

HIV IN OHIO

REGION 3



Department
of Health

**HIV/AIDS Integrated
Epidemiologic Profile
for Ohio, Region 3**

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DIAGNOSE • TREAT • PREVENT • RESPOND

Ohio HIV Prevention Regions



Region 3:

Ashtabula County
Cuyahoga County
Gauga County
Lake County
Lorain County
Medina County

Acknowledgments

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Executive Summary

Diagnose all people with HIV as early as possible

Population: In 2021, according to the U.S. Census Bureau, Region 3 had a population of 2,172,999, 51% of which was female, and 49% of which was male.

Reported new diagnoses of HIV infection: In 2021, there were 202 new reported diagnoses of HIV infection in Region 3. Eighty-six percent of the new reported diagnoses of HIV in Region 3 in 2021 were among males, and 57% were among persons aged 20-34 years. Sixty-six percent were among Black/African American people, while 20% were among white people. Among males, the leading mode of transmission was male-to-male sexual contact, and among females, the leading mode of transmission was heterosexual contact.

Coinfection: Six percent (n=14) of the 223 persons residing in Region 3 who were diagnosed with HIV in 2020 were also diagnosed with chlamydia within 30 days of their HIV diagnosis. Six percent (n=13) were diagnosed with gonorrhea within 30 days of their HIV diagnosis, and 13% (n=29) were diagnosed with syphilis within 30 days of their HIV diagnosis. Two percent (n=4) of the 223 persons residing in Region 3 who were diagnosed with HIV in 2020 were also diagnosed with hepatitis C in 2020.

HIV testing: In Region 3 in 2020, 39.4% of adults (age 18 and older) reported having ever been tested for HIV, compared with 34% of adults in Ohio.

Social determinants of health: Of Region 3's population with income in the past 12 months, 13.9% was below the federal poverty level (FPL). In 2021, this equated to \$12,880 for families/households with one person, with an additional \$4,540 allowed for each additional person in the family/household.

Treat people with HIV rapidly and effectively to reach sustained viral suppression

Prevalence: Persons living with diagnosed HIV infection: As of the end of 2021, there were 6,133 persons living with diagnosed HIV infection in Region 3. Eighty percent of persons living with diagnosed HIV infection are males. Those who are aged 55-64 years have the highest number of persons living with diagnosed HIV in Region 3, compared to other age groups. Black/African American people make up 52% and white people make up 30% of persons living with diagnosed HIV infection. The rate for Black/African American people was more than six times as high as that for white people.

Ryan White Program: The Ryan White Part A Program funds medical and support services in Eligible Metropolitan Areas (EMAs) and Transitional Grant Areas (TGAs). EMAs and TGAs are counties/cities that are the most severely affected by the HIV/AIDS epidemic. The boundaries of EMAs and TGAs are based on the U.S. Census designation of Metropolitan Statistical Areas and may span more than one state. Cleveland, Ohio and Columbus, Ohio qualify for TGA status and are recipients of Ryan White Part A funds.

The Ryan White Part B Program administers funds for states and territories to improve the quality, availability, and organization of HIV health care and support services. Recipients include all 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and the six U.S. Pacific territories/associated jurisdictions. ODH is a recipient of Ryan White Part B funds. In addition, Part B also includes grants for the Ohio AIDS Drug Assistance Program (OHDAP),

which enrolled 1,761 people in Region 3 in 2020.

Linkage to care and continuum of care: Eighty-five percent of adults/adolescents diagnosed with HIV infection in Region 3 in 2020 were linked to care within 30 days of diagnosis, compared with 84% in 2019. Of the persons living with diagnosed HIV in Region 3 at the end of 2020, 72% received care, 48% were retained in care, and 63% were virally suppressed (i.e., viral load \leq 200 copies/mL).

Prevent new HIV transmissions by using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs)

Pre-Exposure Prophylaxis: From 2017 to 2021, PrEP users in Region 3 increased from 759 (35.2 per 100,000) to 1,622 (74.6 per 100,000). In Ohio, the PrEP utilization rate was 88 per 100,000 in 2021.

Syringe Services Programs: There is at least one syringe services program (SSP) in each of the 11 HIV Prevention regions in Ohio. Ohio law gives communities the authority to pursue and operate SSPs (referred to in the law as a “bloodborne infectious disease prevention program”) through their local board of health following a prescribed process and operating requirements.

Respond quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them

Time-space reports: Time-space analyses are conducted to monitor potential outbreaks of HIV. The number of new diagnoses is closely monitored to detect any potential increases in Region 3 and in particular populations in Region 3.

Questions or comments: Questions and/or comments about this report should be directed to the Ohio Department of Health (ODH) HIV Surveillance Program. Additional HIV surveillance data and reports are available on the ODH website:

<https://odh.ohio.gov/wps/portal/gov/odh/know-our-programs/hiv-aids-surveillance-program>.

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Explanation of Terms

New diagnoses of HIV infection: The term *diagnosis of human immunodeficiency virus (HIV) infection* is defined as a diagnosis of HIV infection, regardless of the stage of disease (stage 0, 1, 2, 3 [acquired immunodeficiency syndrome (AIDS)], or unknown) at the time of initial diagnosis, and refers to all persons diagnosed with HIV infection in Ohio, in a given year. New diagnoses of HIV infection do not necessarily represent all new infections (i.e., incidence or stage 0) as some individuals were infected recently, while others were infected at some time in the past but were unaware of their HIV status.

Coinfection: A match was performed with HIV and Sexually Transmitted Infections (STI) data to determine the number of persons residing in Ohio who were diagnosed with HIV and STIs in 2020, where coinfection was defined as having a STI diagnosis +/- 30 days from the HIV diagnosis. A match was performed with HIV and Hepatitis data to determine the number of persons residing in Ohio who were diagnosed with HIV and Hepatitis C from 2014 to 2020, where coinfection was defined as having a Hepatitis C diagnosis and HIV diagnosis in 2020.

Persons living with diagnosed HIV infection: The term *persons living with diagnosed HIV infection* (i.e., prevalence) represents all persons ever reported with an HIV infection in Ohio, regardless of stage of infection, who are not known to have died by the end of a calendar year. Some persons currently living with diagnosed HIV infection in Ohio received their HIV infection diagnosis while living outside of or prior to moving to Ohio.

Rates: Throughout this report, rates are presented to provide different measures of HIV disease burden. Disease rates account for differences in population size across demographic groups and geographic areas. All rates are presented per 100,000 population and are calculated using U.S. Census estimates. Rates are not calculated for case counts fewer than five due to unstable rates.

Sex at Birth and Gender: Sex refers to the biological sex the person was assigned at birth (male or female). Transgender is a term used to describe persons whose current gender identity is different than their sex (male or female) assigned at birth. Gender identity is used to describe a person's internal experience of their own gender.

Age: Age in years at the time of diagnosis is used when displaying newly reported diagnoses of HIV infection by age group. Age in years at the end of the calendar year (current age) is used when displaying persons living with diagnosed HIV infection by age group.

Race/Ethnicity: Except where noted, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; White; and Multi-Race. Persons of Hispanic/Latino descent may be of any race. Persons with a race of American Indian/Alaska Native, Asian/Pacific Islander, Black/African American, white, or multi-race are not Hispanic. Asian/Pacific Islander includes Native Hawaiians.

Transmission Category: Transmission categories are mutually exclusive, hierarchical risk categories determined by the CDC and system-calculated using sex at birth and risk factor history to determine mode of transmission. Transgender women are included in the male-to-male sexual contact transmission category if assigned male at birth, and risk factor history indicates sex with males. *Please note this is for the categorization of HIV transmission categories only and not to describe sexual orientation.*

Abbreviations

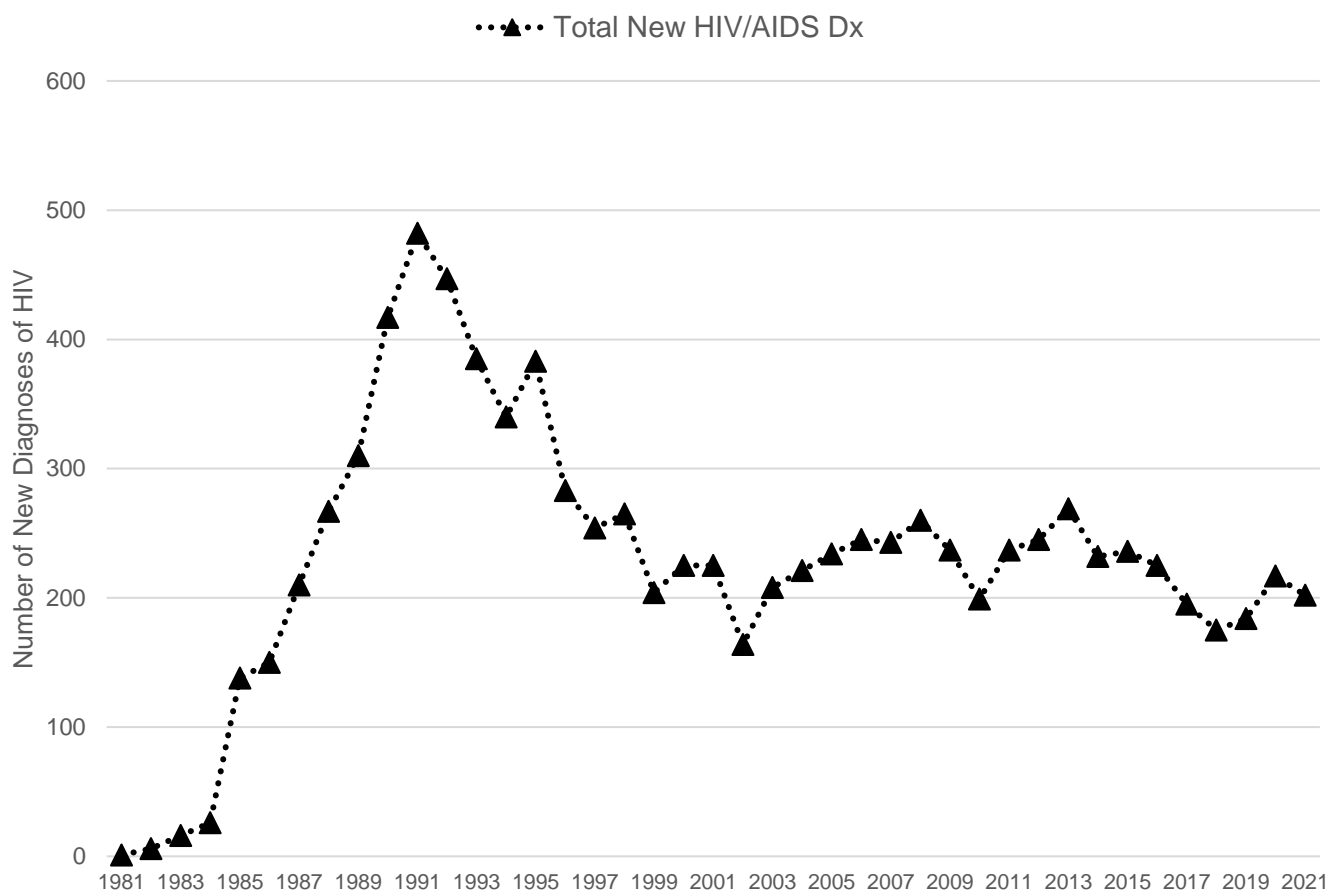
AIDS	Acquired Immunodeficiency Syndrome
ART	Anti-Retroviral Therapy
BRFSS	Behavioral Risk Factor Surveillance System
CDC	Centers for Disease Control and Prevention
EIS	Early Intervention Services
ELR	Electronic Laboratory Reporting
FPL	Federal Poverty Level
HAART	Highly Active Antiretroviral Therapy
eHARS	enhanced HIV/AIDS Reporting System
HIV	Human Immunodeficiency Virus
HRSA	Health Resources and Services Administration
IDU	Injection Drug Use
MSM	Men who have Sex with Men
OHDAP	Ohio HIV Drug Assistance Program
PLWA	People Living with AIDS
PLWHA	People Living with HIV/AIDS
PLWH	People Living with HIV (Not AIDS)
PREP	Pre-Exposure Prophylaxis
PWID	Persons Who Inject Drugs
STI	Sexually Transmitted Infection

Introduction

Background

The HIV/AIDS Integrated Epidemiologic Profile for Region 3 provides a detailed description of HIV/AIDS in Region 3 for public health programs funded to provide prevention, care services and surveillance. It is primarily based upon data collected and analyzed as part of HIV case surveillance activities conducted by the Ohio Department of Health (ODH), but also includes secondary sources of data collected and analyzed by other ODH programs, including the Ryan White Part B HIV Care Services Program. This profile can help inform HIV prevention and care planning initiatives at the regional level. This report describes Region 3's general population characteristics, persons with diagnosed HIV infections in Region 3, persons at risk for HIV infection in Region 3, as well as care service utilization patterns among HIV-infected persons in Region 3. The data presented in this report are used to support and help guide HIV prevention and care service efforts, support funding requests for HIV prevention and care service programs in Region 3, and evaluate associated HIV program(s) and related policies in Region 3.

Figure 1: New reported diagnoses of HIV, Region 3, 1981-2021



Notes:

Total new HIV diagnoses include persons with a diagnosis of HIV, a diagnosis of HIV and an AIDS diagnosis within 12 months, and concurrent diagnoses of HIV and AIDS.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

The information included in this report aligns with two key strategic plans to end the HIV Epidemic – the [HIV National Strategic Strategy](#), and the [End the HIV Epidemic initiative](#).

The HIV National Strategic Plan focuses on four goals:

- 1) Prevent new HIV infections,
- 2) Improve HIV-related health outcomes of people with HIV,
- 3) Reduce HIV-related disparities and health inequities, and
- 4) Achieve integrated and coordinated efforts that address the HIV epidemic among all partners and stakeholders.

The End the HIV Epidemic initiative focuses on four pillars:

- 1) Diagnose,
- 2) Treat,
- 3) Prevent, and
- 4) Respond.

Organization of this Report

The Epidemiologic Profile is organized into four sections:

1) Diagnose all people with HIV as early as possible

- Description of Region 3's population: includes tables, figures, and narrative about the general population of Region 3.
- Reported new diagnoses includes tables, figures, and narrative about diagnoses of HIV infection in Region 3.
- Sexually Transmitted Infections (STI) and HIV coinfection: includes narrative about coinfections of HIV and Chlamydia, Gonorrhea, and Syphilis in Region 3.
- Hepatitis and HIV coinfection: includes narrative about coinfections of HIV and Hepatitis in Region 3.
- HIV testing: includes tables, figures, and narrative about persons ever tested for HIV.
- Social determinants of health: includes tables, figures, and narrative about the social determinants of health among the general population, and persons diagnosed with HIV infection in Region 3.

2) Treat people with HIV rapidly and effectively to reach sustained viral suppression

- Prevalence: includes tables, figures, and narratives about persons living with diagnosed HIV infection in Region 3.
- Ohio AIDS Drug Assistance Program (OHDAP) utilization: includes tables, figures, and narrative about persons receiving assistance for HIV treatment through the Ryan White Part B program in Region 3.
- Linkage to care and continuum of care: includes tables, figures, and narrative describing the continuum of HIV care in Region 3.

3) Prevent new HIV transmissions by using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs)

- PrEP: includes tables and narratives about PrEP utilization in Region 3.
- SSPs: includes narrative about SSPs in Region 3.

4) Respond quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them

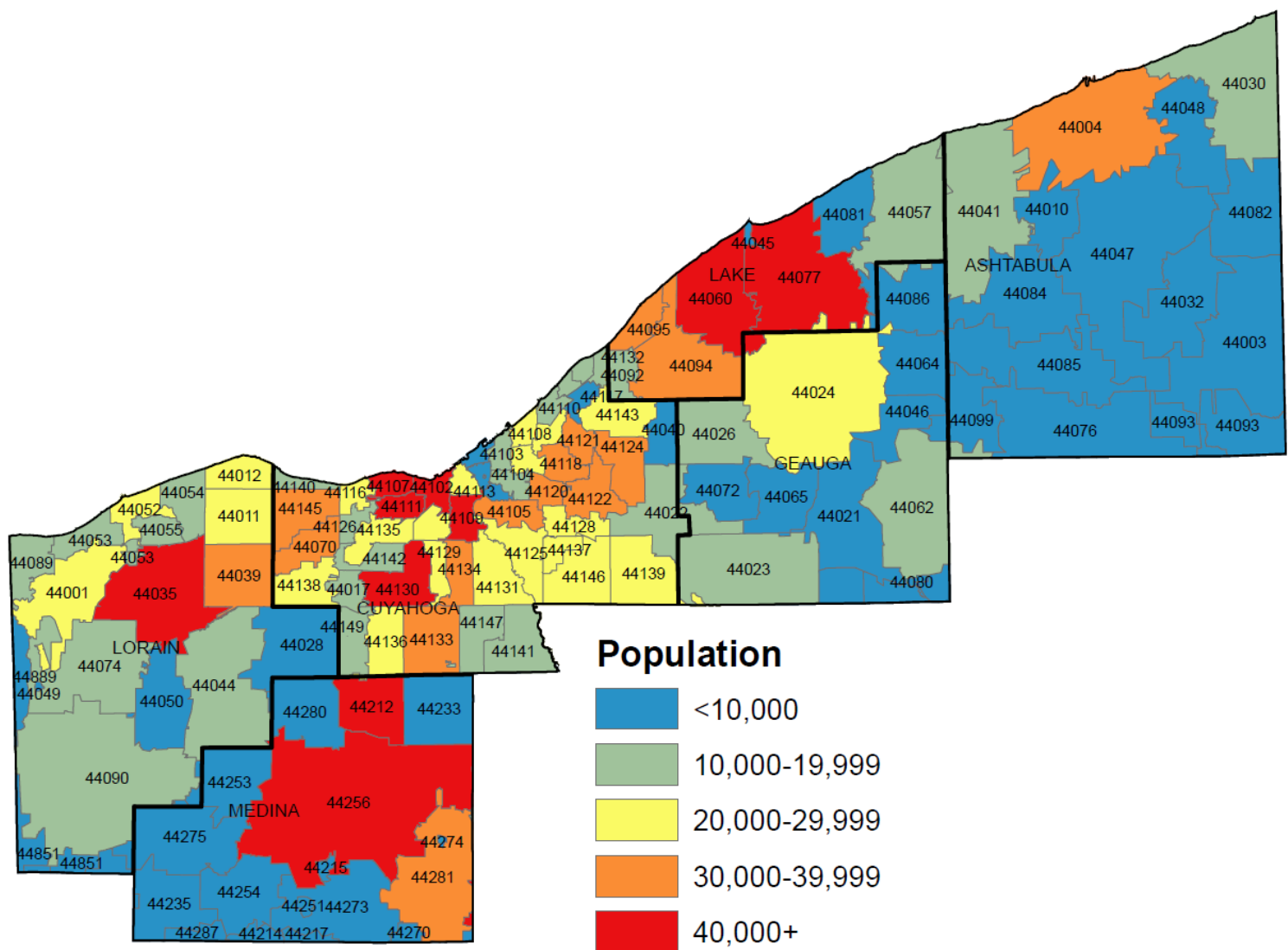
- Time-space analysis: includes tables and narratives about time-space analyses conducted to detect and monitor potential outbreaks of HIV.

