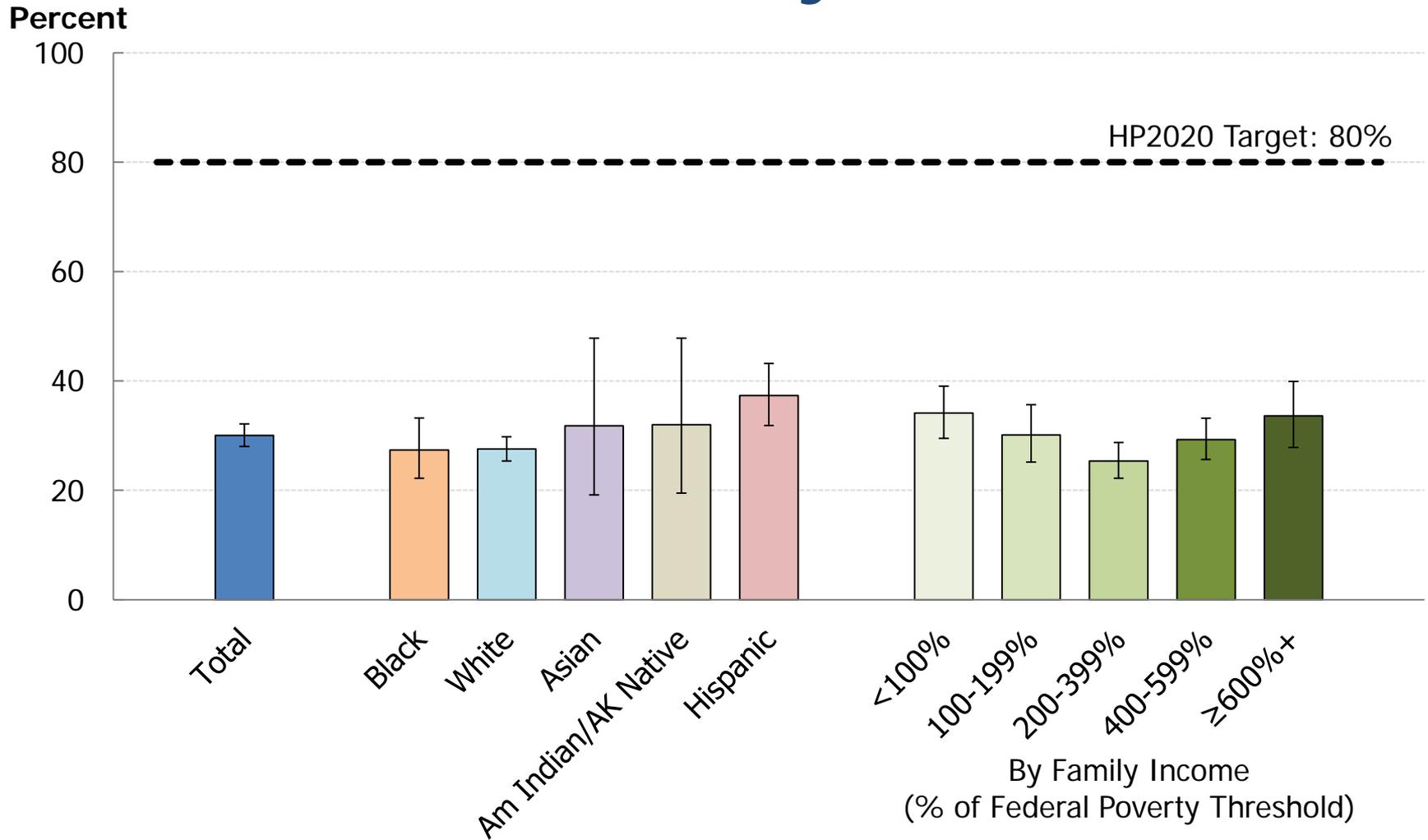
MMR Vaccine Coverage Children 19-35 months, 2011



NOTES: I = 95% confidence interval. Children identified as white, black, Asian, or American Indian/Alaska Native are non-Hispanic. Persons identified as Hispanic can be of any race.
SOURCE: National Immunization Survey (NIS), CDC/NCIRD and CDC/NCHS.

Obj. IID-7.4
Increase desired

HPV Vaccine Coverage Females 13-15 years, 2011



NOTES: I = 95% confidence interval. Adolescents reported as Hispanics can be of any race. Adolescents who were reported by the adult as white, black, Asian, or American Indian/Alaska Native all were considered non-Hispanic.

SOURCE: National Immunization Survey (NIS)-Teen, CDC/NCIRD and CDC/NCHS.

Obj. IID-11.4
Increase desired

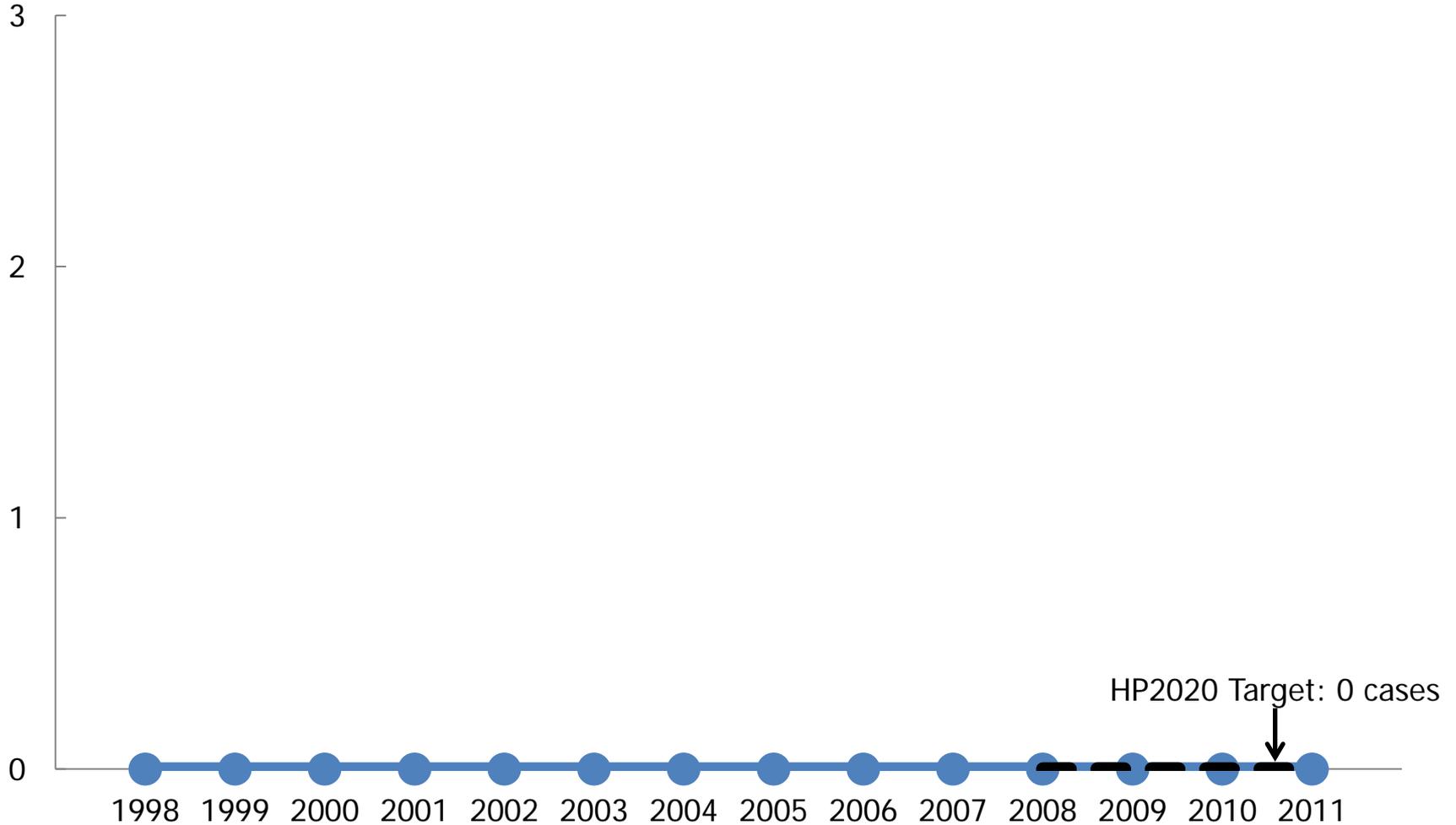


Data Presentation Outline

- Vaccination coverage
- Vaccine-preventable diseases
 - Polio
 - Measles
 - Influenza
- Global Health
- Tuberculosis (TB): U.S. and abroad

Polio – U.S. Acquired Cases

Total Cases



Obj. IID-1.8
Maintain elimination

SOURCE: National Notifiable Disease Surveillance System (NNDSS), CDC/NCIRD.

Polio – Global

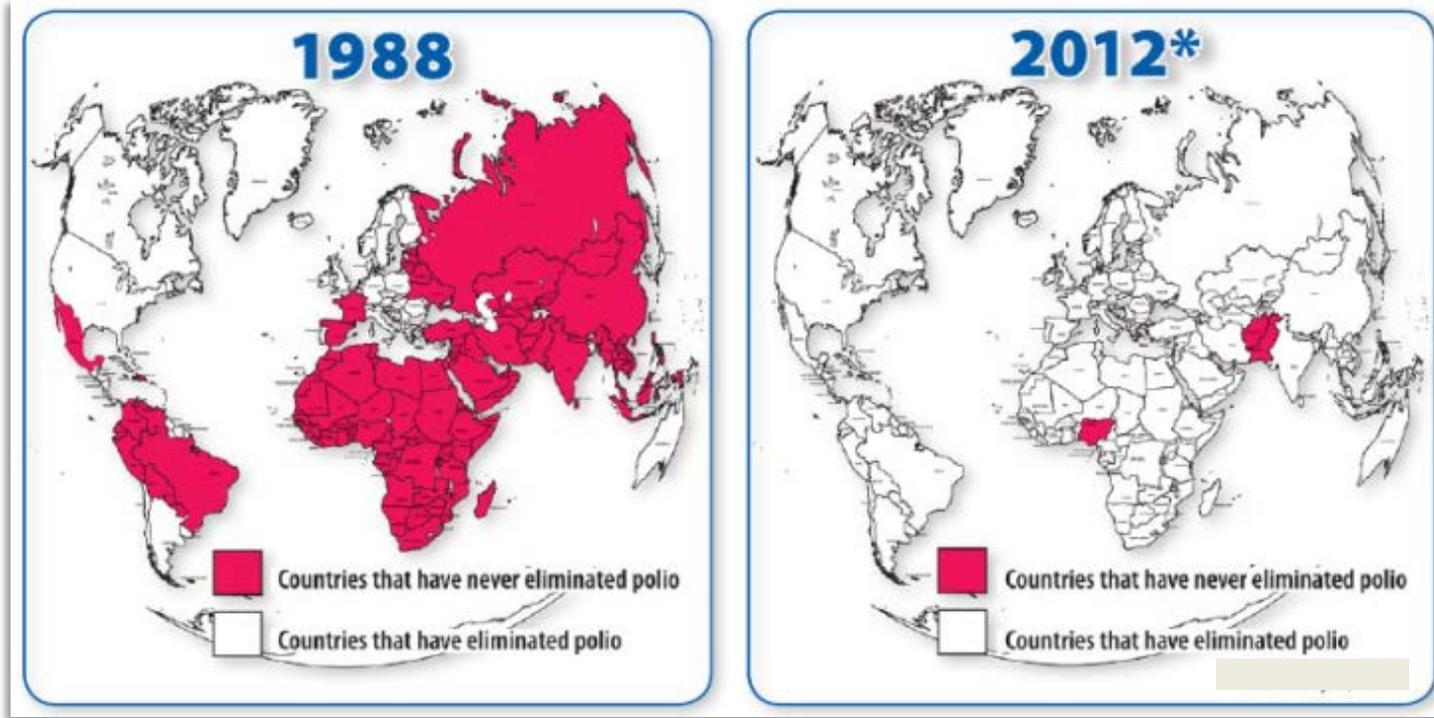
Total Cases

3

2

1

0



HP2020 Target: 0 cases

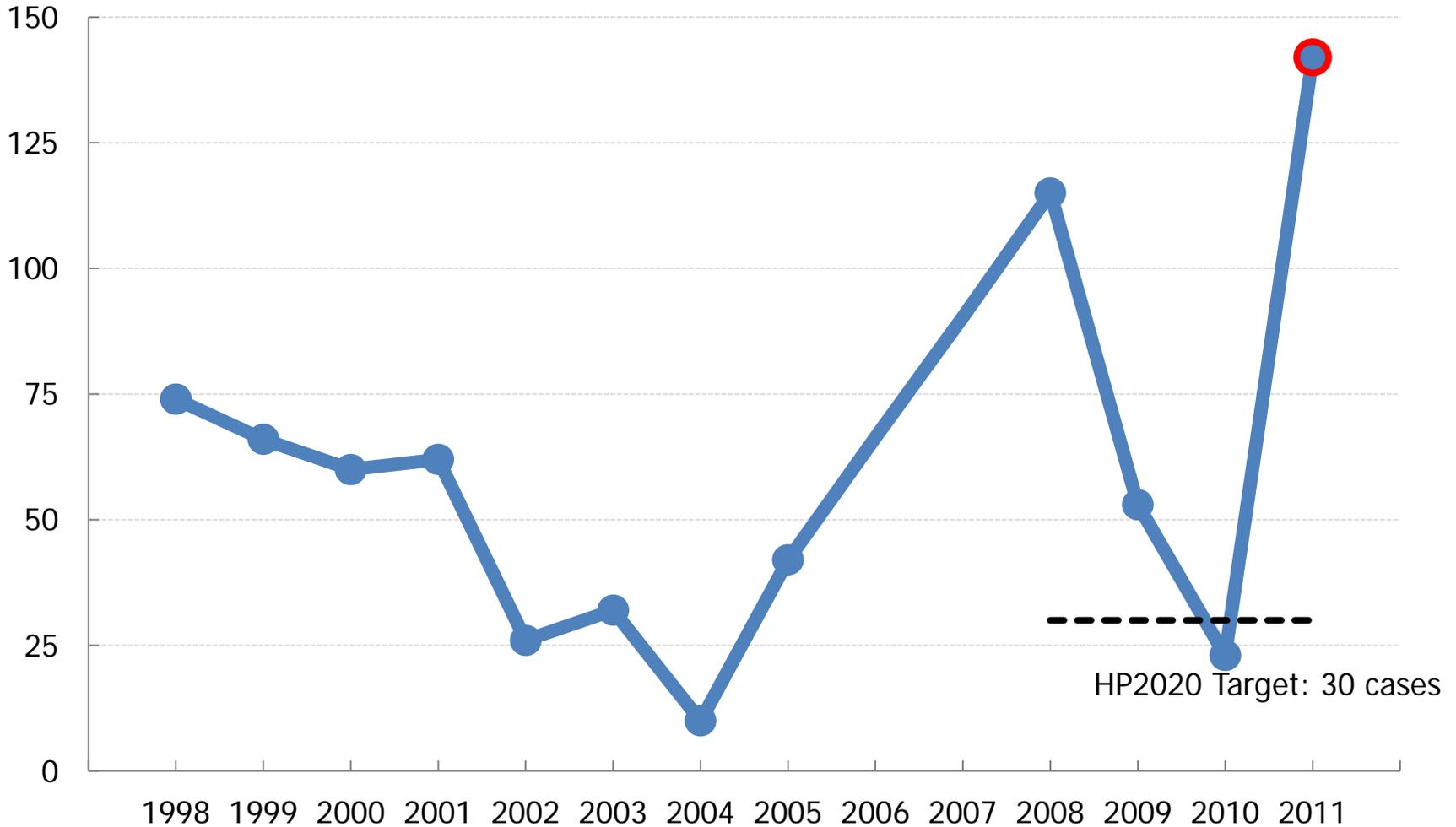
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

