The HIV Surveillance and Epidemiology Section gratefully acknowledges the support of hospitals and laboratories reporting HIV cases in Pennsylvania.

The Annual HIV Surveillance Summary is Prepared by the
Bureau of Epidemiology
Pennsylvania Department of Health

Bureau of Epidemiology
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The data provided in the tables, figures and maps are based on HIV reports received through March 31, 2017. Expanded analysis of data presented in the Annual HIV Surveillance Summary and other HIV data may be requested by sending email to c-hivepi@pa.us or by telephone/fax to our office at 717-783-0481 (tel) or 717-772-6975 (fax).

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A Special Note for the Readers of the Pennsylvania HIV Surveillance Report  
Explanation for Changes in the Annual HIV Surveillance Summary Report

This note is intended to inform all readers of changes we have introduced in the Pennsylvania Annual Human Immunodeficiency Virus (HIV) Surveillance Summary Report. The format of this annual summary has changed from the format used in previous years to reflect some changes in the way HIV is viewed. This report considers HIV infection as a single disease entity with varying degrees of severity rather than using separate disease classifications for HIV infection without AIDS and acquired immunodeficiency syndrome (AIDS).

Since the inception of the annual summary report, HIV has been depicted as two conditions, HIV infection without AIDS and AIDS, respectively. This artificial separation served a purpose at the time. However, with advances in the clinical and epidemiologic experiences with HIV infection, HIV disease is now viewed as a spectrum condition; progressing from early stage of infection to full-blown symptomatic infection.

In 2002, Pennsylvania promulgated public health regulations revising the reportability of adult and pediatric AIDS, adding HIV, CD4 count (<200 cells/µL or <14%), detectable viral load and perinatal exposure to HIV. The new regulations took effect on October 18, 2002 and active surveillance was conducted retrospectively to January 1, 2000. Since that time, HIV reporting has been ongoing statewide with the exception of the county of Philadelphia where it did not become reportable by name until October 2005.

In addition, the US Centers for Disease Control and Prevention (CDC) has recently made changes to the HIV case definition, taking into account advances in testing and detection. This new case definition recognizes HIV infection as a disease with varying degrees of severity. For adults and adolescents (i.e., persons aged >13 years), the HIV infection classification system and the surveillance case definitions for HIV infection and AIDS were revised by the CDC in 2008 and combined into a single case definition for HIV infection. In addition, the HIV infection case definition for children aged <13 years and the AIDS case definition for children aged 18 months to <13 years were also revised. No changes were made to the HIV infection classification system, the 24 AIDS-defining conditions for children aged <13 years, or the AIDS case definition for children aged <18 months. These case definitions are intended for public health surveillance only and not as a guide for clinical diagnosis. CDC and the Council of State and Territorial Epidemiologists recommended that all states and territories conduct case surveillance of HIV infection and AIDS using the 2008 surveillance case definitions.

The data in previous years tables and figures were constructed separately for HIV infection without AIDS and AIDS. Most tables and figures now have HIV infection without AIDS combined with AIDS under one identity called HIV disease. Consequently, any comparison of this report to previous years should take into account these differences.

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Question or comment can be directed to

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Table of Contents

2017 HIV Surveillance Spotlight ......................................................... 4

Figure 1  Annual Diagnoses of AIDS and HIV infection Without AIDS, 1980-2016 ......................................................... 5

Figure 2  Number of Cases of AIDS and HIV Infection Without AIDS by Current Vital Status and Year of Diagnosis ................................. 6

Table 1  Annual Diagnoses of HIV Disease for Adult/Adolescent and Pediatric by Year of Diagnosis ................................................. 7

Table 2  Number of Cases of HIV Disease by Sex, Race/Ethnicity and Year of Diagnosis, 2011-2016 .................................................. 8

Table 3  Number of Cases of HIV Disease by Age and Year of Diagnosis, 2011-2016 ................................................................. 9

Table 4  Number of Cases of HIV Disease by Mode of Transmission and Year of Diagnosis, 2011-2016 ............................................ 10

Table 5  Number of HIV Disease by Mode of Transmission and Race/Ethnicity ................................................................. 11


Table 6  Cumulative Cases of HIV Disease by Vital Status and County of Residence, 2011-2016 ....................................................... 14

