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
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...
Pneumonia and Influenza (P&I) Death Rate

- Ranks in the top 10 leading causes of death in United States & New Mexico
  - ~50,000 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)
<table>
<thead>
<tr>
<th>Health Status Indicator</th>
<th>Current NM Rate</th>
<th>NMDOH Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pneumonia and Influenza death rate per 100,000 population</td>
<td>17.1 (CY 2014)</td>
<td>15.0</td>
</tr>
</tbody>
</table>
Pneumonia & Influenza Deaths in New Mexico by Race/Ethnicity, 2010-2014

NM IBIS accessed 9/18/2016
Pneumonia & Influenza Death Rate by New Mexico County, 2010-2014
Influenza & Pneumonia Deaths by Age-Group and Sex, New Mexico 2012-2014

NM IBIS accessed 9/18/2016
### Invasive Pneumococcal Disease (IPD) Rate

<table>
<thead>
<tr>
<th>Health Status Indicator</th>
<th>Current NM Rate</th>
<th>NMDOH Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invasive pneumococcal disease rate per 100,000 population</td>
<td>16.6 (CY 2014)</td>
<td>15.0</td>
</tr>
</tbody>
</table>
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

NM IBIS accessed 9/18/2016
Interventions to Improve HSIs

• 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
<table>
<thead>
<tr>
<th>List of Collaborators</th>
</tr>
</thead>
<tbody>
<tr>
<td>• NMDOH Bureau of Vital Records and Health Statistics</td>
</tr>
<tr>
<td>• NMDOH Public Health Division – Immunization Program</td>
</tr>
<tr>
<td>• NMDOH Office of Policy and Accountability</td>
</tr>
<tr>
<td>• University of New Mexico</td>
</tr>
<tr>
<td>• New Mexico Immunization Coalition</td>
</tr>
<tr>
<td>• Office of the Medical Investigator</td>
</tr>
<tr>
<td>• NM Association for Professionals in Infection Control &amp; Epidemiology</td>
</tr>
<tr>
<td>• Nursing Home Association</td>
</tr>
<tr>
<td>• Primary Care Association of New Mexico</td>
</tr>
<tr>
<td>• Local hospital infection control practitioners</td>
</tr>
<tr>
<td>• Indian Health Services</td>
</tr>
<tr>
<td>• Local hospital infection control practitioners</td>
</tr>
<tr>
<td>• Tribal Epidemiology Centers</td>
</tr>
<tr>
<td>• Centers for Disease Control and Prevention</td>
</tr>
<tr>
<td>• National Emerging Infections Program</td>
</tr>
</tbody>
</table>
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!