NOTE: *As of May 3, 2012

SOURCE: <http://www.cdc.gov/polio/progress/>

Measles – U.S. Acquired Cases

Total Cases

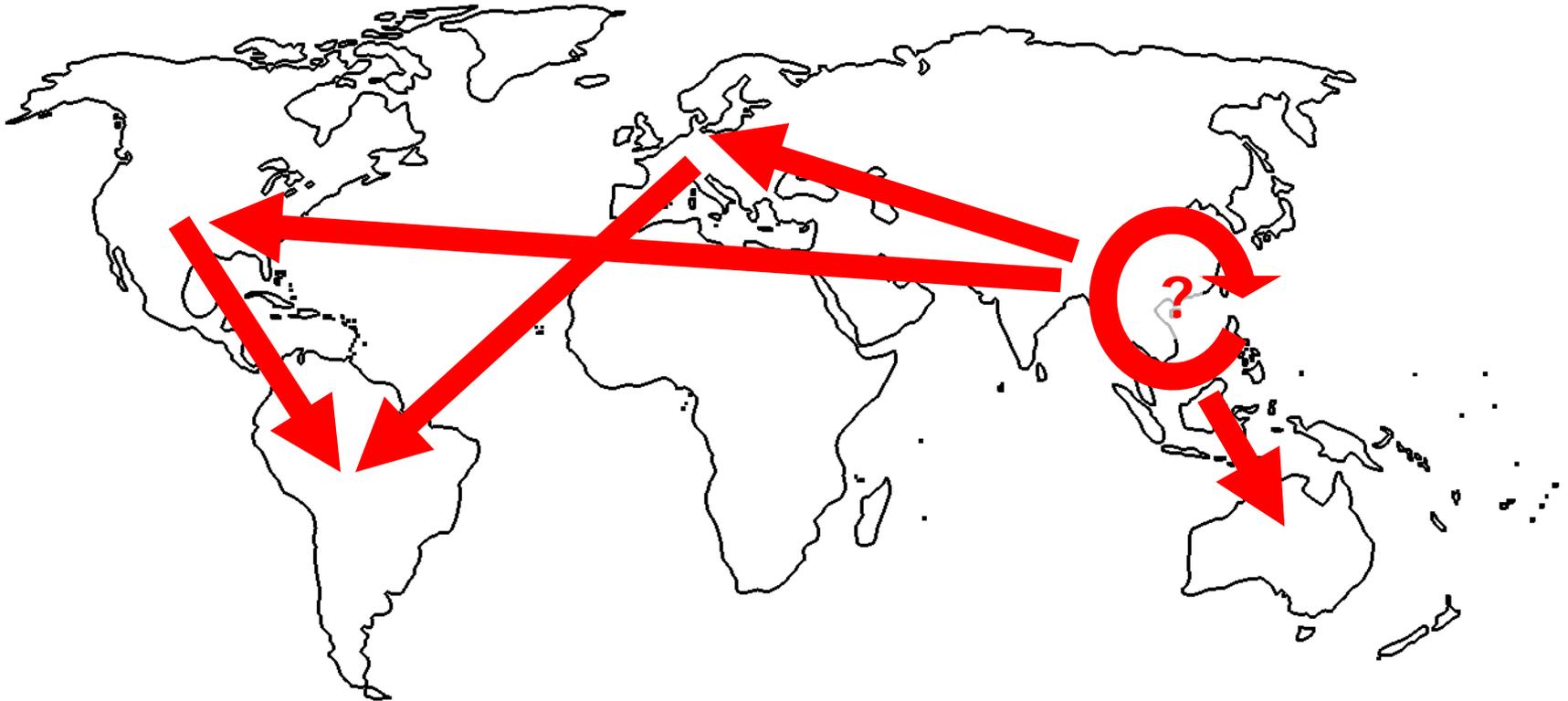


HP2020 Target: 30 cases

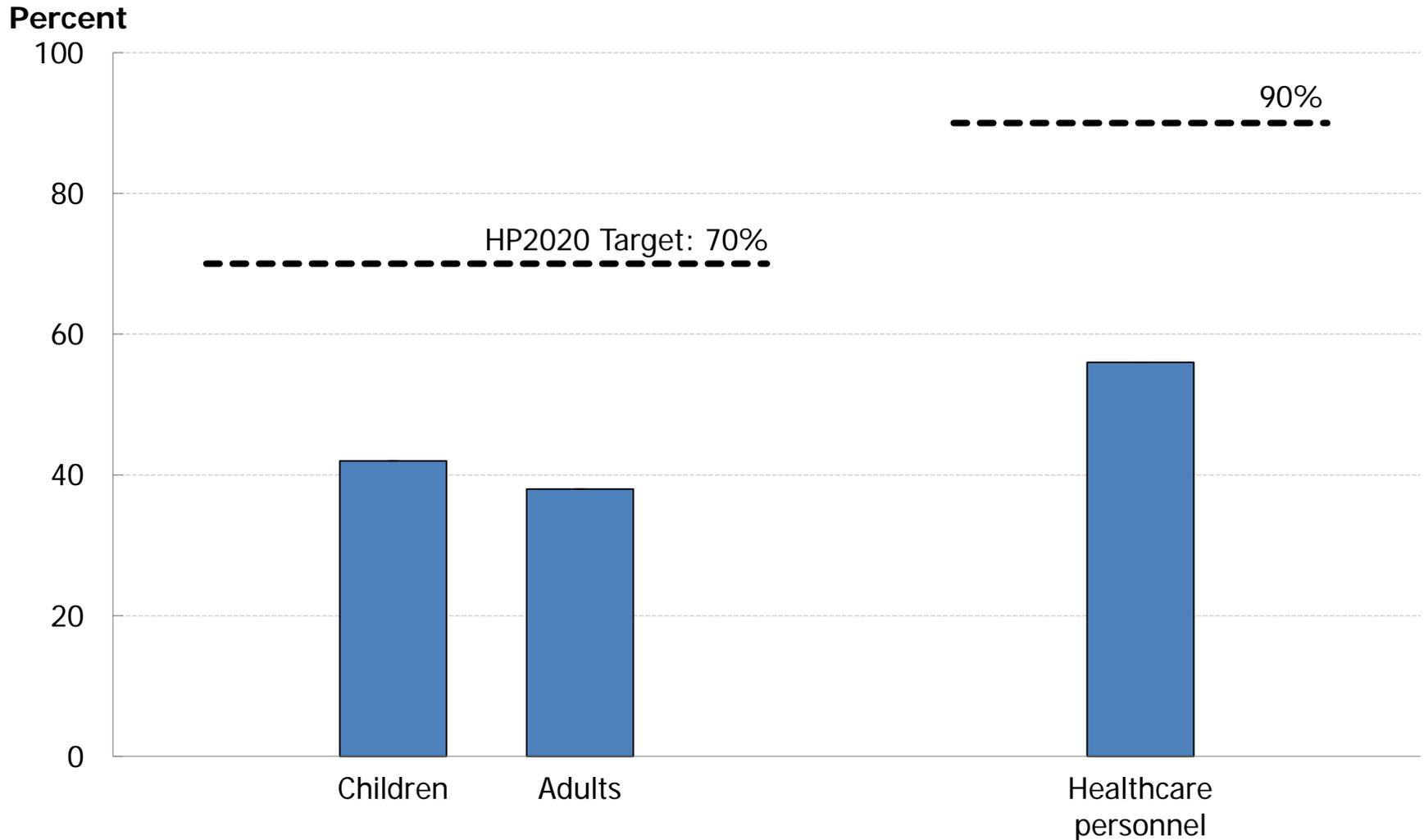
Obj. IID-1.4
Decrease desired

SOURCE: National Notifiable Disease Surveillance System (NNDSS), CDC/NCIRD.

Global Circulation of Seasonal Influenza



Flu Vaccine Coverage 2010-2011 Influenza Season



NOTES: Data are for children age 6 months to 17 years and adults age 18 and older. Data are for the total US population.

SOURCE: National Health Interview Survey (NHIS), CDC/NCHS.

Obj. IID-12.11 through 12.13
Increase desired



Data Presentation Outline

- Vaccination coverage
- Vaccine-preventable diseases
- **Global Health**
- Tuberculosis (TB): U.S. and abroad



Global Health

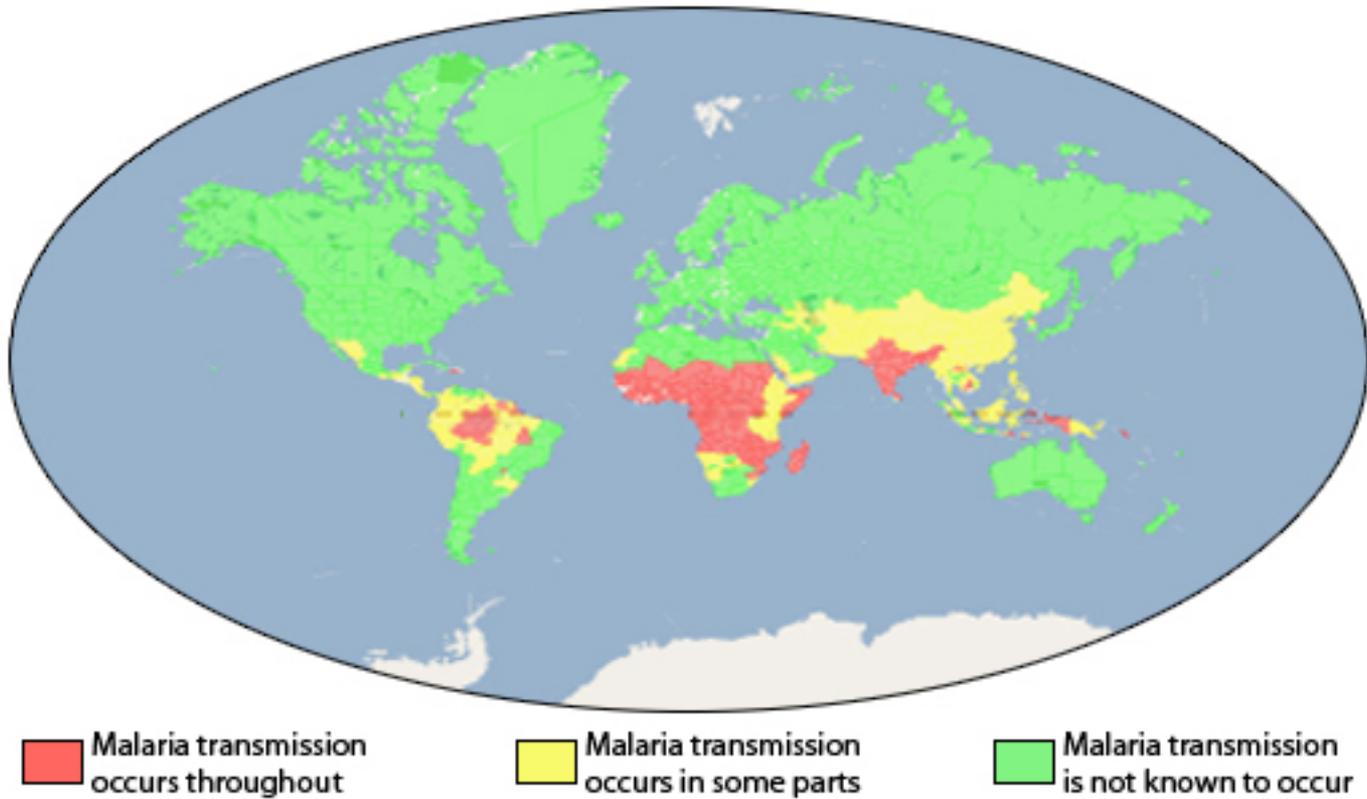
- Plays an increasingly crucial role in global security and the security of the U.S. population.
- Rapid identification and control of emerging infectious diseases helps:
 - Promote health abroad
 - Prevent the international spread of disease
 - Protect the health of the U.S. population



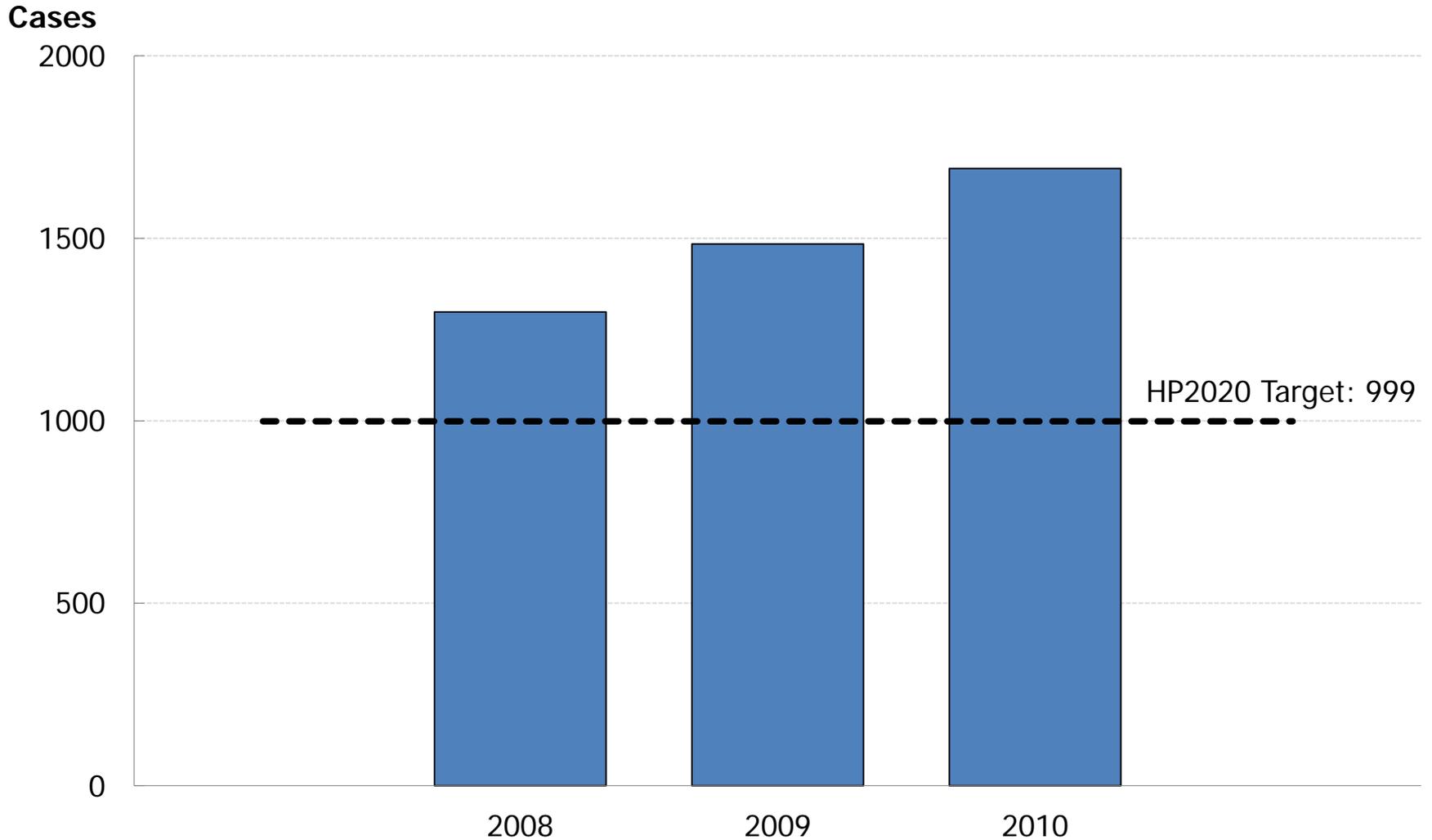
Global Public Health Impact: Malaria

- A leading cause of death and disease in many developing countries.
- About 3.3 billion people live in areas at risk of malaria transmission in 106 countries and territories.
- In 2010 malaria caused 216 million clinical episodes and 655,000 deaths worldwide.
- Direct costs are estimated to be at least \$12 billion per year (in US dollars).

Malaria Transmission Worldwide



Malaria in the U.S., 2008-2010



NOTE: Data for this objective are an aggregate of cases reported to CDC by the data systems.