DIAGNOSE: Diagnose all people with HIV as early as possible

Description of Region 3's Population

In 2021, Region 3 had a population of 2,172,999. The proportion of females (51%) is slightly higher than the proportion of males (49%). Twenty-nine percent of Region 3's population is less than 25 years of age, while 37% is between the ages of 25 and 54 years. Seventy percent of Region 3's residents are white, 19% are black/African American, 6% are Hispanic/Latino, 3% are Asian/Pacific Islanders, and 2% are multi-racial. American Indian/Alaska Natives comprise less than 1% of Region 3's population.

Figure 2: Population by ZIP Code, Region 3, 2021

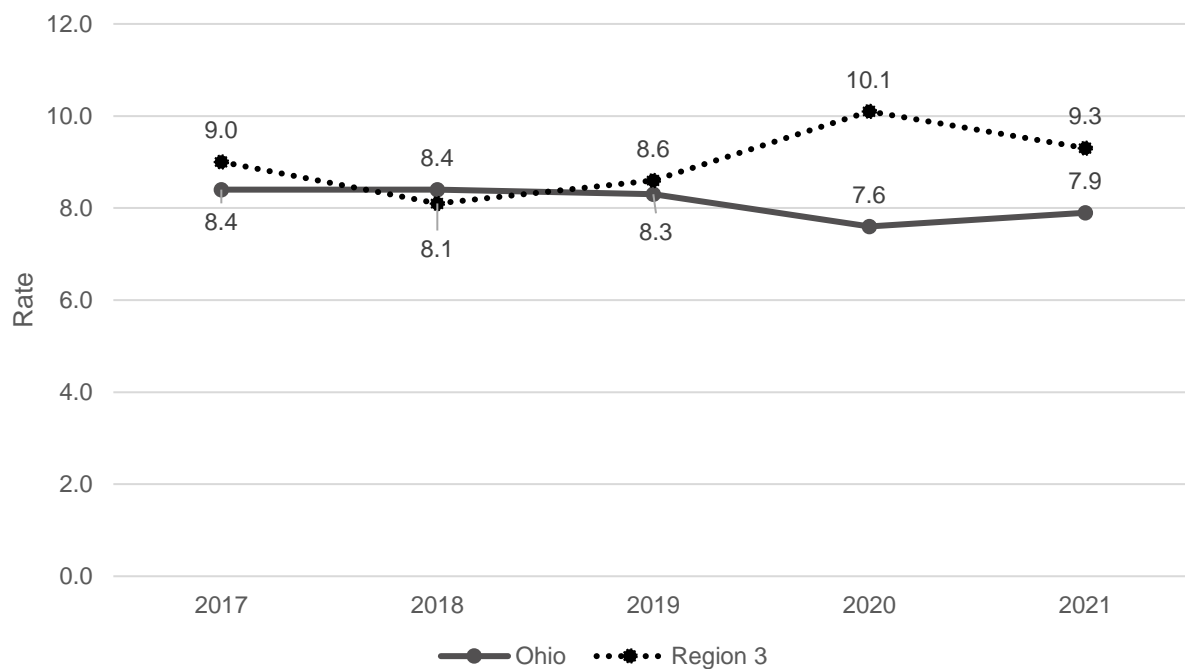


Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates

Reported New Diagnoses of HIV Infection

There were 202 reported new diagnoses of HIV infection in Region 3 in 2021, which equates to a rate of 9.3 individuals per 100,000 population. This represents a slight increase since 2017, when there were 195 new reported diagnoses of HIV infection in Region 3. It is unknown whether the COVID-19 pandemic may have affected the diagnosis and reporting of new cases in 2020. **Consequently, a decrease in newly reported diagnoses of HIV in 2020 may not represent a true decline.** In 2021, the rate of reported new diagnoses of HIV in Ohio was 7.7 per 100,000 population.

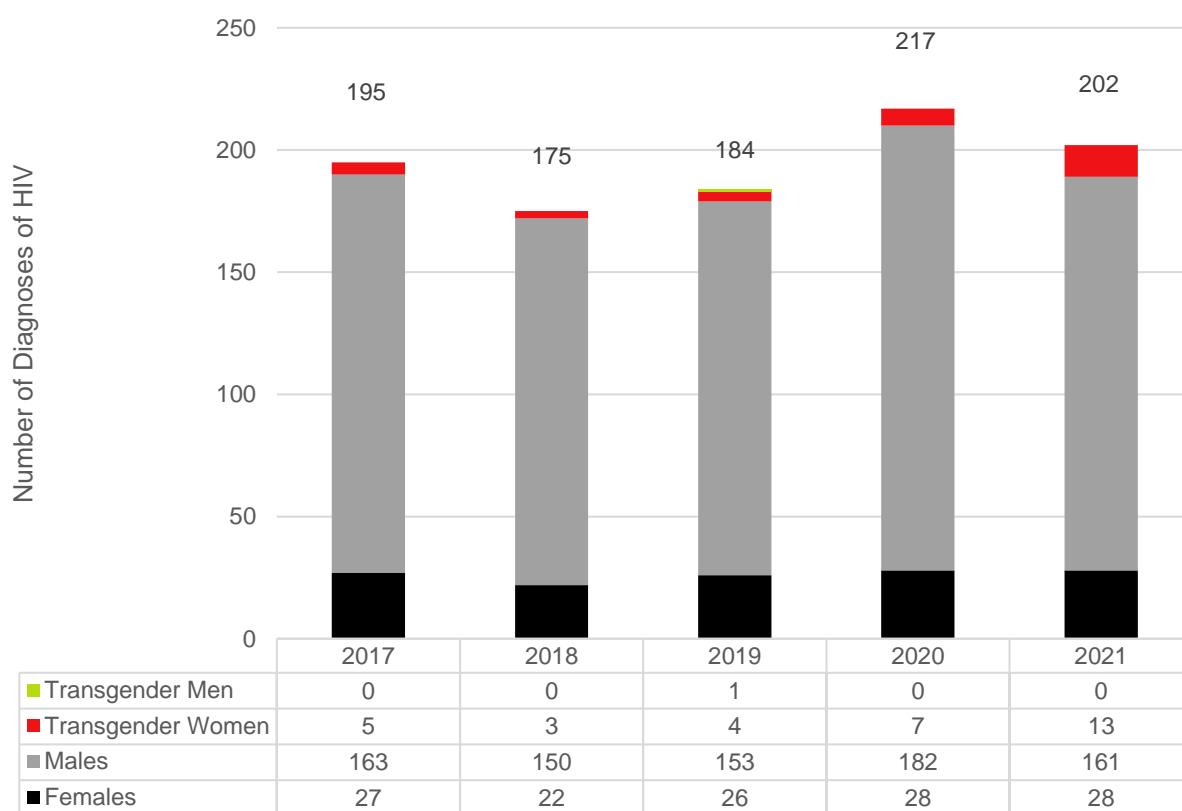
Figure 3: Trends in reported new diagnoses of HIV infection, Region 3 and Ohio, 2017-2021



Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Current gender: The majority of diagnoses of HIV infection were, and continue to be, among males. In each of the past five years, males accounted for 80-86% of diagnoses. In 2021, the rate for males (16.4), was more than six times as high as that for females (2.5).

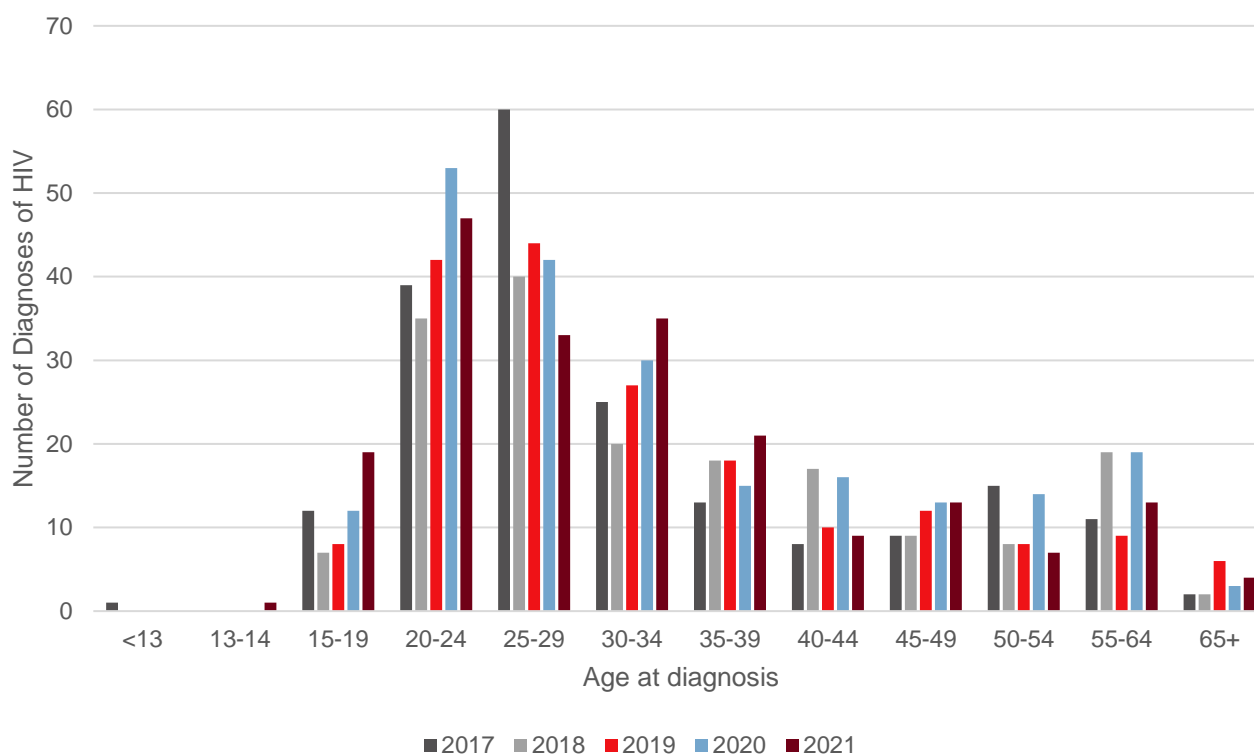
Figure 4: Trends in reported new diagnoses of HIV infection by current gender, Region 3, 2017-2021



Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Age at diagnosis: Over half (57%) of all diagnosed HIV infections reported in Region 3 in 2021 occurred among persons 20-34 years of age (n=115). The rate of diagnosed HIV infections was highest among persons 20-24 years of age (36.8), followed by those 30-34 years of age (24.6).

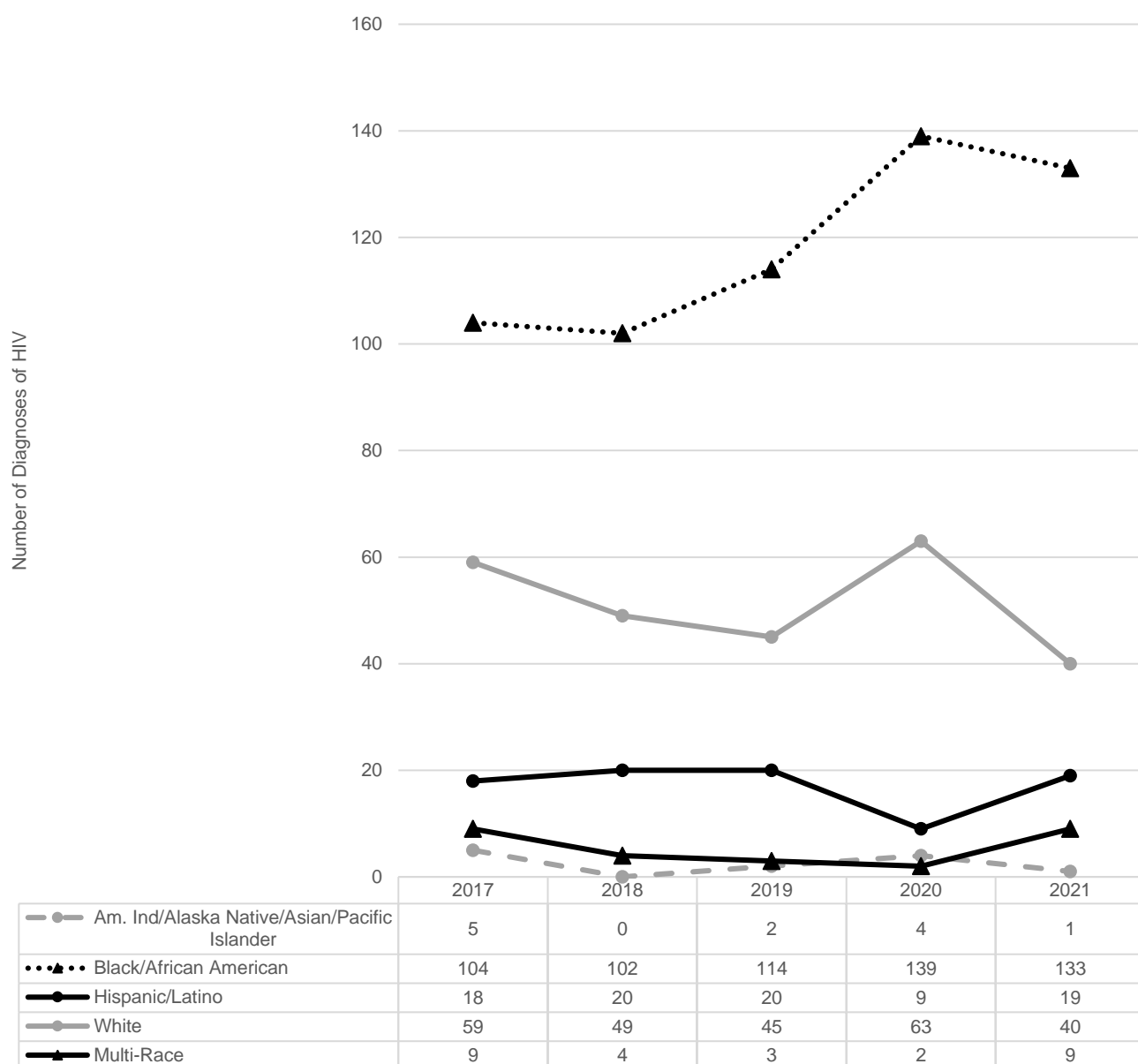
Figure 5: Trends in reported new diagnoses of HIV infection by age at diagnosis, Region 3, 2017-2021



Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

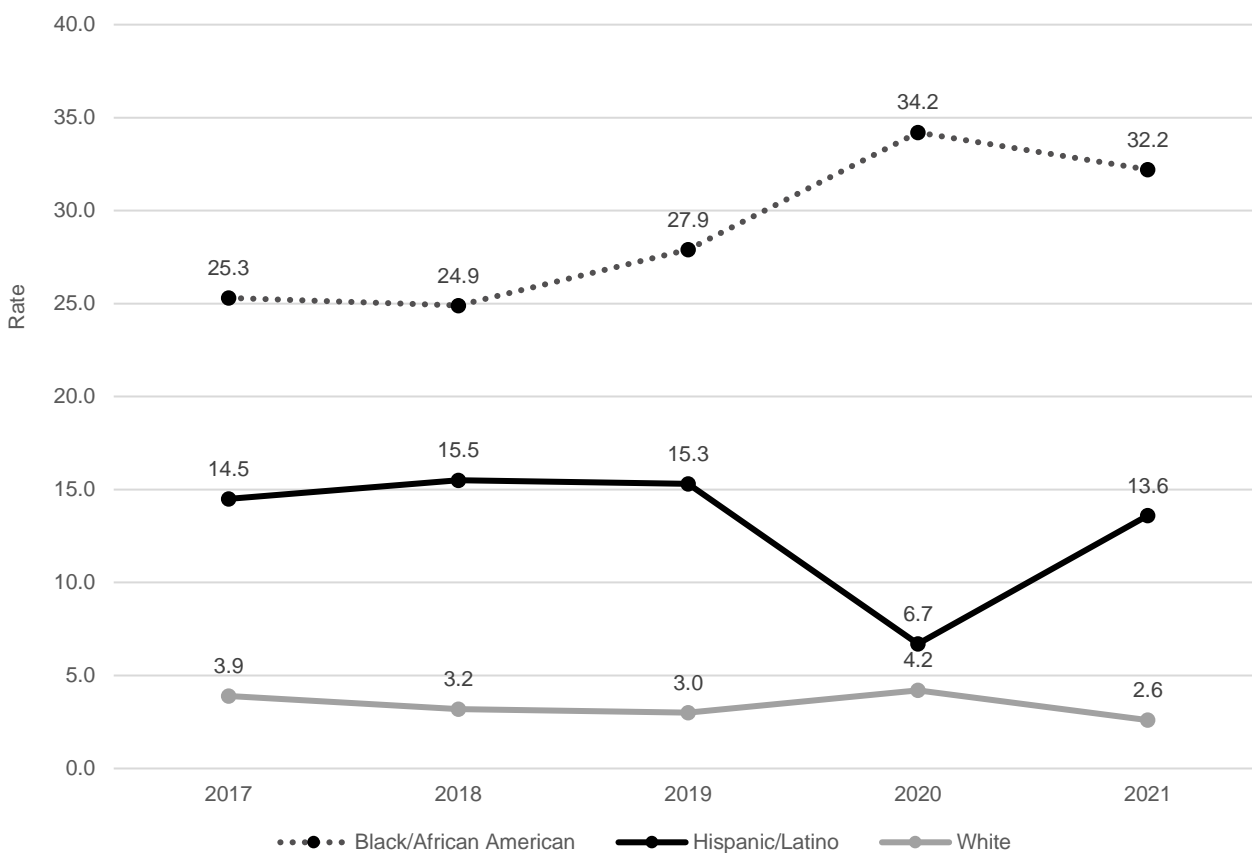
Race/ethnicity: In 2021, Black/African American people accounted for 66% of all reported new diagnoses of HIV in Region 3. This was followed by white people (20%) and Hispanic/Latino people (9%). Region 3's Black/African American and Hispanic/Latino populations continue to be disproportionately impacted by HIV compared to other race/ethnicity groups. The rate of diagnoses among Black/African American people was more than 12 times higher than that for white people, and the rate in Hispanic/Latino people was more than five times as high, as that for white people.