Table 7  Annual Diagnoses of HIV Disease by County of Residence, 2011-2016 ................................................................. 15

Figure 3  New Diagnoses of HIV Disease by County, 2011-2016 ................................................................. 16

Figure 4  Rate of New HIV Disease Diagnosed by County, 2015 ................................................................................. 17

Table 8  Characteristics of HIV Disease Cases by Time Interval of Diagnosis, 2011-2016 ....................................................... 18

Characteristics of HIV Disease For Seven Geographic Areas

Table 9  Characteristics of HIV Disease Cases by Time Interval of Diagnosis, AIDS Activities Coordinating Office ................................. 19

Table 10 Characteristics of HIV Disease Cases by Time Interval of Diagnosis, AIDSNET ......................................................... 20

Table 11 Characteristics of HIV Disease Cases by Time Interval of Diagnosis, Northeast Region ..................................................... 21

Table 12 Characteristics of HIV Disease Cases by Time Interval of Diagnosis, Northcentral Region .................................................. 22

Table 13 Characteristics of HIV Disease Cases by Time Interval of Diagnosis, Southcentral Region .................................................. 23

Table 14 Characteristics of HIV Disease Cases by Time Interval of Diagnosis, Southwest Region .................................................. 24

Table 15 Characteristics of HIV Disease Cases by Time Interval of Diagnosis, Northwest Region .................................................. 25

Figure 5  Confirmed Cases of Pediatric HIV Disease and Perinatal HIV Exposure, 2002-2016 ....................................................... 26
**Background:** In Pennsylvania, the first case of HIV disease was diagnosed in 1981. The number of newly diagnosed HIV disease increased steadily throughout the 1980s and peaked in the early 1990s. Since the mid-1990s, the number of new cases has steadily declined, but this decline has not been the same among all age groups and risk categories. A recent analysis has shown that during the 10 years between 2007 and 2016, there was an increase in the number of new cases of HIV disease among individuals age 20 to 29 at the time of diagnosis. While all other age groups have recorded a significant decline in the number of new HIV diagnoses, a gradual increase in the number of new HIV diagnoses for this age group that began in early 2000 has not started to decline. The objective of this evaluation is to determine characteristics of new HIV diagnoses in young adults 20-29 years old using data reported over the recent 10 years (2007-2016).

**Method:** Data from the Enhanced HIV/AIDS Reporting System was used exclusively to address this objective. The period examined included diagnoses between 2007 and 2016 and among those ages 20 through 29 at the time of HIV diagnosis.

**Results:** Over the 10-year period, a total of 14,565 HIV infected individuals were reported. Of this number, 4,225 (29%) were individuals 20-29 years old. As can be seen in Figure 1, the trend in the percent of new HIV diagnoses for individuals aged 20-29 has continued to increase in the past 10 years. The percent has increased from 22.7% in 2007 to 36.5% in 2016. These cases are predominantly blacks/African Americans. For each successive year, blacks/African Americans made up 50-60% of new HIV diagnoses in this age group (Figure 2). The evaluation of mode of HIV transmission for this group showed that individuals who are classified as MSM are contributing the most of the new infections, starting with 40% in 2007 to about 70% in 2016 (Figure 3). For the 10-year period, the percent of MSM within each racial group increased. For blacks/African Americans, it went from 48% to 72.9%, whites from 48% to 73.2%, and Hispanics from 27% to 77.1%. Figure 4 shows the distribution of new HIV diagnoses among young adults 20-29 years old by county in Pennsylvania reported over the past 10 years. The highest number of reported cases are in the urban areas and in the southcentral and southeastern parts of the state.