SOURCE: National Notifiable Diseases Surveillance System (NNDSS), CDC/PHSPO; National Malaria Surveillance System (NMSS), CDC/CGH

Obj. GH-1
Decrease desired



Data Presentation Outline

- Vaccination coverage
- Vaccine-preventable diseases
- Global Health
- Tuberculosis (TB): U.S. and abroad

Global Leading Causes of Death, 2008

	Global	Low-Income Countries	Middle-Income Countries	High-Income Countries
1	Heart disease	Pneumonia	Heart disease	Heart disease
2	Stroke	Diarrheal diseases	Stroke	Stroke
3	Pneumonia	HIV/AIDS	Chronic lung disease	Lung cancer
4	Chronic lung disease	Heart disease	Pneumonia	Alzheimer's disease
5	Diarrheal diseases	Malaria	Diarrheal diseases	Pneumonia
6	HIV/AIDS	Stroke	HIV/AIDS	Chronic lung disease
7	Lung cancer	Tuberculosis	Road traffic accidents	Colon cancer
8	Tuberculosis	Premature birth	Tuberculosis	Diabetes
9	Diabetes	Birth trauma	Diabetes	Heart failure
10	Road traffic accidents	Neonatal infections	Heart failure	Breast cancer



Global TB Burden

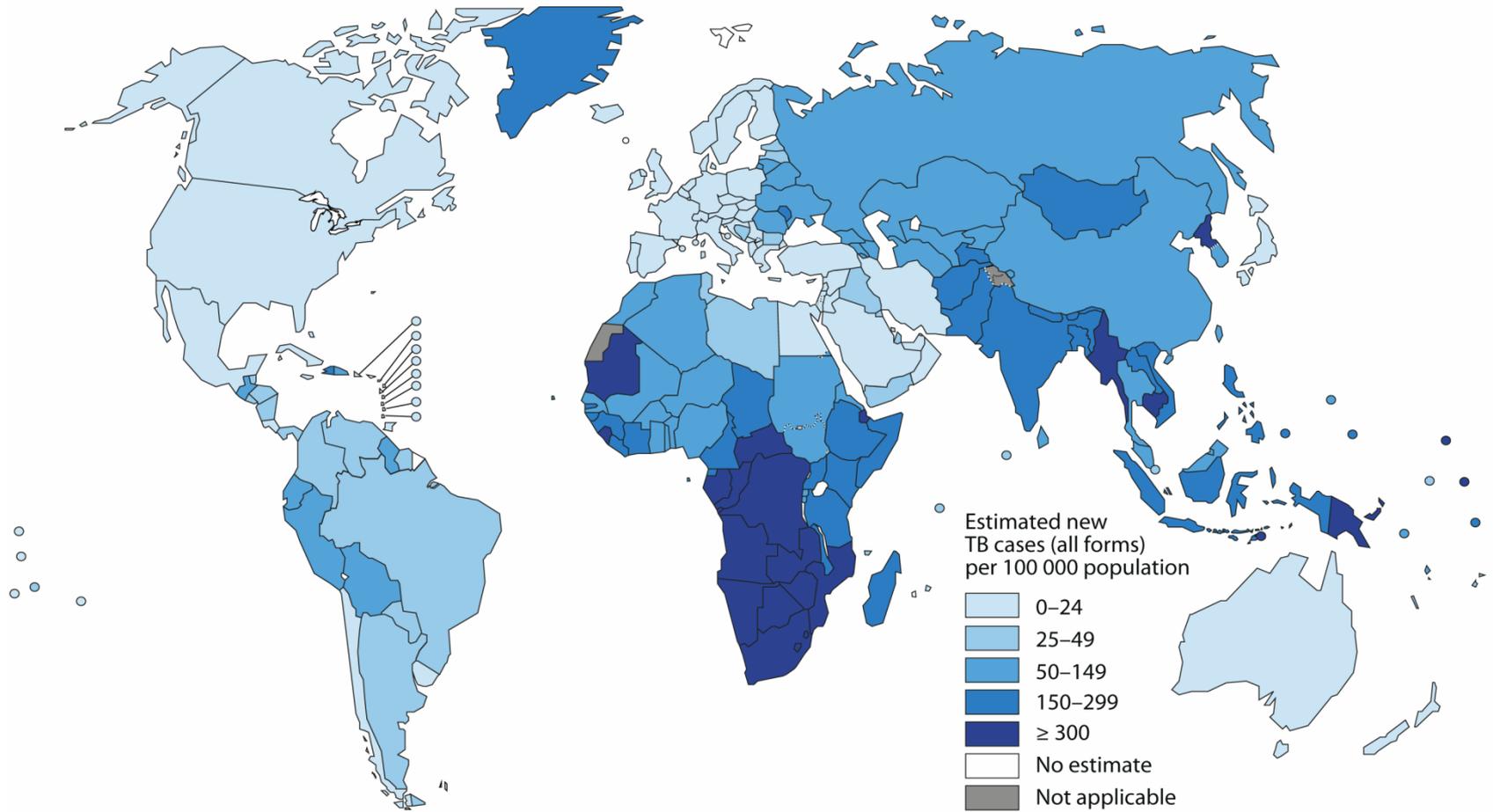
- **Progress in reducing TB globally**
 - New cases decreased by 2.2% between 2010 and 2011.
 - Mortality decreased by 41% between 1990 and 2011

- **Global burden of TB remains high**
 - In 2011
 - ❖ 8.7 million people fell ill with TB (1.1 million cases among people with HIV)
 - ❖ 1.4 million deaths (430,000 among people with HIV)
 - ❖ 10 million children orphaned by TB
 - ❖ 500,000 cases of multi-drug resistant TB

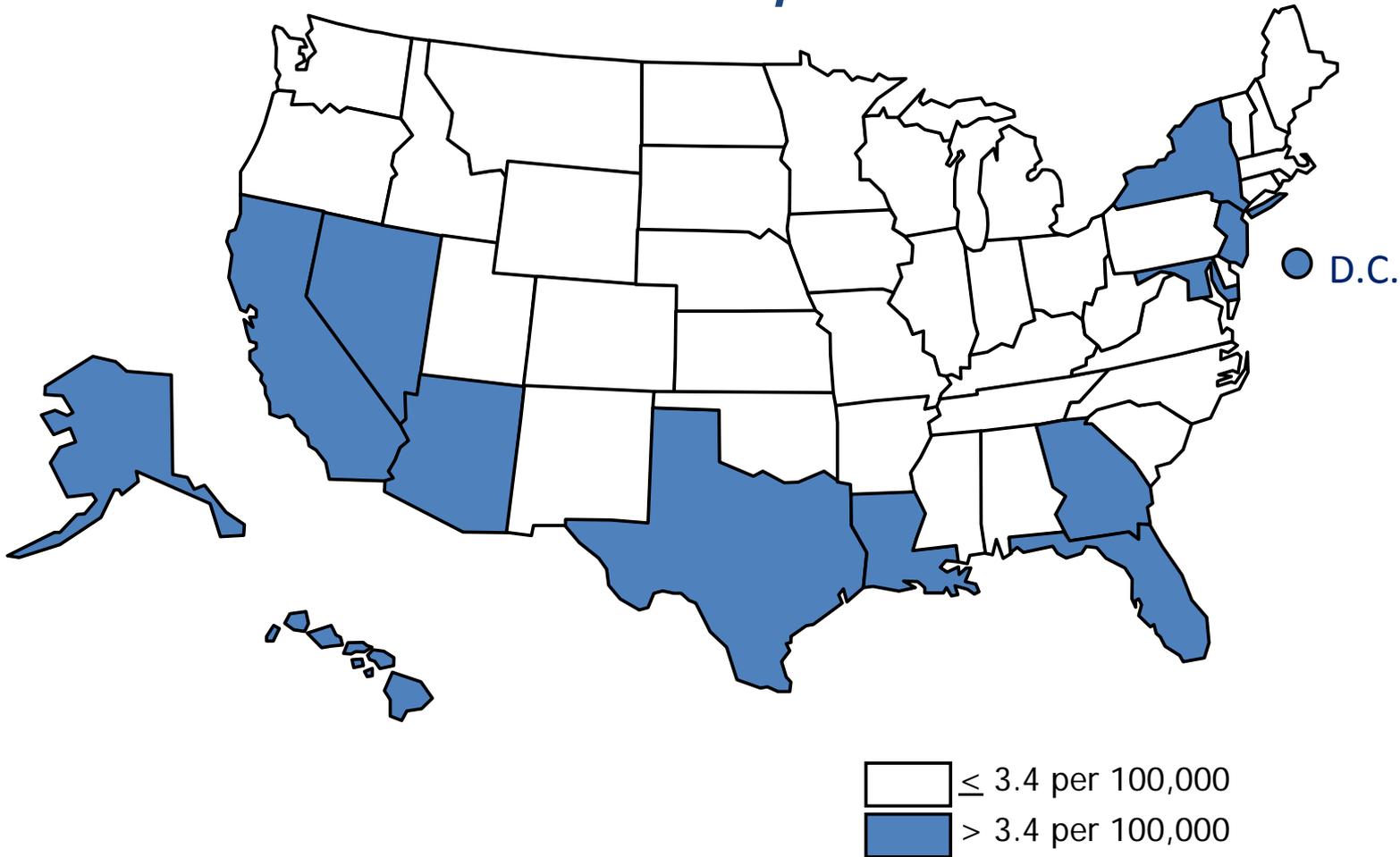
- **Leading cause of death among people with HIV**

- **Second leading cause of death from a single infectious agent**

New TB Cases per 100,000: Global, 2011



New TB Cases per 100,000: U.S., 2011

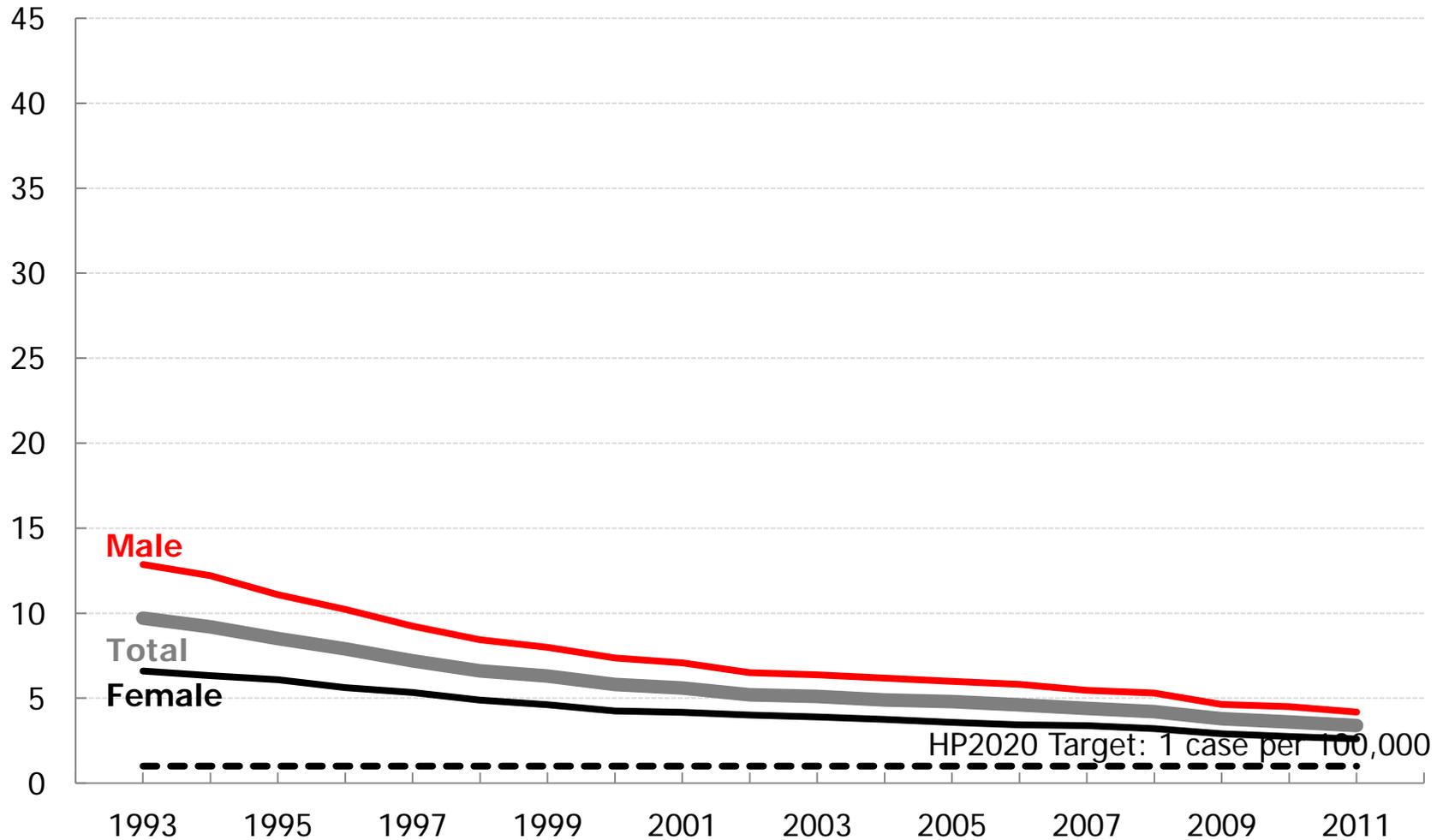


NOTE: The national average in 2011 was 3.4 cases per 100,000.

SOURCE: National Tuberculosis Surveillance System Highlights From 2011, CDC/NCHHSTP.

New TB Cases per 100,000: U.S., 1993-2011

Cases per 100,000



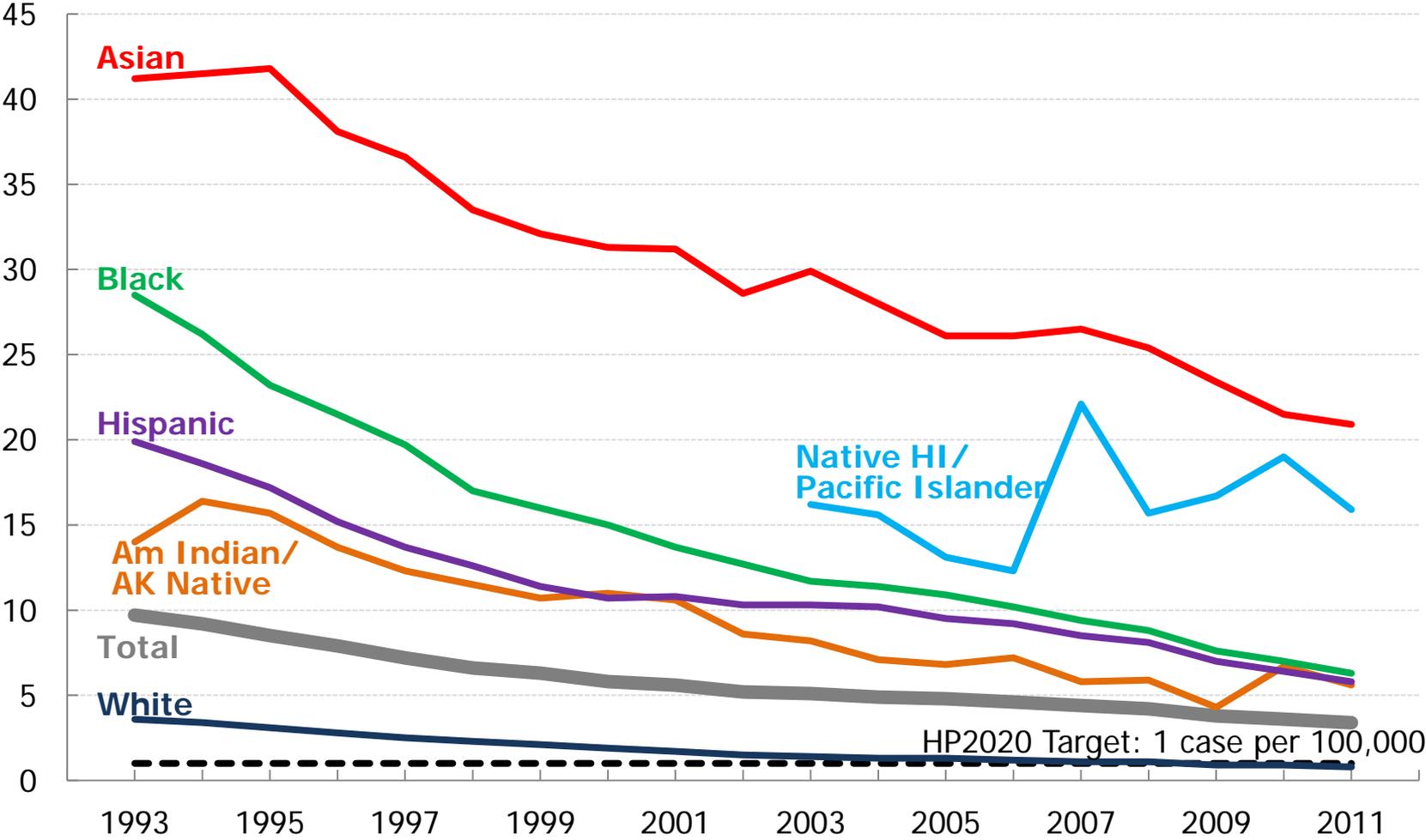
HP2020 Target: 1 case per 100,000

Obj. IID-29
Decrease desired

SOURCE: National Tuberculosis Surveillance System (NTSS), CDC/NCHHSTP.