Figure 6: Trends in reported new diagnoses of HIV infection by race/ethnicity, Region 3, 2017-2021



Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

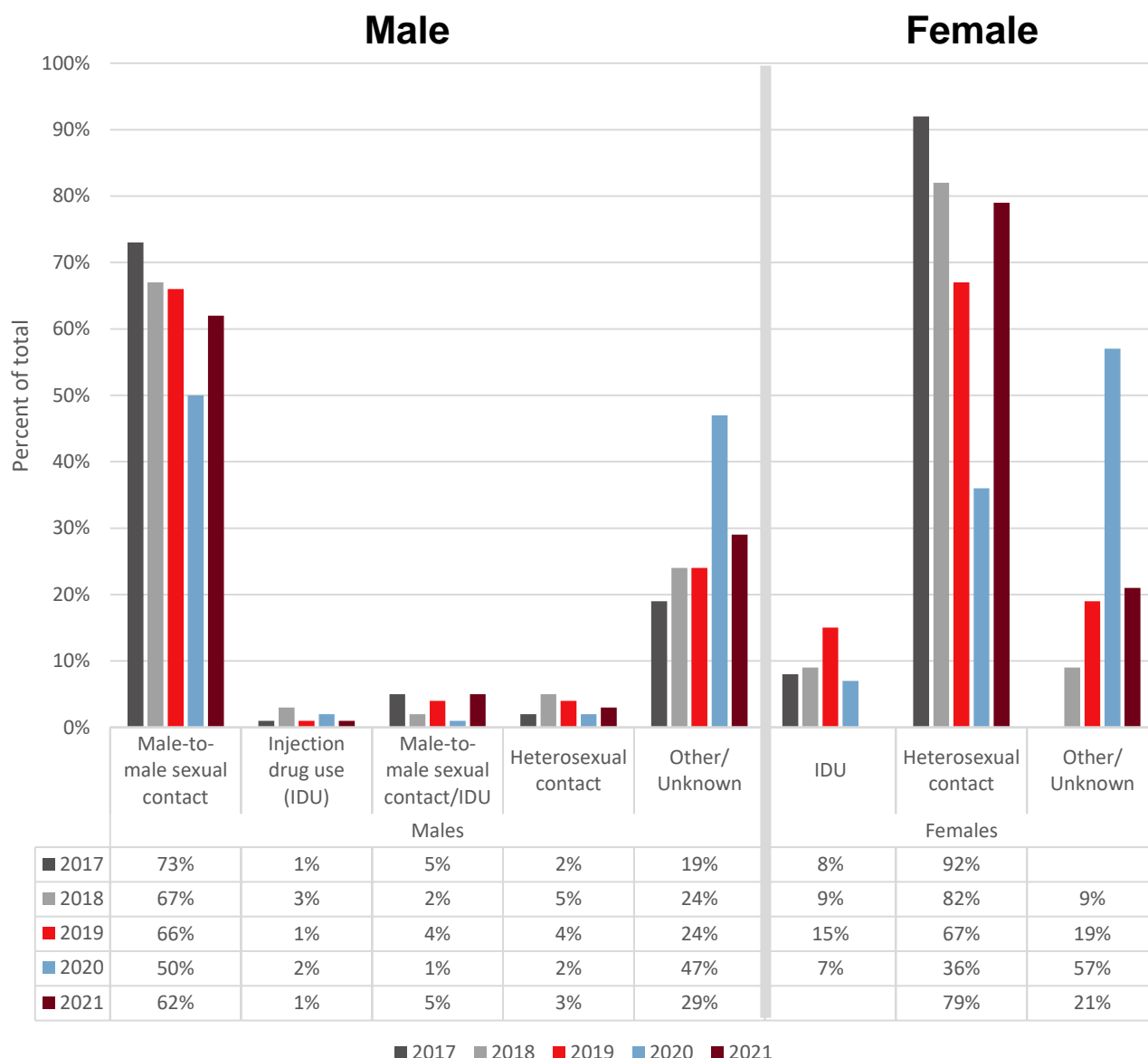
Figure 7: Trends in rates of reported new diagnoses of HIV infection by selected race/ethnicity, Region 3, 2017-2021



Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Transmission and exposure categories: A transmission category is assigned to a hierarchy based on risks, with the highest category being the most likely route of HIV transmission. Male-to-male sexual contact (53%) was the leading mode of transmission reported among all persons diagnosed with an HIV infection in Region 3 in 2021. Injection drug use (IDU) accounted for <1%, male-to-male sexual contact/IDU accounted for 4%, heterosexual contact accounted for 14%, and the transmission category was unknown for 28% of persons diagnosed with HIV infection in 2021.

Figure 8: Trends in percentage of reported new diagnoses of HIV infection by transmission, Region 3, 2017-2021



Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 1: Trends in reported new diagnoses of HIV infection by selected characteristics, Region 3, 2017-2021

Characteristic	Diagnoses of HIV Infection by Year														
	2017			2018			2019			2020			2021		
	Rate ^a	No.	%	Rate ^a	No.	%	Rate ^a	No.	%	Rate ^a	No.	%	Rate ^a	No.	%
Sex at birth															
Males	16.1	168	86%	14.7	153	87%	15.1	157	85%	18.2	189	87%	16.4	174	86%
Females	2.4	27	14%	2.0	22	13%	2.4	27	15%	2.5	28	13%	2.5	28	14%
Age at diagnosis (yr)															
<13	*	1	1%	*	-	-	*	-	-	*	-	-	*	-	-
13-14	*	-	-	*	-	-	*	-	-	*	-	-	*	1	<1%
15-19	8.9	12	6%	5.3	7	4%	6.1	8	4%	9.4	12	6%	14.4	19	9%
20-24	29.2	39	20%	26.7	35	20%	32.7	42	23%	41.6	53	24%	36.8	47	23%
25-29	42.4	60	31%	27.5	40	23%	30.2	44	24%	29.0	42	19%	23.3	33	16%
30-34	19.1	25	13%	15.1	20	11%	20.1	27	15%	21.8	30	14%	24.6	35	17%
35-39	10.2	13	7%	13.9	18	10%	13.9	18	10%	11.6	15	7%	15.7	21	10%
40-44	6.7	8	4%	14.2	17	10%	8.3	10	5%	13.1	16	7%	7	9	4%
45-49	6.5	9	5%	6.7	9	5%	9.2	12	7%	10.4	13	6%	10.5	13	6%
50-54	10.1	15	8%	5.6	8	5%	5.7	8	4%	10.2	14	6%	5.0	7	3%
55-64	3.5	11	6%	6.1	19	11%	2.9	9	5%	6.2	19	9%	4.2	13	6%
65+	*	2	1%	*	2	1%	1.5	6	3%	*	3	1%	*	4	2%
Race/Ethnicity^b															
American Indian/Alaska Native	*	-	-	*	-	-	*	-	-	*	1	<1%	*	-	-
Asian/Pacific Islander	9.9	5	3%	*	-	-	*	2	1%	*	3	1%	*	1	<1
Black/African American	25.3	104	53%	24.9	102	58%	27.9	114	62%	34.2	139	64%	32.2	133	66
Hispanic/Latino	14.5	18	9%	15.5	20	11%	15.3	20	11%	6.7	9	4%	13.6	19	9
White	3.9	59	30%	3.2	49	28%	3.0	45	24%	4.2	63	29%	2.6	40	20
Multi-Race	22.6	9	5%	*	4	2%	*	3	2%	*	2	1%	19.8	9	4
Race/Ethnicity^b and Sex at birth															
Am. Indian/Alaska Native Males	*	-	-	*	-	-	*	-	-	*	1	<1%	*	-	-
Am. Indian/Alaska Native Females	*	-	-	*	-	-	*	-	-	*	-	-	*	-	-
Asian/Pacific Islander Males	*	4	2%	*	-	-	*	2	1%	*	2	1%	*	1	<1%
Asian/Pacific Islander Females	*	1	1%	*	-	-	*	-	-	*	1	<1%	*	-	-
Black/African American Males	47.4	90	46%	46.5	88	50%	51.5	97	53%	65.0	122	56%	60.9	117	58%
Black/African American Females	6.3	14	7%	6.3	14	8%	7.7	17	9%	7.8	17	8%	7.2	16	8%
Hispanic/Latino Males	27.2	17	9%	29.3	19	11%	26.1	17	9%	12.0	8	4%	25.7	18	9%
Hispanic/Latina Females	*	1	1%	*	1	1%	*	3	2%	*	1	<1%	*	1	<1%
White Males	6.6	49	25%	5.7	42	24%	5.2	38	21%	7.5	55	25%	4.2	31	15%
White Females	1.3	10	5%	0.9	7	4%	0.9	7	4%	1.0	8	4%	1.2	9	4%
Multi-Race Males	40.8	8	4%	*	4	2%	*	3	2%	*	1	<1%	31.3	7	3%
Multi-Race Females	*	1	1%	*	-	-	*	-	-	*	1	<1%	*	2	1%
Total	9.0	195		8.1	175		8.6	184		10.1	217		9.3	202	

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

Asterisk (*) indicates rate not calculated for case count <5 due to unstable rates. Dash (-) indicates no cases were reported for the given category.

^a The rate is the number of persons with a reported diagnosis of HIV infection per 100,000 population calculated using 2021 U.S. Census estimates.

^b In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 2: Trends in reported new diagnoses of HIV infection by transmission category, Region 3, 2017-2021

Diagnoses of HIV Infection by Year

Transmission Category ^a	2017		2018		2019		2020		2021	
	No.	%	No.	%	No.	%	No.	%	No.	%
Male adult or adolescent										
Male-to-male sexual contact	122	73%	103	67%	103	66%	94	50%	108	62%
Injection drug use (IDU)	2	1%	4	3%	2	1%	3	2%	1	1%
Male-to-male sexual contact and IDU	8	5%	3	2%	7	4%	1	1%	9	5%
Heterosexual contact	4	2%	7	5%	7	4%	3	2%	6	3%
Other/unknown	32	19%	36	24%	38	24%	88	47%	50	29%
Subtotal	168	100%	153	100%	157	100%	189	100%	174	100%
Female adult or adolescent										
Injection drug use	2	8%	2	9%	4	15%	2	7%	-	-
Heterosexual contact	24	92%	18	82%	18	67%	10	36%	22	79%
Other/unknown	-	-	2	9%	5	19%	16	57%	6	21%
Subtotal	26	100%	22	100%	27	100%	28	100%	28	100%
Child (<13 yrs. at diagnosis)										
Perinatal	1	100%	-	-	-	-	-	-	-	-
Other/unknown	-	-	-	-	-	-	-	-	-	-
Subtotal	1	100%	-	-	-	-	-	-	-	-
Total	195		175		184		217		202	

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

Dash (–) indicates no cases were reported for the given category.

^a Transmission categories are mutually exclusive, hierarchical risk categories determined by the CDC and system-calculated using sex at birth and risk factor history to determine mode of transmission. A person with multiple risks is only represented in the highest category based on the CDC hierarchical algorithm. Thus, transgender women are included in the male-to-male sexual contact transmission category if assigned male at birth and risk factor history indicates sex with males. Please note this is for the categorization of HIV transmission categories only and not to describe sexual orientation.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 3: Trends in reported new diagnoses of HIV infection by exposure category, Region 3, 2017-2021

Diagnoses of HIV Infection by Year										
Exposure Category ^a	2017		2018		2019		2020		2021	
	No.	%	No.	%	No.	%	No.	%	No.	%
Male-to-male sexual contact only	120	62%	102	58%	102	55%	92	42%	106	52%
Injection drug use (IDU) only	3	2%	5	3%	2	1%	3	1%	-	-
Heterosexual contact only	28	14%	25	14%	25	14%	13	6%	28	14%
Male-to-male sexual contact & IDU	7	4%	2	1%	7	4%	1	<1%	8	4%
IDU & Heterosexual contact	1	1%	1	1%	4	2%	2	1%	1	<1%
Male-to-male sexual contact & Heterosexual contact	2	1%	1	1%	1	1%	2	1%	2	1%
Male-to-male sexual contact & IDU & Heterosexual contact	1	1%	1	1%	-	-	-	-	1	<1%
Perinatal exposure	1	1%	-	-	-	-	-	-	-	-
Other/unknown	32	16%	38	22%	43	23%	104	48%	56	28%
Total	195		175		184		217		202	

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

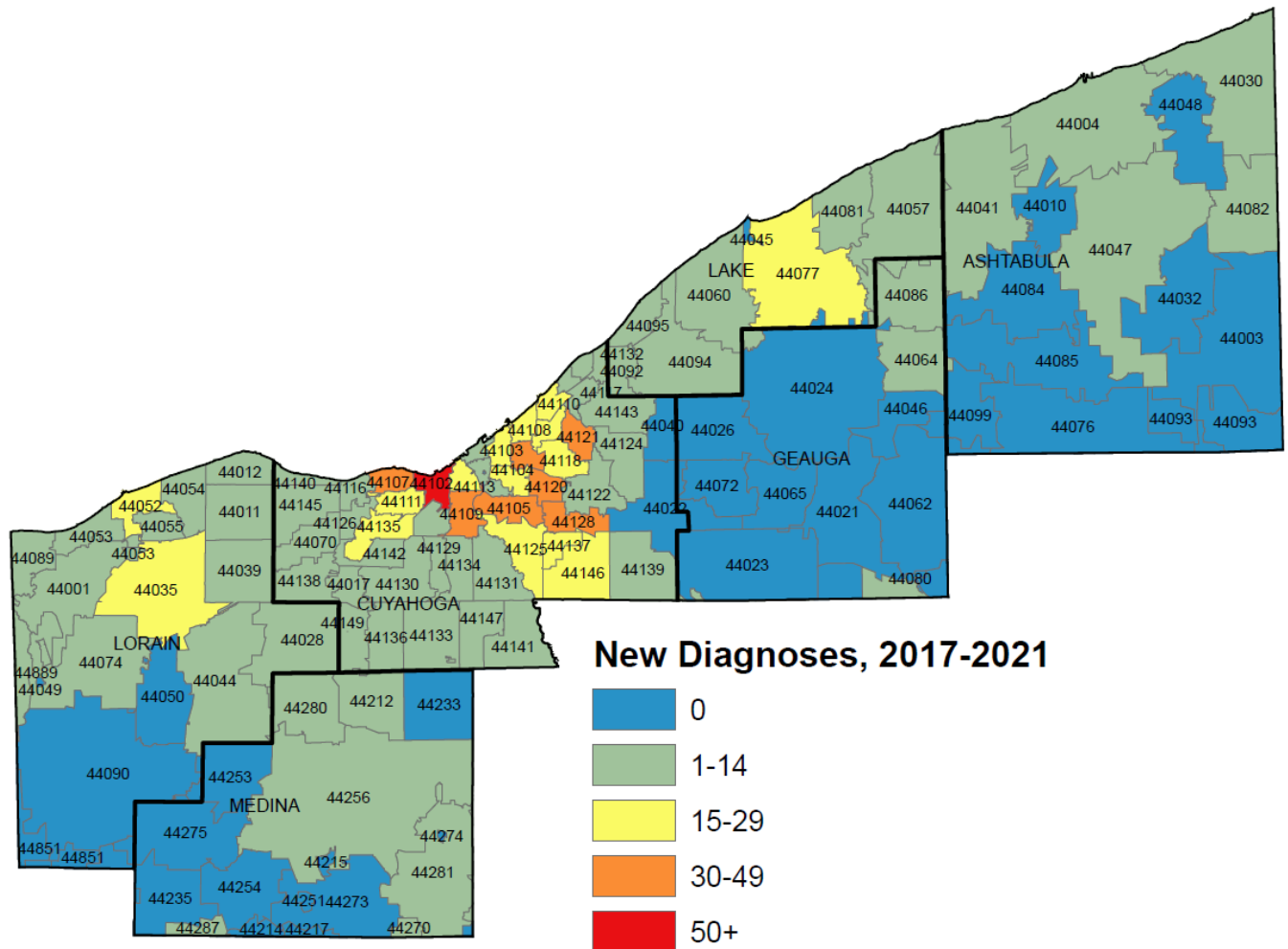
Dash (–) indicates no cases were reported for the given category.

