HIV Surveillance in Urban and Nonurban Areas

2018

(preliminary)
HIV Infection in Urban and Nonurban Areas

- Many ways to characterize urban and nonurban areas and populations

- CDC uses metropolitan statistical areas (MSAs) as defined by the Office of Management and Budget (OMB)

- OMB subdivides MSAs as:
  - $\geq500,000$ population
  - $50,000 - 499,999$ population
  - Nonmetropolitan ($<50,000$ population)
### Adults and Adolescents Living with Diagnosed HIV Infection, by Population of Area of Residence and Race/Ethnicity, Year-end 2017—United States

<table>
<thead>
<tr>
<th>Race/ethnicity</th>
<th>MSA of ≥500,000</th>
<th>MSA of 50,000-499,999</th>
<th>Non-metropolitan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Rate</td>
<td>No.</td>
</tr>
<tr>
<td>American Indian/Alaska Native</td>
<td>1,602</td>
<td>210.1</td>
<td>545</td>
</tr>
<tr>
<td>Asian</td>
<td>12,611</td>
<td>90.9</td>
<td>916</td>
</tr>
<tr>
<td>Black/African American</td>
<td>331,158</td>
<td>1307.4</td>
<td>40,561</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>194,437</td>
<td>538.0</td>
<td>14,896</td>
</tr>
<tr>
<td>Native Hawaiian/other Pacific Islander</td>
<td>657</td>
<td>189.1</td>
<td>86</td>
</tr>
<tr>
<td>White</td>
<td>223,587</td>
<td>212.4</td>
<td>39,083</td>
</tr>
<tr>
<td>Multiple races</td>
<td>36,841</td>
<td>1,155.9</td>
<td>4,452</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>801,480</td>
<td>433.5</td>
<td>100,584</td>
</tr>
</tbody>
</table>

*Note. Data are based on address of residence as of December 31, 2017 (i.e., most recent known address). Data exclude persons whose county of residence is unknown.

a Includes Asian/Pacific Islander legacy cases.
b Hispanics/Latinos can be of any race.
c Includes persons whose race/ethnicity is unknown.*
U.S. Census Bureau Regions of the United States
### Adults and Adolescents Living with Diagnosed HIV Infection, by Population of Area of Residence and Region, Year-end 2017—United States

<table>
<thead>
<tr>
<th>Region of residence</th>
<th>MSA of ≥500,000</th>
<th>MSA of 50,000-499,999</th>
<th>Non-metropolitan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Rate</td>
<td>No.</td>
</tr>
<tr>
<td>Northeast</td>
<td>203,590</td>
<td>524.3</td>
<td>10,184</td>
</tr>
<tr>
<td>N = 218,771</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>89,434</td>
<td>277.3</td>
<td>14,741</td>
</tr>
<tr>
<td>N = 112,589</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>335,917</td>
<td>511.7</td>
<td>59,422</td>
</tr>
<tr>
<td>N = 431,629</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>172,539</td>
<td>358.2</td>
<td>16,237</td>
</tr>
<tr>
<td>N = 194,721</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note.* Data are based on address of residence as of December 31, 2017 (i.e., most recent known address). Data exclude persons whose county of residence is unknown. Rates are per 100,000 population.
Percentages of Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Population of Area of Residence and Year of Classification, 1985–2017—United States

Note. Data exclude persons whose county of residence is unknown.
Adults and Adolescents Living with Diagnosed HIV Infection Ever Classified as Stage 3 (AIDS), by Population of Area of Residence and Region, Year-end 2017

**United States**

<table>
<thead>
<tr>
<th>Region of residence</th>
<th>MSA of ≥500,000</th>
<th>MSA of 50,000-499,999</th>
<th>Non-metropolitan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Rate</td>
<td>No.</td>
</tr>
<tr>
<td>Northeast</td>
<td>114,630</td>
<td>295.2</td>
<td>5,606</td>
</tr>
<tr>
<td>N = 123,069</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>43,830</td>
<td>135.9</td>
<td>7,383</td>
</tr>
<tr>
<td>N = 55,660</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>170,628</td>
<td>259.9</td>
<td>30,209</td>
</tr>
<tr>
<td>N = 219,749</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>90,429</td>
<td>187.7</td>
<td>9,081</td>
</tr>
<tr>
<td>N = 102,955</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note. Data are based on address of residence as of December 31, 2017 (i.e., most recent known address). Data exclude persons whose county of residence is unknown. Rates are per 100,000 population.*
## Diagnoses of HIV Infection among Adults and Adolescents by Population of Area of Residence, 2018—United States

