



PREVENT. PROMOTE. PROTECT.



Hamilton County Public Health

Epidemiology and Assessment

HIV Quarterly Report

Alexis Grimes Trotter, MPH, Epidemiologist

New HIV Diagnoses by Month, Hamilton County, Ohio (January 2017-December 2018)

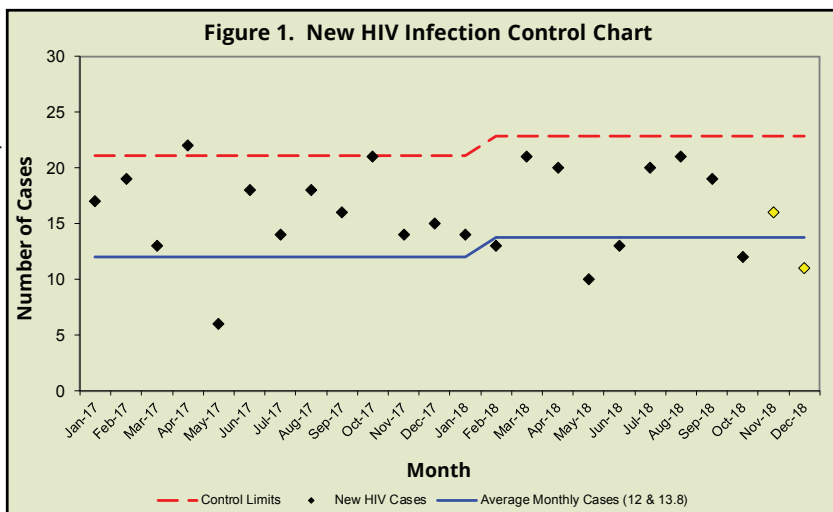
Month	New Cases of HIV 2017	New Cases of HIV 2018
January	17	14
February	19	13
March	13	21
April	22	20
May	6	10
June	18	13
July	14	20
August	18	21
September	16	19
October	21	12
November	14	16
December	15	11
Total	193	190

This report was created as a surveillance effort to help prevent new cases of HIV within Hamilton County. Table 1 displays the breakdown of new HIV cases for Hamilton County residents for January 2017 through December 2018 on a monthly basis. Only HIV cases where the resident was identified as a new HIV infection by a disease investigation specialist were counted for analysis purposes in this report. In 2017, the highest number of cases was seen in April (22 cases). In 2018, the highest number of new HIV cases occurred in March and August (21 cases). The average number of new HIV cases per month was 16.1 and 15.8 for years 2017 and 2018. The 2018 monthly counts may change in future reports, as lag times in disposition of cases directly affect the case counts presented. Some HIV cases are unable to be located for follow-up with partner services, located but refused exam, or other, which these may impact total number of cases. For 2017 and 2018 respectively, there were a total of 2 and 5 cases that were unable to be located and total of 1 and 4 cases had other dispositions.

New HIV cases are derived from partner services data in the Ohio Disease Reporting System and may not fully represent all new HIV infections. These data are provisional and subject to change when additional information is gained. Cases are selected based on address at diagnosis. Source: Ohio Department of Health (ODH), Ohio Disease Reporting System (ODRS). Data reported as of 02/19/2019.

Surveillance of New HIV Cases Diagnosed in Hamilton County, Ohio (January 2017-December 2018)

One way to monitor HIV infections within Hamilton County is through the use of surveillance control charts. Factors that these control charts show are the number of new HIV cases for each month (black diamonds), control limit (red dashed lines), and the average number of cases (solid blue line). Yellow diamonds indicate data that are most likely to change in future reports. Control charts are used to detect unexpected events, such as a single point outside of the control limit, many consecutive points above or below the average line, or two or three consecutive points near a control limit. When anomalies such as these occur, it may be beneficial to examine events surrounding the anomalies in order to devise a strategy to reduce the number of cases in subsequent months or see which strategies already in place are working. Figure 1 illustrates the control chart for new HIV infections from January 2017 to December 2018. All of the monthly counts in this time frame fell below the upper control limit for number of new HIV infections. The average number of cases was calculated from October 2013 to September 2015 (12). There was a recalculation of the average starting February 2018 using data from February 2017 to January 2018 (13.8), in result of 8 consecutive cases above the average line.



