

# New Mexico Emerging Infections Program (EIP) Data in Use – Health Status Indicators

**Chad Smelser, MD**

**Medical Epidemiologist - Active Bacterial Core Surveillance  
Principal Investigator**



# Objectives

- **Understand use of EIP Data in New Mexico for establishing Health Status Indicators (HSI)**
- **Learn about and how to access the New Mexico Indicator Based Information System**
- **Understand EIP related NMDOH Health Status Indicators**
- **Learn how NMDOH is working to improve these HSIs**

# NMDOH Strategic Plan

- **NMDOH Mission** is to promote health and wellness, improve health outcomes, and assure safety net services for all people in New Mexico.
- **The Strategic Plan** is a tool to...establish priorities, align resources, improve and strengthen operations, and ensure that all staff understand the Department's goals and recognize how they can contribute to achieving them

## Health Status Indicators

- 32 indicators that simply and clearly articulate the Department's belief in and commitment to improving population health
- The Indicators are observable, measureable, quantitative expressions of anticipated improvements that NMDOH expects following the execution of the FY17 – 19 Strategic Plan.

# New Mexico's Indicator-Based Information System (NM-IBIS)

- **NM-IBIS is your source for data and information on New Mexico's priority public health issues.**
- **<https://ibis.health.state.nm.us/about/Welcome.html>**
- **[NM-IBIS Overview - YouTube](#)**



# New Mexico's Indicator-Based Information System (NM-IBIS)

...Monitoring New Mexico's Health

Path: [NM-IBIS](#) » [about](#)

Search this website...

About NM-IBIS

Health Topics

Health Indicator Reports

Explore Communities

Explore Datasets

Resources

Welcome

Contents and Usage

What's New?

Contact Information

Welcome to NM-IBIS - New Mexico's Public Health Data Resource

## Find information on Health Topics:

- [Health Care Coverage and Cost](#)
- [Mental Health](#)
- [select from ALL HEALTH TOPICS...](#)

Health Topics



# Pneumonia and Influenza (P&I) Death Rate

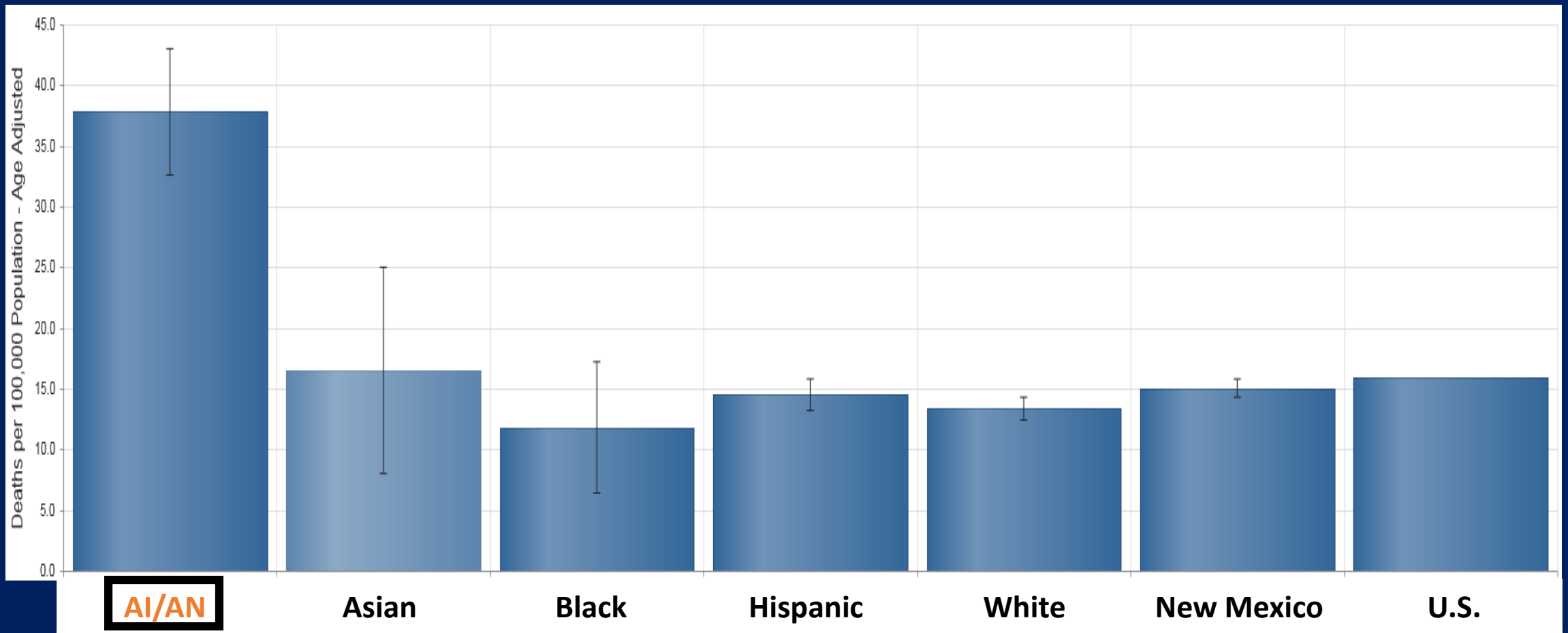
- **Ranks in the top 10 leading causes of death in United States & New Mexico**
  - ~ 50,00 deaths in U.S.
  - ~ 300 deaths in New Mexico
- **Often one of the 5 leading causes of death in certain populations**
  - **Children (1-4 years) and adults (85+ years)**