<table>
<thead>
<tr>
<th>MSA Population</th>
<th>No.</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥500,000</td>
<td>29,975</td>
<td>16.1</td>
</tr>
<tr>
<td>50,000 – 499,999</td>
<td>4,702</td>
<td>9.6</td>
</tr>
<tr>
<td>Nonmetropolitan</td>
<td>2,347</td>
<td>6.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>37,024</td>
<td>13.5</td>
</tr>
</tbody>
</table>

*Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown. Rates are per 100,000 population.*
Percentages of Diagnoses of HIV Infection among Adults and Adolescents by Region and Population of Area of Residence, 2018—United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.
Diagnoses of HIV Infections among Adults and Adolescents, by Population of Area of Residence and Region, 2018—United States

<table>
<thead>
<tr>
<th>Region of residence</th>
<th>MSA of ≥500,000</th>
<th>MSA of 50,000-499,999</th>
<th>Non-metropolitan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Rate</td>
<td>No.</td>
</tr>
<tr>
<td>Northeast</td>
<td>5,062</td>
<td>13.0</td>
<td>329</td>
</tr>
<tr>
<td>N = 5,495</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>3,832</td>
<td>11.8</td>
<td>726</td>
</tr>
<tr>
<td>N = 4,904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>14,744</td>
<td>22.2</td>
<td>2,989</td>
</tr>
<tr>
<td>N = 19,396</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>6,337</td>
<td>13.0</td>
<td>658</td>
</tr>
<tr>
<td>N = 7,229</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown. Rates are per 100,000 population.
Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.
Percentages of Diagnoses of HIV Infection among Adults and Adolescents, by Population of Area of Residence and Race/Ethnicity, 2018—United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

* Hispanics/Latinos can be of any race.
Rates of Diagnoses of HIV Infection among Adults and Adolescents, by Population of Area of Residence and Race/Ethnicity, 2018—Northeast Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

^ Hispanics/Latinos can be of any race.
Rates of Diagnoses of HIV Infection among Adults and Adolescents, by Population of Area of Residence and Race/Ethnicity, 2018—Midwest Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

*Hispanics/Latinos can be of any race.
Rates of Diagnoses of HIV Infection among Adults and Adolescents, by Population of Area of Residence and Race/Ethnicity, 2018—South Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

a Hispanics/Latinos can be of any race.
Rates of Diagnoses of HIV Infection among Adults and Adolescents, by Population of Area of Residence and Race/Ethnicity, 2018—West Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown. Hispanics/Latinos can be of any race.
Percentages of Diagnoses of HIV Infection among Male Adults and Adolescents, by Population of Area of Residence and Transmission Category, 2018—United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown. Data have been statistically adjusted to account for missing transmission category. “Other” transmission category not displayed as it comprises less than 1% of cases.

*a Heterosexual contact with a person known to have, or to be at high risk for, HIV infection.
Percentages of Diagnoses of HIV Infection among Female Adults and Adolescents, by Population of Area of Residence and Transmission Category, 2018—United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown. Data have been statistically adjusted to account for missing transmission category. "Other" transmission category not displayed as it comprises less than 1% of cases.

*Heterosexual contact with a person known to have, or to be at high risk for, HIV infection.
Percentages of Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Region and Population of Area of Residence, 2018 United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

- **Northeast**
  - MSA of ≥500,000: 92%
  - MSA of 50,000-499,999: 6%
  - Nonmetropolitan: 2%
  - Total: 2,946

- **Midwest**
  - MSA of ≥500,000: 79%
  - MSA of 50,000-499,999: 13%
  - Nonmetropolitan: 8%
  - Total: 2,204

- **South**
  - MSA of ≥500,000: 74%
  - MSA of 50,000-499,999: 16%
  - Nonmetropolitan: 10%
  - Total: 9,259

- **West**
  - MSA of ≥500,000: 87%
  - MSA of 50,000-499,999: 10%
  - Nonmetropolitan: 4%
  - Total: 2,998
### Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Population of Area of Residence and Region, 2018—United States

