HIV/AIDS Epidemiology in Massachusetts

New England HIV Implementation Science Symposium
June 4, 2013
Mystic, Connecticut
Massachusetts HIV/AIDS Epidemic at a Glance

- As of January 1, 2014 a cumulative total of 32,345 individuals have been diagnosed and reported with HIV/AIDS in MA.
  - 19,165 MA residents are living with HIV/AIDS
  - 13,180 MA residents have died
  - An additional 3,162 MA residents living with HIV/AIDS were first diagnosed in another state
  - 694 new diagnoses reported in 2012

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14
Trends in HIV Infection and Death among People Reported with HIV/AIDS by Year: Massachusetts, 2000–2012

Data Source: MDPH HIV/AIDS Surveillance Program; Data as of 1/1/14
People Diagnosed with HIV Infection within the Years 2010–2012 by Massachusetts Health Service Region

- Northeast HSR: 18%
- Southeast HSR: 14%
- Western HSR: 11%
- Central HSR: 9%
- Prison: 3%
- Boston HSR: 30%
- Metro West HSR: 16%

1 Prisons include persons who were diagnosed with HIV/AIDS while in a correctional facility. While prisons are not a region, the prison population is presented separately in this analysis because of its unique service planning needs.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14
Age-Adjusted HIV/AIDS Prevalence Rate per 100,000 Population by Race/Ethnicity: Massachusetts, 1/1/14

Population sizes for rate calculations are based on 2010 population estimates from the MDPH Bureau of Health Information, Statistics, Research and Evaluation; NH= Non-Hispanic, API = Asian/Pacific Islander; Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/14.
Experience of Medical Care

N= 1,004

In medical care
Taking HIV medications
Virally suppressed
Health good to excellent

Top 10 Cities in Massachusetts with the greatest number of HIV infection diagnoses within the years 2010-2012

<table>
<thead>
<tr>
<th>Rank</th>
<th>City</th>
<th>No.</th>
<th>% of Total (N=2010)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Boston</td>
<td>564</td>
<td>28%</td>
</tr>
<tr>
<td>2</td>
<td>Springfield</td>
<td>113</td>
<td>6%</td>
</tr>
<tr>
<td>3</td>
<td>Worcester</td>
<td>91</td>
<td>5%</td>
</tr>
<tr>
<td>4</td>
<td>Brockton</td>
<td>73</td>
<td>4%</td>
</tr>
<tr>
<td>5</td>
<td>Lowell</td>
<td>59</td>
<td>3%</td>
</tr>
<tr>
<td>6</td>
<td>Lawrence</td>
<td>57</td>
<td>3%</td>
</tr>
<tr>
<td>7</td>
<td>Lynn</td>
<td>52</td>
<td>3%</td>
</tr>
<tr>
<td>8</td>
<td>Cambridge</td>
<td>43</td>
<td>2%</td>
</tr>
<tr>
<td>9</td>
<td>New Bedford</td>
<td>41</td>
<td>2%</td>
</tr>
<tr>
<td>10</td>
<td>Holyoke</td>
<td>39</td>
<td>2%</td>
</tr>
</tbody>
</table>

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/14
People diagnosed with HIV infection within the years 2010-2012 in the city of Boston by neighborhood

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/14
MSM diagnosed with HIV infection within the years 2010-2012 by age at diagnosis and race/ethnicity: Massachusetts

Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/14
Estimated¹ Average Annual HIV Diagnosis Rate per 100,000 Population: MSM Compared to non-MSM (males only) Ages 18–64 Years: Massachusetts, 2010–2012

HIV Diagnosis Rate per 100,000

<table>
<thead>
<tr>
<th>Category</th>
<th>Rate per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSM</td>
<td>306.4</td>
</tr>
<tr>
<td>Non-MSM</td>
<td>9.0</td>
</tr>
</tbody>
</table>

¹ Multiple source estimation method for MSM rate (BRFSS, US Census)
NH= Non-Hispanic, Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/14
Current Initiatives

- **HRSA SPNS, Strategic Peer Enhanced Care and Treatment Retention Model (SPECTRuM)**
  - HIV Surveillance data shared with clinical sites
  - Nurse/Peer teams provide intensive client linkage to care supports

- **Acute HIV Infection Response Protocol**
  - State Laboratory Institute (SLI) 4th generation HIV assay has identified 10 confirmed acute infections
  - Disease Intervention Specialists (DIS) provide intensive linkage supports
Thank You

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