# Pneumonia and Influenza Death Rate

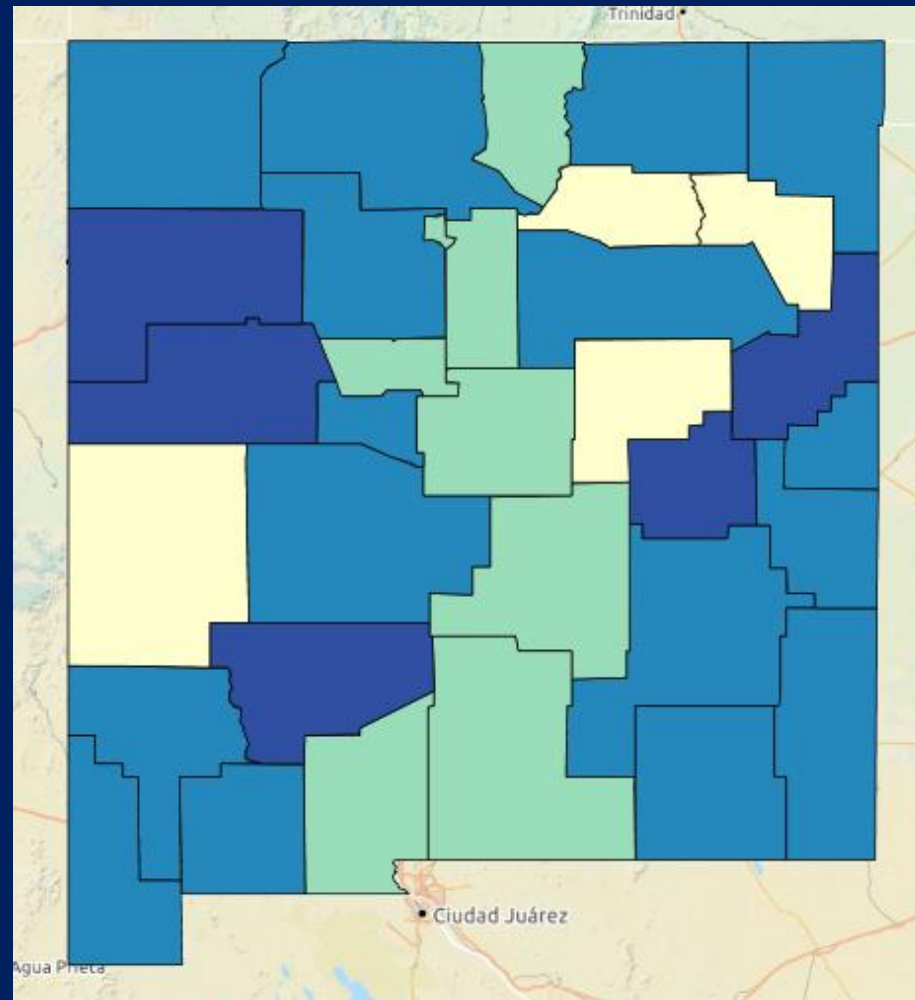
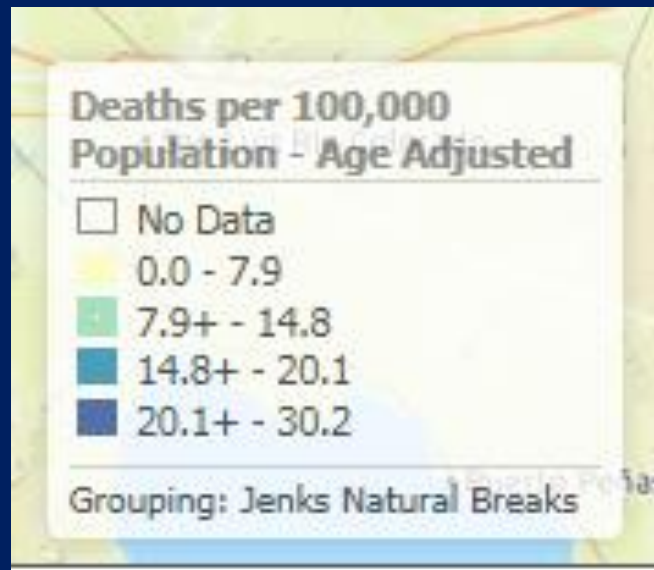
Health Status Indicator	Current NM Rate	NMDOH Target
Pneumonia and Influenza death rate per 100,000 population	17.1 (CY 2014)	15.0



