HIV Epidemiology for Marion County (2019)

EtE Taskforce Meeting
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Data Sources

- U.S. Census
- Enhanced HIV/AIDS Reporting System (eHARS)
- Ryan White Information Services Enterprise (RISE)
- CAREWare
- NEDSS Base System (NBS)
Marion County Geography and Demographics
Marion County Location & Population

- Marion County in 2019 had an estimated population of approximately 959,981 (6% increase since 2010)\(^1\)

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\(^1\) Source: U.S. Census Bureau
\(^2\) 2010 Census
\(^3\) 2019 Estimate
Marion County Demographics

Race/Ethnicity Groups of All Marion County Residents, 2019

- **Black, not Hispanic**: 28.2% N= 270,382
- **White, not Hispanic**: 54.8% N= 526,076
- **Asian/Pacific Islander**: 3.6% N= 34,742
- **Hispanic**: 10.6% N= 102,179
- **Other**: 2.8% N= 26,602

Gender of All Marion County Residents, 2019

- **Female**: 51.8% N= 497,328
- **Male**: 48.2% N= 482,663

Age Groups of All Marion County Residents, 2019

- **15-19**: 6.2% N= 59,122
- **20-24**: 6.9% N= 66,063
- **25-34**: 16.9% N= 162,249
- **35-44**: 12.9% N= 123,900
- **45-54**: 11.7% N= 112,419
- **55-64**: 12% N= 115,253
- **65+**: 12.6% N= 121,026
- **<15**: 20.8% N= 199,947
HIV/AIDS Incidence
# HIV/AIDS Incidence (2019)

<table>
<thead>
<tr>
<th>New Diagnoses</th>
<th>No.</th>
<th>Rate [95% CI*]</th>
<th>2018 Rate [95% CI*]</th>
<th>U.S. Rate** (2018)⁵</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIV†</td>
<td>218</td>
<td>22.7 [19.8-25.9]</td>
<td>21.5 [18.6-24.6]</td>
<td>11.4</td>
</tr>
<tr>
<td>AIDS</td>
<td>69</td>
<td>7.2 [5.6-9.1]</td>
<td>10.6 [8.5-12.6]</td>
<td>5.2</td>
</tr>
</tbody>
</table>

*95% confidence interval  
† New HIV dx and HIV at AIDS dx

No significant change in HIV incidence from 2018 to 2019
HIV/AIDS Incidence

HIV Diagnoses and Population Estimates in Marion County: 2010-2019

HIV Diagnoses (N)


- 3-Yr. Moving Avg. (HIV)
## HIV Incidence by County (2019)

<table>
<thead>
<tr>
<th>County</th>
<th>No.</th>
<th>% of HIV in TGA</th>
<th>Rate [95% CI*]</th>
<th>RR [95% CI*]: to Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marion</td>
<td>218</td>
<td>80.4%</td>
<td>22.7 [19.8-25.9]</td>
<td>5.4 [3.8-7.8]</td>
</tr>
<tr>
<td>Hendricks</td>
<td>19</td>
<td>7.0%</td>
<td>11.2 [6.7-17.4]</td>
<td>2.7 [1.5-4.7]</td>
</tr>
<tr>
<td>Others*</td>
<td>34</td>
<td>12.6%</td>
<td>4.2 [2.9-5.9]</td>
<td>1.0</td>
</tr>
</tbody>
</table>

* 95% confidence interval

Marion County HIV incidence was at about 5 times that of TGA counties outside of Marion and Hendricks.
HIV Incidence by Race/Ethnicity (2019)