**Summary:** This analysis shows that while other age groups have seen continuous declines in new diagnoses of HIV, young adults age 20-29 years old predominate among new HIV diagnoses over the last 10 years. Young adults diagnosed with HIV are more likely to be black/African American and MSM. There is need for increased screening and HIV prevention messages targeted at these young adults. Concerted efforts should be made towards prompt linkage to medical care for those diagnosed. Those linked to treatment should be supported to remain in care to achieve optimal treatment effect.
Figure 1
Annual Diagnoses of AIDS and HIV Infection Without AIDS by Year of Diagnosis in Pennsylvania
1980-2016

Note: HIV Infection Without AIDS became reportable in Pennsylvania in October 2002
Figure 2
Number of Cases of AIDS and HIV Infection Without AIDS in Pennsylvania
Current Vital Status by Year of Diagnosis
1994-2016

Note: HIV Infection Without AIDS became reportable in Pennsylvania in October 2002
### TABLE 1
Annual Diagnoses of HIV Disease in Pennsylvania
Among Adult/Adolescent and Pediatric Cases
by Year of Diagnosis, 1980-2016

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<tr>
<th>YEAR OF DIAGNOSIS</th>
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<td>2001</td>
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<td>2006</td>
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</tr>
<tr>
<td>2013</td>
<td>1,327</td>
<td>8</td>
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</tr>
<tr>
<td>2014</td>
<td>1,209</td>
<td>5</td>
<td>1,214</td>
</tr>
<tr>
<td>2015</td>
<td>1,159</td>
<td>6</td>
<td>1,165</td>
</tr>
<tr>
<td>2016**</td>
<td>989</td>
<td>2</td>
<td>991</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>59,858</td>
<td>749</td>
<td>60,607</td>
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</table>

* HIV Infection Without AIDS became a reportable condition in Pennsylvania in October 2002
*Cases diagnosed with HIV disease before age 13
**Count may be incomplete partly due to reporting delays.
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<th></th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016*</th>
<th>TOTAL TO DATE</th>
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<tbody>
<tr>
<td></td>
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<td>number</td>
<td>percent</td>
<td>number</td>
<td>percent</td>
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<tr>
<td>TOTAL MALE</td>
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<td>1,095</td>
<td>100</td>
<td>1,058</td>
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<td>337</td>
<td>31</td>
<td>317</td>
<td>30</td>
<td>306</td>
</tr>
<tr>
<td>Black/African American (non-Hispanic)</td>
<td>538</td>
<td>49</td>
<td>556</td>
<td>51</td>
<td>545</td>
<td>52</td>
<td>472</td>
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<tr>
<td>Hispanic</td>
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<td>16</td>
<td>164</td>
<td>15</td>
<td>136</td>
<td>13</td>
<td>128</td>
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<td>Asian/Pacific</td>
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<td>15</td>
<td>1</td>
<td>21</td>
<td>2</td>
<td>19</td>
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<td>2</td>
<td>0</td>
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<tr>
<td>Multirace</td>
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<td>2</td>
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<td>3</td>
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<td>TOTAL FEMALE</td>
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<td>368</td>
<td>100</td>
<td>277</td>
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<td>White (non-Hispanic)</td>
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<td>6</td>
<td>54</td>
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<tr>
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<td>230</td>
<td>21</td>
<td>178</td>
<td>17</td>
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<td>5</td>
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<tr>
<td>Asian/Pacific</td>
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<tr>
<td>Native American</td>
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<td>0</td>
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<tr>
<td>Multirace</td>
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<td>1</td>
<td>5</td>
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<td>4</td>
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<tr>
<td>TOTAL</td>
<td>1,410</td>
<td>100</td>
<td>1,463</td>
<td>100</td>
<td>1,335</td>
<td>100</td>
<td>1,214</td>
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*Count may be incomplete partly due to reporting delays.

Note: Percentages may not add to 100% due to rounding.
## Table 3
Number of Cases of HIV Disease Diagnosed in Pennsylvania by Age and Year of Diagnosis, 2011-2016

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<tr>
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<th>2014</th>
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<td>number</td>
<td>percent</td>
<td>number</td>
<td>percent</td>
<td>number</td>
</tr>
<tr>
<td>All Ages</td>
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<td>100</td>
<td>1,463</td>
<td>100</td>
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<td>0-12</td>
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<td>13-19</td>
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<td>71</td>
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<td>72</td>
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<td>20-29</td>
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<td>461</td>
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<td>40-49</td>
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<td>24</td>
<td>329</td>
<td>22</td>
<td>269</td>
<td>20</td>
<td>230</td>
</tr>
<tr>
<td>OVER 49</td>
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<td>19</td>
<td>288</td>
<td>20</td>
<td>276</td>
<td>21</td>
<td>253</td>
</tr>
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</table>