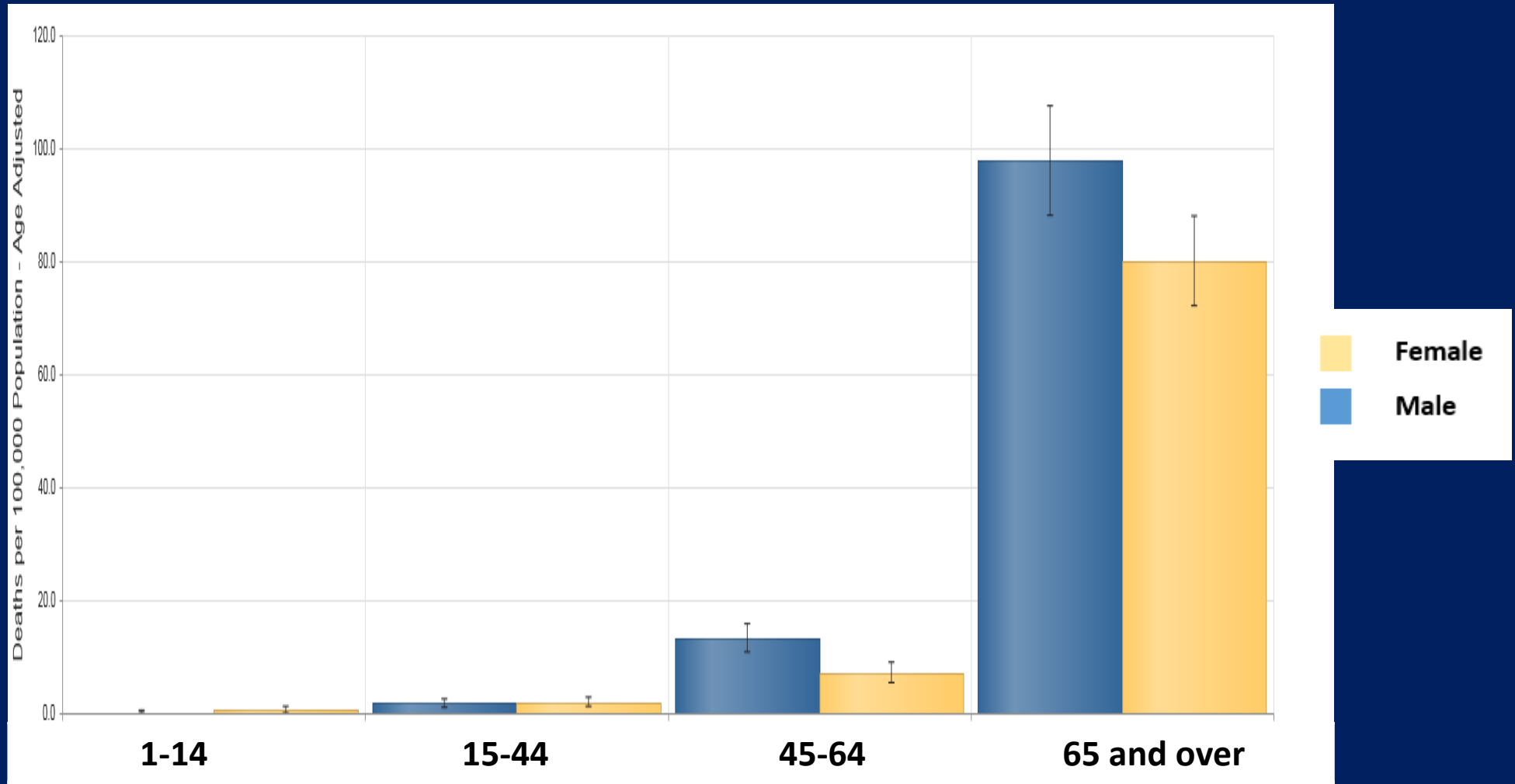
# Pneumonia & Influenza Deaths in New Mexico by Race/Ethnicity, 2010-2014