New TB Cases per 100,000: U.S., 1993-2011

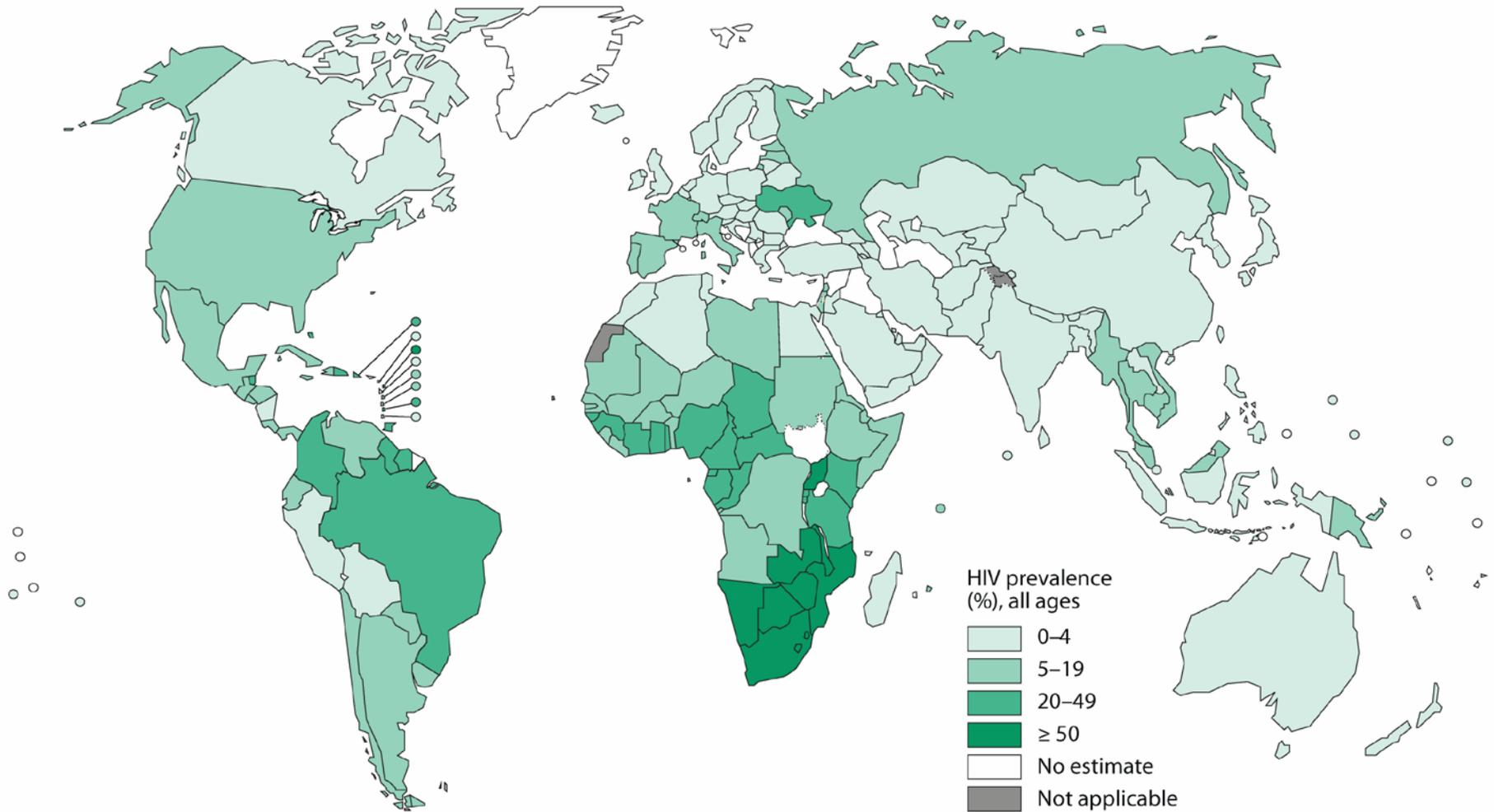
Cases per 100,000



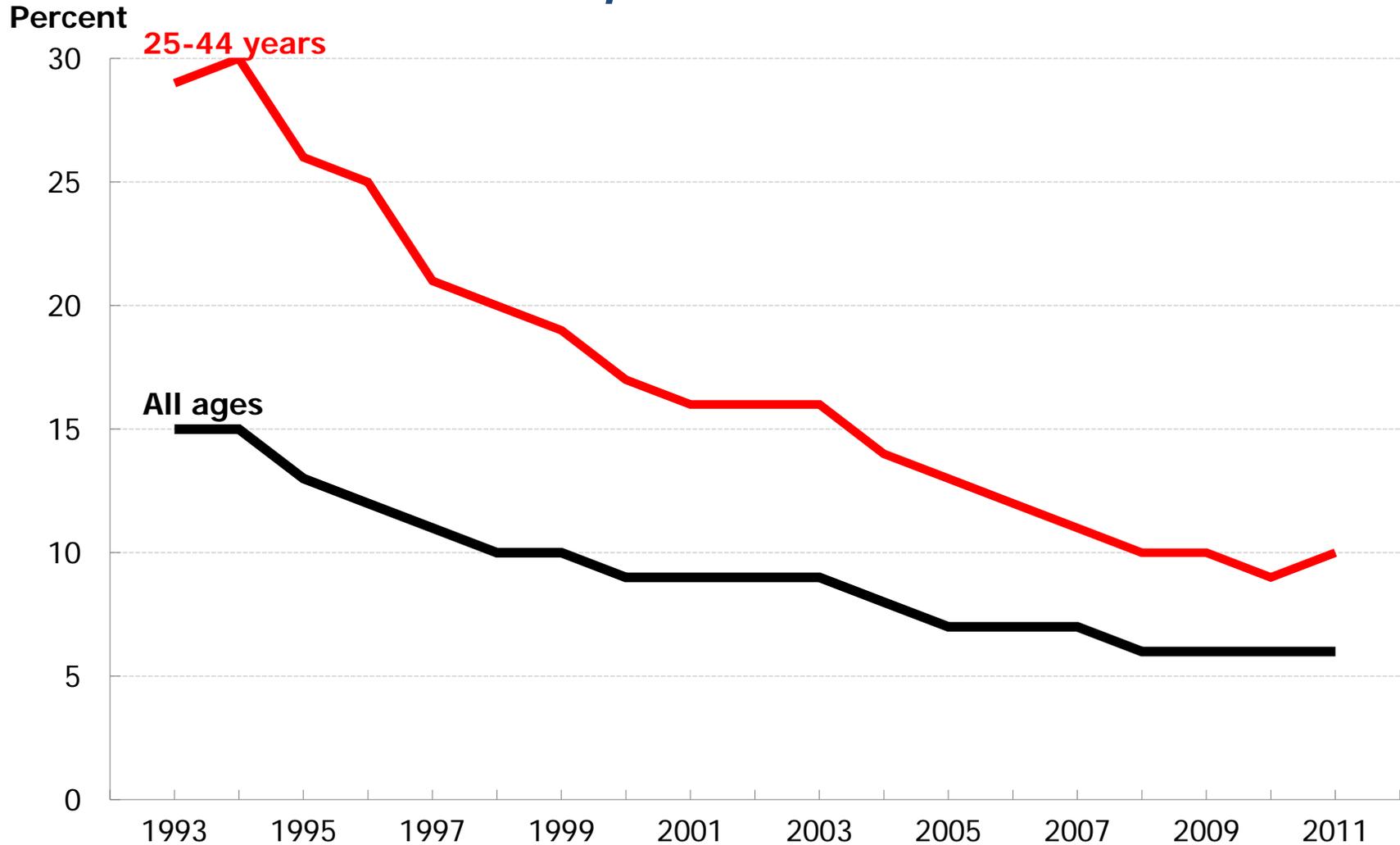
Obj. IID-29
Decrease desired

SOURCE: National Tuberculosis Surveillance System (NTSS), CDC/NCHHSTP.

HIV Co-infection Among New TB Cases: Global, 2011

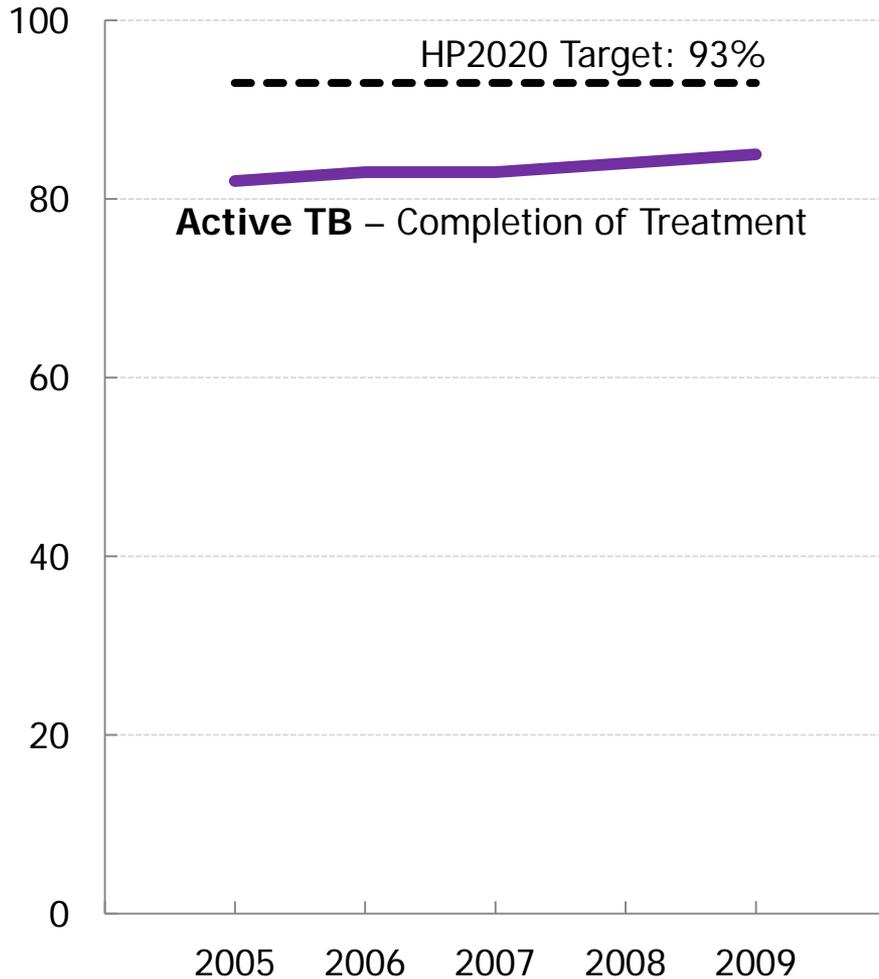


HIV Co-infection Among TB Patients: U.S., 1993-2011



Completion of Treatment: Active and Latent TB U.S., 2005-2010

Percent



NOTE: LTBI, Latent Tuberculosis Infection

SOURCE: National Tuberculosis Indicators Project, CDC/NCHHSTP.

Obj. IID-30 and 31
Increase desired



Key Takeaways

- Overall, U.S. TB rates are decreasing.
- However, disparities persist for racial and ethnic minorities and those born outside the U.S.
- TB remains an urgent public health problem in Asia and Africa.
- Health issues abroad – TB, flu, and measles – can directly impact the health of the U.S.



**Healthy People 2020
Progress Review slides
can be accessed on the web at:**

www.cdc.gov/nchs/healthy_people.htm



Presentation Outline

- Domestic Tuberculosis Overview
 - Program details, then and now
 - Data
 - Projections
- Global Tuberculosis Overview
 - Return on investment in global TB control
 - CDC partners & resources
 - Paradox of programmatic success
- Challenges and Successes

TB Elimination Overview

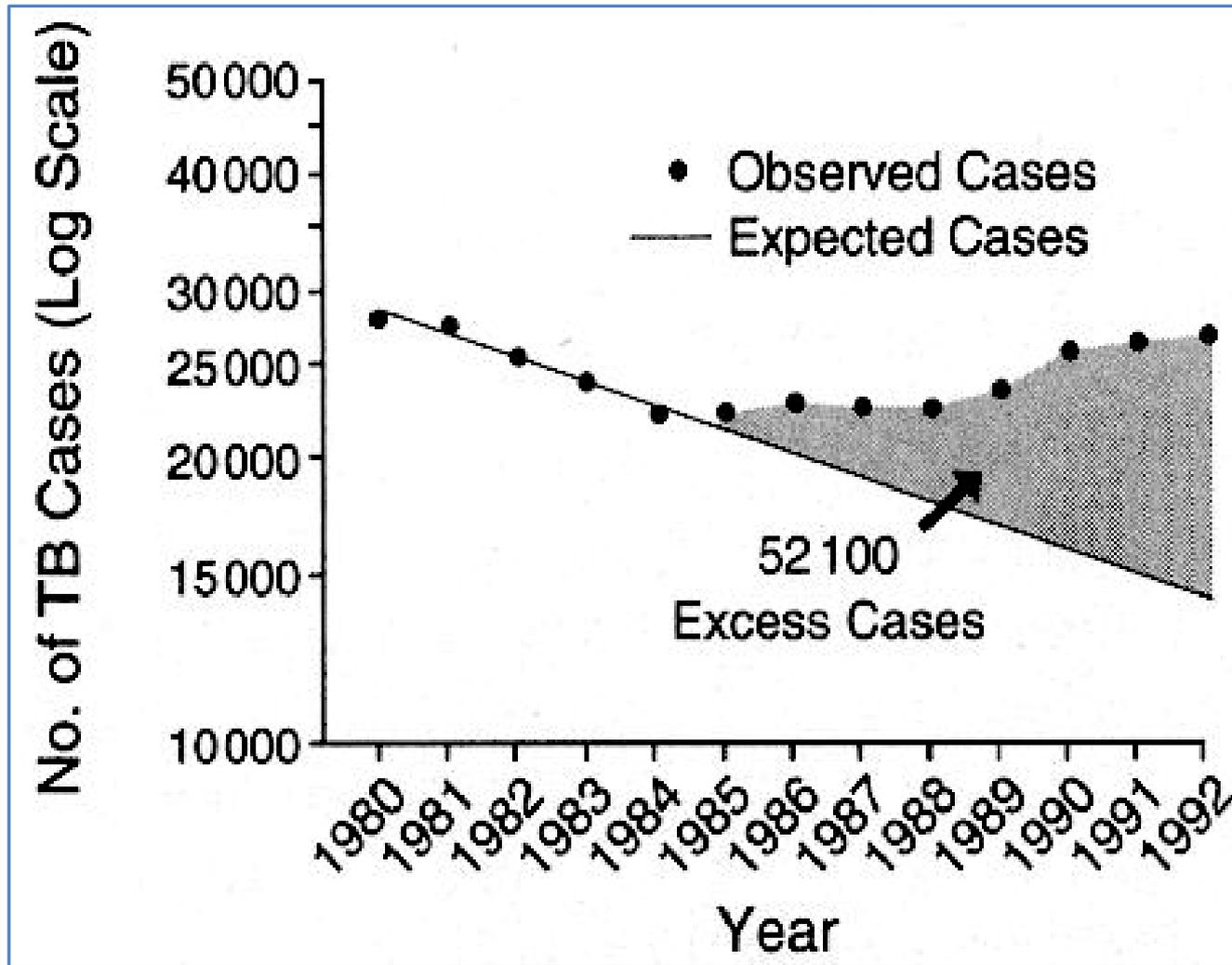
PROGRAM

- 50 states, 10 big cities, and 8 territories
 - FY 2012 \$140 million
- 22 countries, in partnership with USAID, WHO, and others
 - FY 2012 \$8.6 million from USAID; \$6m from CDC
- 2 consortia for program-relevant research (TBTC, TBESC)

PRIORITIES

- Interrupt transmission
- Reduce TB in foreign-born persons
- Reduce TB in U.S. racial/ethnic minority populations.
- Reduce multidrug resistant (MDR) & extensively drug resistant (XDR) TB
- Reduce HIV-associated TB