*Count may be incomplete partly due to reporting delays.
Table 4
Number of Cases of HIV Disease in Pennsylvania
by Mode of Transmission and Year of Diagnosis, 2011-2016

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<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>TOTAL TO DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>number</td>
<td>percent</td>
<td>number</td>
<td>percent</td>
<td>number</td>
</tr>
<tr>
<td>All Modes</td>
<td>1,410</td>
<td>100</td>
<td>1,463</td>
<td>100</td>
<td>1,335</td>
<td>100</td>
<td>1,214</td>
</tr>
<tr>
<td>Men Sex w/Men (MSM)</td>
<td>625</td>
<td>44</td>
<td>649</td>
<td>44</td>
<td>646</td>
<td>48</td>
<td>612</td>
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<td>Injecting Drug Use (IDU)</td>
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<td>121</td>
<td>8</td>
<td>94</td>
<td>7</td>
<td>66</td>
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<td>MSM &amp; IDU</td>
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<td>33</td>
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<td>All Pediatric Modes**</td>
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<td>174</td>
<td>12</td>
<td>111</td>
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<td>71</td>
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</tbody>
</table>

*Reduced numbers may be partially due to reporting delays.
**Includes adult cases that had pediatric modes of transmission (e.g., perinatal exposure)
Note: Percentages may not add to 100% due to rounding.
### Table 5


<table>
<thead>
<tr>
<th></th>
<th>White (non-Hispanic)</th>
<th>Black/African American (non-Hispanic)</th>
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<th>Asian/Pacific</th>
<th>Native American</th>
<th>Multirace</th>
<th>All Races</th>
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<td>number</td>
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* The more recent pattern, 2001-2016, is a better reflection of current distribution of cases than the earlier periods, 1980-1990 and 1991-2000.

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Note: Percentages may not add to 100% due to rounding.

* The more recent pattern, 2001-2016, is a better reflection of current distribution of cases than the earlier periods, 1980-1990 and 1991-2000.
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*The more recent pattern, 2001-2016, is a better reflection of current distribution of cases than the earlier periods, 1980-1990 and 1991-2000.

Note: Percentages may not add to 100% due to rounding.
Table 6
Cumulative Cases for HIV Disease in Pennsylvania
by Mortality Status and County of Residence, 1980-2016

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>PRESUMED ALIVE</th>
<th>REPORTED DEAD</th>
<th>CUMULATIVE CASES</th>
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Annual HIV Surveillance Summary
HIV Surveillance and Epidemiology Section - Bureau of Epidemiology
Pennsylvania Department of Health
December 31, 2016
### Table 7
Annual Diagnoses of HIV Disease in Pennsylvania
By County of Residence
2013-2016

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<tr>
<th>County</th>
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<th>2015</th>
<th>2016*</th>
<th>2015 Rate Per 100,000**</th>
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<td>11</td>
<td>13</td>
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</table>

*Count may be incomplete partly due to reporting delays.
Figure 3
New HIV Disease Diagnosed in Pennsylvania
Number of Cases by County, 2015

AACO = AIDS Activities Coordinating Office
AIDSNET = AIDSNET
NE = Northeastern Wyoming Valley
NC = North Central District AIDS Coalition
SC = Family Health Council of South Central Pennsylvania
SW = Southwest Pennsylvania - Jewish Healthcare Foundation
NW = Northwest Pennsylvania Rural AIDS Alliance

Page 16
Annual HIV Surveillance Summary
HIV Surveillance and Epidemiology Section - Bureau of Epidemiology
Pennsylvania Department of Health
December 31, 2016
Figure 4
HIV Disease Diagnosed in Pennsylvania
Rate* (per 100,000) by County, 2015

NO NEW CASES
0.01 - 299
3.00 - 9.99
>=30.0

NC
AACO
AIDSNET
NE
NW
SW
SC
AACO = AIDS Activities Coordinating Office
AIDSNET = AIDSNET
NE = Northeastern Wyoming Valley
NC = North Central District AIDS Coalition
SC = Family Health Council of South Central Pennsylvania
SW = Southwest Pennsylvania - Jewish Healthcare Foundation
NW = Northwest Pennsylvania Rural AIDS Alliance

* Rates are based on 2015 estimated population.
### Table 8

**HIV Disease in Pennsylvania**

**Characteristics of Cases by Interval of Diagnosis, 2011-2016**

<table>
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<td>percent</td>
<td>number</td>
<td>percent</td>
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<td>percent</td>
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Includes cases diagnosed prior to 2002.