^a Exposure categories are mutually exclusive risk categories. All possible combinations of risks are represented among exposure categories. A person with multiple risks is represented in the exposure category identifying all the reported ways in which that person may have been exposed to HIV.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

ZIP Code: Thirty or more new reported diagnoses of HIV were reported from 2017 to 2021 among persons residing in the following ZIP Codes in Region 3, which are in descending order of the number of new reported diagnoses of HIV: 44102, 44120, 44105, 44128, 44106, 44107, 44109, and 44121.

Figure 9: Reported new diagnoses of HIV infection by ZIP Code, Region 3, 2017-2021



Notes:

ZIP Code reflects ZIP Code of residence at time of initial diagnosis. Cases diagnosed while in a state or federal correctional facility or whose residence at time of diagnosis is unknown are not included.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through January 25, 2023.

Table 4: Trends in reported new diagnoses of HIV infection by county, Region 3, 2017-2021

County ^a	2017		2018		2019		2020		2021	
	Rate ^b	No.	Rate ^b	No.	Rate ^b	No.	Rate ^b	No.	Rate ^b	No.
Ashtabula	*	3	*	4	*	4	*	3	*	4
Cuyahoga	11.9	149	12.0	149	13.0	160	15.1	186	13.2	165
Geauga	*	1	*	-	*	-	*	1	*	1
Lake	6.1	14	*	3	2.6	6	2.6	6	4.3	10
Lorain	6.2	19	4.5	14	3.9	12	6.1	19	6.3	20
Medina	5.0	9	2.8	5	*	2	*	2	*	2
Region 3	9.0	195	8.1	175	8.6	184	10.1	217	9.3	202
Ohio	8.4	978	8.4	983	8.3	969	7.6	887	7.7	912

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

Asterisk (*) indicates rate not calculated for case count <5 due to unstable rates. (–) Indicates no cases were reported for the given category.

^a County reflects county of residence at time of initial diagnosis. Cases diagnosed while in a state or federal correctional facility or whose county is unknown are included in No County.

^b The rate is the number of persons with a reported diagnosis of HIV infection per 100,000 population calculated using U.S. Census estimates for that year.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 5: Reported new diagnoses of HIV infection by race/ethnicity and age at diagnosis, Region 3, 2021

2021 diagnosis of HIV infection

Age at diagnosis (yr.)	American Indian/Alaska Native				Asian/Pacific Islander				Black/African American				Hispanic/Latino ^a				White				Multi-Race		
	Rate ^b	No.	%		Rate ^b	No.	%		Rate ^b	No.	%		Rate ^b	No.	%		Rate ^b	No.	%		Rate ^b	No.	%
<13	*	-	-		*	-	-		*	-	-		*	-	-		*	-	-		*	-	-
13-14	*	-	-		*	-	-		*	1	1%		*	-	-		*	-	-		*	-	-
15-19	*	-	-		*	-	-		*	-	-		*	-	-		*	-	-		*	-	-
20-24	*	-	-		*	-	-		*	-	-		*	3	-		*	1	3%		*	-	-
25-29	*	-	-		*	-	-		40.3	13	10%		*	4	17%		*	2	6%		*	1	13%
30-34	*	-	-		*	-	-		116.4	35	27%		*	3	22%		6.4	6	19%		*	2	25%
35-39	*	-	-		*	-	-		105.5	26	20%		*	4	17%		*	2	6%		*	2	25%
40-44	*	-	-		*	-	-		101.9	24	19%		*	2	22%		6.7	6	19%		*	1	13%
45-49	*	-	-		*	-	-		58.4	13	10%		*	1	11%		5.7	5	16%		*	1	13%
50-54	*	-	-		*	-	-		28.8	7	5%		*	-	6%		*	-	-		*	1	13%
55-64	*	-	-		*	-	-		15.3	8	6%		*	-	-		2.1	5	16%		*	-	-
65+	*	-	-		*	-	-		*	2	2%		*	1	6%		*	4	13%		*	-	-
Total	*	-	-		*	-	-		31.2	129			12.9	18			2.0	31			17.6	8	

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

Asterisk (*) indicates the rate not calculated for case count <5 due to unstable rates. Dash (-) indicates no cases were reported for the given category.

^a In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

^b The rate is the number of persons with a reported diagnosis of HIV infection per 100,000 population calculated using 2020 U.S. Census estimates.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 6: Reported new diagnoses of HIV infection by race/ethnicity and transmission category, Region 3, 2021

Transmission Category ^c	2021 diagnosis of HIV infection											
	American Indian/Alaska Native		Asian/Pacific Islander		Black/African American		Hispanic/Latino ^a		White		Multi-Race	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Male adult or adolescent												
Male-to-male sexual contact	-	-	-	-	77	66%	11	61%	17	55%	3	43%
Injection drug use (IDU)	-	-	-	-	-	-	-	-	1	3%	-	-
Male-to-male sexual contact and IDU	-	-	-	-	4	3%	1	6%	3	10%	1	14%
Heterosexual contact	-	-	-	-	3	3%	-	-	2	6%	1	14%
Other/unknown	-	-	1	100%	33	28%	6	33%	8	26%	2	29%
Subtotal	-	-	1	100%	117	100%	18	100%	31	100%	7	100%
Female adult or adolescent												
Injection drug use	-	-	-	-	-	-	-	-	-	-	-	-
Heterosexual contact	-	-	-	-	13	81%	1	100%	7	78%	1	50%
Other/unknown	-	-	-	-	3	19%	-	-	2	22%	1	50%
Subtotal	-	-	-	-	16	100%	1	100%	9	100%	2	100%
Child (<13 yrs. at diagnosis)												
Perinatal	-	-	-	-	-	-	-	-	-	-	-	-
Other/unknown	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal	-	-	-	-	-	-	-	-	-	-	-	-
Total	-		1		133		19		40		9	

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS), who were residents of Ohio at time of initial diagnosis.

(-) Indicates no cases were reported for the given category.

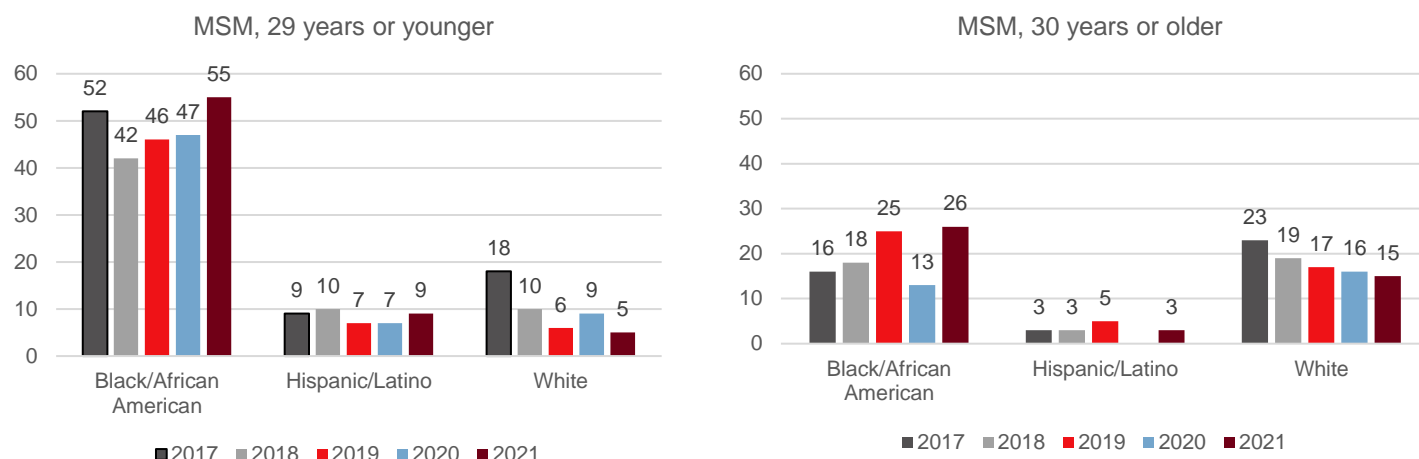
^a In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

^b Transmission categories are mutually exclusive, hierarchical risk categories determined by the CDC and system-calculated using sex at birth and risk factor history to determine mode of transmission. A person with multiple risks is only represented in the highest category based on the CDC hierarchical algorithm. Thus, transgender women are included in the male-to-male sexual contact transmission category if assigned male at birth and risk factor history indicates sex with males. Please note this is for the categorization of HIV transmission categories only and not to describe sexual orientation.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Communities of focus—MSM: In this report, MSM is defined as persons assigned male at birth who have a transmission category of “male-to-male sexual contact” or “male-to-male sexual contact/IDU.” Among MSM aged 29 years or younger, the number of reported new diagnoses of HIV was highest among Black/African American MSM. Among MSM aged 30 years or older, the number of reported new diagnoses of HIV was more evenly distributed among Black/African American and white MSM.

Figure 10: Trends in reported new diagnoses of HIV infection by race/ethnicity and age at diagnosis among MSM, Region 3, 2017-2021



Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

(-) Indicates no cases were reported for the given category.

^a In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

The term MSM is defined as persons assigned male at birth, and who have a transmission category of ‘male-to-male sexual contact’ or ‘male-to-male sexual contact/IDU.’

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Communities of focus—Transgender people: Gender identity is used to describe a person’s internal experience of their own gender, while gender expression is how that person outwardly exhibits their gender. A person’s gender identity may be different from their gender expression. There have been 84 new reported diagnoses of HIV documented among transgender people in Region 3 since the beginning of the epidemic in 1981. Of these, 99% were among transgender women, 65% (n=55) were among transgender people aged 29 years or younger, and 83% (n=70) were among Black/African American transgender women. However, it is important to note that data related to current gender may be underestimated due to underreporting and the recency of which these data were collected.

Table 7: Trends in reported new diagnoses of HIV infection among transgender people by selected characteristics, Region 3, 1981-2021

Characteristic	No.	%
Current Gender		
Transgender Women	83	99%
Transgender Men	1	1%
Age at diagnosis (yr)		
29 or younger	55	65%
30 or older	29	35%
Race/Ethnicity^a		
Black/African American	70	83%
Hispanic/Latino	7	8%
White	4	5%
Other	3	4%
Race/Ethnicity^a and Current Gender		
Black/African American Transgender Women	69	82%
Black/African American Transgender Men	1	1%
Hispanic/Latina Transgender Women	7	8%
Hispanic/Latino Transgender Men	-	-
White Transgender Women	4	5%
White Transgender Men	-	-
Other Transgender Women	3	4%
Other Transgender Men	-	-
Total	84	

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

(-) Indicates no cases were reported for the given category.

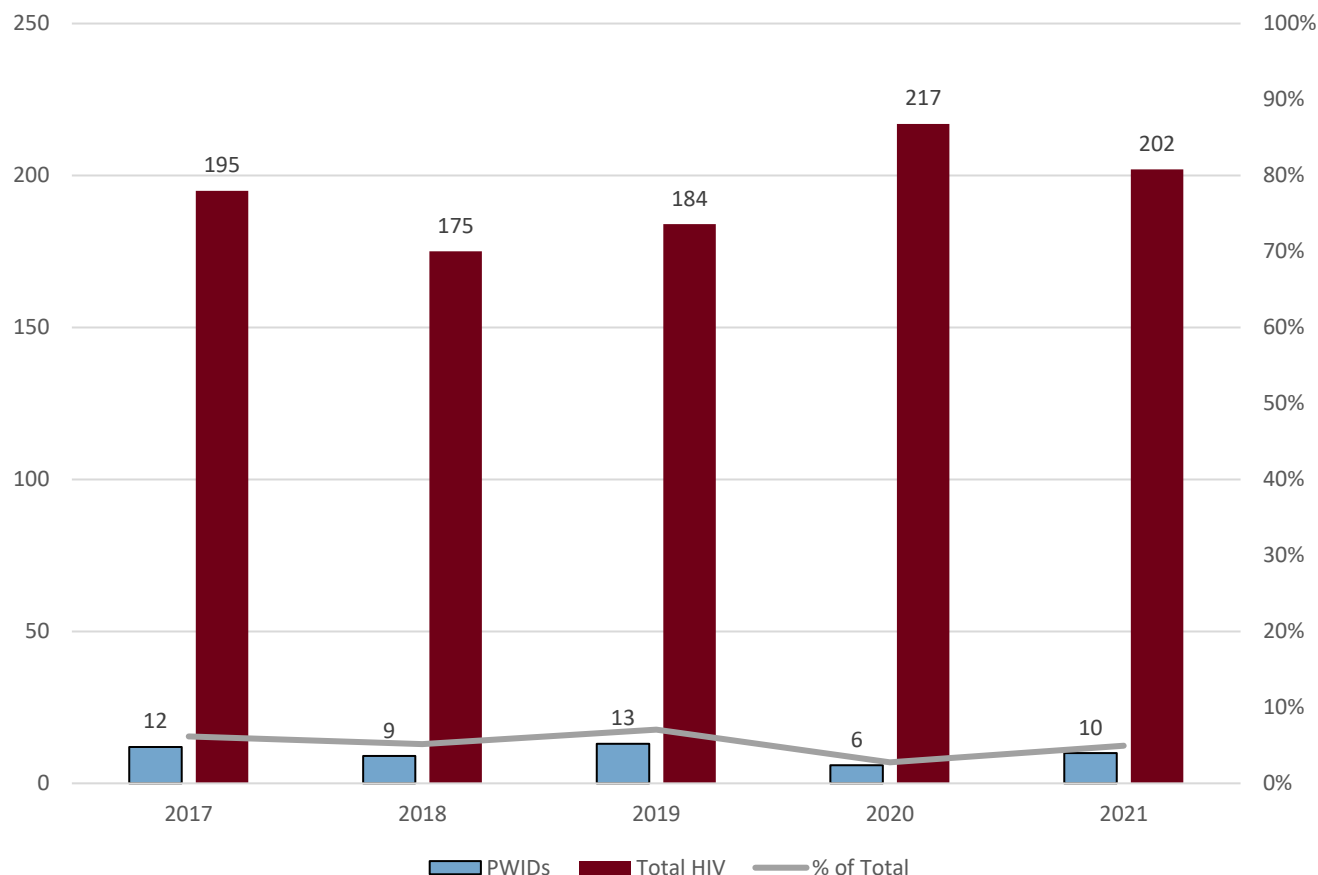
Transgender is a term used to describe persons whose current gender identity is different from their sex (male or female) assigned at birth. Transgender women identify as female but were assigned male at birth, and transgender men identify as male, but were assigned female at birth.

^a In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Communities of focus—PWID: There were 202 reported new diagnoses of HIV in Region 3 in 2021. Of these, 5% (n=10) were among PWIDs (defined as persons who inject drugs or persons reported with a transmission category of male-to-male sexual contact/injection drug use).

Figure 11: Trends in reported new diagnoses of HIV infection among PWIDs by year of diagnosis and selected characteristics, Region 3, 2017-2021



Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis. The term PWID is defined as a person who has a transmission category of 'injection drug use (IDU)' or 'male-to-male sexual contact/IDU.'

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Sexually Transmitted Infections (STI) and HIV Coinfection

A match was performed with HIV and STI data to determine the number of persons residing in Region 3 who were diagnosed with HIV and STIs in 2020.

Chlamydia: Of the 223 persons with a reported new diagnosis of HIV in 2020, 43 (19%) had a chlamydia diagnosis. The chlamydia diagnosis was more than one year prior to the HIV diagnosis in 10% (n=22) of persons with a reported new diagnosis of HIV in 2020, between one and 12 months prior to the HIV diagnosis in 3% (n=7), and within 30 days of the HIV diagnosis for 6% (n=14).

Gonorrhea: Of the 223 persons with a reported new diagnosis of HIV in 2020, 58 (26%) had a gonorrhea diagnosis. The gonorrhea diagnosis was more than one year prior to the HIV diagnosis in 14% (n=31) of persons with a reported new diagnosis of HIV in 2020, between one and 12 months prior to the HIV diagnosis in 6% (n=14), and within 30 days of the HIV diagnosis for 6% (n=13).

Syphilis: Of the 223 persons with a reported new diagnosis of HIV in 2020, 48 (22%) had a syphilis diagnosis. The syphilis diagnosis was more than one year prior to the HIV diagnosis in 6% (n=13) of persons with a reported new diagnosis of HIV in 2020, between one and 12 months prior to the HIV diagnosis in 6% (n=13), and within 30 days of the HIV diagnosis for 13% (n=29).

