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.
## Living Adult/Adolescent HIV Diagnoses, Year-end 2015, Ranked by Rates

<table>
<thead>
<tr>
<th>Rank</th>
<th>State/Territory</th>
<th>Reported Cases</th>
<th>Rate per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>District of Columbia</td>
<td>14,972</td>
<td>2,590.2</td>
</tr>
<tr>
<td>2</td>
<td>New York</td>
<td>128,681</td>
<td>768.8</td>
</tr>
<tr>
<td>3</td>
<td>U.S. Virgin Islands</td>
<td>558</td>
<td>635.5</td>
</tr>
<tr>
<td>4</td>
<td><strong>Maryland</strong></td>
<td><strong>33,072</strong></td>
<td><strong>657.8</strong></td>
</tr>
<tr>
<td>5</td>
<td>Florida</td>
<td>106,585</td>
<td>615.2</td>
</tr>
<tr>
<td>6</td>
<td>Puerto Rico</td>
<td>16,783</td>
<td>564.0</td>
</tr>
<tr>
<td>7</td>
<td>Georgia</td>
<td>49,463</td>
<td>588.0</td>
</tr>
<tr>
<td>8</td>
<td>Louisiana</td>
<td>19,492</td>
<td>504.7</td>
</tr>
<tr>
<td>9</td>
<td>New Jersey</td>
<td>35,636</td>
<td>473.7</td>
</tr>
<tr>
<td>10</td>
<td>Delaware</td>
<td>3,230</td>
<td>404.9</td>
</tr>
<tr>
<td></td>
<td>United States</td>
<td><strong>988,955</strong></td>
<td><strong>364.3</strong></td>
</tr>
</tbody>
</table>

HIV/AIDS Trends

As reported through 6/30/2018
HIV/AIDS Trends

- New HIV diagnoses are declining and 2017 HIV diagnoses (1,043) are the lowest they’ve been since 1986
- New AIDS diagnoses are declining and 2017 AIDS diagnoses (586) are the lowest they’ve been since 1987
- Deaths among AIDS cases are stable (just below 500) and are the lowest they’ve been since 1988
  - Death reporting can be delayed so 2016 and 2017 deaths are incomplete
HIV Diagnosis Trends

EAPC -4.9%, p<0.0001

EAPC -10.3%, p<0.0001

As reported through 7/31/2018
HIV Diagnosis Trends

• New HIV diagnoses in Maryland decreased by 5% per year from 2011 to 2017

• New HIV diagnoses in Baltimore City decreased by 10% per year from 2011 to 2017

• New HIV diagnoses in Baltimore City (231) are half what they were in 2011

• The percent of new Maryland HIV diagnoses that are residents of Baltimore City decreased to 22%
HIV Diagnosis Trends

• New HIV diagnoses in Prince George’s County decreased by 4% per year from 2011 to 2017 (320 in 2017)

• New HIV diagnoses in Montgomery County are stable at about 200

• Rank of 2017 HIV Diagnoses

<table>
<thead>
<tr>
<th>Rank</th>
<th>County</th>
<th>Diagnoses</th>
<th>Rate (%)</th>
<th>Rate per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prince George’s County</td>
<td>320</td>
<td>30.8%</td>
<td>41.9/100,000</td>
</tr>
<tr>
<td>2</td>
<td>Baltimore City</td>
<td>231</td>
<td>22.2%</td>
<td>44.7/100,000</td>
</tr>
<tr>
<td>3</td>
<td>Montgomery County</td>
<td>164</td>
<td>15.8%</td>
<td>18.6/100,000</td>
</tr>
<tr>
<td>4</td>
<td>Baltimore County</td>
<td>112</td>
<td>10.8%</td>
<td>15.9/100,000</td>
</tr>
<tr>
<td>5</td>
<td>Anne Arundel County</td>
<td>42</td>
<td>4.0%</td>
<td>8.7/100,000</td>
</tr>
</tbody>
</table>
2017 HIV Diagnosis Rates

As reported through 6/30/2018

1) Baltimore City 44.7
2) Prince George’s County 41.9
3) Dorchester County 22.0
4) Montgomery County 18.6
5) Wicomico County 18.5
6) Charles County 18.1
7) Baltimore County 15.9

Rate per 100,000
- 0.0
- 0.1 - 6.5
- 6.6 - 11.3
- 11.4 - 22.0
- 22.1 - 44.7

State Rate: 20.4 per 100,000
HIV/AIDS Trends

As reported through 6/30/2018, based on MD residence at diagnosis

Alive on 12/31/2017

HIV    15,365
AIDS   17,527
Total  32,982
Living HIV Cases, Gender

N = 30,566

Cis Male 65%

Cis Female 34%

Trans Male 0.2% (54)

Trans Female 0.8% (231)

As reported through 6/30/2018, based on current MD residence
HIV Diagnoses, Sex at Birth

As reported through 6/30/2018
Living HIV Cases, Age on 12/31/2017

As reported through 6/30/2018
HIV Diagnoses, Age at Diagnosis

As reported through 6/30/2018

MARYLAND Department of Health
Pediatric HIV, Year of Birth

As reported through 6/30/2018
Living HIV Cases, Race/Ethnicity

N = 30,566

NH-Black 74%

NH-Diabetic 13%

NH-Multiple Races 6%

Hispanic 6%

NH-Asian 1%

NH-Native Hawaiian/ Other Pacific Islander <1%

NH-Native White 13%

NH-Native American Indian/ Alaskan Native <1%

As reported through 6/30/2018
HIV Diagnoses, Race/Ethnicity

As reported through 6/30/2018
Living HIV Cases, Exposure Category

As reported through 6/30/2018
HIV Diagnoses, Exposure Category

As reported through 6/30/2018
HIV Diagnoses, Exposure Category

Adult/Adelescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2017, Reported through 6/30/2018