Cummulative are cases diagnosed through December 31, 2016, and reported through March 31, 2017.

Note: Percentages may not add to 100% due to rounding.
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<th>FEMALE</th>
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</table>

<p>| RACE/ETHNICITY | TOTAL TO DEC 31, 2016* |</p>
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<th>FEMALE</th>
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* Includes cases diagnosed prior to 2002
Cumulative are cases diagnosed through December 31, 2016, and reported through March 31, 2017.
Note: Percentages may not add to 100% due to rounding.
### Table 10
HIV Disease in Pennsylvania
Characteristics of Cases by Time Interval of Diagnosis

AIDSNET
Berks, Carbon, Lehigh, Monroe, Northampton and Schuylkill Counties

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* Includes cases diagnosed prior to 2002

Cumulative are cases diagnosed through December 31, 2016, and reported through March 31, 2017.

Note: Percentages may not add to 100% due to rounding.

December 31, 2016

Annual HIV Surveillance Summary
HIV Surveillance and Epidemiology Section - Bureau of Epidemiology
Pennsylvania Department of Health
### Table 11

HIV Disease in Pennsylvania
Characteristics of Cases by Time Interval of Diagnosis

#### NORTHEAST WYOMING VALLEY
Lackawanna, Luzerne, Pike, Susquehanna, Wayne and Wyoming Counties

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Includes cases diagnosed prior to 2002

Cumulative are cases diagnosed through December 31, 2016, and reported through March 31, 2017.

Note: Percentages may not add to 100% due to rounding.
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Table 12
HIV Disease in Pennsylvania
Characteristics of Cases by Time Interval of Diagnosis

NORTH CENTRAL DISTRICT AIDS COALITION
Bradford, Centre, Clinton, Columbia, Lycoming, Montour, Northumberland
Potter, Snyder, Sullivan, Tioga and Union Counties

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Note: Percentages may not add to 100% due to rounding.
Table 13
HIV Disease in Pennsylvania
Characteristics of Cases by Time Interval of Diagnosis

FAMILY HEALTH COUNCIL OF SOUTH CENTRAL PENNSYLVANIA
Adams, Bedford, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon,
Lancaster, Lebanon, Mifflin, Perry and York Counties

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* Includes cases diagnosed prior to 2002
Cumulative are cases diagnosed through December 31, 2016, and reported through March 31, 2017.
Note: Percentages may not add to 100% due to rounding.
### Table 14

**HIV Disease in Pennsylvania**  
Characteristics of Cases by Time Interval of Diagnosis

**Southwestern Pennsylvania - Jewish Healthcare Foundation**  
Allegheny, Armstrong, Beaver, Butler, Cambria, Fayette, Greene, Indiana, Somerset, Washington and Westmoreland Counties

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* Includes cases diagnosed prior to 2002  
Cumulative are cases diagnosed through December 31, 2016, and reported through March 31, 2017.  
Note: Percentages may not add to 100% due to rounding.
Table 15
HIV Disease in Pennsylvania
Characteristics of Cases by Time Interval of Diagnosis

NORTHWEST PENNSYLVANIA RURAL AIDS ALLIANCE
Cameron, Clarion, Clearfield, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango and Warren Counties

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</tbody>
</table>

* Includes cases diagnosed prior to 2002
Cumulative are cases diagnosed through December 31, 2016 and reported through March 31, 2017.
Note: Percentages may not add to 100% due to ‘rounding.’

Page 25
Annual HIV Surveillance Summary
HIV Surveillance and Epidemiology Section - Bureau of Epidemiology
Pennsylvania Department of Health
December 31, 2016
Figure 5
Confirmed Cases of Pediatric HIV Disease and Perinatal HIV Exposure by Year of Diagnosis, 2003 - 2016

[Graph showing confirmed perinatal HIV disease and perinatal HIV exposure from 2003 to 2016]