

Region 8 HIV Quarterly Report

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#### **HIV Quarterly Report: Region 8**

#### New HIV Diagnoses by Month, Region 8, Ohio (January 2018- December 2019)

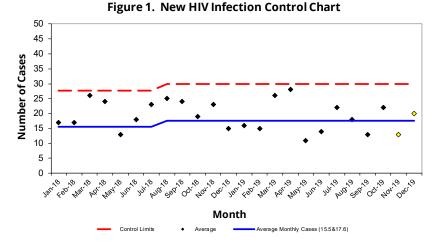
Table 1. Region 8 New HIV Infections					
Month	New Cases of HIV 2018	New Cases of HIV 2019			
January	17	16			
February	17	15			
March	26	26			
April	24	28			
May	13	11			
June	18	14			
July	23	22			
August	25	18			
September	24	13			
October	19	22			
November	23	13			
December	15	20			
Total	244	218			

This report was created as a surveillance effort to help prevent new cases of HIV within Region 8 counties (Brown, Butler, Clermont, Clinton, Hamilton, Highland, Warren). Table 1 displays the breakdown of new HIV cases for Region 8 residents for January 2018 through December 2019 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 2018, the highest number of cases was seen in March (26 cases). In 2019, the highest number of new HIV cases occurred in April (28 cases). The average number of new HIV cases per month was 20.3 and 18.2 for the years 2018 and 2019, respectively. The 2019 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, which may impact total number of cases.

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 8/16/2020.

### Surveillance of New HIV Cases Diagnosed in Region 8, Ohio (January 2018 - December 2019 )

One way to monitor HIV infections within Region 8 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 2018 to December 2019. All of the monthly counts in this time frame fell below the upper control limit for number of new HIV infections. There was a recalculation of the average starting August 2018 using data from February 2016 to January 2018 (17.6), in result of 8 consecutive cases above the average line.

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#### **HIV Quarterly Report: Region 8**



#### **Demographics and Social Factors Associated with High Risk for HIV Infection**

Figure 2, below, illustrates the distribution of age among new HIV diagnoses in Region 8 From 2015 to 2019, 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 2018 through December 2019. The data reflect confirmed HIV cases designated as newly testing positive and residing in Region 8. A large disparity in the sex of cases was apparent in 2018 and 2019 as males constituted over 70% of cases in both years. As Table 2 illustrates, the men who have sex with men (MSM) population accounted for nearly 35 percent of new HIV cases in 2018 and 2019, respectively. Table 2 also illustrates, injection drug use (IDU) population accounted for over 25% of new HIV cases in 2018 and 2019. Understanding these demographics and high-risk factors that contribute most to new HIV infections, is vital in formulating specific and effective prevention strategies.

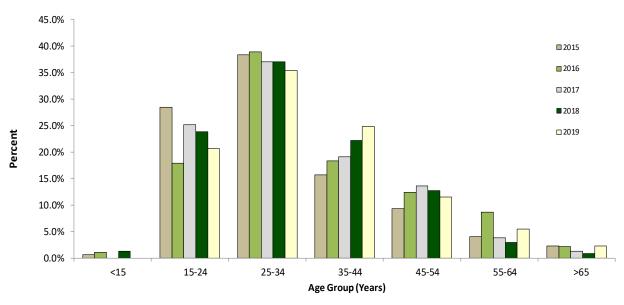


Figure 2. Percentage of New HIV Diagnoses by Age, Region 8, 2015-2019

Table 2. Region 8 HIV Demographics					
	Jan - Dec 2018		Jan - Do	ec 2019	
	#	%	#	%	
Race					
Black	96	39.5%	95	43.6%	
White	124	51.0%	109	50.0%	
Other	23	9.5%	14	6.4%	
Sex					
Male	189	77.8%	156	71.6%	
Female	54	22.2%	62	28.4%	
Risk Groups					
MSM	80	32.8%	74	33.9%	
HRH	83	34.0%	90	41.3%	
IDU	68	27.9%	58	26.6%	

These data are provisional and subject to change when additional information is gained. New HIV positive cases between January 2018 and December 2019 were used for analysis. Cases were selected based on address at diagnosis. Source: ODH, ODRS. Data reported as of 8/16/2020. 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.

# **HIV Quarterly Report: Hamilton County**

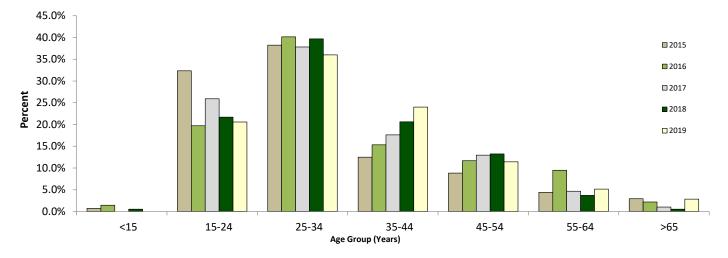
### **Overview of HIV in Hamilton County**

Table 3 displays the breakdown of new HIV cases for Hamilton County residents for January 2018 through December 2019 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. Figure 3, below, illustrates the distribution of age among new HIV diagnoses in Hamilton County. From 2015 to 2019, 25-34 year olds made up the largest percentage of cases. Table 4 compares the race, sex, and risk behavior groups for new HIV infections from January 2018 through December 2019. Table 5 and 6 displays the breakdown of new HIV cases for select counties in Region 8 and the demographic makeup of the newly identified HIV cases.

Table 3. Hamilton County New HIV Infections					
Month	New Cases of HIV 2018	New Cases of HIV 2019			
January	14	11			
February	13	13			
March	21	19			
April	21	22			
May	9	8			
June	13	11			
July	20	21			
August	21	15			
September	18	10			
October	12	17			
November	16	13			
December	11	15			
Total	189	175			

Table 4. Hamilton County HIV Demographics							
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	Jan - Dec 2018		Jan - Dec 2019				
	#	%	#	%			
Race	Race						
Black	85	45.7%	86	49.1%			
White	85	45.7%	78	44.6%			
Other	16	8.6%	11	6.3%			
Sex	Sex						
Male	140	75.3%	119	68.0%			
Female	46	24.7%	56	32.0%			
Risk Groups							
MSM	59	31.2%	55	31.4%			
HRH	77	40.7%	81	46.3%			
IDU	61	32.3%	53	30.3%			

Figure 3. Percentage of New HIV Diagnoses by Age, Hamilton County, 2015-2019





# **Overview of HIV in Select Counties in Region 8**

Table 5. Select Counties in Region 8 New HIV Infections by Quarters, 2018-2019						
	Brown	Butler	Clermont	Clinton	Highland	Warren
2018-Q1	0	7	3	1	2	0
2018-Q2	0	4	5	1	1	0
2018-Q3	0	8	1	2	0	2
2018-Q4	0	13	2	1	0	3
2019-Q1	0	8	2	1	0	3
2019-Q2	1	4	5	0	1	1
2019-Q3	0	4	3	0	0	7
2019-Q4	0	5	1	1	1	2

Table 6. Select Counties in Region 8 New HIV Demographics						
	Jan - Dec 2018		Jan - Dec 2019			
	#	%	#	%		
Race						
Black	11	19.6%	9	20.9%		
White	39	69.6%	31	72.1%		
Other	6	10.7%	3	7.0%		
Sex	Sex					
Male	49	87.5%	37	86.0%		
Female	7	12.5%	6	14.0%		
Risk Group						
MSM	21	37.5%	19	44.2%		
HRH	6	10.7%	9	20.9%		
IDU	7	12.5%	5	11.6%		

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