Table 8: Reported new diagnoses of HIV infection coinfecting with chlamydia, gonorrhea, or syphilis by selected characteristics, Region 3, 2020

	Number and % of 2020 HIV diagnoses with chlamydia diagnosis +/- 30 days of HIV diagnosis		Number and % of 2020 HIV diagnoses with gonorrhea diagnosis +/- 30 days of HIV diagnosis		Number and % of 2020 HIV diagnoses with syphilis diagnosis +/- 30 days of HIV diagnosis		2020 diagnoses of HIV infection
	No.	%	No.	%	No.	%	No.
Current Gender							
Males	12	6%	11	6	28	15	188
Females	-	-	-	-	-	-	28
Transgender Women	2	29%	2	29	1	14	7
Transgender Men	-	-	-	-	-	-	-
Age at diagnosis (yr.)							
<13	-	-	-	-	-	-	-
13-14	-	-	-	-	-	-	-
15-19	1	9%	2	18	3	27	11
20-24	5	9%	3	5	9	16	55
25-29	2	5%	2	7	5	12	43
30-34	4	13%	1	7	5	17	30
35-39	1	7%	-	7	4	27	15
40-44	-	-	2	-	2	13	16
45-49	1	8%	-	15	-	-	13
50-54	-	-	-	-	-	-	14
55-64	-	-	-	-	1	5	21
65+	-	-	-	-	-	-	5
Race/Ethnicity^a							
American Indian/Alaska Native	-	-	-	-	-	-	1
Asian/Pacific Islander	1	33%	-	-	-	-	3
Black/African American	10	7%	8	6	22	15	143
Hispanic/Latino	2	22%	-	-	1	11	9
White	1	2%	5	8	6	9	66
Multi-Race	-	-	-	-	-	1	1
Total	14	6%	13	6%	29	13%	223

Notes:

Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS) who were residents of Ohio at time of initial diagnosis.

(-) Indicates no cases were reported for the given category.

^a In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2021.

Hepatitis C and HIV Coinfection

A match was performed with HIV and hepatitis data to determine the number of persons residing in Region 3 who were diagnosed with HIV and hepatitis C from 2014 to 2020, where coinfection was defined as having a hepatitis C diagnosis and HIV diagnosis in 2020.

Of the 223 persons with a reported new diagnosis of HIV in 2020, 10 (4%) had a hepatitis C diagnosis. The hepatitis C diagnosis was prior to 2020 in 3% (n=6) of persons with a reported new diagnosis of HIV in 2020, and during 2020 in 2% (n=4) of persons with a reported new diagnosis of HIV in 2020.

HIV Testing

In Region 3, from 2018 through 2020, 40.8% of adults (age 18 and older) reported having ever been tested for HIV, compared with 35.2% of adults in Ohio. The prevalence of HIV testing is highest among adults aged 35 to 44 years, followed closely by adults aged 25 to 34 years. Black/African American people have a higher prevalence of HIV testing than any other race/ethnicity group, and the prevalence of HIV testing is higher among females (42.9%) compared with males (38.5%). Among adults in Region 3 in 2020, 5.7% participated in risky behaviors including: injecting any drug other than those prescribed for you, being treated for a sexually transmitted disease, or giving/receiving money or drugs in exchange for sex in the past year.

Table 9: Percentage of adults who reported having ever been tested for HIV, Region 3, 2018-2020

HIV Testing Prevalence (%)	
Age	2018-2020
18-24	23.2
25-34	63.8
35-44	64.7
45-54	52.2
55-64	35.5
65+	17.3
Sex	
Male	38.5
Female	42.9
Race/Ethnicity	
White, Non-Hispanic	33.8
Black, Non-Hispanic	61.6
Hispanic	59.7
Other, Non-Hispanic	40.0
Multi-Racial	73.9
Annual Household Income	
<\$15,000	66.9
\$15,000-\$24,999	45.8
\$25,000-\$34,999	42.1
\$35,000-\$49,999	41.8
\$50,000-\$74,999	35.2
\$75,000+	37.7
Education	
Less than High School	55.1
High School Diploma	34.3
Some College	45.7
College Graduate	36.9
Total	40.8

Notes: The Ohio Behavioral Risk Factor Surveillance System (BRFSS) was not designed to stratify by HIV prevention planning regions, therefore estimates should be interpreted with caution.

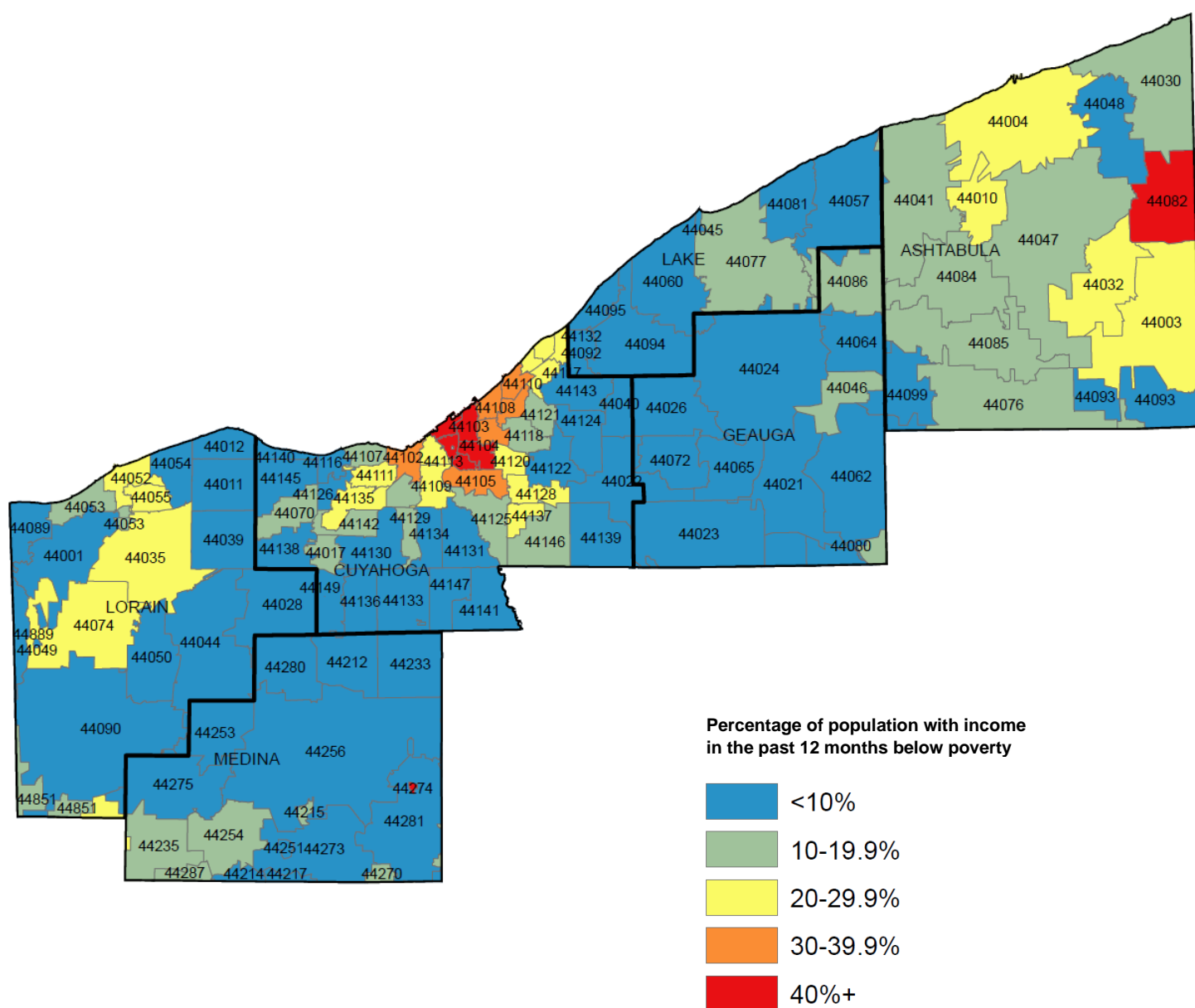
Source: 2018-2020 BRFSS. Chronic Disease Epidemiology and Evaluation Section, Bureau of Health Improvement and Wellness, Ohio Department of Health, 2022.

Social Determinants of Health

There are many factors, including place and type of residence, income, educational level, employment status, and access to healthcare, among many others, that contribute to a person's health status. It is critical to understand how social determinants may affect the health of individuals and populations.

Poverty level: A U.S. Census report of Region 3's population with income in the past 12 months showed 13.9% was below the federal poverty level (FPL). In 2021, this equated to \$12,880 for families/households with one person, with an additional \$4,540 allowed for each additional person in the family/household. The map below depicts each ZIP Code in Region 3 and what percentage of the population is below the FPL.

Figure 12: Percentage of population with income in the past 12 months below poverty level by ZIP Code, Region 3, 2017-2021



Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates

Table 10: Reported new diagnoses of HIV infection in 2021 by area-based poverty level and county, Region 3

Area-Based Poverty Level	2021 diagnosis of HIV infection										Area-Based Poverty Level not Available	Total	
	<10% below FPL		10% to 19.9% below FPL		20% to 29.9% below FPL		30% to 39.9% below FPL		>40% below FPL				
	No.	% of County Total	No.	% of County Total	No.	% of County Total	No.	% of County Total	No.	% of County Total	No.	% of County Total	
ASHTABULA CO.	-	-	2	50%	2	50%	-	-	-	-	-	-	4
CUYAHOGA CO.	14	8%	47	28%	46	28%	53	32%	5	3%	-	-	165
GEAUGA CO.	1	100%	-	-	-	-	-	-	-	-	-	-	1
LAKE CO.	6	60%	4	40%	-	-	-	-	-	-	-	-	10
LORAIN CO.	5	25%	8	40%	-	-	7	35%	-	-	-	-	20
MEDINA CO.	2	100%	-	-	-	-	-	-	-	-	-	-	2
Region 3	28	14%	61	30%	48	24%	60	30%	5	2%	-	-	202
Ohio	157	17%	345	38%	212	23%	131	14%	49	5%	18	2%	912

Notes:

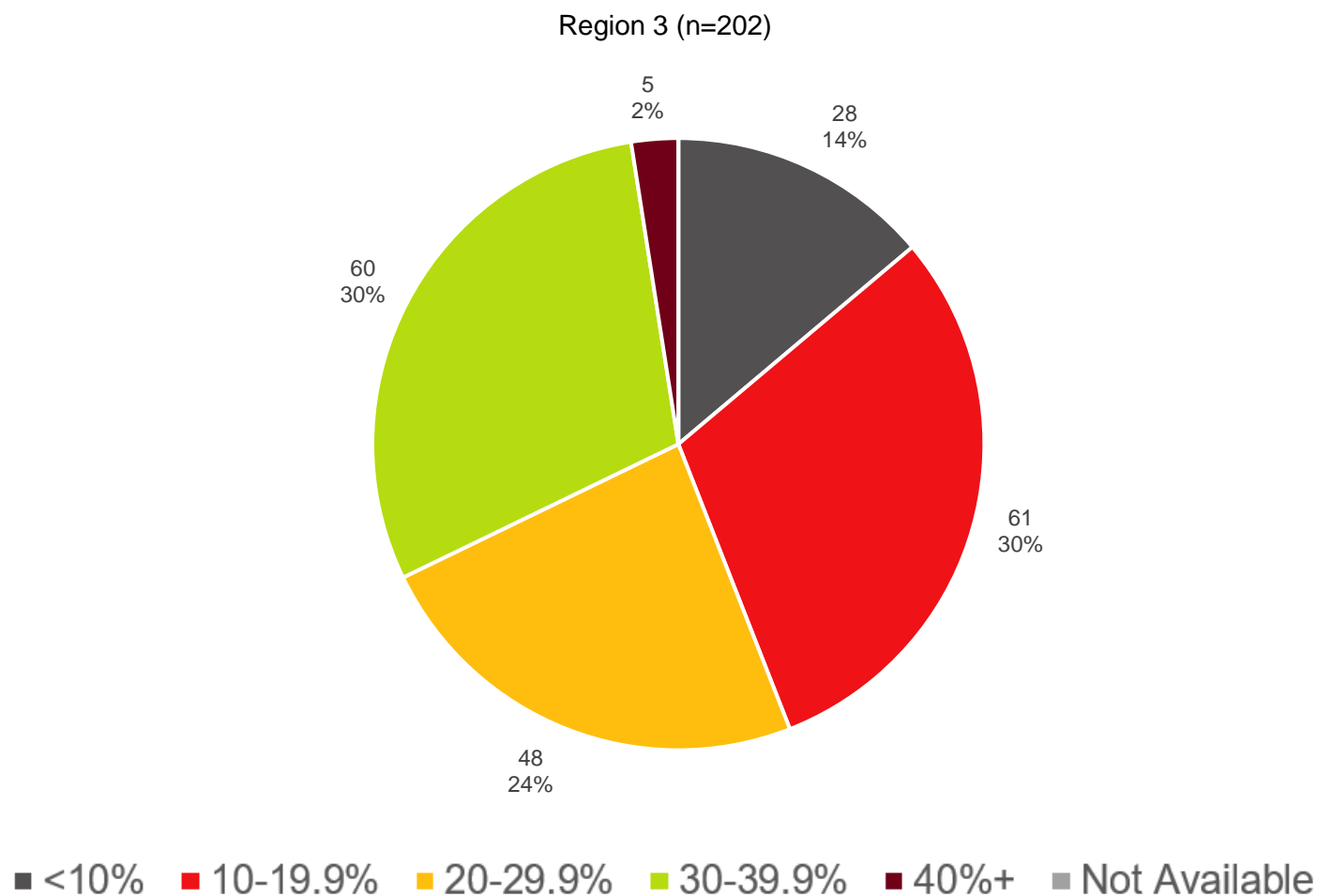
Reported new diagnoses of HIV infection include persons with a diagnosis of HIV (not AIDS), a diagnosis of HIV and an AIDS diagnosis within 12 months (HIV & later AIDS), and concurrent diagnoses of HIV and AIDS (AIDS), who were residents of Ohio at time of initial diagnosis.

Area-based poverty level is based on the census tract of residence at the time of initial diagnosis. Cases diagnosed while in a correctional facility are included in the county where the correctional facility is located.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Figure 13 depicts the number of new diagnoses of HIV infection in Region 3 in 2021, by area-based poverty level. Twenty-eight of the 202 new diagnoses of HIV in Region 3 in 2021 were among persons who resided in ZIP Codes where less than 10% of the population had income in the past 12 months below the FPL. There were 61 new diagnoses of HIV in Region 3 in 2021 among persons who resided in ZIP Codes where 10-19.9% of the population had income in the past 12 months below the FPL, 48 among persons residing in ZIP Codes where 20-29.9% were below the FPL, 60 among persons residing in ZIP Codes where 30-39.9% were below the FPL, and five among persons residing in ZIP Codes where more than 40% were below the FPL.

Figure 13: Number and percentage of new diagnoses of HIV infection in 2021 by area-based percentage of the population with income in the past 12 months below the federal poverty level, Region 3



Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

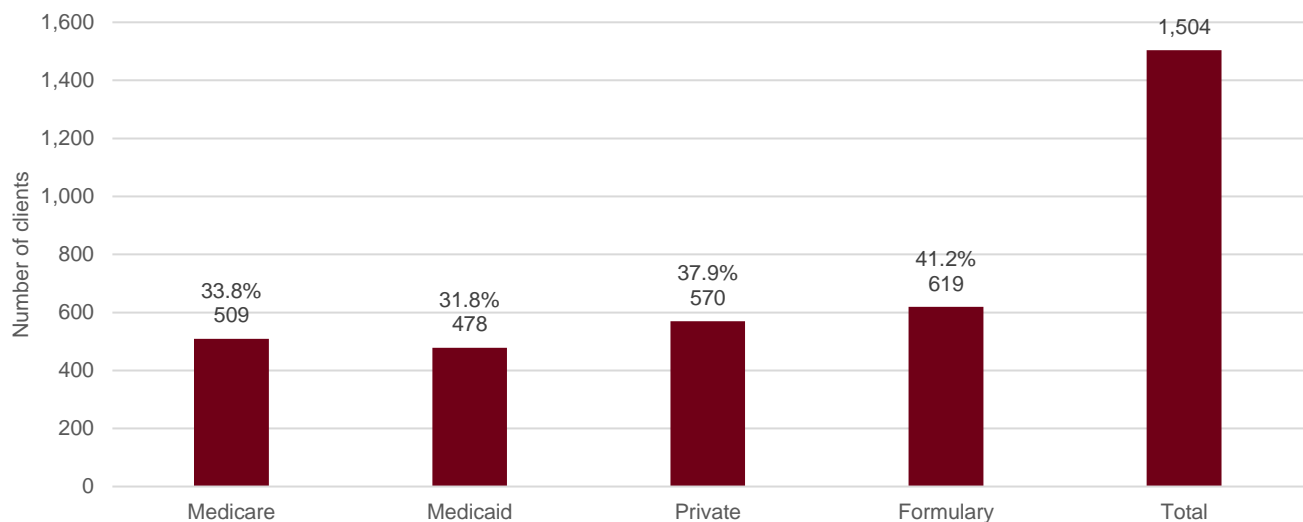
In 2020, the federal poverty level (FPL) for a single person was \$12,760 and increased by \$4,480 for each member of the household. Income data is collected to determine eligibility for all clients enrolled in the Ryan White Part B program. Forty-three percent of Ryan White Part B clients in Region 3 were below 100% of the FPL in 2020, compared with 43% of Ryan White Part B clients in Ohio.