<table>
<thead>
<tr>
<th>Region of residence</th>
<th>MSA of ≥500,000</th>
<th></th>
<th>MSA of 50,000-499,999</th>
<th></th>
<th>Non-metropolitan</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>Rate</td>
<td>No.</td>
<td>Rate</td>
<td>No.</td>
<td>Rate</td>
</tr>
<tr>
<td>Northeast</td>
<td>2,580</td>
<td>6.6</td>
<td>167</td>
<td>3.3</td>
<td>60</td>
<td>1.5</td>
</tr>
<tr>
<td>N = 2,807</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>1,763</td>
<td>5.4</td>
<td>288</td>
<td>2.4</td>
<td>186</td>
<td>1.5</td>
</tr>
<tr>
<td>N = 2,237</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>6,636</td>
<td>10.0</td>
<td>1,434</td>
<td>6.8</td>
<td>886</td>
<td>5.3</td>
</tr>
<tr>
<td>N = 8,956</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>2,514</td>
<td>5.2</td>
<td>278</td>
<td>2.6</td>
<td>114</td>
<td>2.0</td>
</tr>
<tr>
<td>N = 2,906</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note.* Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown. Rates are per 100,000 population.
Percentages of Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Population of Area of Residence and Race/Ethnicity

2018—United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

- Asian\textsuperscript{a}
- Black/African American
- Hispanic/Latino\textsuperscript{b}
- Native Hawaiian/other Pacific Islander
- White
- Multiple races

MSA of $\geq$500,000

- American Indian/Alaska Native: 2%
- Asian\textsuperscript{a}: <1%
- Black/African American: <1%
- Hispanic/Latino\textsuperscript{b}: <1%
- Native Hawaiian/other Pacific Islander: 4%
- White: 21%
- Multiple races: 25%

MSA of 50,000-499,999

- American Indian/Alaska Native: <1%
- Asian\textsuperscript{a}: <1%
- Black/African American: <1%
- Hispanic/Latino\textsuperscript{b}: 4%
- Native Hawaiian/other Pacific Islander: 32%
- White: 16%
- Multiple races: 1%

Nonmetropolitan

- American Indian/Alaska Native: 2%
- Asian\textsuperscript{a}: <1%
- Black/African American: 11%
- Hispanic/Latino\textsuperscript{b}: <1%
- Native Hawaiian/other Pacific Islander: 3%
- White: 1%
- Multiple races: 37%

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

\textsuperscript{a} Includes Asian/Pacific Islander legacy cases.

\textsuperscript{b} Hispanics/Latinos can be of any race.
Rates of Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Population of Area of Residence and Race/Ethnicity, 2018

Northeast Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

*a* Includes Asian/Pacific Islander legacy cases.

*b* Hispanics/Latinos can be of any race.
Rates of Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Population of Area of Residence and Race/Ethnicity, 2018

Midwest Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

- Includes Asian/Pacific Islander legacy cases.
- Hispanics/Latinos can be of any race.
Rates of Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Population of Area of Residence and Race/Ethnicity, 2018

South Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

a Includes Asian/Pacific Islander legacy cases.
b Hispanics/Latinos can be of any race.

### MSA of ≥500,000
- American Indian/Alaska Native: <1
- Asian: 2.2
- Black/African American: 10.4
- Hispanic/Latino: 28.5
- Native Hawaiian/other Pacific Islander: 3.5
- White: 9.8
- Multiple races: 23.6

N = 6,636

### MSA of 50,000-499,999
- American Indian/Alaska Native: <1
- Asian: 3.5
- Black/African American: 22.4
- Hispanic/Latino: 22.4
- Native Hawaiian/other Pacific Islander: 2.2
- White: 7.8
- Multiple races: 18.8

N = 1,434

### Nonmetropolitan
- American Indian/Alaska Native: <1
- Asian: 4.0
- Black/African American: 5.4
- Hispanic/Latino: 19.7
- Native Hawaiian/other Pacific Islander: 2.2
- White: 2.0
- Multiple races: 11.6

N = 886

\[\text{Classifications, Rate (per 100,000 population)}\]
Rates of Stage 3 (AIDS) Classifications among Adults and Adolescents with Diagnosed HIV Infection, by Population of Area of Residence and Race/Ethnicity, 2018
West Region, United States

Note. Data for the year 2018 are considered preliminary and based on 6 months reporting delay. Data exclude persons whose county of residence is unknown.

a Includes Asian/Pacific Islander legacy cases.
b Hispanics/Latinos can be of any race.