HIV in Michigan's Detroit Metro Area
An overview of the epidemic during 2017
All data as of July 1, 2018

Detroit Metro Area (DMA) includes counties Lapeer, Macomb, Monroe, Oakland, St. Clair, and Wayne

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Michigan's HIV Surveillance Program collects, interprets, and disseminates population level data regarding persons living with HIV (PLWH) and persons at risk of contracting the virus. Since 2001, the program has produced semi-annual reports for a wide audience. Beginning in 2016, these reports were overhauled and split into two parts. This report presents the most relevant information using graphical, user-friendly displays. A second report, the "Detroit Metro Area HIV Surveillance Report, New Diagnoses and Prevalence Tables" contains data most commonly requested by agencies and individuals. Due to differences in the underlying dataset, do not compare any numbers or figures to surveillance reports published before 2016. For more on the difference see the "Detroit Metro Area HIV Surveillance Report".

Overview

New Diagnoses: The number of cases newly diagnosed over a given period of time, usually a year. In HIV surveillance new diagnoses do not necessarily represent new infections as newly diagnosed persons may have been infected for many years.

Prevalence: The total number of persons currently living with HIV (PLWH).

Linked to Care: The proportion of newly diagnosed PLWH who have visited a doctor at least eight days after diagnosis (assessed by CD4, viral load, or genotype test).

In Care: The proportion of PLWH who visit a doctor at least once a year (assessed by CD4, viral load, or genotype test).

Community Viral Suppression: The proportion virally suppressed ($\leq 200$ copies/mL) out of all PLWH. Higher levels of community viral suppression reduce HIV transmission.

Viral Suppression Rate: The proportion virally suppressed ($\leq 200$ copies/mL) out of PLWH in care.

HIV Over Time in the Detroit Metro Area

New diagnoses and deaths have leveled off. In general, prevalence continues to rise.

2017
Prevalence: 10,384

Count

12,000
9,000
6,000
3,000
0

1980 1990 2000 2010
The HIV epidemic represented as 100 people. The majority of persons living with HIV (PLWH) are black men and/or gay & bisexual men. Of women living with HIV, the vast majority are black.
In the Detroit Metro Area (DMA), PLWH in care are very likely to be virally suppressed, improving the individual's prognosis and reducing transmission. However, 19% of PLWH in the DMA are not in care (aka unmet need).

Unmet need is not equally distributed among PLWH. In the DMA, Latinos, 0-19 year olds, persons who inject drugs, and foreign born persons consistently have higher rates of unmet need.
Persons living with HIV (PLWH) - Care & Viral Suppression 2007 - 2016

Getting into care is the first step towards achieving viral suppression. Viral suppression is important for the individual (improves prognoses) and for the community as a whole (reduces transmission risk). Viral suppression is on the rise, however it is rapidly approaching the care "ceiling". The care rate is community viral suppression's "ceiling" because a person cannot be suppressed without being in care.

Agencies and strategic programs need to focus on increasing the proportion of PLWH in care. Otherwise, community viral suppression will stagnate.

In Care, 81%
Community Viral Suppression, 69%

In Michigan, persons interviewed by Partner Services (PS) are 1.5 times more likely to be virally suppressed compared to those without a PS interview.

Community viral suppression continues to rise in all age groups. However, younger persons still achieve viral suppression less often (have higher viral loads) than their older peers.

In order for community viral suppression to continue increasing, the proportion of PLWH in care must increase.
The epidemic continues to disproportionately affect the City of Detroit. The City had a diagnosis rate of 34 new cases per 100,000 residents. This rate is nearly four times higher than the rest of Wayne County (9 per 100,000 residents).

Males 20-29 years old carry the heaviest burden of new diagnoses. Black males of every age experience disproportionately high rates of diagnosis.

- **15-19 yr old males**: No new 15-19 yr old Latino males diagnosed
- **20-29 yr old males**: Males 20-29 years old carry the heaviest burden of new diagnoses.
- **30+ yr old males**: Black males of every age experience disproportionately high rates of diagnosis.

*"Population" is the total population of each group. Example: there were 202.9 new diagnoses among 20-29 yr old black males per 100,000 20-29 yr old black male DMA residents.
15 - 29 year old black MSM (YBMSM) is the only group in the DMA (and Michigan) experiencing an increase in new diagnoses.

The number of new diagnoses among YBMSM began increasing in 1999.

The new diagnosis rate among YBMSM grows as Non-YBMSM decline in most counties.
New Diagnoses - Linkage to Care
During 2017

Being linked to care quickly improves prognosis and decreases transmission. It is extremely important for the health of the individual and the prevention of HIV to link newly diagnosed persons to a health care provider as soon as possible.

In 2017, white males had the highest linkage rates.

The proportion of persons linking up with a care provider 30 days after diagnosis continues to slowly improve. The 90 day linkage rate rose quickly last year.