Excess TB Cases, U.S. 1985-1992



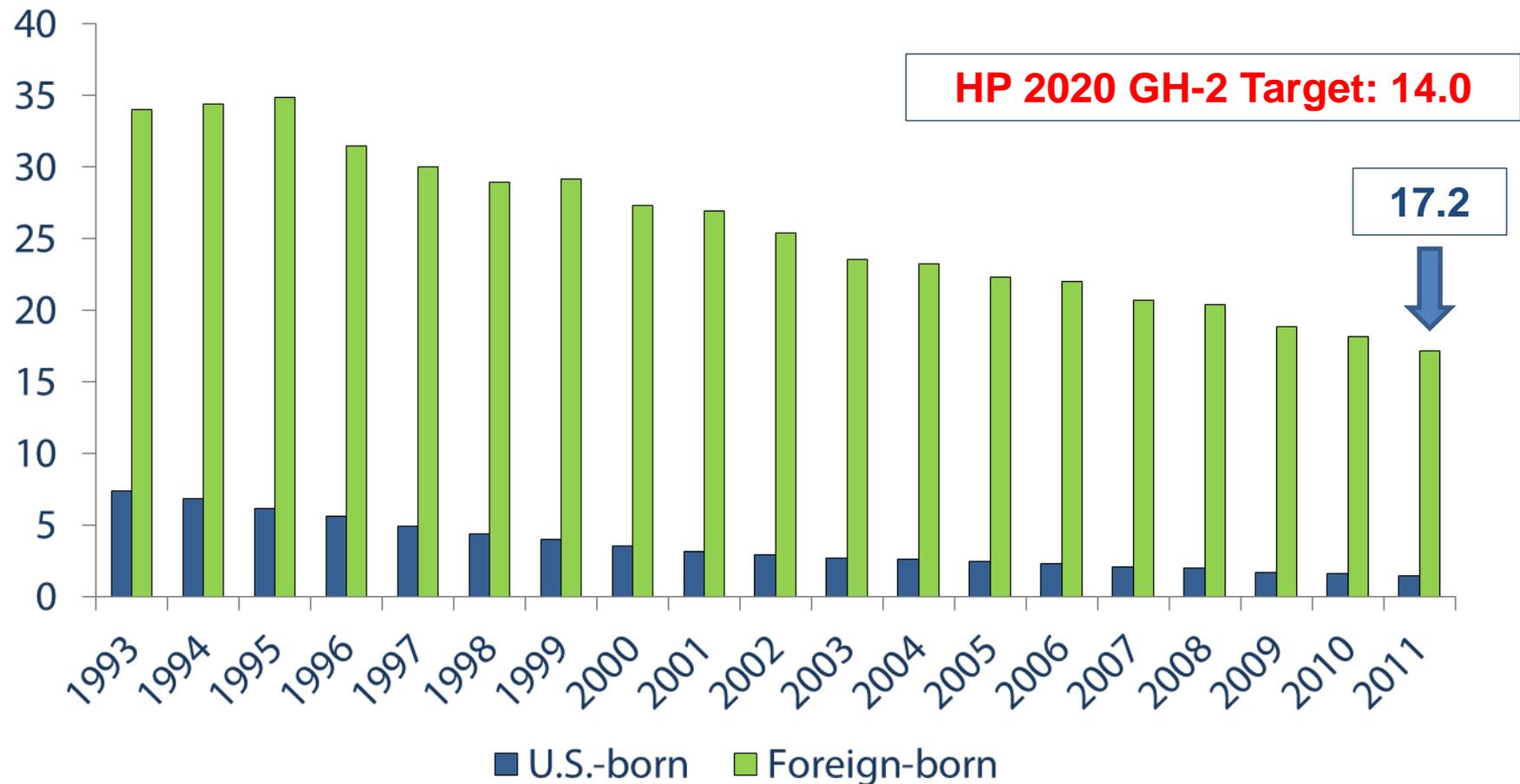
Conditions

- Weakened infrastructure
- HIV epidemic
- Immigration
- Institutional transmission
- MDR-TB



TB Case Rates in U.S.-born vs. Foreign-born Persons United States, 1993–2011*

Cases per 100,000

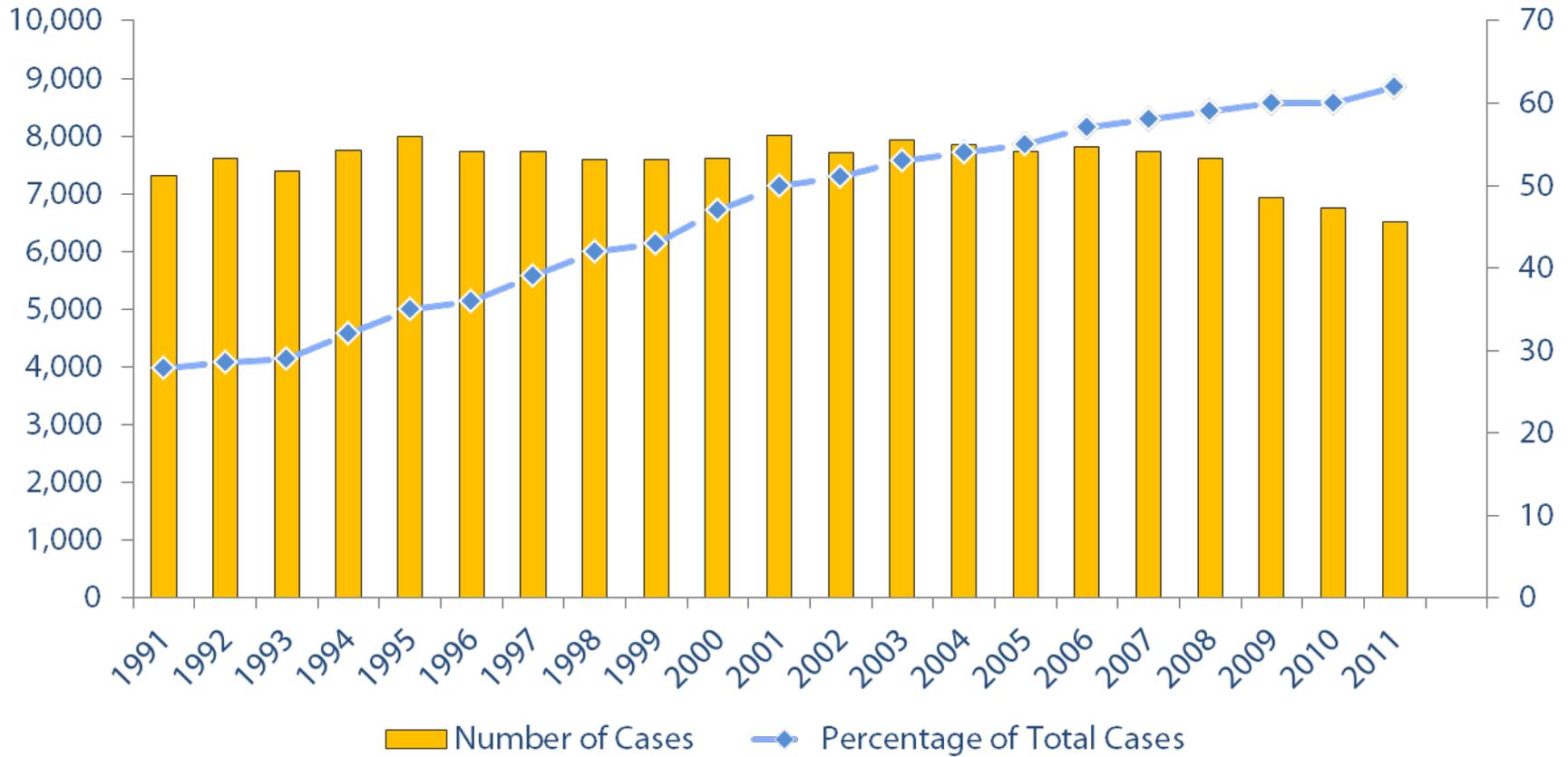




Trends in TB Cases in Foreign-born Persons United States, 1991 – 2011

No. of Cases

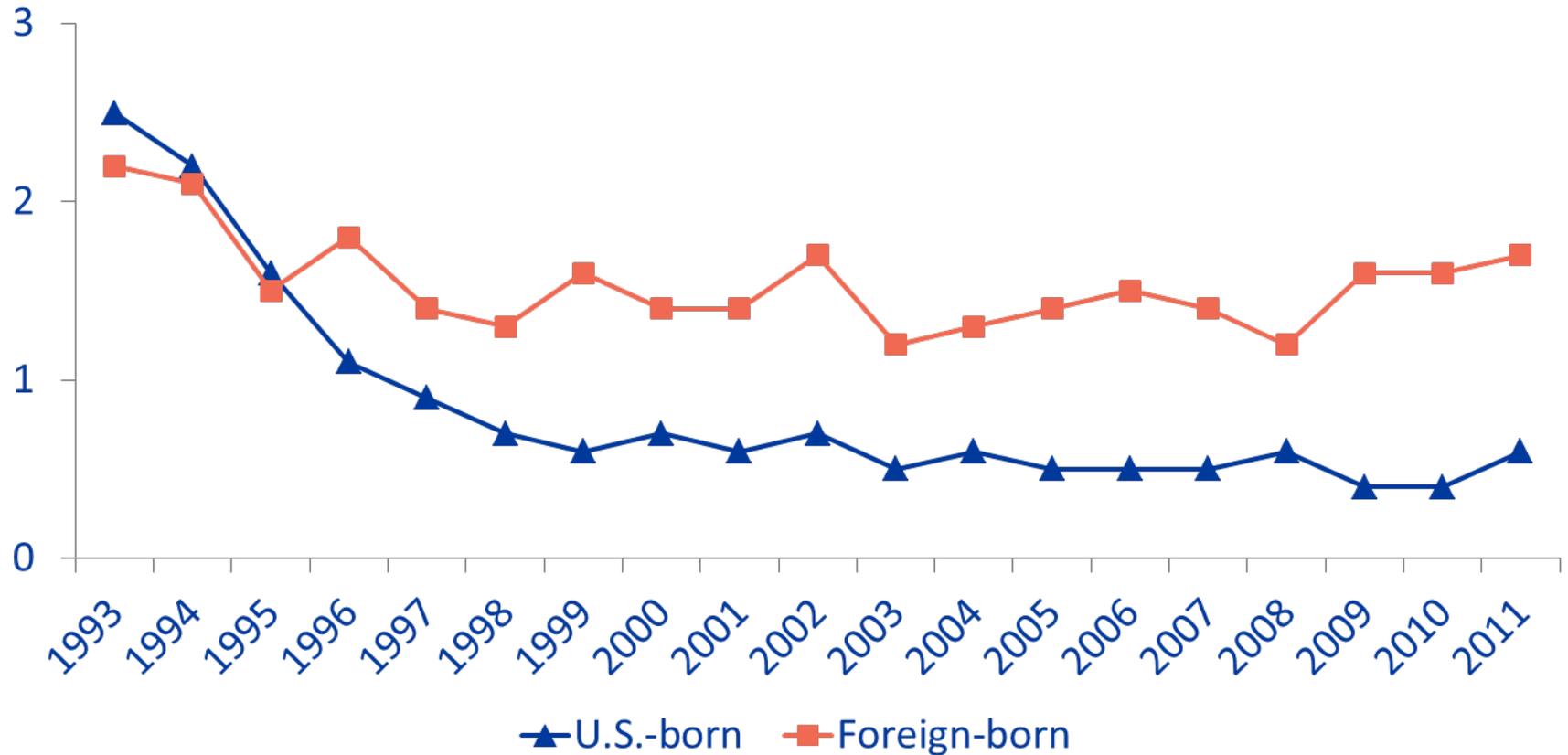
Percentage





Primary MDR TB in U.S.-born vs. Foreign-born Persons United States, 1993 – 2011

% Resistant

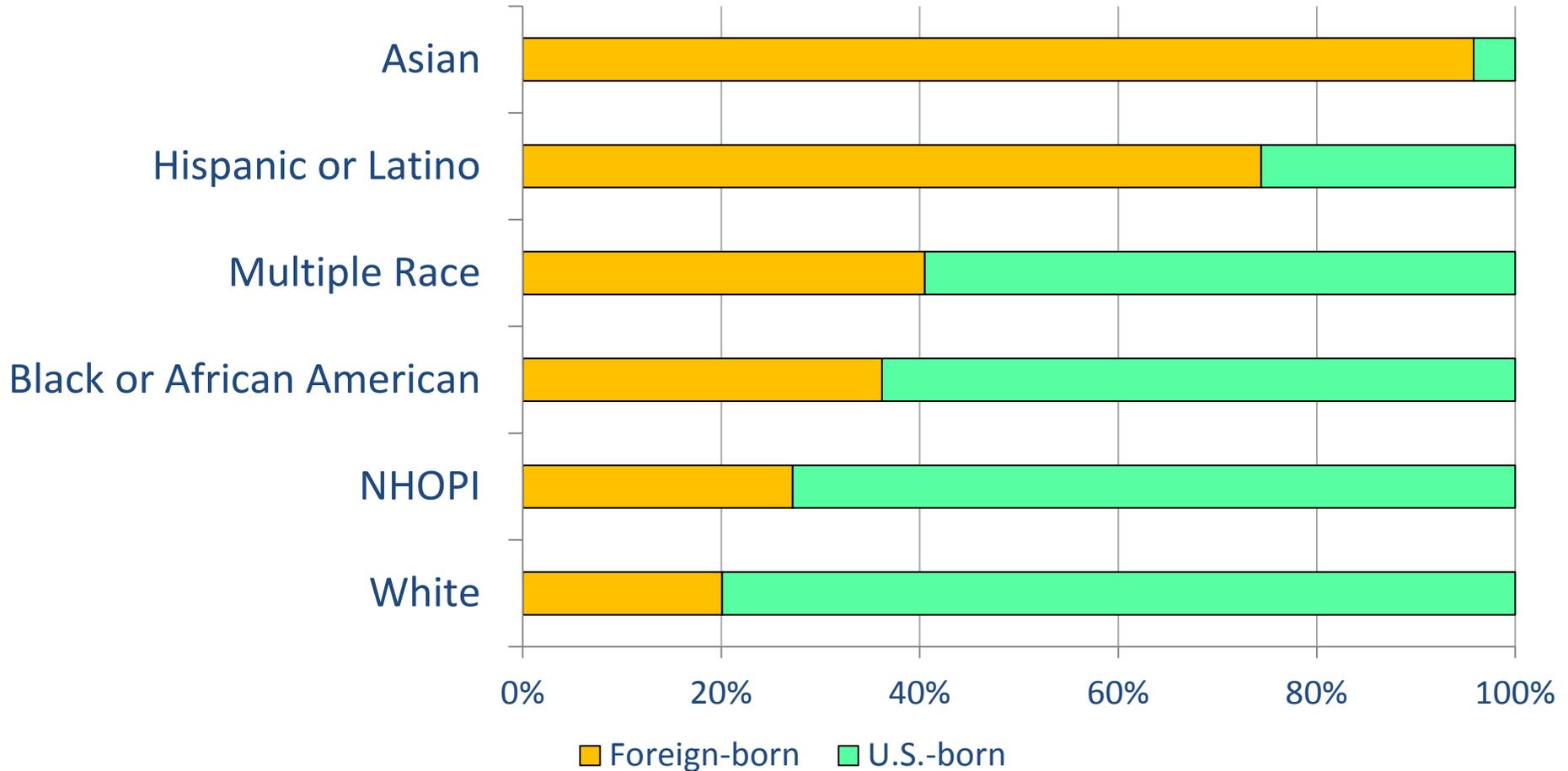


Based on initial isolates from persons with no prior history of TB. MDR TB defined as resistance to at least isoniazid and rifampin.

