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# Region 8 HIV Quarterly Report

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

#### New HIV Diagnoses by Month, Region 8, Ohio (January 2020 - September 2021)

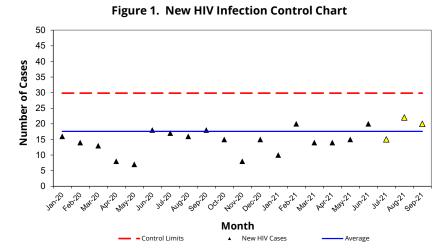
Table 1. Region 8 New HIV Infections					
Month	New Cases of HIV 2020	New Cases of HIV 2021			
January	16	10			
February	14	20			
March	13	14			
April	8	14			
May	7	15			
June	18	20			
July	17	15			
August	16	22			
September	18	20			
October	15	0			
November	8	0			
December	15	0			
Total	165	150			

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 2020 through September 2021 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 2020, the highest number of cases were seen in June and September (18 cases). In 2021, the highest number of new HIV cases occurred in August (22 cases). The average number of new HIV cases per month was 13.8 and 16.7 for the years 2020 and 2021, respectively. The 2021 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 10/26/2021.

#### Surveillance of New HIV Cases Diagnosed in Region 8, Ohio (January 2020 - September 2021)

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 triangles), control limits (red dashed lines), and the average number of cases (solid blue line). Yellow triangles indicate data that is 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 2020 to September 2021. All of the monthly counts in this time frame fell below the control limits for number of new HIV infections.

New HIV cases are derived from partner services data in the Ohio Disease Reporting System and may not fully represent all new cases of HIV. These data are provisional and subject to change when additional information is gained. Cases are selected based on address at diagnosis. Source: ODH, ODRS. Data reported as of 10/26/2021.

#### **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 2017 to 2021, 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 2020 through September 2021. The data reflects confirmed HIV cases designated as newly testing positive and residing in Region 8. A large disparity in the sex of cases was apparent in 2020 and 2021 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 over 30 percent of new HIV cases in 2020 and 2021, respectively. Table 2 also illustrates, injection drug use (IDU) population accounted for over 25% of new cases in 2021. Understanding these demographics and high-risk factors that contribute most to new HIV infections, is vital in formulating specific and effective prevention strategies.

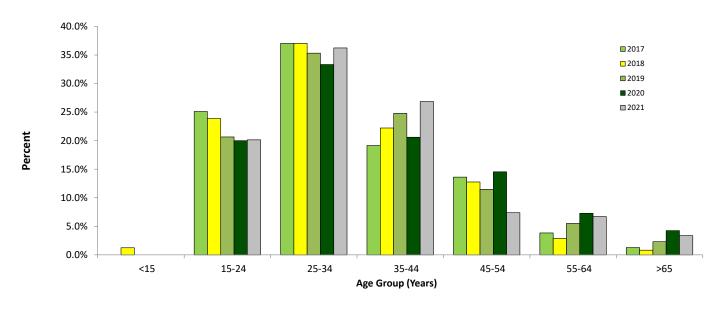


Figure 2. Percentage of New HIV Diagnoses by Age, Region 8, 2017-2021

Table 2. Region 8 HIV Demographics					
	Jan - Dec 2020		Jan - Se	pt 2021	
	#	%	#	%	
Race					
Black	79	47.9%	65	43.6%	
White	66	40.0%	64	43.0%	
Other	20	12.1%	20	13.4%	
Sex					
Male	125	75.8%	107	71.8%	
Female	40	24.2%	42	28.2%	
Risk Groups					
MSM	64	38.8%	48	32.0%	
HRH	45	27.3%	36	24.0%	
IDU	19	11.5%	38	25.3%	

These data are provisional and subject to change when additional information is gained. New HIV positive cases between January 2020 and September 2021 were used for analysis. Cases were selected based on address at diagnosis. Source: ODH, ODRS. Data reported as of 10/26/2021. 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**

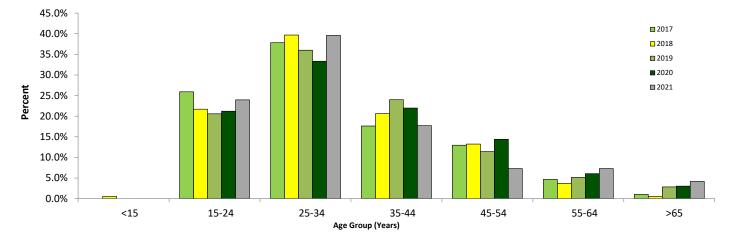
#### **Overview of HIV in Hamilton County**

Table 3 displays the breakdown of new HIV cases for Hamilton County residents for January 2020 through September 2021 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 2017 to 2021, 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 2020 through September 2021. 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 2020	New Cases of HIV 2021			
January	13	7			
February	12	18			
March	9	10			
April	8	12			
May	7	9			
June	13	12			
July	11	5			
August	13	10			
September	16	13			
October	11	0			
November	7	0			
December	12	0			
Total	132	96			

Table 4. Hamilton County HIV Demographics							
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	Jan - Dec 2020		Jan - Sept 2021				
	#	%	#	%			
Race							
Black	73	55.3%	57	59.4%			
White	44	33.3%	22	22.9%			
Other	15	11.4%	17	17.7%			
Sex	Sex						
Male	101	76.5%	72	75.0%			
Female	31	23.5%	24	25.0%			
Risk Groups							
MSM	50	37.9%	28	41.8%			
HRH	38	28.8%	13	19.4%			
IDU	16	12.1%	7	10.4%			

Figure 3. Percentage of New HIV Diagnoses by Age, Hamilton County, 2017-2021





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

Table 5. Select Counties in Region 8 New HIV Infections by Quarters, 2020-2021						
	Brown	Butler	Clermont	Clinton	Highland	Warren
2020-Q1	0	5	2	0	0	2
2020-Q2	0	2	2	0	0	1
2020-Q3	0	5	1	0	1	4
2020-Q4	0	3	1	1	1	1
2021-Q1	0	7	0	1	0	1
2021-Q2	0	16	0	0	0	0
2021-Q3	1	24	4	0	0	0
2021-Q4	0	0	0	0	0	0

Table 6. Select Counties in Region 8 New HIV Demographics						
	Jan - Dec 2020		Jan - Sept 2021			
	#	%	#	%		
Race						
Black	6	18.2%	8	15.1%		
White	22	66.7%	42	79.2%		
Other	5	15.2%	3	5.7%		
Sex	Sex					
Male	24	72.7%	35	66.0%		
Female	9	27.3%	18	34.0%		
Risk Group						
MSM	14	42.4%	10	18.5%		
HRH	7	21.2%	17	31.5%		
IDU	3	9.1%	30	55.6%		

New HIV cases are derived from partner services data in the Ohio Disease Reporting System and may not fully represent all new cases of HIV. These data are provisional and subject to change when additional information is gained. Cases are selected based on address at diagnosis. Source: ODH, ODRS. Data reported as of 10/26/2021.