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Demographics and Social Factors Associated with High Risk for HIV Infection

Figure 2, below, illustrates the distribution of age among new HIV diagnoses in Hamilton County. From 2014 to 2018, 25-34 year olds made up the largest percentage of cases. Table 2 compares the race, sex, and risk behavior groups for new HIV infections from January 2017 through December 2018. The data reflect confirmed HIV cases designated as newly testing positive and residing in Hamilton County. When race was examined, an increase in the percent of white Hamilton County residents can be seen in 2018 (44.9 percent) compared to 2017 (38.3 percent). A large disparity in the sex of cases was apparent in 2017 and 2018 as males constituted approximately 75% of cases in both years. As Table 2 illustrates, the men who have sex with men (MSM) population accounted for 31.6 percent in 2018, which is a decrease from 2017 at 39.1 percent of new HIV cases. Fifty percent of MSMs newly diagnosed with HIV during 2018 were black Hamilton County residents. Table 2 also illustrates, injection drug use (IDU) population accounted for 21.9 percent and 31.6 percent of new HIV cases in 2017 and 2018 respectively. Over eighty percent of IDUs newly diagnosed with HIV during 2018 were white Hamilton County residents. Understanding these demographics and high-risk factors that contribute most to new HIV infections, is vital in formulating specific and effective prevention strategies.

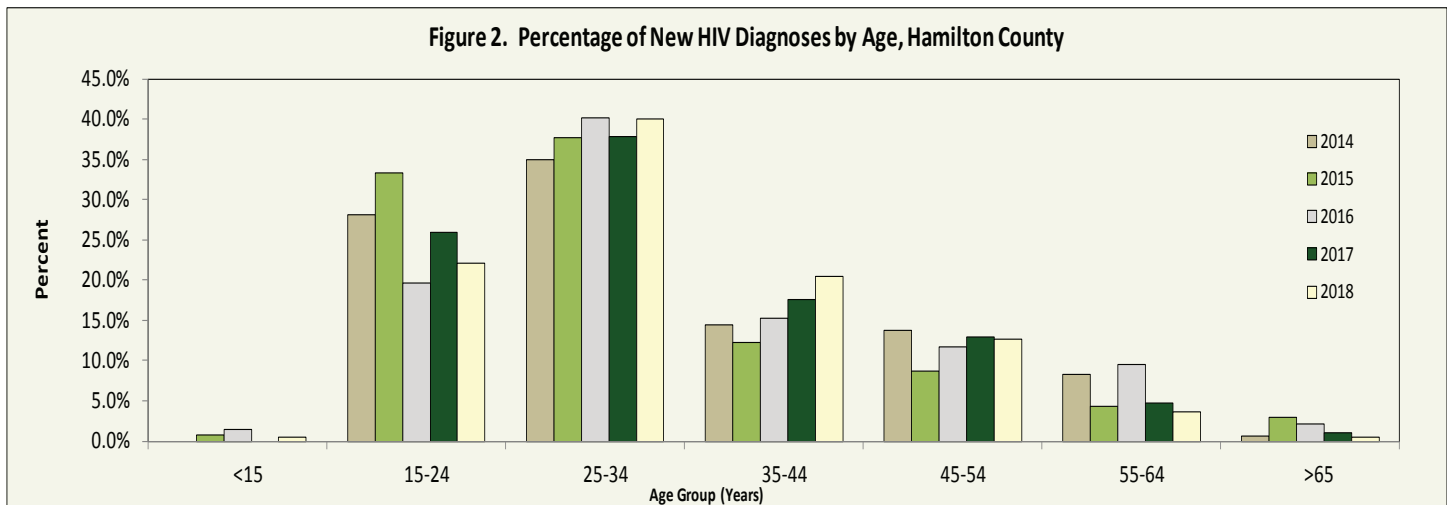


Table 2.	Jan. - Dec. 2017		Jan. - Dec. 2018		Risk Groups	Jan. - Dec. 2017		Jan. - Dec. 2018	
	#	%	#	%		#	%	#	%
Race					Risk Groups				
Black	106	54.9	87	46.5	MSM	75 of 193	38.9	60 of 190	31.6
White	74	38.3	84	44.9	HRH	69 of 193	35.8	78 of 190	41.1
Other	13	6.7	16	8.6	IDU	42 of 193	21.8	60 of 190	31.6
Sex									
Male	144	74.6	139	74.3					
Female	49	25.4	48	25.7					

These data are provisional and subject to change when additional information is gained. New HIV positive cases between January 2017 and December 2018 were used for analysis. Cases were selected based on address at diagnosis. Source: ODH, ODRS. Data reported as of 02/22/2019. Percentages may not total to 100 due to rounding. Percentages are based on availability of data for all cases. High risk heterosexuals (HRH) are residents who are not MSM but participate in risky behaviors such as having sex with men who have sex with men (MSM), HIV+, intravenous drug user (IDU), or anonymous people. HRH status is also determined from factors such as having sex while intoxicated, exchanging sex for drugs, or having previous STIs.

Additional Resources

For additional resources on HIV/AIDS please visit the following websites:

- <https://www.hamiltoncountyhealth.org/services/for-residents/programs/std-and-sti-prevention-and-services/>
- <http://www.cdc.gov/hiv/>
- <https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/hiv-prevention/welcome-to>