# Pneumonia & Influenza Death Rate by New Mexico County, 2010-2014



# Influenza & Pneumonia Deaths by Age-Group and Sex, New Mexico 2012-2014



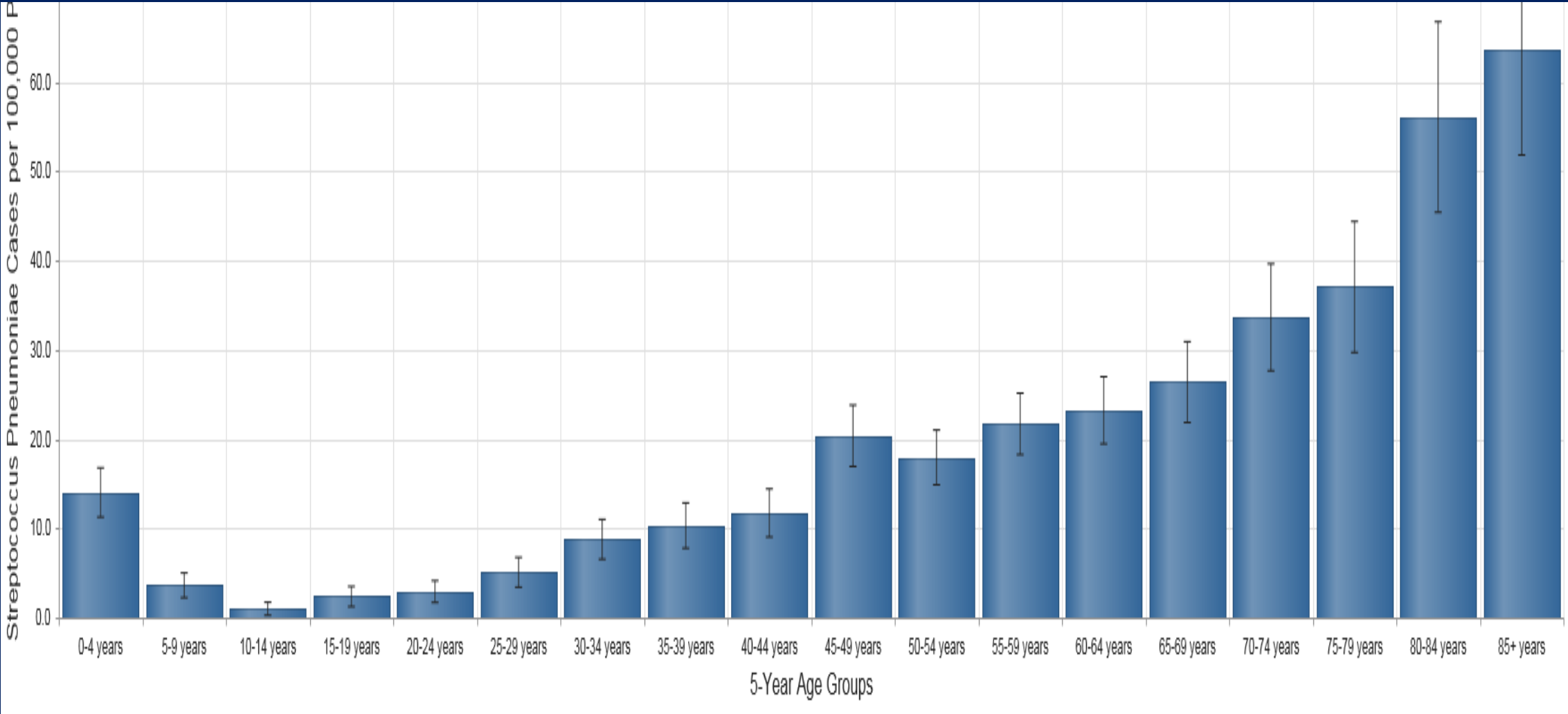
# Invasive Pneumococcal Disease (IPD) Rate

Health Status Indicator	Current NM Rate	NMDOH Target
Invasive pneumococcal disease rate per 100,000 population	16.6 (CY 2014)	15.0