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>No.</th>
<th>% of HIV in MC</th>
<th>Rate [95% CI*]</th>
<th>RR [95% CI*]: to White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asian/PI</td>
<td>&lt;5</td>
<td>-</td>
<td>NS</td>
<td>NS</td>
</tr>
<tr>
<td>Black</td>
<td>134</td>
<td>61.5%</td>
<td>49.6 [41.5-58.7]</td>
<td>6.3 [4.5-9.0]</td>
</tr>
<tr>
<td>Hispanic</td>
<td>35</td>
<td>16.1%</td>
<td>28.5 [23.9-47.6]</td>
<td>4.4 [2.8-6.9]</td>
</tr>
<tr>
<td>Other</td>
<td>5</td>
<td>&lt;3.3%</td>
<td>NS</td>
<td>NS</td>
</tr>
<tr>
<td>White</td>
<td>41</td>
<td>18.8%</td>
<td>7.8 [5.6-10.6]</td>
<td>1.0</td>
</tr>
</tbody>
</table>

*95% confidence interval  
NS = Does not meet MCPHD standards for statistical significance

African Americans and residents of Hispanic ethnicity continue to experience increased risk of HIV infection.
# HIV Incidence by Exposure Category (2019)

<table>
<thead>
<tr>
<th>Exposure</th>
<th>No.</th>
<th>% of HIV in MC</th>
<th>Rate [95% CI*]</th>
<th>RR [95% CI*]: to Heterosexual</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSM^</td>
<td>109</td>
<td>50%</td>
<td>436 [359-526]</td>
<td>70 [51-97]</td>
</tr>
<tr>
<td>IDU^</td>
<td>14</td>
<td>6.4%</td>
<td>91.1 [49.8-152.9]</td>
<td>15 [8-26]</td>
</tr>
<tr>
<td>Heterosex.</td>
<td>58</td>
<td>26.6%</td>
<td>6.2 [4.7-8.0]</td>
<td>1.0</td>
</tr>
<tr>
<td>Perinatal</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Not Rptd.</td>
<td>37</td>
<td>14.2%</td>
<td>3.9 [2.7-5.3]</td>
<td>NA</td>
</tr>
</tbody>
</table>

^MSM=Male-to-male sexual contact (denominator estimated)\(^5,6\) and IDU=Injection drug use(denominator estimated)\(^30\) Rows may total more than actual incidence due to report of multiple categories  
*95% confidence interval

MSM continue to bear the greatest burden of HIV
HIV Mortality and Death
Death of PLWH/A (Any Cause)

Deaths of Indianapolis TGA Residents Living with HIV/AIDS, Regardless of Cause of Death, by Year: 2000-2019
HIV Mortality

Deaths of Marion County (IN) Residents with HIV as the Underlying Cause of Death, by Year: 2000-2019
HIV Prevalence
Estimated Number of Undiagnosed PLWH/A (2019)

<table>
<thead>
<tr>
<th>HIV/AIDS Prevalence</th>
<th>4,850</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIV Prevalence</td>
<td>2,552</td>
</tr>
<tr>
<td>AIDS Prevalence</td>
<td>2,298</td>
</tr>
<tr>
<td>Undiagnosed/Unaware</td>
<td>725</td>
</tr>
<tr>
<td>Estimated Total PLWH/A</td>
<td>5,575</td>
</tr>
</tbody>
</table>

- Current estimated proportion of PLWH/A while undiagnosed/unaware is 13% of known prevalence\textsuperscript{27}

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>No.</th>
<th>% of HIV in MC</th>
<th>Rate [95% CI*]</th>
<th>RR [95% CI*]: to White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>2,441</td>
<td>50.3%</td>
<td>902 [868-939]</td>
<td>2.9 [2.7-3.1]</td>
</tr>
<tr>
<td>Other</td>
<td>159</td>
<td>3.3%</td>
<td>Approx. 598</td>
<td>Approx. 1.9</td>
</tr>
<tr>
<td>Hispanic</td>
<td>471</td>
<td>9.7%</td>
<td>461 [420-504]</td>
<td>1.5 [1.3-1.6]</td>
</tr>
<tr>
<td>Asian/PI</td>
<td>142</td>
<td>2.9%</td>
<td>409 [344-482]</td>
<td>1.3 [1.1-1.6]</td>
</tr>
<tr>
<td>White</td>
<td>1,637</td>
<td>33.7%</td>
<td>311 [296-327]</td>
<td>1.0</td>
</tr>
</tbody>
</table>

*95% confidence interval

HIV prevalence continues to be higher among racial/ethnic minorities than among Caucasians in MC.