Table 11: Number and percentage of Ryan White Part B clients by the percentage of FPL, Region 3, 2020

Percent of Federal Poverty Level								
	<100%	100-138%	139-200%	201-250%	251-400%	401-500%	>500%	Total
Region 3 Part B	758 (43%)	214 (12%)	304 (17%)	163 (9%)	269 (15%)	53 (3%)	0 (0%)	1,761
Ohio Part B	3,445 (43%)	982 (12%)	1,334 (17%)	733 (9%)	1,215 (15%)	250 (3%)	5 (<1%)	7,964

Note: Clients enrolled in the Ryan White Part B Program may also receive services from other pay sources (e.g., other Ryan White Parts, Medicaid). Clients with FPL >500% were initially below the FPL, but saw their income increase during the year.
Source: Ryan White Application Database. Data reported through Feb. 14, 2022.

Figure 14: Percentage of Part B clients by health insurance coverage, Region 3, 2020



Note: Clients enrolled in the Ryan White Part B Program may also receive services from other pay sources (e.g., other Ryan White Parts, Medicaid). Clients may be represented in more than one category as they may have had more than one type of insurance during the calendar year. Clients with FPL >500% were initially below the FPL, but saw their income increase during the year.
Source: Ryan White Application Database. Data reported through Feb. 14, 2022.

In order to be eligible for Ryan White Part A services, individuals must be below 500% of the federal poverty level.

Table 12: Number and percentage of Ryan White Part A clients by the percentage of FPL, Region 3, FY2018

Percent of Federal Poverty Level								
	<100%	100-138%	139-200%	201-250%	251-400%	401-500%	>500%	Total
Region 3 Part A	1,542 (63%)	241 (10%)	257 (11%)	139 (6%)	206 (8%)	49 (2%)	0 (0%)	2,434

Source: Ryan White Part A-Cleveland. Data reported through Nov. 30, 2019.

Table 13: Number of Part A clients by health insurance coverage, Cuyahoga County, FY2018

Type of Health Insurance	Number and Percent of Clients
Medicaid	1,219 (50.1%)
Medicare (unspecified)	254 (10.4%)
Medicare Part A/B	269 (11.1%)
Medicare Part D	1 (<1%)
Private (employer)	274 (11.3%)
Private (individual)	146 (6.0%)
VA, Tricare, and other military health care	11 (<1%)
No Insurance	259 (10.6%)
Total	2,433

Source: Ryan White Part A-Cleveland. Data reported through Nov. 30, 2019.

Housing status: In 2020, 29% of Ryan White Part B clients in Region 3 had stable housing. Six percent had temporary housing, and 2% were homeless. In 2020, 74% of Ryan White Part B clients in Ohio had stable housing, 8% had temporary housing, and 2% were homeless. In Fiscal Year (FY) 2018 (3/1/2018-2/28/2019), 91% of Part A clients in Region 3 had stable/permanent housing, 6% had temporary housing and 3% had unstable housing.

Table 14: Percentage of Ryan White Part B clients by selected characteristics and housing status, Region 3, 2020

	Housing Status									
	Total Clients %		Homeless		Stable		Temporary		Unknown	
			Clients	%	Clients	%	Clients	%	Clients	%
Gender										
Female	325	18%	5	16%	125	24%	13	13%	182	16%
Male	1,415	80%	27	84%	386	74%	80	82%	922	83%
Transgender	17	<1%	-	-	7	1%	4	4%	6	<1%
Unknown	4	<1%	-	-	1	<1%	1	1%	2	<1%
Race/Ethnicity										
American Indian or Native Alaskan	3	<1%	1	3%	2	<1%	-	-	-	-
Asian	6	<1%	-	-	1	<1%	-	-	5	<1%
Black/African American	926	53%	19	59%	268	52%	71	72%	568	51%
Hispanic/Latino	204	12%	5	16%	96	18%	7	7%	96	9%
Native Hawaiian or Pacific Islander	-	-	-	-	-	-	-	-	-	-
White	603	34%	7	22%	146	28%	19	19%	431	39%
More than One Race	19	1%	-	-	6	1%	1	1%	12	1%
Unknown	-	-	-	-	-	-	-	-	-	-
FPL Value										
<100%	758	43%	29	91%	299	58%	83	85%	347	31%
100%-138%	214	12%	-	-	49	9%	10	10%	155	14%
139%-200%	304	17%	3	9%	69	13%	4	4%	228	21%
201%-250%	163	9%	-	-	35	7%	-	-	128	12%
251%-400%	269	15%	-	-	59	11%	1	1%	209	19%
401%-500%	53	3%	-	-	8	2%	-	-	45	4%
>500%	-	-	-	-	-	-	-	-	-	-
Age (years)										
0-12	-	-	-	-	-	-	-	-	-	-
13-24	31	2%	2	6%	10	2%	3	3%	16	1%
24-44	614	35%	14	44%	188	36%	50	51%	362	33%
45-64	849	48%	14	44%	265	51%	40	41%	530	48%
65 or Older	267	15%	2	6%	56	11%	5	5%	204	18%
Total	1,761		32		519		98		1,112	

Note: Clients enrolled in the Ryan White Part B Program may also receive services from other pay sources (e.g., other Ryan White Parts, Medicaid).
Source: Ryan White Application Database. Data reported through Feb. 14, 2022.

TREAT: Treat people with HIV rapidly and effectively to reach sustained viral suppression

Prevalence: Persons Living with Diagnosed HIV Infection

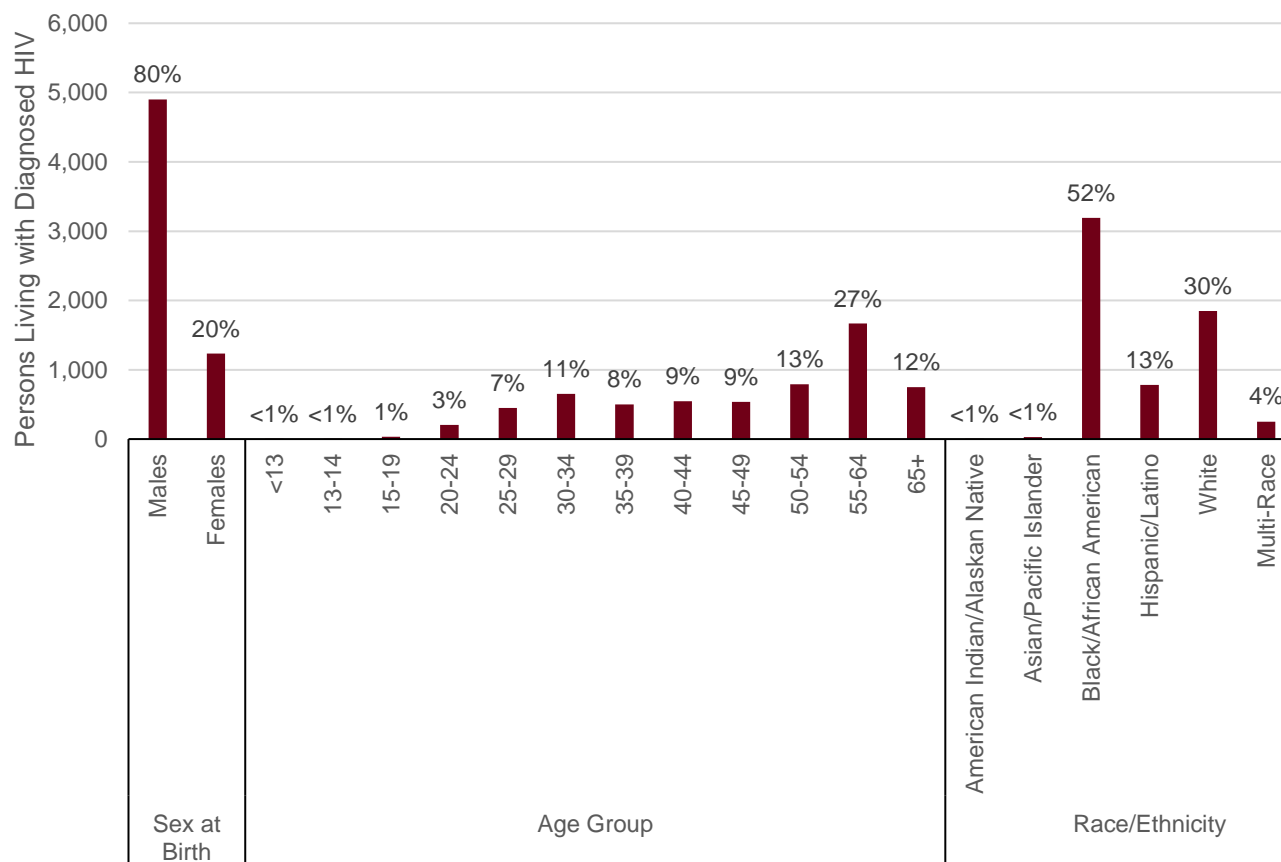
As of December 31, 2021, there were 6,133 persons living with diagnosed HIV infection in Region 3. Of these, 53% were living with an HIV (not AIDS) diagnosis, and 47% were living with a stage 3 (AIDS) diagnosis. The rate of persons living with diagnosed HIV infection in Region 3 in 2021 was 282.2 per 100,000 population. In comparison, there were 25,568 persons living with diagnosed HIV in Ohio at the end of 2021, which equates to a rate of 217.0 per 100,000 population.

Sex at birth: Males accounted for 80% of persons living with diagnosed HIV infection in Region 3 at the end of 2021, while females accounted for 20%. The rate of males living with diagnosed HIV infection was more than four times higher in 2021, than that of females.

Current age: At the end of 2021, over half of all persons living with diagnosed HIV in Ohio were 50 years of age and older. Rates of persons living with diagnosed HIV infection were highest among persons aged 50-54, 55-64, and 45-49 (561.0, 538.3, and 435.6, respectively). These age group-specific rates will continue to rise as persons age and live longer as a result of treatment adherence and related retention in care intervention successes.

Race/ethnicity: Black/African American people make up 52% of persons living with diagnosed HIV in Region 3, while white people make up 30%. The rate for Black/African American people (772.2) was more than six times as high, as that for white people (121.9).

Figure 15: Persons living with diagnosed HIV infection, Region 3, 2021



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of June 30, 2022.

Table 15: Reported persons living with diagnosed HIV infection by current disease status and selected characteristics, Region 3, 2021

Characteristic	Living With Diagnosed HIV Infection in 2021			Current Disease Status			
	Rate ^a	No.	%	HIV (not AIDS)		AIDS	
				No.	%	No.	%
Sex at birth							
Males	462.8	4,900	80%	2,615	80%	2,285	80%
Females	110.7	1,233	20%	649	20%	584	20%
Age at end of year							
<13	*	3	<1%	2	<1%	1	<1%
13-14	*	4	<1%	4	<1%	-	-
15-19	24.2	32	1%	27	1%	5	<1%
20-24	160.4	205	3%	173	5%	32	1%
25-29	316.5	448	7%	339	10%	109	4%
30-34	457.1	651	11%	465	14%	186	6%
35-39	375.5	502	8%	314	10%	188	7%
40-44	424.9	546	9%	332	10%	214	7%
45-49	435.6	539	9%	285	9%	154	9%
50-54	561.0	790	13%	341	10%	449	16%
55-64	538.3	1,666	27%	690	21%	976	34%
65+	177.0	747	12%	292	9%	455	16%
Race/Ethnicity^b							
American Indian/Alaska Native	*	2	<1%	1	<1%	1	<1%
Asian/Pacific Islander	49.4	27	<1%	21	1%	6	<1%
Black/African American	772.2	3,192	52%	1,737	53%	1,455	51%
Hispanic/Latino	560.3	783	13%	382	12%	401	14%
White	121.9	1,849	30%	959	29%	890	31%
Multi-Race	555.1	252	4%	136	4%	116	4%
Unknown	*	28	<1%	28	1%	-	-
Race/Ethnicity^b and Sex at birth							
American Indian/Alaska Native Males	*	1	<1%	1	<1%	-	-
American Indian/Alaska Native Females	*	1	<1%	-	-	1	<1%
Asian/Pacific Islander Males	79.9	21	<1%	17	1%	4	<1%
Asian/Pacific Islander Females	21.1	6	<1%	4	<1%	2	<1%
Black/African American Males	1,276.8	2,451	40%	1,339	41%	1,112	39%
Black/African American Females	334.6	741	12%	398	12%	343	12%
Hispanic/Latino Males	829.2	581	9%	302	9%	279	10%
Hispanic/Latina Females	289.9	202	3%	80	2%	122	4%
White Males	217.8	1,626	27%	827	25%	799	28%
White Females	29.0	223	4%	132	4%	91	3%
Multi-Race Males	893.5	200	3%	109	3%	91	3%
Multi-Race Females	225.9	52	1%	27	1%	25	1%
Unknown	*	28	<1%	28	1%	-	-
Total	282.2	6,133		3,264		2,869	

Notes:

Living with diagnosed HIV infection represents all persons ever diagnosed and reported with HIV and/or AIDS who have not been reported as having died, as of Dec. 31, 2021. Persons living with diagnosed HIV infection represent persons living in Ohio as of Dec. 31, 2021, regardless of whether the person was a resident of Ohio at the time of initial HIV and/or AIDS diagnosis.

Asterisk (*) indicates the rate not calculated for case count <5 due to unstable rates. Dash (-) indicates no cases were reported for the given category.

^a The rate is the number of persons living with diagnosed HIV infection per 100,000 population calculated using 2021 U.S. Census estimates.

^b In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 16: Reported persons living with diagnosed HIV infection by current disease status and transmission category, Region 3, 2021

Transmission Category ^a	Current Disease Status					
	Living With Diagnosed HIV Infection in 2021		HIV (not AIDS)		AIDS	
	No.	%	No.	%	No.	%
Male adult or adolescent						
Male-to-male sexual contact	3,321	68%	1,789	69%	1,532	68%
Injection drug use (IDU)	201	4%	72	3%	129	6%
Male-to-male sexual contact and IDU	246	5%	102	4%	144	6%
Heterosexual contact	299	6%	136	5%	163	7%
Other/unknown	804	17%	503	19%	301	13%
Subtotal	4,871	100%	2,602	100%	2,269	100%
Female adult or adolescent						
Injection drug use	142	12%	53	8%	89	16%
Heterosexual contact	944	79%	484	77%	460	81%
Other/unknown	109	9%	91	14%	18	3%
Subtotal	1,195	100%	628	100%	567	100%
Child (<13 years at diagnosis)						
Perinatal	57	85%	27	79%	30	91%
Other/unknown	10	15%	7	21%	3	9%
Subtotal	67	100%	34	100%	33	100%
Total	6,133		3,264		2,869	

Notes:

Living with diagnosed HIV infection represents all persons ever diagnosed and reported with HIV and/or AIDS who have not been reported as having died, as of Dec. 31, 2021. Persons living with diagnosed HIV infection represent persons living in Ohio as of Dec. 31, 2021, regardless of whether the person was a resident of Ohio at the time of initial HIV and/or AIDS diagnosis.

Dash (–) indicates no cases were reported for the given category

^a Transmission categories are mutually exclusive, hierarchical risk categories determined by the CDC and system-calculated using sex at birth and risk factor history to determine mode of transmission. A person with multiple risks is only represented in the highest category based on the CDC hierarchical algorithm. Thus, transgender women are included in the male-to-male sexual contact transmission category if assigned male at birth and risk factor history indicates sex with males. Please note this is for the categorization of HIV transmission categories only and not to describe sexual orientation.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 17: Reported persons living with diagnosed HIV infection by current disease status and exposure category, Region 3, 2021

Exposure Category ^a	Living With Diagnosed HIV Infection in 2021		Current Disease Status			
			HIV (not AIDS)		AIDS	
	No.	%	No.	%	No.	%
Male-to-male sexual contact only	3,174	52%	1,736	53%	1,438	50%
Injection drug use (IDU) only	165	3%	70	2%	95	3%
Heterosexual contact only	1,243	20%	620	19%	623	22%
Male-to-male sexual contact and IDU	195	3%	91	3%	104	4%
IDU and Heterosexual contact	178	3%	55	2%	123	4%
Male-to-male sexual contact and Heterosexual contact	147	2%	53	2%	94	3%
Male-to-male sexual contact and IDU and Heterosexual contact	51	1%	11	<1%	40	1%
Perinatal exposure	60	1%	29	1%	31	1%
Other/unknown	920	15%	599	18%	321	11%
Total	6,133		3,264		2,869	

Notes:

Living with diagnosed HIV infection represents all persons ever diagnosed and reported with HIV and/or AIDS who have not been reported as having died, as of Dec. 31, 2021. Persons living with diagnosed HIV infection represent persons living in Ohio as of Dec. 31, 2021, regardless of whether the person was a resident of Ohio at the time of initial HIV and/or AIDS diagnosis.