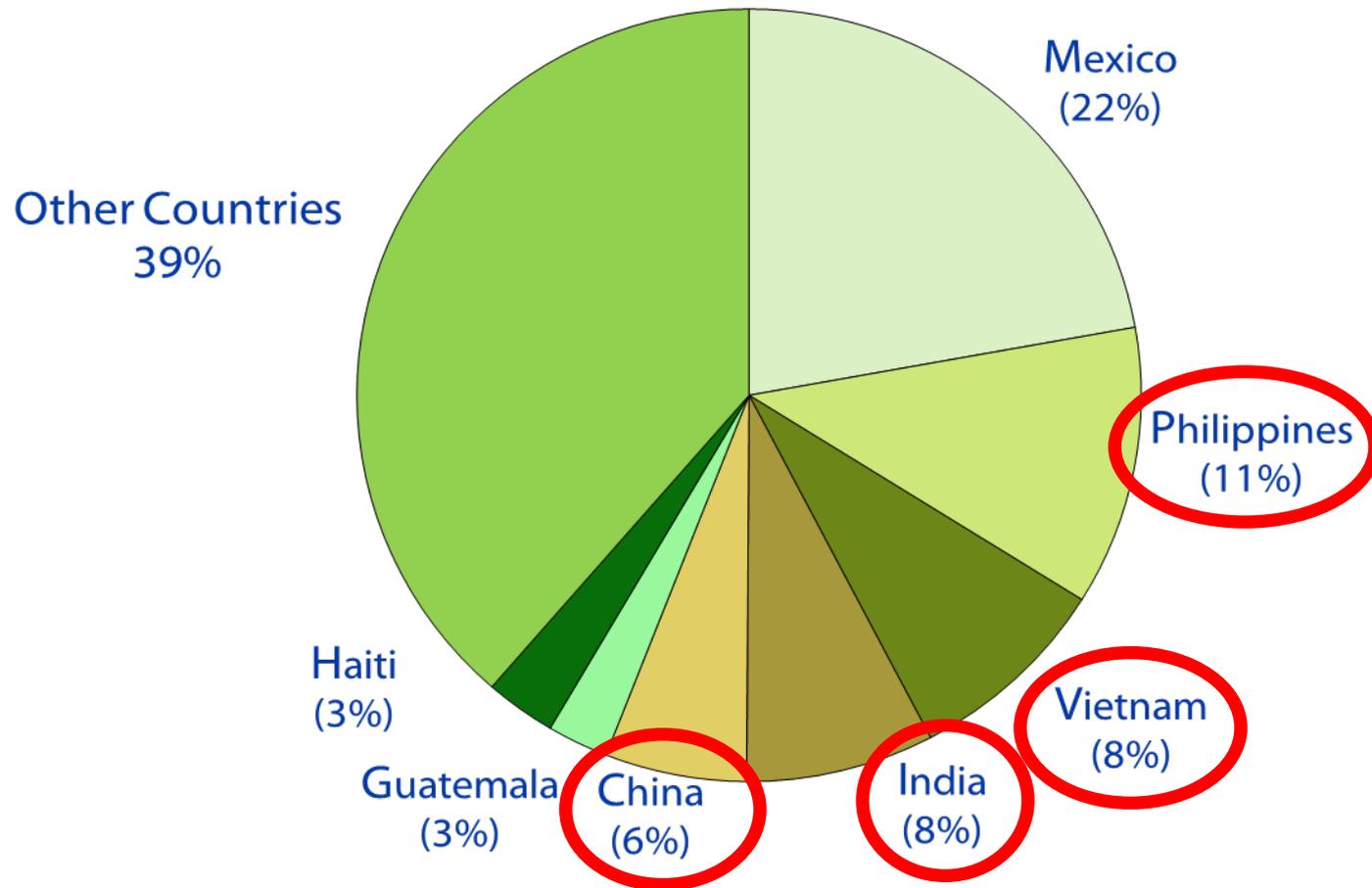
National Tuberculosis Surveillance System, data updated as of June 25, 2012.



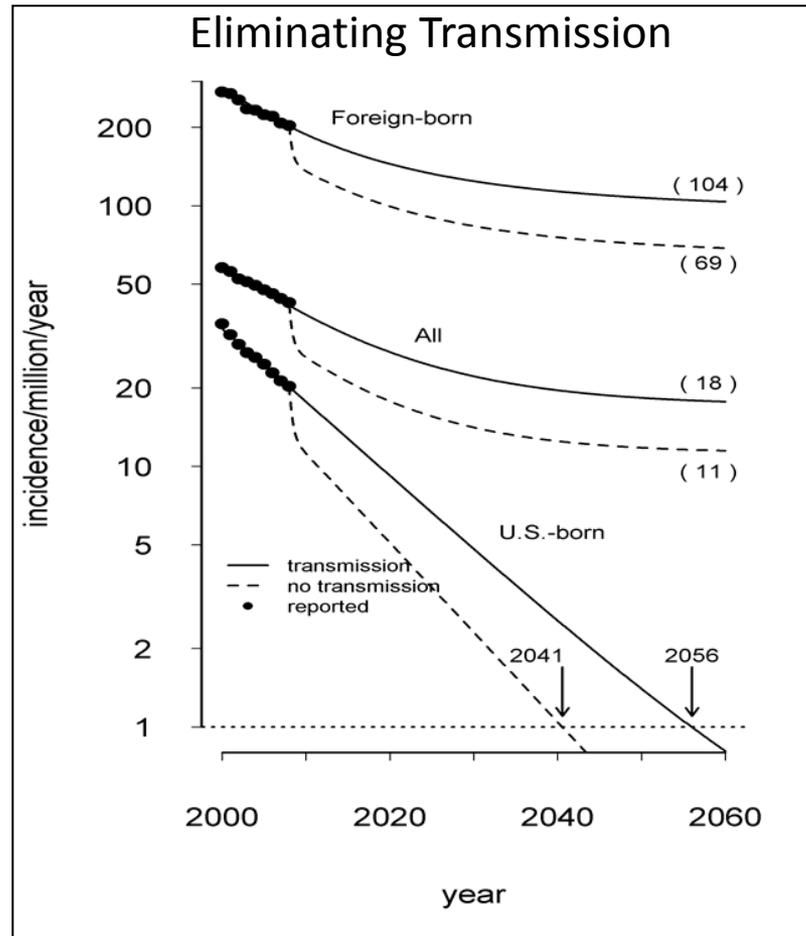
Percent of TB Cases by Race/Ethnicity and Origin of Birth, United States, 2011



Countries of Birth of Foreign-born Persons Reported with TB, United States, 2011

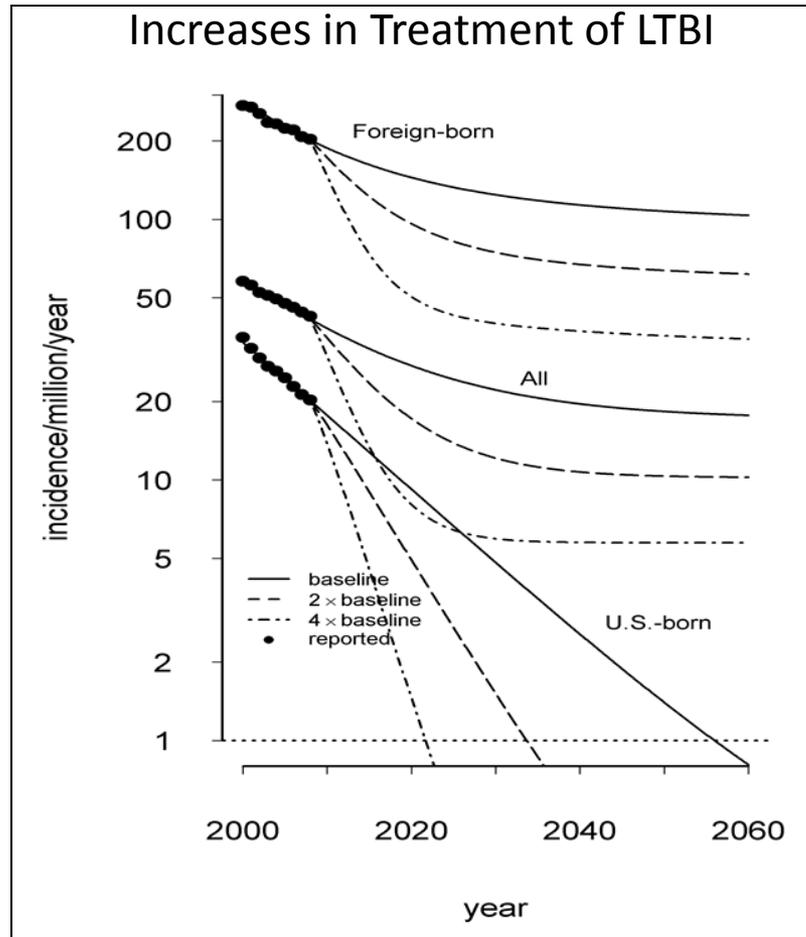


TB Incidence Projections



- Cutting transmission does not block progression to disease
- Latent TB infection (LTBI) continues to be imported into the foreign-born population

TB Incidence Projections



- A substantial proportion of foreign-born individuals arriving in the USA each year are latently infected
- Targeting LTBI allows focus on individuals who are at risk of reactivation

Investment Upfront Leads to Big Dividends for TB Control

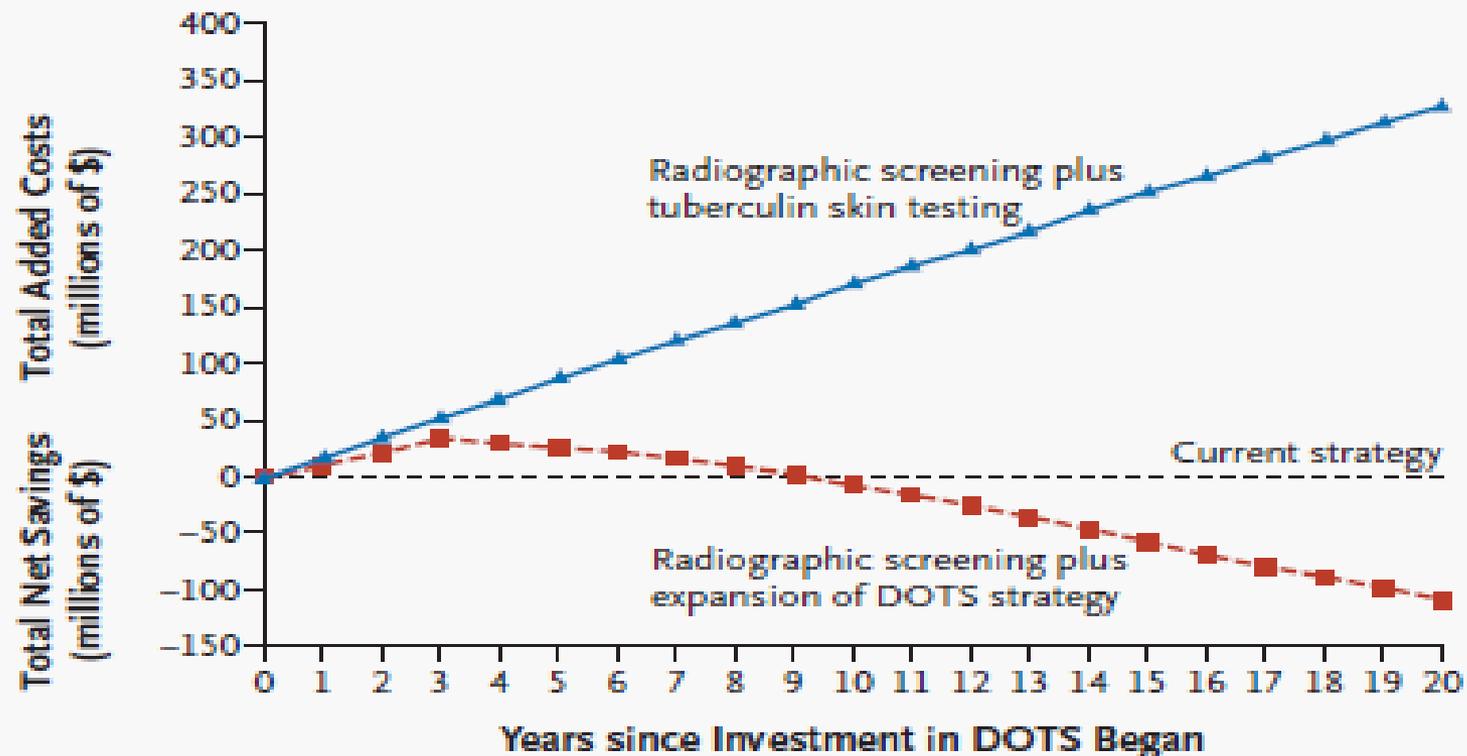


Figure 1. Net Savings or Added Costs of Implementing a Strategy of Radiographic Screening plus Either Expansion of the DOTS Program or Tuberculin Skin Testing over a 20-Year Period among Migrants from Mexico to the United States.

USG TB Program: A Global Collaboration



Partner Ministries of Health



USG Tier One Countries



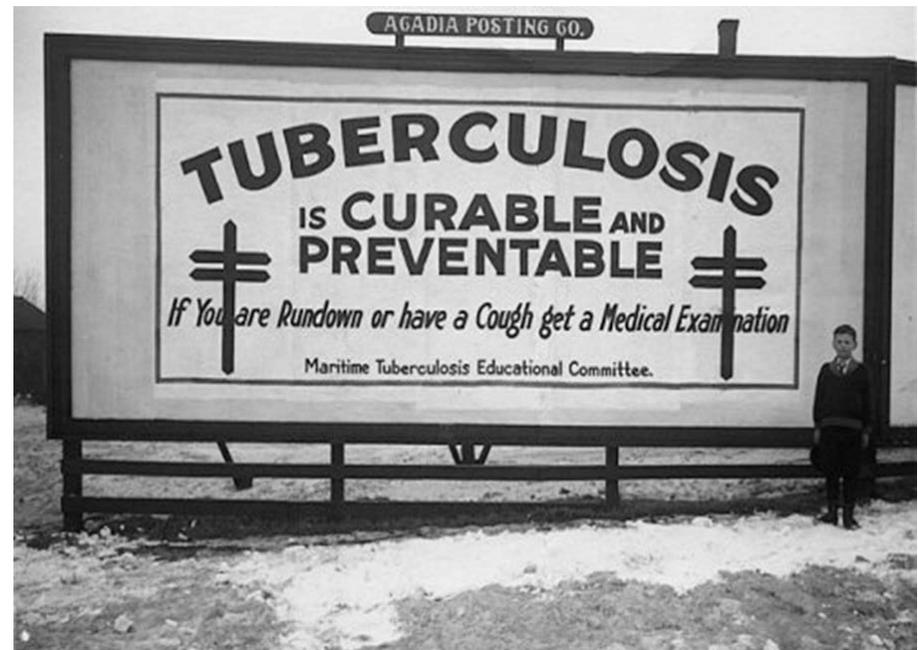


Global TB Work and Coordination at CDC

Strategic Approach	Priority Areas	Technical Resources
Provide technical support and strengthen in-country capacity	Strengthen surveillance and laboratory systems	Division of TB Elimination
Build evidence base for implementation of effective TB control and prevention strategies	Conduct programmatically relevant research	Division of Global HIV/AIDS
Translate research into practice	Strengthen capacity to address TB/HIV, drug-resistant TB, infection control, and pediatric TB	Division of Global Disease Detection and Emergency Response
		Division of Global Migration and Quarantine

Low TB Incidence Paradox

- Misperception of need
- Loss of medical proficiency and expertise
- Outbreaks





Key Takeaways

CHALLENGES

- Funding gaps in supporting scale-up
- TB among foreign-born persons
- Rise of multidrug-resistant TB
- HIV-associated TB
- Complacency in low burden settings

SUCCESSSES

- Decrease in overall counts and rates
- Building international partnerships to meet domestic needs
- Recent research developments and opportunities for scale-up



Healthy People 2020 Global Health Objectives

- GH-1: Malaria in the United States
- GH-2: Tuberculosis in foreign-born persons
- GH-3: Global disease detection centers worldwide
- GH-4: Global disease detection training for public health professionals
- GH-5: Global disease detection diagnostic testing capacity



CDC GLOBAL HEALTH STRATEGY

- Goal 1: Health Impact: Improve the Health and Well-being of People around the World
- Goal 2: Health Security: Improve Capabilities to Prepare and Respond to Infectious Diseases, Other Emerging Health Threats, and Public
- Goal 3: Health Capacity: Build Country Public Health Capacity Health Emergencies
- Goal 4: Organizational Capacity: Maximize Potential of CDC's Global Programs to Achieve Impact