<table>
<thead>
<tr>
<th>Exposure</th>
<th>No.</th>
<th>% of HIV in MC</th>
<th>Rate [95% CI*] per 1000</th>
<th>RR [95% CI*]: to Heterosexual</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSM^</td>
<td>2,663</td>
<td>54.9%</td>
<td>107 [103-111]</td>
<td>87.8 [81.9-94.1]</td>
</tr>
<tr>
<td>Heterosex.</td>
<td>1,136</td>
<td>23.4%</td>
<td>1.2 [1.1-1.3]</td>
<td>1.0</td>
</tr>
<tr>
<td>IDU^</td>
<td>443</td>
<td>9.1%</td>
<td>29 [26-32]</td>
<td>23.7 [21.3-26.5]</td>
</tr>
<tr>
<td>Perinatal</td>
<td>54</td>
<td>1.1%</td>
<td>2.1 [1.6-2.7]</td>
<td>1.7 [1.3-2.2]</td>
</tr>
<tr>
<td>Other</td>
<td>9</td>
<td>0.2%</td>
<td>NS</td>
<td>NS</td>
</tr>
<tr>
<td>Not Rptd.</td>
<td>545</td>
<td>11.2%</td>
<td>0.6[0.52-0.62]</td>
<td>0.47 [0.42-0.52]</td>
</tr>
</tbody>
</table>

^MSM = Male-to-male sexual contact (denominator estimated)5 6 and IDU = Injection drug use (denominator estimated)30 Rows may total more than actual incidence due to report of multiple categories

*95% confidence interval

Based on CDC estimates, as many as 34% of HIV-positive MSM are unaware of their status.8
Continuum of Care & Community Viral Load
HIV Care Continuum Definitions

- **Linked to Care**: People newly diagnosed with HIV during CY 2019 who received a CD4/viral load test within 90 days unless otherwise specified.

- **Retained in Care**: Residents living with HIV/AIDS with 2+ CD4/viral load tests performed at least 3 months apart in CY 2019.

- **Antiretroviral Therapy**: Estimated residents living with HIV/AIDS who received a prescription for antiretroviral therapy in CY 2019.

- **Viral Load Suppression**: Residents living with HIV/AIDS with a CY 2019 viral load result <200 RNA copies/mL.
HIV Care Continuum of Marion County (2019)

- **Linked to Care**: 61.0% (N=133/218)
- **Retained in Care**: 41.8% (N=2029/4850)
- **ART Rx**: 55% - 76%
- **Virally Suppressed**: 55.7% (N=2701/4850)

*Linkage to care within 90 days shown above
Note: There was 46% linkage to care within 30 days
Future Direction

• Ongoing ISDH HIV VL Data Quality Project
• TriYoung CAREWare 6 Project
  • Integrated replacement to RISE
  • Will remove data redundancy between systems
  • Client eligibly module and fiscal management module built on top of CAREWare 6
• EtE Project under Coya Campbell (EtE Manager)
  • Array of activities planned or in progress
  • Filling staff positions
• Working on acquiring additional eHARS tables
Marion County and Indy TGA Information Resources

- http://ryanwhiteindytga.org/resources

Resources

Indianapolis TGA Resources

- Ryan White HIV Services Program Brochure (English)
- Ryan White HIV Services Program Brochure (Spanish)
- Epidemiology of HIV/AIDS in the Indianapolis Transitional Grant Area: 2016
- Epidemiology of HIV in the Indianapolis Transitional Grant Area: 2017
- Epidemiology of HIV in the Indianapolis Transitional Grant Area: 2018
- Annual Viral Load Protocol Report for the Ryan White/HIV Services Program, Indianapolis Transitional Grant Area: CY 2018
Thank You
References

1 U.S. Census Bureau and Marion County Public Health Department. (2017). Marion County Public Health Department estimates based on ARIMA projections calculated using U.S. Census Bureau data.


References


References


References


