Epidemiology of TB in Maryland

Alexandra Pyan, MPH
Prevention and Health Promotion Administration

Center for TB Control and Prevention

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MISSION AND VISION

MISSION
The mission of the Prevention and Health Promotion Administration is to protect, promote and improve the health and well-being of all Marylanders and their families through provision of public health leadership and through community-based public health efforts in partnership with local health departments, providers, community based organizations, and public and private sector agencies, giving special attention to at-risk and vulnerable populations.

VISION
The Prevention and Health Promotion Administration envisions a future in which all Marylanders and their families enjoy optimal health and well-being.
Tuberculosis Globally

• Estimated 10.4 million new cases globally in 2016
• 1.6 million deaths from TB
  • 9th leading cause of death in the world
  • 1st leading cause for infectious disease deaths
• 490,000 cases of MDR TB
TB Case Rates,* United States, 2017

*Cases per 100,000; as of February 12, 2018.
DC, District of Columbia

≤2.8 (2017 national average)
>2.8
Maryland TB, 2010-2017

The graph shows the number of TB cases and case rates per 100,000 population from 2010 to 2017. The bars represent the number of cases each year, while the line graph indicates the case rates and a linear trend over the years. The data shows a general decrease in cases and case rates from 2010 to 2017.
Maryland Case Rates, 2017

- >=3.4/100,000
- <3.4/100,000
- No reported cases
TB Case Rates Among US and Foreign-Born, 2013-2017
Percent of TB Cases by Origin
2015-2017

- 2015: 100 Foreign-Born, 50 US-Born
- 2016: 150 Foreign-Born, 50 US-Born
- 2017: 200 Foreign-Born, 100 US-Born
Top Countries of Origin
Maryland, 2017

- United States: 22%
- El Salvador: 5%
- India: 8%
- Nigeria: 5%
- Philippines: 7%
- Mexico: 5%
- Others: 48%
Foreign-born TB Case Numbers, by Time from U.S Arrival to Diagnosis, 2015-2017

2017
- >10 years
- >5-10 years
- 1-5 years
- <1 year

2016
- >10 years
- >5-10 years
- 1-5 years
- <1 year

2015
- >10 years
- >5-10 years
- 1-5 years
- <1 year
TB Cases by Race and Origin, 2017

U.S Born
- Black/African American: 60%
- Hispanic: 12%
- White: 26%
- Multi-Race: 2%
- Asian: 0%

Foreign Born
- Hispanic: 29%
- Asian: 41%
- Black: 28%
- Multi-Race: 1%
- White: 1%
- Other: 1%
Case rate in Children <5
2013-2017

Maryland Rate
National rate
Site of Disease, Maryland 2017

- Pulmonary: 62%
- Extra Pulmonary: 25%
- Both: 13%
Numbers of TB HIV Co-Infection Origin of Birth, 2014-2017

<table>
<thead>
<tr>
<th>Year</th>
<th>U.S Born</th>
<th>Foreign Born</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>5%</td>
<td>8%</td>
</tr>
<tr>
<td>2015</td>
<td>17%</td>
<td>7%</td>
</tr>
<tr>
<td>2016</td>
<td>6%</td>
<td>6%</td>
</tr>
<tr>
<td>2017</td>
<td>7%</td>
<td>13%</td>
</tr>
</tbody>
</table>
TB and Diabetes, 2013-2017

![Bar chart showing cases and percentages of TB and diabetes from 2013 to 2017. The x-axis represents the years 2013 to 2017, with a focus on the years 2015 and 2016. The y-axis represents cases and percentages. The chart shows a peak in the number of cases in 2016, with a corresponding peak in percentage.](chart-url)
MDR/XDR TB in Maryland, 2013-2017

*One XDR case
Drug resistance in Maryland, 2017

207 cases total

154 (74%) cases: susceptibility results

18 (12%) cases: any resistance

2 (1%) MDR
# National TB Indicators

<table>
<thead>
<tr>
<th>Program Objective</th>
<th>National Target 2020</th>
<th>Maryland Target 2020</th>
<th>Maryland 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Known HIV Status</td>
<td>98.0</td>
<td>100.0</td>
<td>95.0</td>
</tr>
<tr>
<td>Treatment Initiation</td>
<td>97.0</td>
<td>98.0</td>
<td>95.9</td>
</tr>
<tr>
<td>Recommended Initial Therapy</td>
<td>97.0</td>
<td>95.0</td>
<td>95.0</td>
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<tr>
<td>Sputum Culture Reported</td>
<td>98.0</td>
<td>100.0</td>
<td>99.4</td>
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<tr>
<td>Sputum Culture Conversion</td>
<td>73.0</td>
<td>75.0</td>
<td>78.3*</td>
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<tr>
<td>Completion of Treatment</td>
<td>95.0</td>
<td>95.0</td>
<td>90.8*</td>
</tr>
<tr>
<td>Drug-Susceptibility Results</td>
<td>100.0</td>
<td>100.0</td>
<td>98.8</td>
</tr>
<tr>
<td>Universal Genotyping</td>
<td>100.0</td>
<td>100.0</td>
<td>99.4</td>
</tr>
</tbody>
</table>

*2015