As reported through 6/30/2018
Living HIV Cases, Country of Birth

United States 88%
Other Country 9%
Unknown 3%

N = 30,566

As reported through 6/30/2018
HIV Diagnoses, Country of Birth

As reported through 6/30/2018
## Living HIV Cases, Country of Birth

<table>
<thead>
<tr>
<th>Country of Birth</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>28,385</td>
<td>87.7</td>
</tr>
<tr>
<td>Cameroon</td>
<td>477</td>
<td>1.5</td>
</tr>
<tr>
<td>Ethiopia</td>
<td>301</td>
<td>0.9</td>
</tr>
<tr>
<td>Nigeria</td>
<td>223</td>
<td>0.7</td>
</tr>
<tr>
<td>El Salvador</td>
<td>206</td>
<td>0.6</td>
</tr>
<tr>
<td>Kenya</td>
<td>132</td>
<td>0.4</td>
</tr>
<tr>
<td>Haiti</td>
<td>103</td>
<td>0.3</td>
</tr>
<tr>
<td>Guatemala</td>
<td>93</td>
<td>0.3</td>
</tr>
<tr>
<td>Mexico</td>
<td>86</td>
<td>0.3</td>
</tr>
<tr>
<td>Liberia</td>
<td>80</td>
<td>0.2</td>
</tr>
</tbody>
</table>

*As reported through 6/30/2018*
Late HIV Diagnosis

- 1,040 new HIV diagnoses in 2017 with age 13+ at diagnosis
- 27.5% had an AIDS diagnosis within 12 months of their HIV diagnosis
- Median CD4 count after HIV diagnosis was 363 cells

- One quarter of new HIV diagnoses were diagnosed late
AIDS Diagnosis

• 582 new AIDS diagnoses in 2017 with age 13+ at HIV diagnosis
• 51.7% had their first HIV diagnosis within 12 months of their AIDS diagnosis

• One half of new AIDS diagnoses were due to late diagnosis of HIV
CD4 Depletion Model

• Without treatment, CD4 counts decrease at predictable rates after infection

• A statistical model uses the first CD4 count after diagnosis to estimate time since infection, HIV incidence, HIV prevalence, and percent undiagnosed

• 91% of 2017 HIV diagnoses had a CD4 count in the first 12 months after diagnosis
2016 Maryland Estimates

- Estimated Incidence: 1,000
- Estimated Time from Infection to Diagnosis: 6.0 years
- Estimated Prevalence: 38,900
- Estimated Number Undiagnosed: 4,500
- Estimated Percent Undiagnosed: 11.6%

- The average new diagnosis occurs 6 years after infection
Deaths

• Survival times have been improving. For AIDS cases diagnosed in 2000, only 70% were alive 5 years later. For 2012 diagnoses, 85% survived 5 years.

• However, there still were 489 deaths in 2015 among AIDS cases.

• 8.1% of late HIV diagnoses in 2014 were deceased within 3 years compared to 0.8% of those not diagnosed late.

• Late diagnosed HIV cases were 10 times more likely to die within 3 years.
2017 Continuum of Care

Prevalence-Based Estimate of HIV Infected Adult/Adolescent Continuum of Care, 2017

Among current Maryland residents living with HIV

- HIV Infected: 34,577
- HIV Diagnosed: 30,566
- Retained in HIV Care: 23,743
- Suppressed VL: 18,914

Among 2017 HIV diagnoses

- HIV Diagnoses: 1,040
- Linked to HIV Care - 1 month: 900
- Linked to HIV Care - 3 months: 957
2017 Continuum of Care by Age

Prevalence-Based Estimate of HIV Infected Adult/Adolescent Continuum of Care by Age on 12/31/2017, 2017

Among current Maryland residents living with HIV

Among 2017 HIV Diagnoses

<table>
<thead>
<tr>
<th>Age Group</th>
<th>HIV Infected</th>
<th>HIV Diagnosed</th>
<th>Retained in Care</th>
<th>Suppressed VL</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-24</td>
<td>2,085</td>
<td>1,030</td>
<td>810</td>
<td>488</td>
</tr>
<tr>
<td>25-34</td>
<td>6,829</td>
<td>3,525</td>
<td>1,681</td>
<td>1,093</td>
</tr>
<tr>
<td>35-44</td>
<td>10,463</td>
<td>5,291</td>
<td>2,231</td>
<td>1,448</td>
</tr>
<tr>
<td>45-54</td>
<td>9,659</td>
<td>4,651</td>
<td>2,025</td>
<td>1,303</td>
</tr>
<tr>
<td>55+</td>
<td>6,629</td>
<td>3,311</td>
<td>1,361</td>
<td>860</td>
</tr>
</tbody>
</table>

Percent

0.0% 10.0% 20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 80.0% 90.0% 100.0%

HIV Infected
HIV Diagnosed
Retained in Care
Suppressed VL

100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%
Additional Epidemiological Data

• HIV Annual Epidemiological Profiles
  • Maryland (also quarterly updates)
  • Baltimore and Washington MSAs
  • 5 planning regions (Central, Eastern, Southern, Suburban, Western)
  • High morbidity jurisdictions (Baltimore City, Anne Arundel, Baltimore, Montgomery, and Prince George’s counties)
  • Details by county (ZIP), age, sex, gender, race/ethnicity, country of birth, exposure category

• Population fact sheets

• County fact sheets
Maryland Department of Health
Prevention and Health Promotion Administration

https://phpa.health.maryland.gov

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Maryland HIV surveillance data and reports available at:
https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/statistics.aspx