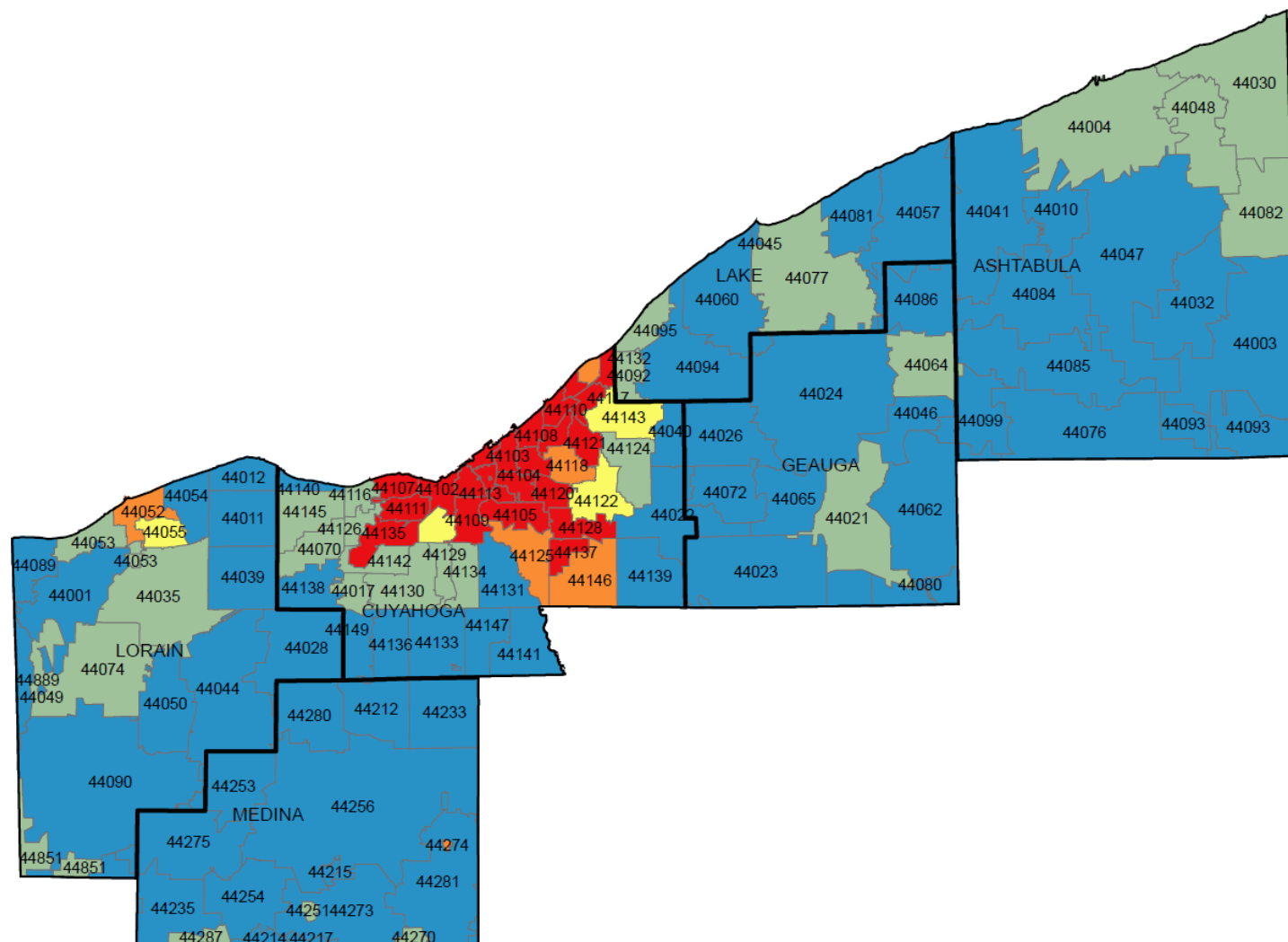
Dash (–) indicates no cases were reported for the given category.

^a Exposure categories are mutually exclusive risk categories. All possible combinations of risks are represented among exposure categories. A person with multiple risks is represented in the exposure category identifying all the reported ways in which that person may have been exposed to HIV.

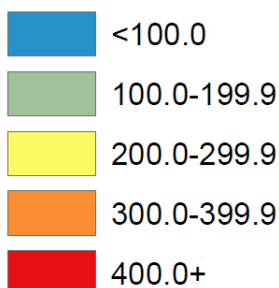
Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

ZIP Code: There were seven ZIP Codes in Region 3 with more than 200 persons with diagnosed HIV at the end of 2021 (44102, 44107, 44109, 44111, 44120, 44105, and 44108).

Figure 16: Reported persons living with diagnosed HIV infection by ZIP Code, Region 3, 2021



Prevalence Rate, 2021



Notes:

Living with diagnosed HIV infection represents all persons ever diagnosed and reported with HIV and/or AIDS who have not been reported as having died, as of December 31, 2021. Persons living with diagnosed HIV infection represent persons living in Ohio as of December 31, 2021, regardless of whether the person was a resident of Ohio at time of the initial HIV and/or AIDS diagnosis.

ZIP Code reflects current ZIP Code of residence. Cases currently residing in a state or federal correctional facility or whose current ZIP Code of residence is unknown, are not included. The rate is the number of persons living with diagnosed HIV infection per 100,000 population, calculated using 2021 U.S. Census estimates.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through January 25, 2023.

Table 18: Reported persons living with diagnosed HIV infection by current disease status and county, Region 3, 2021

Living with diagnosed HIV infection in 2021			Current Disease Status			
			HIV (not AIDS)		AIDS	
County ^a	Rate ^b	No.	No.		No.	
Ashtabula	118.1	115	56		59	
Cuyahoga	419.4	5,240	2,804		2,436	
Geauga	42.9	41	21		20	
Lake	94.4	219	108		111	
Lorain	128.6	406	210		196	
Medina	61.2	112	65		47	
Region 3	282.2	6,133	3,264		2,869	
Ohio	214.6	25,096	13,323		11,773	

Notes:

Living with diagnosed HIV infection, represents all persons ever diagnosed and reported with HIV and/or AIDS, who have not been reported as having died as of Dec. 31, 2021. Persons living with diagnosed HIV infection, represent persons living in Ohio as of Dec. 31, 2021, regardless of whether the person was a resident of Ohio at time of the initial HIV and/or AIDS diagnosis.

Asterisk (*) indicates rate not calculated for case count <5 due to unstable rates. Dash (–) indicates no cases were reported for the given category.

^a County reflects current county of residence. Cases in a state or federal correctional facility or whose county is unknown are included in 'No County.'

^b The rate is the number of persons living with diagnosed HIV infection per 100,000 population, calculated using 2021 U.S. Census estimates.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 19: Reported persons living with HIV infection by race/ethnicity and current age, Region 3, 2021

Age at end of year	American Indian/Alaska Native			Asian/Pacific Islander			Black/African American			Hispanic/ Latino ^a			White			Multi-Race			Unknown	
	Rate ^b	No.	%	Rate ^b	No.	%	Rate ^b	No.	%	Rate ^b	No.	%	Rate ^b	No.	%	Rate ^b	No.	%	No.	%
<13	*	-	-	*	-	-	*	2	<1%	*	-	-	*	-	-	*	1	<1%	-	-
13-14	*	-	-	*	-	-	*	2	<1%	*	1	<1%	*	1	<1%	*	-	-	-	-
15-19	*	-	-	*	1	4%	79.3	22	1%	*	3	<1%	6.0	5	<1%	*	1	<1%	-	-
20-24	*	-	-	*	2	7%	545.5	151	5%	184.2	21	3%	31.2	25	1%	132.5	6	2%	-	-
25-29	*	-	-	*	4	15%	1,014.7	327	10%	443.1	48	6%	48.8	44	2%	633.2	25	10%	-	-
30-34	*	1	50%	*	3	11%	1,406.8	423	13%	709.8	78	10%	123.5	115	6%	1,113.9	31	12%	-	-
35-39	*	-	-	*	2	7%	1,173.1	289	9%	603.9	63	8%	131.2	120	6%	1,490.2	28	11%	-	-
40-44	*	-	-	*	1	4%	1,137.6	268	8%	802.5	77	10%	191.8	171	9%	1,727.2	29	12%	-	-
45-49	*	-	-	129.0	5	19%	1,082.2	241	8%	1,062.9	84	11%	209.1	184	10%	1,622.7	24	10%	1	4%
50-54	*	-	-	*	3	11%	1,549.1	377	12%	1,369.1	96	12%	270.4	283	15%	1,975.1	27	11%	4	14%
55-64	*	1	50%	*	3	11%	1,405.2	736	23%	2,051.0	227	29%	260.6	620	34%	3,022.0	66	26%	13	46%
65+	*	-	-	*	3	11%	556.8	354	11%	788.7	85	11%	83.1	281	15%	683.3	14	6%	10	36%
Total	*	2		49.4	27		772.2	3,192		560.3	783		121.9	1,849		555.1	252		28	

Notes:

Living with diagnosed HIV infection represents all persons ever diagnosed and reported with HIV and/or AIDS, who have not been reported as having died as of Dec. 31, 2021. Persons living with diagnosed HIV infection, represent persons living in Ohio as of Dec. 31, 2021, regardless of whether the person was a resident of Ohio at time of the initial HIV and/or AIDS diagnosis.

Asterisk (*) indicates rate not calculated for case count <5 due to unstable rates. Dash (–) indicates no cases were reported for the given category.

^a The rate is the number of persons living with diagnosed HIV infection per 100,000 population, calculated using 2020 U.S. Census estimates.

^b In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Table 20: Reported persons living with HIV infection by race/ethnicity and transmission category, Region 3, 2021

	Living with diagnosed HIV infection in 2021													
	American Indian/Alaska Native		Asian/Pacific Islander		Black/African American		Hispanic/Latino ^a		White		Multi-Race		Unknown	
Transmission Category ^c	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Male adult or adolescent														
Male-to-male sexual contact	1	100%	11	55%	1,590	65%	343	60%	1,237	76%	139	70%	-	-
Injection drug use (IDU)	-	-	-	-	73	3%	76	13%	45	3%	7	4%	-	-
Male-to-male sexual contact and IDU	-	-	-	-	100	4%	34	6%	99	6%	13	7%	-	-
Heterosexual contact	-	-	1	5%	188	8%	44	8%	51	3%	14	7%	1	5%
Other/unknown	-	-	8	40%	482	20%	79	14%	189	12%	27	14%	19	95%
Subtotal	1	100%	20	100%	2,433	100%	576	100%	1,621	100%	200	100%	20	100%
Female adult or adolescent														
Injection drug use	-	-	-	-	64	9%	32	16%	39	18%	7	14%	-	-
Heterosexual contact	1	100%	5	83%	582	81%	156	80%	163	74%	37	74%	-	-
Other/unknown	-	-	1	17%	69	10%	8	4%	17	8%	6	12%	8	100%
Subtotal	1	100%	6	100%	715	100%	196	100%	219	100%	50	100%	8	100%
Child (<13 yrs. at diagnosis)														
Perinatal	-	-	-	-	39	89%	11	100%	5	56%	2	100%	-	-
Other/unknown	-	-	1	100%	5	11%	-	-	4	44%	-	-	-	-
Subtotal	-	-	1	100%	44	100%	11	100%	9	100%	2	100%	-	-
Total	2		27		3,192		783		1,849		252		28	

Notes:

Living with diagnosed HIV infection represents all persons ever diagnosed and reported with HIV and/or AIDS, who have not been reported as having died as of Dec. 31, 2021. Persons living with diagnosed HIV infection, represent persons living in Ohio as of Dec. 31, 2021, regardless of whether the person was a resident of Ohio at time of the initial HIV and/or AIDS diagnosis.

Asterisk (*) indicates rate not calculated for case count <5 due to unstable rates. Dash (-) indicates no cases were reported for the given category.

^a In this data, race/ethnicity is presented using the following categories: American Indian/Alaska Native; Asian/Pacific Islander; Black/African American; Hispanic/Latino; white; and multi-race. Those of Hispanic/Latino descent are included in the Hispanic/Latino category, regardless of race. They are not included in a race category. Asian/Pacific Islander includes Native Hawaiians.

^b Transmission categories are mutually exclusive, hierarchical risk categories determined by the CDC and system-calculated using sex at birth and risk factor history to determine mode of transmission. A person with multiple risks is only represented in the highest category based on the CDC hierarchical algorithm. Thus, transgender women are included in the male-to-male sexual contact transmission category if assigned male at birth, and risk factor history indicates sex with males. Please note this is for the categorization of HIV transmission categories only, and not to describe sexual orientation.

Source: Ohio Department of Health, HIV Surveillance Program. Data reported through June 30, 2022.

Ohio AIDS Drug Assistance Program (OHDAP) Utilization

The Ohio AIDS Drug Assistance Program helps people living with HIV and AIDS access medications needed to remain healthy. In 2020, OHDAP program enrolled 1,042 people living with HIV who utilized services in Region 3. Of those clients, 73% were virally suppressed at their most recent lab test date (i.e., viral load ≤ 200 copies/mL). There were 4,074 clients who accessed ADAP services in Ohio in 2020.

The Ryan White Part B program uses the following definitions to calculate viral suppression.

Numerator: Viral load ≤ 200 copies/mL.

Denominator: Number of clients who had at least one HIV medical visit during the measurement period. HIV medical visit is defined as having a CVS medication dispense payment by OHDAP for a medical appointment (indicated by various service codes), or having a case management-funded medical care service (indicated by various service codes).

Table 21: Ohio AIDS Drug Assistance Program utilization by race/ethnicity, Region 3, 2021

OHDAP Clients Enrolled from January 1, 2020, to December 31, 2020		
Race/ethnicity	% (N)	Virally Suppressed, %
Black/African American	51% (529)	70% (371)
White	38% (398)	74% (294)
Hispanic/Latino	9% (96)	81% (78)
Other	2% (19)	2% (14)
Total	1,042	73% (757)

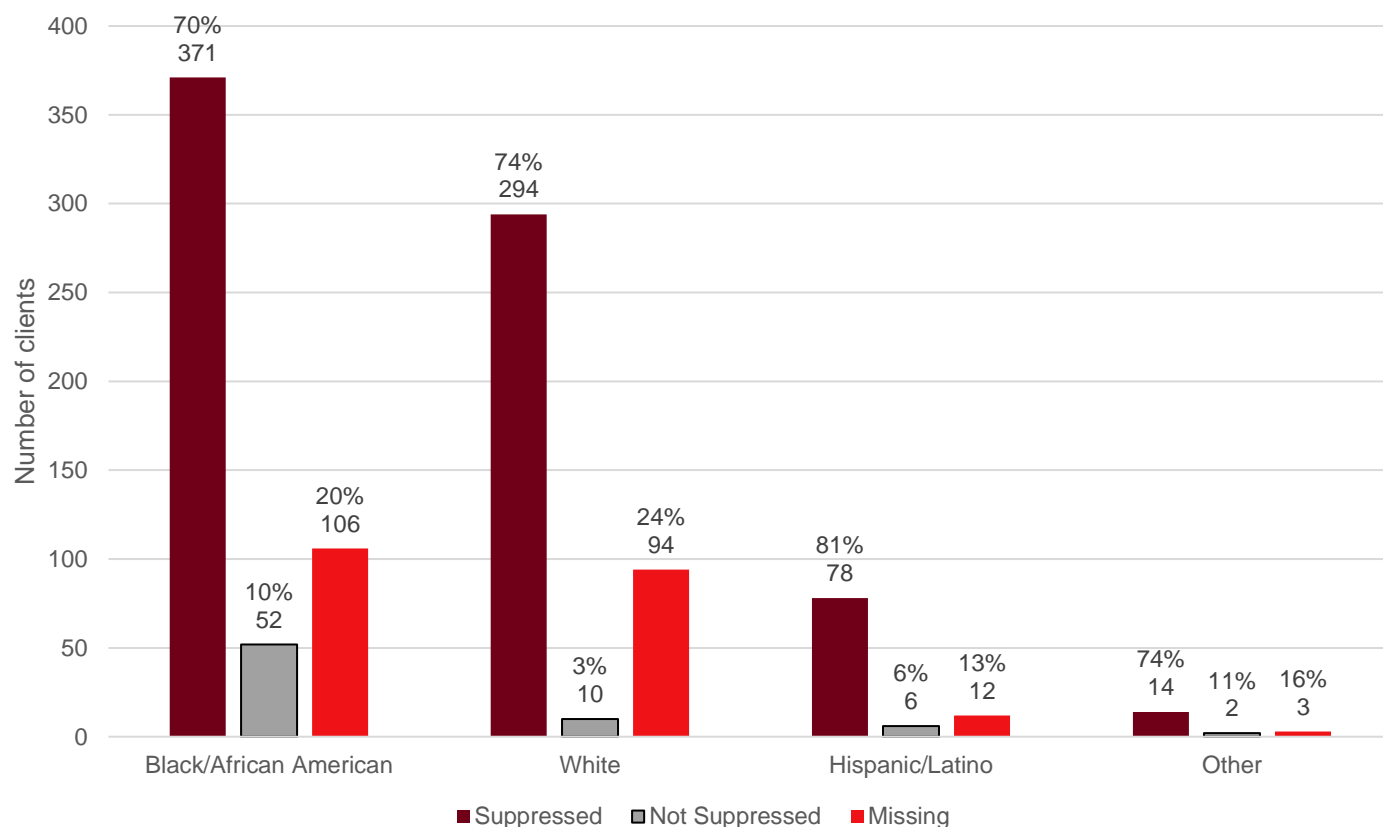
Notes:

Viral suppression includes missing/incomplete data. Clients enrolled in the Ryan White Part B Program may also receive services from other pay sources (e.g., other Ryan White Parts, Medicaid).

Source: Ryan White Application Database. Data reported through Feb. 14, 2022.

Among Black/African American clients in Region 3 enrolled in the OHDAP program in 2020, 70% were virally suppressed. Among white clients in Region 3 enrolled in the OHDAP program in 2020, 74% were virally suppressed. Among Hispanic/Latino clients in Region 3 enrolled in the OHDAP program in 2020, 81% were virally suppressed.

Figure 17: Viral suppression among clients utilizing the Ohio AIDS Drug Assistance Program by race/ethnicity, Region 3, 2020



Note: Clients enrolled in the Ryan White Part B Program may also receive services from other pay sources (e.g., other Ryan White Parts, Medicaid).
Source: Ryan White Application Database. Data reported through Feb. 14, 2022.

