Recent successes controlling HIV/AIDS in Massachusetts

Presentation to the Public Health Council

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April 8, 2015
Massachusetts HIV/AIDS Epidemic at a Glance

• As of January 1, 2015 a cumulative total of 33,165 individuals have been diagnosed and reported with HIV/AIDS in MA.
  – 19,737 MA residents are living with HIV/AIDS
  – 13,428 MA residents have died
  – An additional 3,380 MA residents living with HIV/AIDS were first diagnosed in another state

• 698 new diagnoses reported in 2013

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15
Trends in HIV/AIDS Prevalence by Year: Massachusetts, 2000–2013

People Living with HIV/AIDS

Number of Prevalent Cases

Year

Data Source: MDPH HIV/AIDS Surveillance Program; Data as of 1/1/15
Trends in HIV Infection and Death among People Reported with HIV/AIDS by Year: Massachusetts, 2000–2013

Data Source: MDPH HIV/AIDS Surveillance Program; Data as of 1/1/15
People Diagnosed with HIV Infection by Exposure Mode: Massachusetts, 2011–2013

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15
People Diagnosed with HIV Infection by Race/Ethnicity and Year of Diagnosis\(^1\): Massachusetts, 2003–2013

\(^1\) Reflects year of diagnosis for HIV infection among all individuals reported with HIV infection, with or without an AIDS diagnosis.

Data Source: MDPH HIV/AIDS Surveillance Program; NH = Non-Hispanic; Data as of 1/1/15
Trends in Mean First-reported CD4+ T-lymphocyte Counts by Year: Massachusetts, 2000–2013

Data Source: MDPH HIV/AIDS Surveillance Program; Data as of 1/1/15
Age-Adjusted HIV/AIDS Prevalence Rate per 100,000\(^1\) Population by Race/Ethnicity: Massachusetts, January 1, 2015

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Prevalence per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>White NH</td>
<td>139</td>
</tr>
<tr>
<td>Black NH</td>
<td>1,460</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1,011</td>
</tr>
<tr>
<td>API</td>
<td>102</td>
</tr>
<tr>
<td>Total MA</td>
<td>272</td>
</tr>
</tbody>
</table>

\(^1\) Population sizes for rate calculations are based on year 2000 population estimates from the MDPH Center for Health Information, Statistics, Research and Evaluation; NH= Non-Hispanic, API = Asian/Pacific Islander; AI/AN = American Indian/Alaska Native; Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/15
Identified Mother-to-Child Transmission of HIV Infection
By Year of Birth, Massachusetts, 1985-2013

Introduction of anti-viral therapy to prevent perinatal transmission

Promotion of Universal Screening of Pregnant Women

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15
Estimated\(^1\) HIV/AIDS Prevalence Rate per 100,000 Population: MSM Compared to non-MSM (males only) Ages 18–64 Years: Massachusetts, January 1, 2015

\(^1\) Multiple source estimation method for MSM rate (BRFSS, 2010 US Census)

NH= Non-Hispanic, Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/15
Stages of HIV Care Among PLWHA in the United States\(^1\)

- **PLWHA (diagnosed)**: N=1,032,946
- **Engaged in HIV Care**: 40%, N=480,440,542
- **Prescribed ART**: 37%, N=444,407
- **Undetectable VL**: 30%, N=360,330

\(^1\) Adapted from: Gardner et al. *Clin Infect Dis.* 2011; 52:793-800.
Stages of HIV Care Among People Living with HIV/AIDS in Massachusetts

Among those engaged in care, 84% are virally suppressed.

Among those retained in care, 87% are virally suppressed.

- **PLWHA**: N=18,570
- **Engaged in Care**: N=14,021
- **Retained in Care**: N=11,264
- **Virally Suppressed in 2013**: N=11,799

* Lab received by MDPH
1 Includes individuals diagnosed through 2012 and living in MA as of 12/31/13, based on last known address, regardless of state of diagnosis

- Data Source: MDPH HIV/AIDS Surveillance Program, cases reported through 1/1/14, lab data as of 8/27/14
Factors supporting this success

- MA has a supportive social/political context for HIV prevention and care (e.g. support for needle exchange)
- DPH invests its HIV care resources in CHC system
- DPH funds a comprehensive clinic and CBO network; has built strong regional partnerships among providers
- DPH funds integrated system of HIV/STI/viral hepatitis screening and linkage to care programs
- DPH promoted 1115 waiver to expand Medicaid coverage for persons with HIV infection (non-AIDS)
- DPH maximizes the benefits of health care reform and HIV drug assistance resources to promote HIV care
- DPH innovates new uses of surveillance data to improve care
Remaining challenges

- Need to improve upon our reductions in diagnoses and high viral suppression rates
- Persistent patterns of new diagnoses (MSM, communities of color, non-US born)
- Ongoing racial/ethnic disparities in incidence and prevalence of HIV/AIDS
- Remaining pockets individuals out of care
- Co-infection with STDs, viral hepatitis
Acknowledgements

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