Emerging HIV and TB Trends in Maryland

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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.
# Global HIV – 2019

## Global summary of the AIDS epidemic | 2019

### Number of people living with HIV

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
<th>Estimate Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>36.2 million</td>
<td>[30.2 million–42.5 million]</td>
</tr>
<tr>
<td>Women (15+ years)</td>
<td>19.2 million</td>
<td>[16.4 million–22.2 million]</td>
</tr>
<tr>
<td>Children (&lt;15 years)</td>
<td>1.8 million</td>
<td>[1.3 million–2.2 million]</td>
</tr>
</tbody>
</table>

### People newly infected with HIV in 2019

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
<th>Estimate Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>1.5 million</td>
<td>[1.1 million–2.0 million]</td>
</tr>
<tr>
<td>Children (&lt;15 years)</td>
<td>150 000</td>
<td>[94 000–240 000]</td>
</tr>
</tbody>
</table>

### AIDS-related deaths in 2019

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
<th>Estimate Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>600 000</td>
<td>[430 000–840 000]</td>
</tr>
<tr>
<td>Children (&lt;15 years)</td>
<td>95 000</td>
<td>[61 000–150 000]</td>
</tr>
</tbody>
</table>

UNAIDS Data 2020
Global HIV – Incidence Trend

Adults and children newly infected with HIV | 1990–2019

UNAIDS Data 2020
Global HIV – Mortality Trend

Adult and child deaths due to AIDS | 1990–2019

UNAIDS Data 2020
Global HIV and TB – Mortality Trends

TB is the leading cause of death among people with HIV

17% of 2018 TB deaths were among people with HIV

However, TB is rarely the cause of death in Maryland

CDC MMWR 69(11) 2020
Maryland HIV Diagnosis Trends

Maryland: 47% overall decrease over 10 years
EAPC -5.9%

2019: 931 new diagnoses
8.8% decrease from 2018

Data as reported through 6/30/2020
Maryland People Living with HIV/AIDS

Data as reported through 6/30/2019

People living in Maryland with diagnosed HIV or AIDS on 12/31/2018

- HIV: 15,558
- AIDS: 17,357
- Total: 32,915
HIV and TB Reporting in Maryland

- TB is reportable and tracked by the Center for TB Prevention and Control
- HIV and AIDS are reportable and tracked by the Center for HIV Surveillance, Epidemiology and Evaluation
- TB in a person with HIV is diagnostic of AIDS
- CTBPC and CHSEE cross notify and share information as appropriate and periodically match databases to ensure complete reporting
HIV and TB Coinfection in Maryland

- Of the 32,915 people living with HIV in 2018, 18 were newly diagnosed with TB in 2018 (5.5/10,000)
- Nine (50%) of the 18 new TB diagnoses were also new HIV diagnoses (out of 993 total, 2%)
- Decreasing co-incidence of HIV and TB diagnoses
Who Are the Co-Infected?

- 414 (1.3%) of the 32,915 people living with HIV in 2018 were ever diagnosed with TB
  - 62% male
  - 53% age 50+
  - 50% live in suburban Washington (Montgomery and Prince George’s counties)
  - 58% are foreign-born, top 5 countries:
    - Cameroon (41)
    - Ethiopia (28)
    - Kenya (15)
    - Nigeria (14)
    - Sierra Leone (13)
## 2016 – Maryland HIV Plan

<table>
<thead>
<tr>
<th>General Population</th>
<th>Vulnerable Populations</th>
<th>Full Diagnosis of HIV Infection</th>
<th>Care Engagement</th>
<th>Viral Suppression</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Educate</strong> all Marylanders to heighten HIV awareness and reduce stigma.</td>
<td><strong>Protect</strong> individuals and communities at highest risk for HIV infection in Maryland.</td>
<td><strong>Diagnose</strong> all Marylanders living with HIV who are unaware of their HIV status.</td>
<td><strong>Engage</strong> all Marylanders living with HIV in high quality HIV care.</td>
<td><strong>Achieve</strong> viral suppression for all Marylanders living with HIV.</td>
</tr>
</tbody>
</table>
Ending the HIV Epidemic - 2019

**GOAL:**

HHS will work with each community to establish local teams on the ground to tailor and implement strategies to:

- **Diagnose** all people with HIV as early as possible.
- **Treat** people with HIV rapidly and effectively to reach sustained viral suppression.
- **Prevent** new HIV transmissions by using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs).
- **Respond** quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them.

75% reduction in new HIV infections in 5 years and at least 90% reduction in 10 years.
CDC 18-1802 HIV Prevention Plan
2018 HIV Continuum of Care

![Prevalence-Based Estimated HIV Continuum of Care Among People Aged 13+, 2018](chart)

Data as reported through 6/30/2019
Issues for the Future

- EHE = ending new infections in Maryland
  - 35K+ people living with HIV
  - No cure = chronic disease management
    - Many people with latent TB
    - Average age late 40’s – decades of maintenance needed
- Increasing numbers of international migrants with HIV and/or TB
- High levels of travel to and visitors from countries with high levels of HIV and TB
- Challenges in properly identifying cases, assigning residence, and ascribing risk
Additional Data

- HIV statistics page
  - [https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/statistics.aspx](https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/statistics.aspx)

- HIV Data Request e-mail
  - hivdatarequest@maryland.gov