<http://www.cdc.gov/globalhealth/strategy/pdf/CDC-GlobalHealthStrategy.pdf>



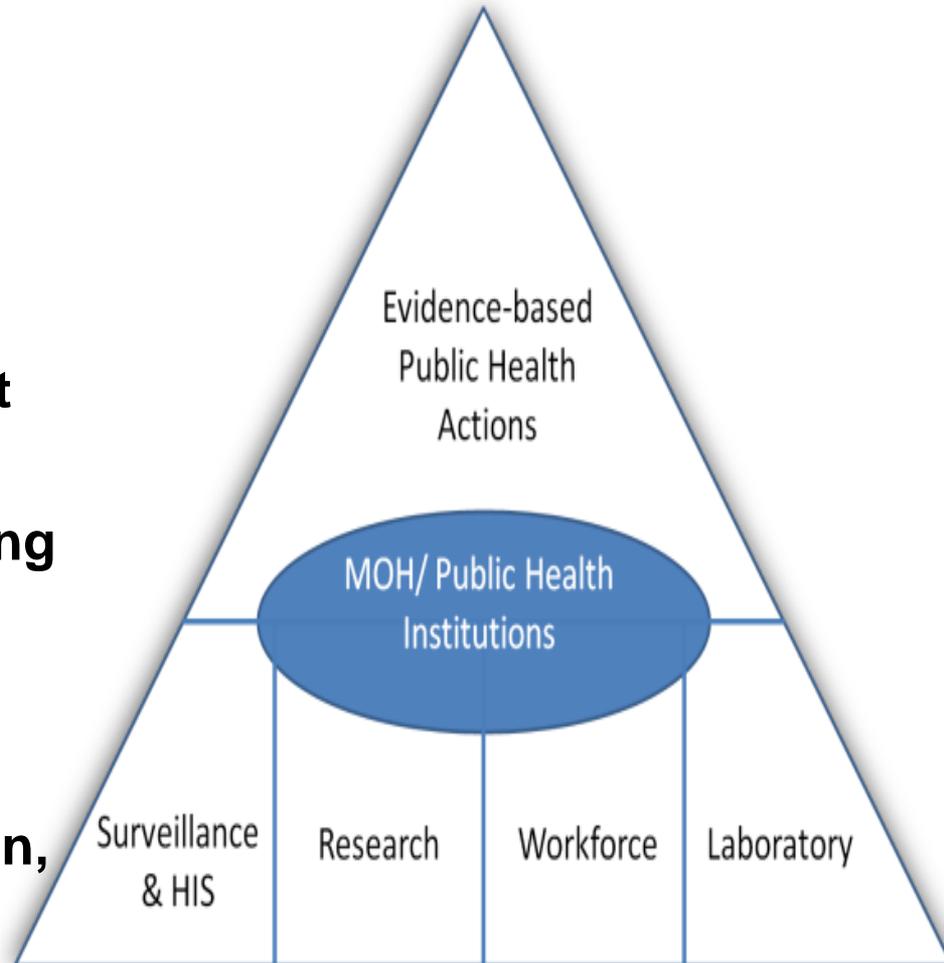
Global Health Security

- Global health risks are increasing
- Weak surveillance in any country is a risk to all
- Strengthening Ministries of Health capabilities is critical
- Supporting implementation of International Health Regulations will help to manage serious health threats



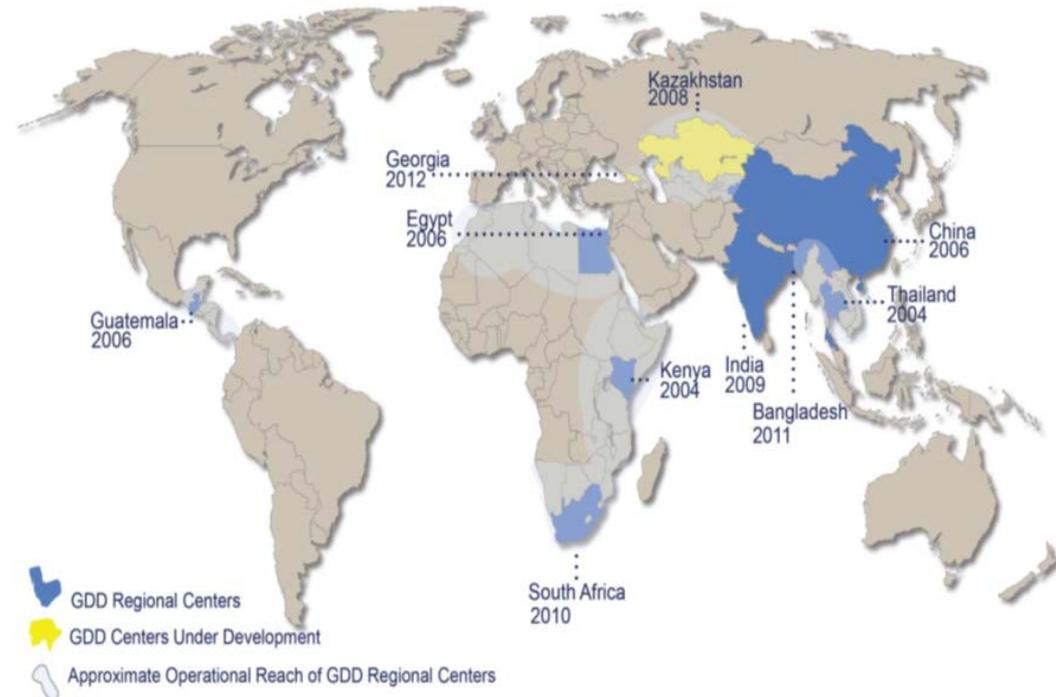
Framework for Public Health System Strengthening

- **Surveillance and health information systems**
- **Research**
- **Workforce development**
- **Laboratory strengthening**
- **Health infrastructure**
- **Program implementation, emergency response**



Global Disease Detection (GDD) Centers

- Located in each of the WHO regions
- Work closely with ministries of health to identify, control and combat infectious diseases



HP2020 Goal: 18 GDD Centers

Global Disease Detection Capacity and Growth



Increased Capacity

Reduced Geographic Vulnerability

GDD Centers	International Emerging Infections	Field Epidemiology and Laboratory Training	Pandemic Influenza	Risk Communication and Emergency Response	Strengthening Laboratory Capacity	One Health
Kenya (2004)	Green	Green	Green	Yellow	Green	Green
Thailand (2004)	Green	Blue	Green	White	Green	Green
China (2006)	Green	Green	Green	Green	Green	White
Egypt (2006)	Green	Green	Green	Yellow	Green	Green
Guatemala (2006)	Green	Green	Green	Yellow	Green	Green
India (2009)	Green	Green	Green	Yellow	Green	Yellow
South Africa (2010)	Green	Green	Green	Yellow	White	White
Bangladesh (2011)	Green	Green	Green	Yellow	White	Green
GDD Centers Under Development						
Kazakhstan (2008)	Green	Green	Yellow	White	Green	Yellow
Rep. of Georgia (2012)	Green	Green	White	White	White	White

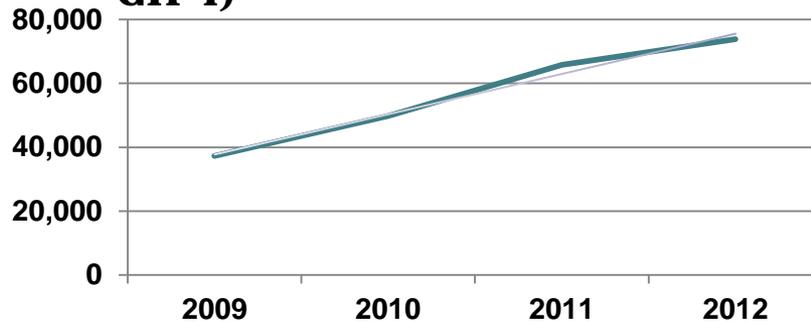
- Comprehensive and sustained activities with dedicated staff
- Comprehensive activities with dedicated staff (existing or expected within 12 mos)

- Initial activities underway
- No activities currently underway

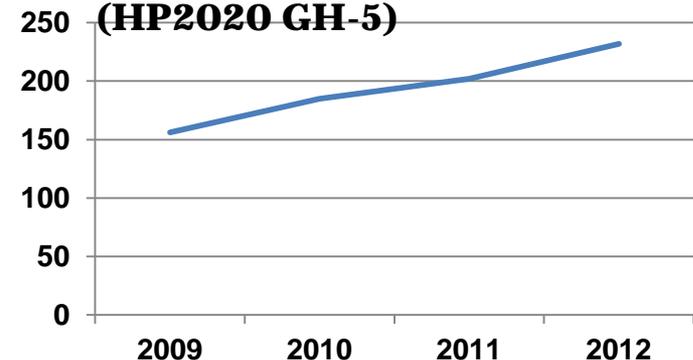
Increased Capacity through GDD Centers



Number of Public Health Professionals Trained by GDD Programs Worldwide (HP2020 GH-4)



Number of Pathogen-Specific Tests Established In-Country by GDD Centers (HP2020 GH-5)



Field Epidemiology Training Programs (FETPs)

- 2-year, full-time postgraduate programs
- Modeled after CDC's Epidemic Intelligence Service
- Since 1980, 41 FETPs trained >2,600 epidemiologists
 - Residents assigned to positions that provide epidemiologic service to MOH
 - >80% stay in-country after graduating
- Over the last six years 485 doctoral level epidemiologists have been trained in GDD Centers



Global TB Capacity-Building through FETPs

- Evaluation of national or regional tuberculosis surveillance systems
- Evaluation of TB control programs
- Investigation of TB outbreaks
- Conduct studies of clinical management and TB diagnosis



Global TB Capacity-Building Through GDD Centers

- TB projects are carried out in several GDD Centers, including those under development
- TB-related prevention and control activities include:
 - Surveillance
 - Case finding, reporting, and treatment
 - Outbreak response
 - Infection control
 - Laboratory diagnostics





Key Takeaways

- There is a continuing need to strengthen public health systems worldwide and assure global health security
- The challenges of TB are not unique
- Efforts to address global TB control are underway but need to be enhanced
- TB elimination in the U.S. is not possible without addressing TB among the foreign-born

U.S.-Mexico Border Region



LEGEND

- 100 km. Border Region
- International Boundary
- Sister Cities
- Tribal Area
- Office of Border Health (OBH)
- BHC Outreach Offices

<p>United States</p> <ul style="list-style-type: none"> -San Diego, CA -Tucson, AZ -Las Cruces, NM -Austin, TX 	<p>México</p> <ul style="list-style-type: none"> -Tijuana, Baja California -Nogales, Sonora -Ciudad Juárez, Chihuahua -Piedras Negras, Coahuila -Monterrey, Nuevo León -Cd. Victoria, Tamaulipas
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TB in U.S. and Mexico Border States, 2010

	Cases	Rate (per 100,000)
■ United States overall	11,171	3.6
– California	2,324	6.2*
– Texas	1,385	5.5*
– Arizona	282	4.4*
– New Mexico	50	2.4
■ Mexico overall	18,848	16.8
– Baja California	1,707	54.1*
– Tamaulipas	1,175	35.9*
– Sonora	832	31.2*
– Nuevo Leon	1,126	24.2*
– Chihuahua	719	21.1*
– Coahuila	506	18.4*

Source: CDC (US); DGE SSA (Mexico)

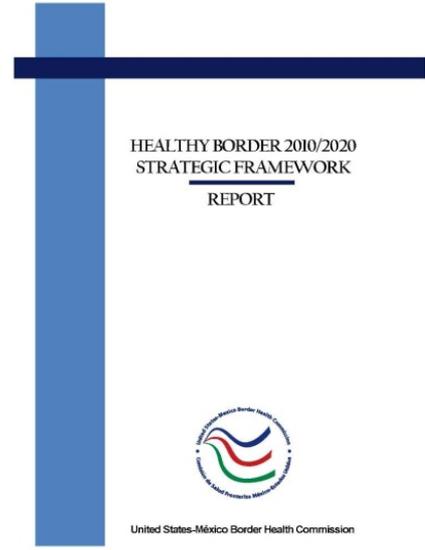
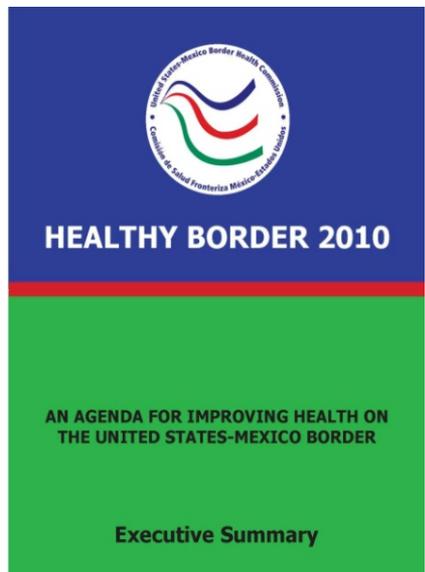
*Exceeds national rate



Challenges Addressing TB along the U.S.-Mexico Border

- **Highly mobile population**
- **Limitations in access to care**
- **Treatment issues**
- **Data issues**

U.S.-Mexico Border Health Commission





U.S.-Mexico Border Health Commission TB-Related Activities

U.S.-Mexico Border Tuberculosis Consortium

■ **Objective**

- Convene experts to address binational response to TB issues

■ **Partners**

- U.S. Federal Government (including CDC, U.S. Customs and Border Protection, U.S. Immigration and Customs Enforcement, Bureau of Prisons, U.S. Marshals Service)
- Mexican Federal Government (including Secretariat of Health, Mexican Consulates, National Institute of Migration)
- State and local health departments
- NGOs: Migrant Clinicians Network, Cure TB, Heartland National TB Center
- Pan American Health Organization



U.S.-Mexico Border Health Commission TB-Related Activities

U.S.-Mexico Border Tuberculosis Consortium (cont.)

- **Continuity of Care**
 - Identify barriers to completion of treatment
 - Develop standards for Meet and Greet program
- **Legal Issues**
 - Guide to be developed on practical applications of public health law, including patients' rights and physician obligations
 - Increase providers' awareness of legal issues
- **Coordination of binational efforts on MDR-TB**
 - Establish binational network of experts
 - Educate and train physicians
 - Analyze treatment strategies



U.S.-Mexico Border Health Commission TB-Related Activities

New Mexico-Chihuahua TB Pilot Project

■ **Overview**

- Binational project to enhance surveillance and treatment to prevent TB, including MDR-TB

■ **Partners**

- New Mexico Department of Health Office of Border Health
- Chihuahua State Services Health Jurisdiction
- Migrant Clinicians Network

■ **Methods**

- Promote TB testing
- Provide education to providers and patients
- Implement adherence strategies

■ **Outcomes (2010-2012)**

- Training completed for 150 physicians and nurses
- Active case management (>2,000 home visits)
- Improved understanding of border TB management issues



Key Takeaways

- TB rates higher in the U.S.-Mexico border region
- Major challenges include continuity of care and harmonizing treatment protocols across state and national lines
- Efforts of the U.S.-Mexico Border Health Commission are aimed to promote:
 - Binational collaboration (federal, state and local levels)
 - Cross-border sharing of information and resources for prevention and treatment



Achieving Healthy People 2020 Goals of TB Elimination in Hard to Reach Populations

July 30, 2013

Ed Zuroweste, MD

Chief Medical Officer



Migrant Clinicians Network

OUR MISSION

*To be a force for justice in
healthcare for the mobile poor*



About Migrant Clinicians Network

- ❑ 10,000 constituents
- ❑ Founded in 1984
- ❑ Oldest clinical network serving the mobile poor
- ❑ MCN's primary constituents
 - Federally funded Migrant & Community Health Centers
 - State and local health departments



Photo © Alan Pogue

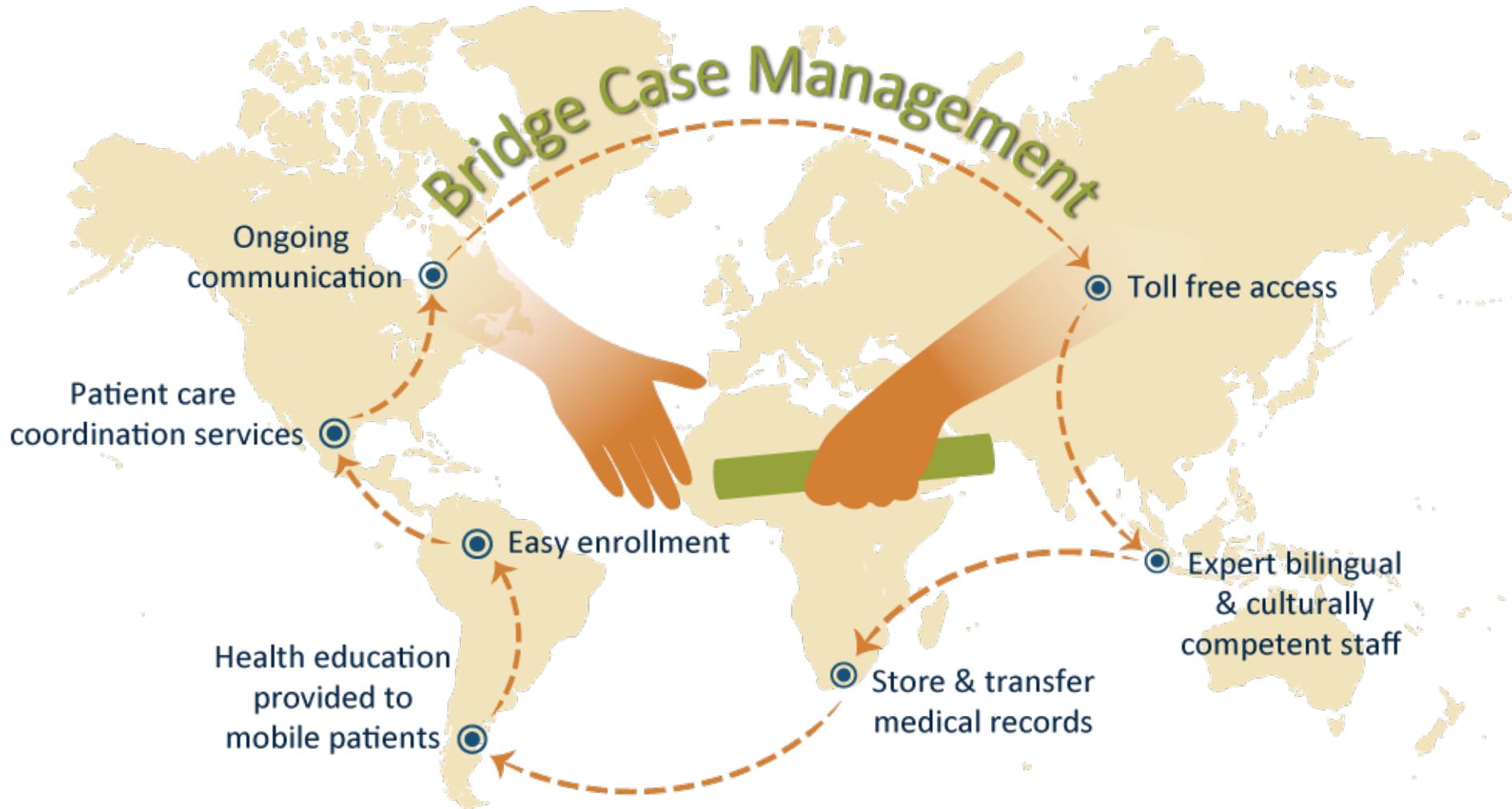


Tuberculosis Disproportionately Affects
the Foreign Born and Recent Immigrants

- Federally funded M/CHC are often “medical home” for FB
- To achieve TB elimination will require partners outside of public health to identify/treat TB Infection
- Front line primary care providers need continued education and reminders to “think TB”
- Continuity of care often significant barrier to completion of treatment for active TB and TB infection.