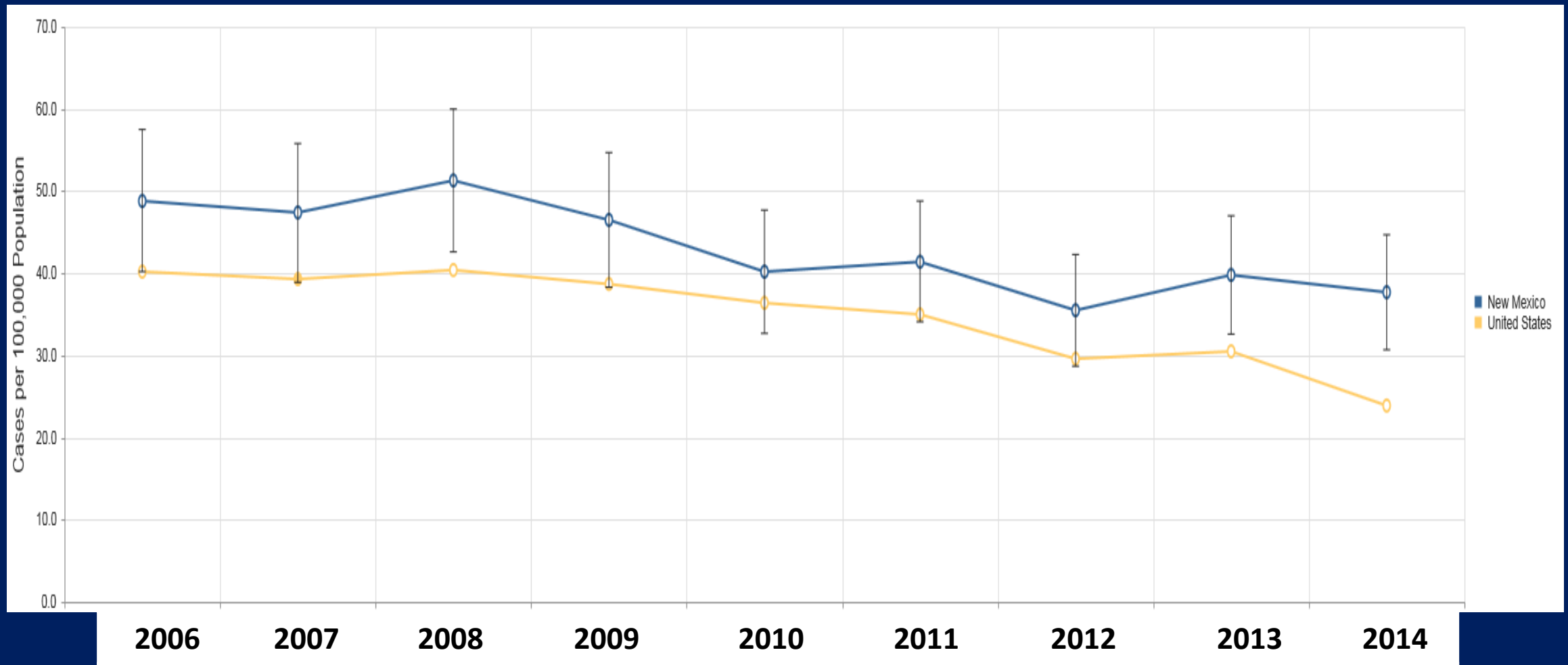
# IPD

- **US rate ~9 IPD cases/100K population**
- **NM rate almost 17 cases/100K population**
  - **Some NM counties and populations have rates 3 times the national rate**

# Streptococcus Pneumoniae Cases per 100,000 population by 5 year Age Groups



# IPD in Persons Aged 65 Years and Older by Year, New Mexico and U.S. 2006-2014



# Interventions to Improve HSI

- **Increase awareness - both of physicians and patients**
  - Education/information campaign
- **Increase vaccination rates for both pneumococcal and influenza vaccines**
  - Especially in high risk populations and the underserved
- **Increase appropriate antibiotic and antiviral therapy**



# NMDOH Initiatives

- **Collaborations – aimed at establishing appropriate age-based standards of care**
- **Immunization efforts - aimed at fostering the use of influenza and pneumococcal vaccines**
- **Antimicrobial use and stewardship – Everyone needs to be aware of the appropriate use of antibiotics and antivirals**

# List of Collaborators

- **NMDOH Bureau of Vital Records and Health Statistics**
- **NMDOH Public Health Division – Immunization Program**
- **NMDOH Office of Policy and Accountability**
- **University of New Mexico**
- **New Mexico Immunization Coalition**
- **Office of the Medical Investigator**
- **NM Association for Professionals in Infection Control & Epidemiology**

- **Nursing Home Association**
- **Primary Care Association of**
- **Local hospital infection control practitioners**
- **Indian Health Services**
- **Local hospital infection control practitioners**
- **Tribal Epidemiology Centers**
- **Centers for Disease Control and Prevention**
- **National Emerging Infections Program**

# You Can Help!

- **Please assist us in making New Mexico healthier**
- **Join us in collaboration**
- **Assure you, your patients and your healthcare systems are providing the appropriate standards of care and are vaccinating yourselves and your patients**

## Discussion

- Questions?

**Thank You!**