MCN's Health Network provides continuity of care to mobile patients and their providers



TBNet Bridge Case Management



- An innovative approach for over **17** years
- **5,190** total TB enrollments
- **2,951** total clinics in U.S. and over **70** countries

TBNet's International Reach



Class 3 Active TB: TBNet Treatment Success (2005-2011)

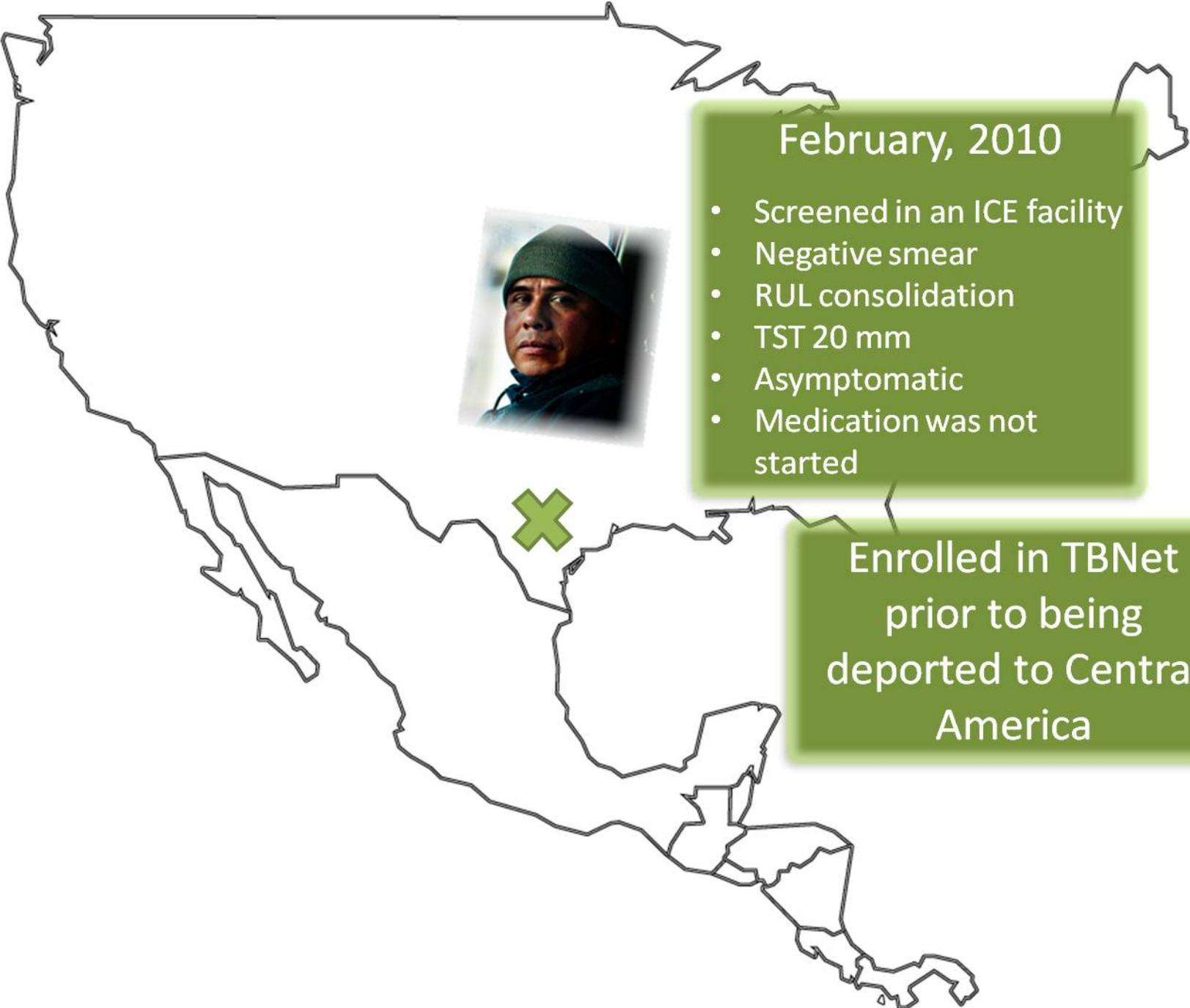
- ✓ 1,145 Class 3 Active TB Cases Referred
 - *34 treatment not recommended by destination country*
- ✓ 1,111 Treatment Recommended
 - *13 deceased*
- ✓ 1,098 Followed by TBNet for Active TB
 - *112 lost to follow up*
 - *64 refused treatment*

922 Complete Treatment = 84.0%

TBNet 2005-2011

TBNet Patient and Clinic Contacts: 2005-2011

Total Patients	Patient Contacts	Average Contacts per patient	Clinic contacts	Average Contacts per patient	Total contacts	Total contacts per patient
2,238	19,623 (2.41 hrs)	8.8	45,211 (5.65 hrs)	20.2	64,834	29.0 (8.06 hrs)



February, 2010



- Screened in an ICE facility
- Negative smear
- RUL consolidation
- TST 20 mm
- Asymptomatic
- Medication was not started

Enrolled in TBNet
prior to being
deported to Central
America



March, 2010 TBNet notified of positive culture results

Medical records sent to his home country and family notified





May 2010, wife calls TBNNet to say that her husband is being held by “coyotes” on the west coast of the United States.



TBNet case manager calls and is able to speak to the patient to explain the need for treatment

TBNet staff then initiates a human trafficking investigation via ICE

June 2010 patient contacts
TBNNet from the east coast having
been released by "coyotes"

Medical records
sent to clinic by
TBNNet and patient
started on 4 drug
regimen using DOT



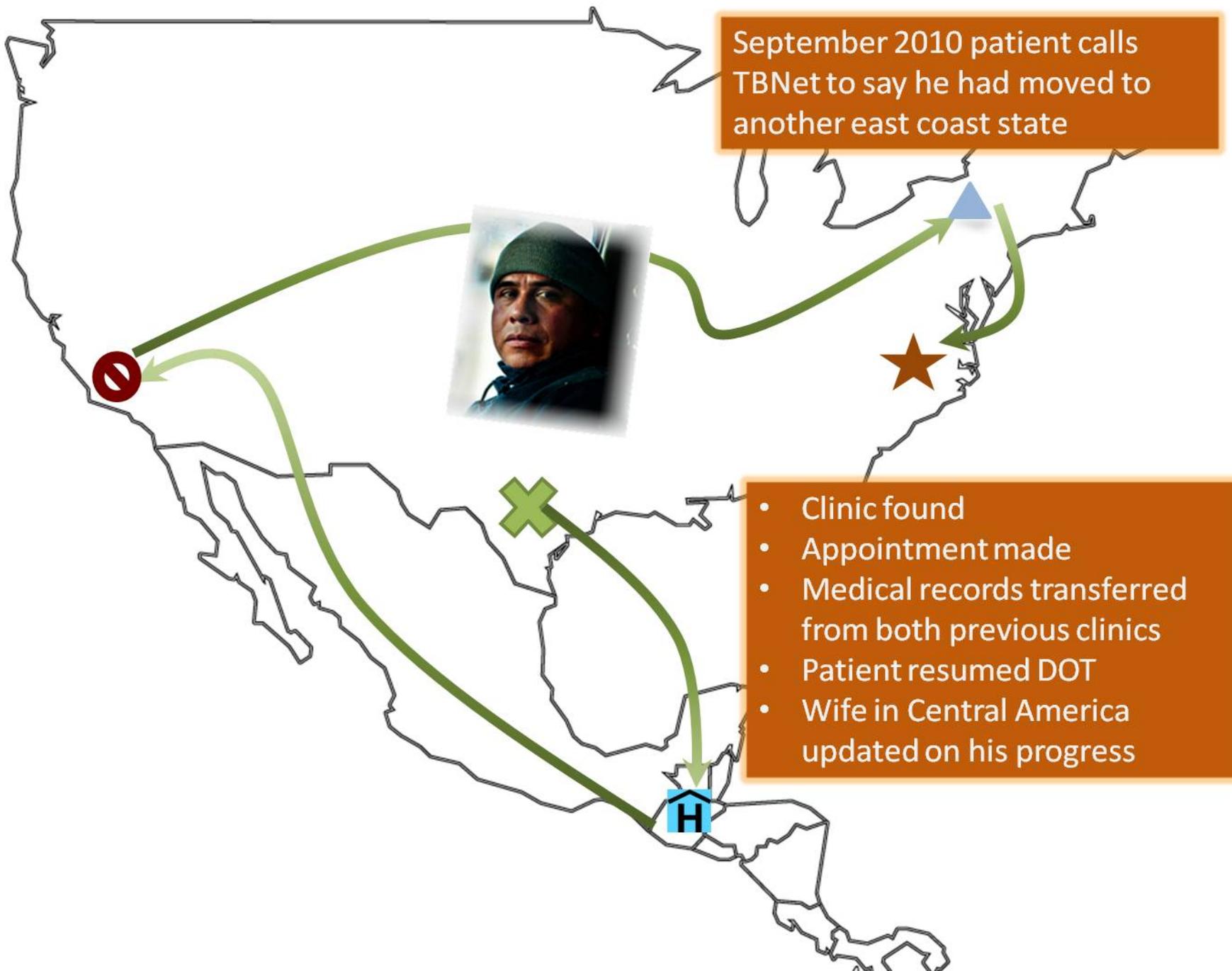
September 2010 patient calls TBNET to say he had moved to another east coast state



September 2010 patient calls
TBNNet to say he had moved to
another east coast state



- Clinic found
- Appointment made
- Medical records transferred from both previous clinics
- Patient resumed DOT
- Wife in Central America updated on his progress

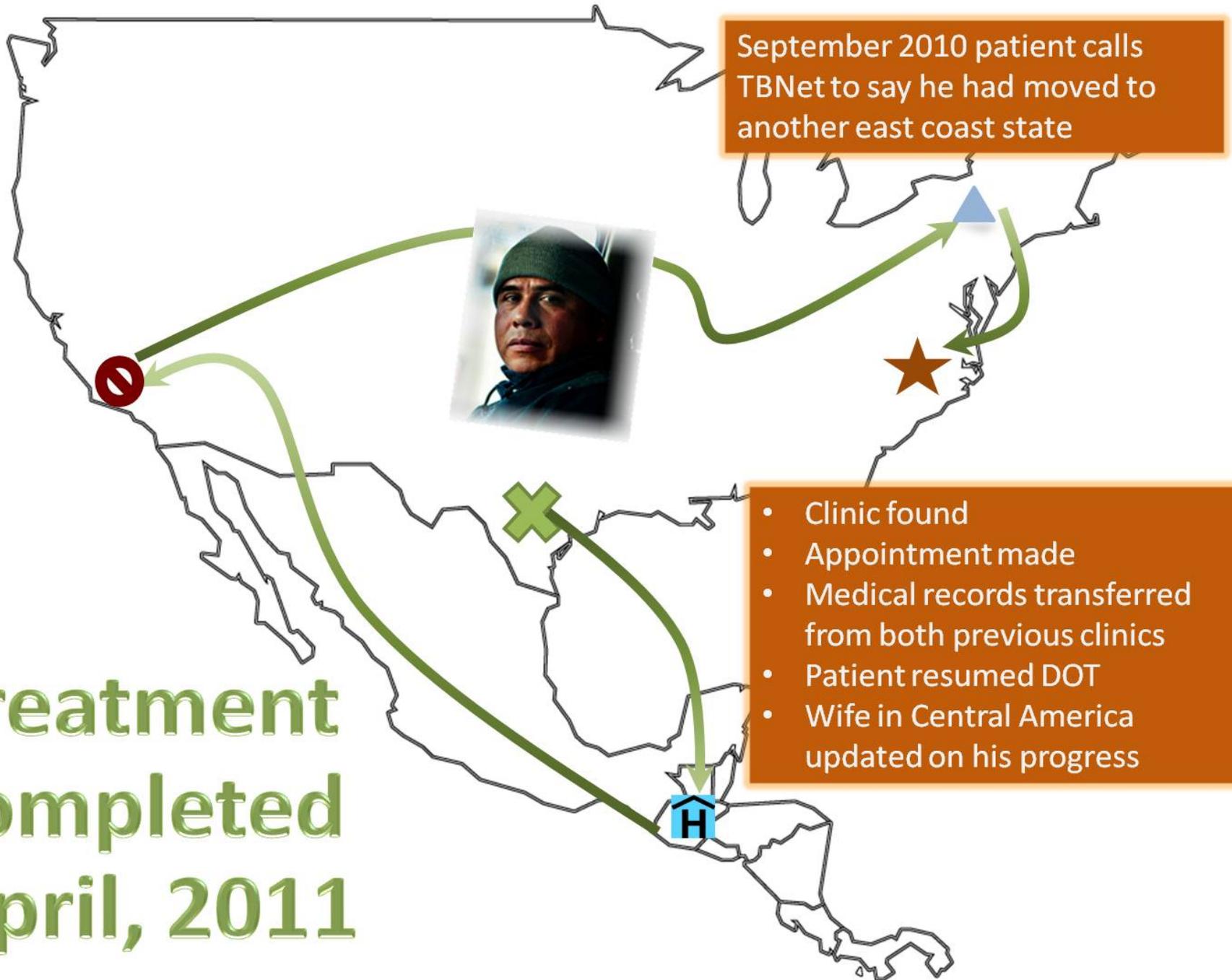


September 2010 patient calls
TBNet to say he had moved to
another east coast state



- Clinic found
- Appointment made
- Medical records transferred from both previous clinics
- Patient resumed DOT
- Wife in Central America updated on his progress

Treatment
completed
April, 2011



Contact



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Please submit your questions through the Q&A function





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Ethnicity:

Age Range:

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Healthy People 2020 Brochure: Updated with LHIs! [PDF - 948 KB]

HHS Prevention Strategies

Healthy People supports prevention efforts across the U.S. Department of Health and Human Services (HHS) to create a healthier Nation.



Spotlight

Join us on July 30 for a **Healthy People 2020 Progress Review:**

The Burden of Tuberculosis and Infectious Diseases in the U.S. and Abroad. Register today!



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