Linkage to Care and Continuum of Care

To calculate a care continuum and other related measurements for persons in Region 3 diagnosed with HIV infection, HIV Surveillance data are used, including information on CD4 levels of T-lymphocytes (CD4) and Viral Load (VL) lab results. CDC uses reported CD4s and VL lab results as a proxy measure to assess whether or not a person with HIV was in care. The following data presented on the Region 3 HIV Continuum of Care are population-based and centered on calculations made using CDC definitions and the information reported to HIV Surveillance, which includes data from the Ohio Disease Reporting System and the Ryan White Application Database.

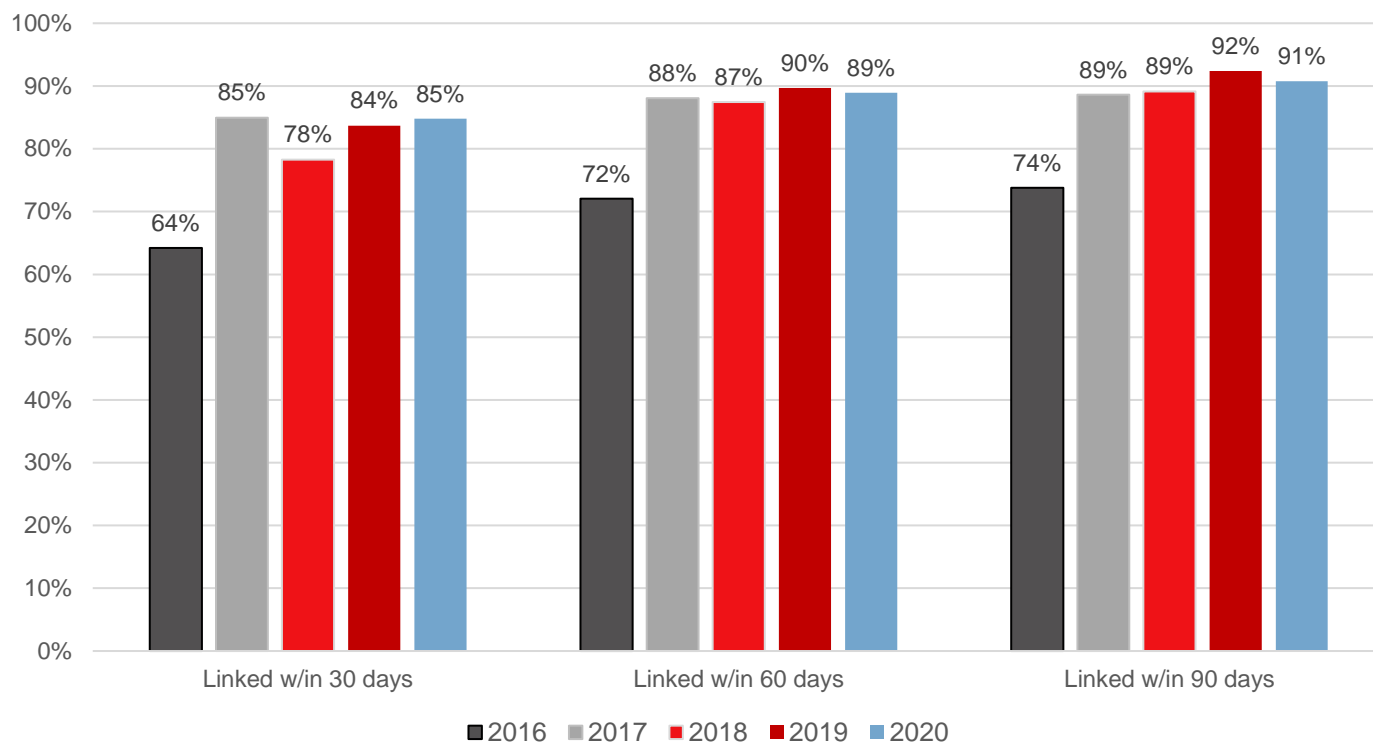
Linkage to Care

Numerator: The number of people in the denominator who had at least one CD4 and/or VL within 30, 60, and 90 days of the date of HIV diagnosis.

Denominator: The number of new diagnoses of HIV infection in Region 3 among persons aged ≥ 13 years in each year. For example, the denominator for 2020 is the number of new diagnoses of HIV infection in Region 3 in 2020 among persons aged ≥ 13 years (i.e., adults/adolescents).

The objective is for 85% of new diagnoses of HIV to be linked to care within 30 days of HIV diagnosis. Eighty-five percent of adults/adolescents diagnosed with HIV infection in Region 3 in 2020 were linked to care within 30 days of diagnosis, 89% were linked within 60 days, and 91% were linked within 90 days. Of those who were linked to care, the average length of time to be linked to care after diagnosis was 20 days. The number of persons who were linked to care within 30 days of diagnosis are also considered to have been linked within 60 and 90 days, and thus, the measures are cumulative. The percentage of persons diagnosed with HIV who were linked to care within 30 days in 2020, increased slightly compared with 2019, when 84% of persons diagnosed with HIV were linked to care within 30 days. In Ohio, 81% of persons diagnosed with HIV in 2020, were linked to care within 30 days.

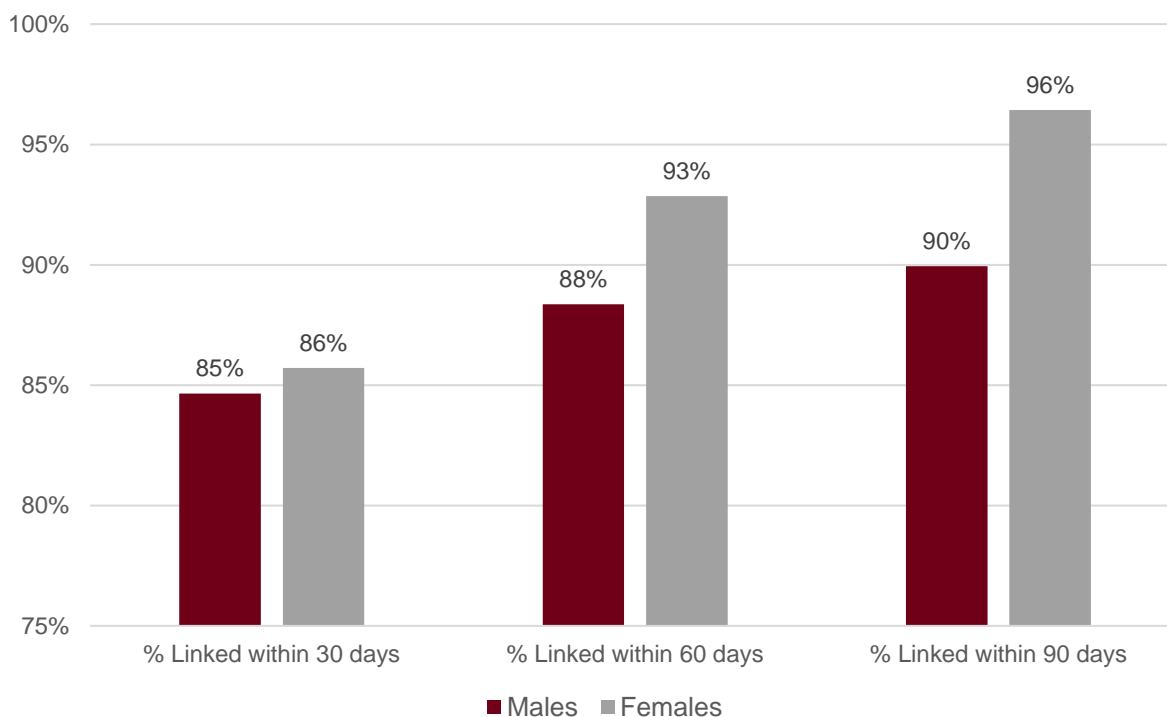
Figure 18: Linkage to care, Region 3, 2016-2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Sex at birth: Eighty-five percent of adult/adolescent males, and 86% of adult/adolescent females diagnosed with HIV in Region 3 in 2020, were linked to care within 30 days of diagnosis.

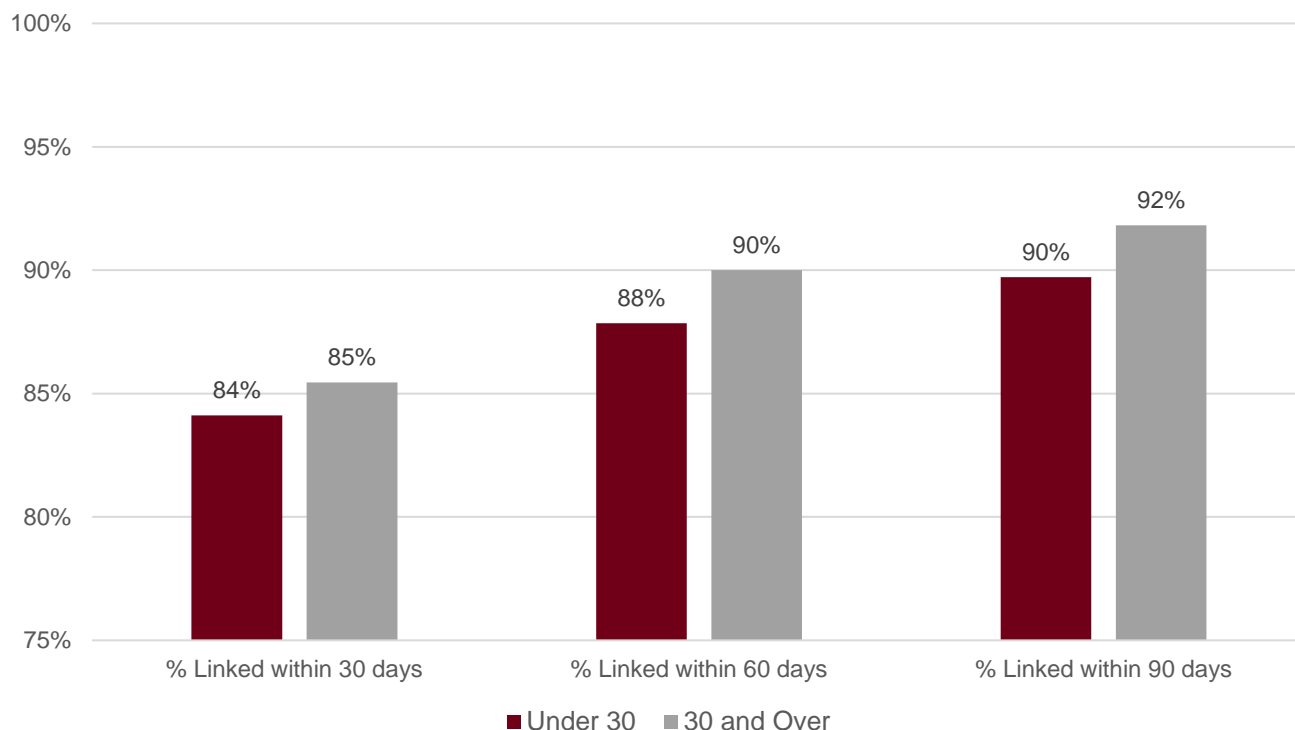
Figure 19: Linkage to care by sex at birth, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Age at diagnosis: Eighty-four percent of persons aged 13-29 years, and 85% of persons aged 30 and over diagnosed with HIV in Region 3 in 2020, were linked to care within 30 days of diagnosis.

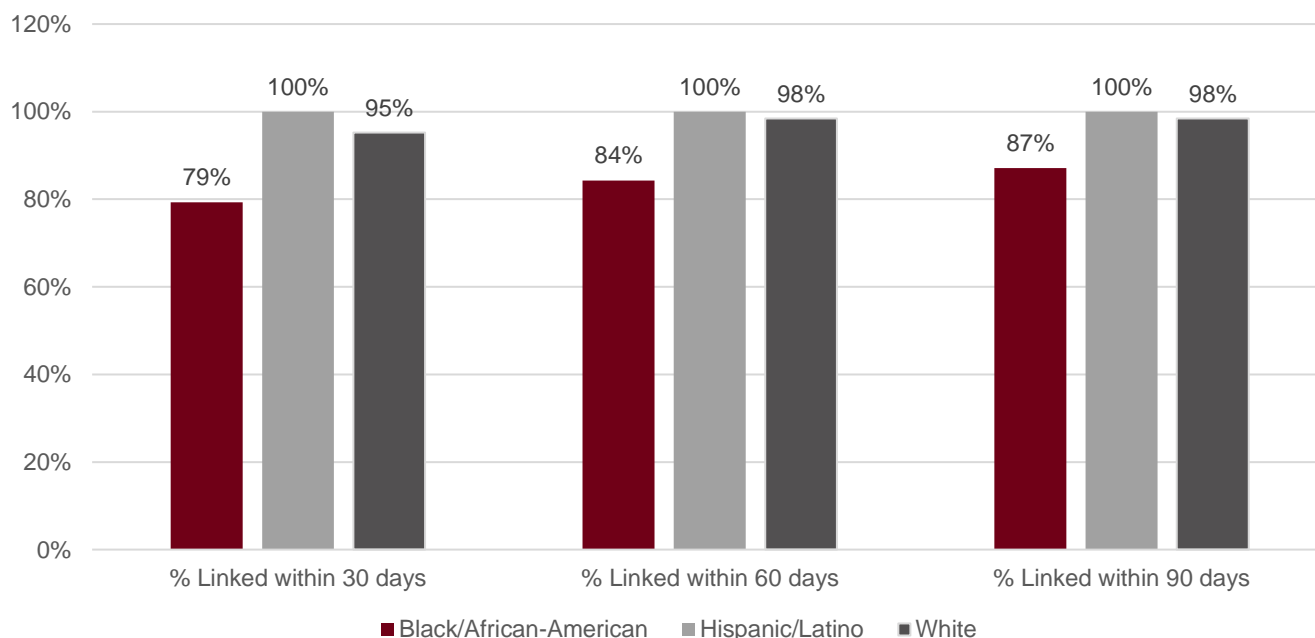
Figure 20: Linkage to care by age at diagnosis, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Race/ethnicity: Seventy-nine percent of Black/African American people, 100% of Hispanic/Latino people, and 95% of white people diagnosed with HIV in Region 3 in 2020, were linked to care within 30 days of diagnosis.

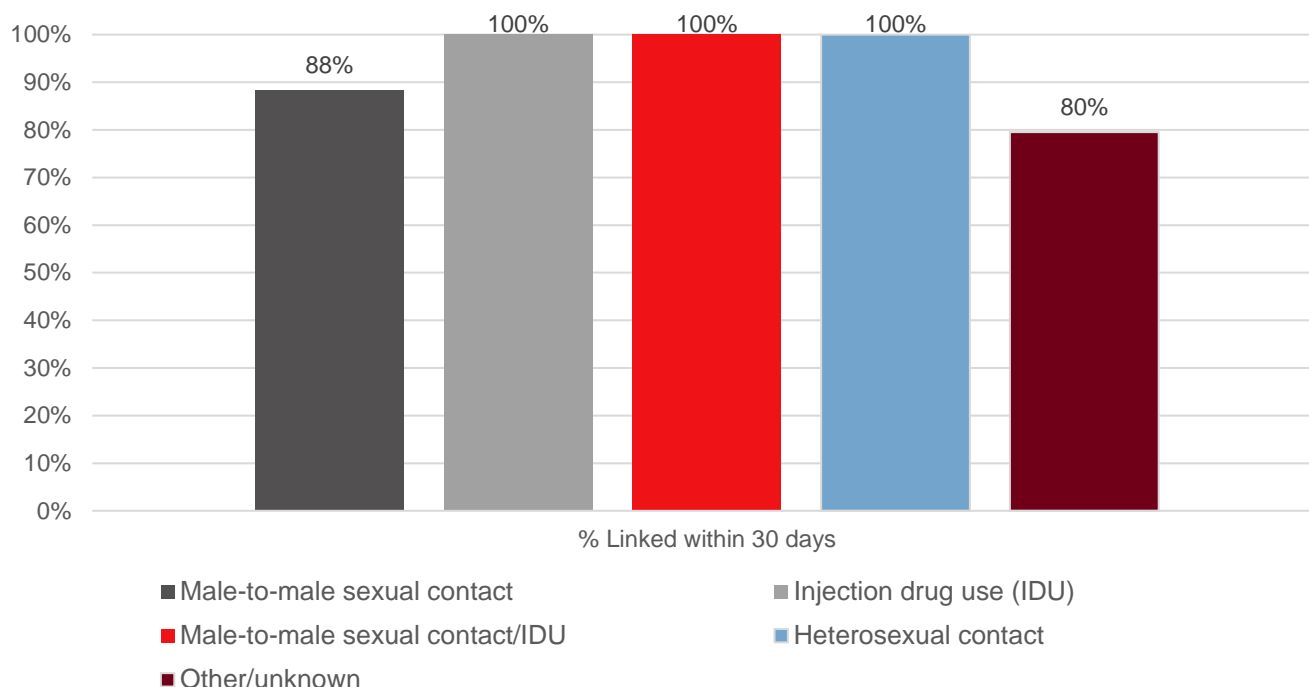
Figure 21: Linkage to care by selected race/ethnicity, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Transmission category: Eighty-eight percent of males with a transmission category of male-to-male sexual contact, and 100% of males with a transmission category of IDU diagnosed with HIV in Region 3 in 2020, were linked to care within 30 days of diagnosis. One hundred percent of males with a transmission category of male-to-male sexual contact/IDU, and 100% of heterosexual males diagnosed with HIV in Region 3 in 2020, were linked to care within 30 days of diagnosis.

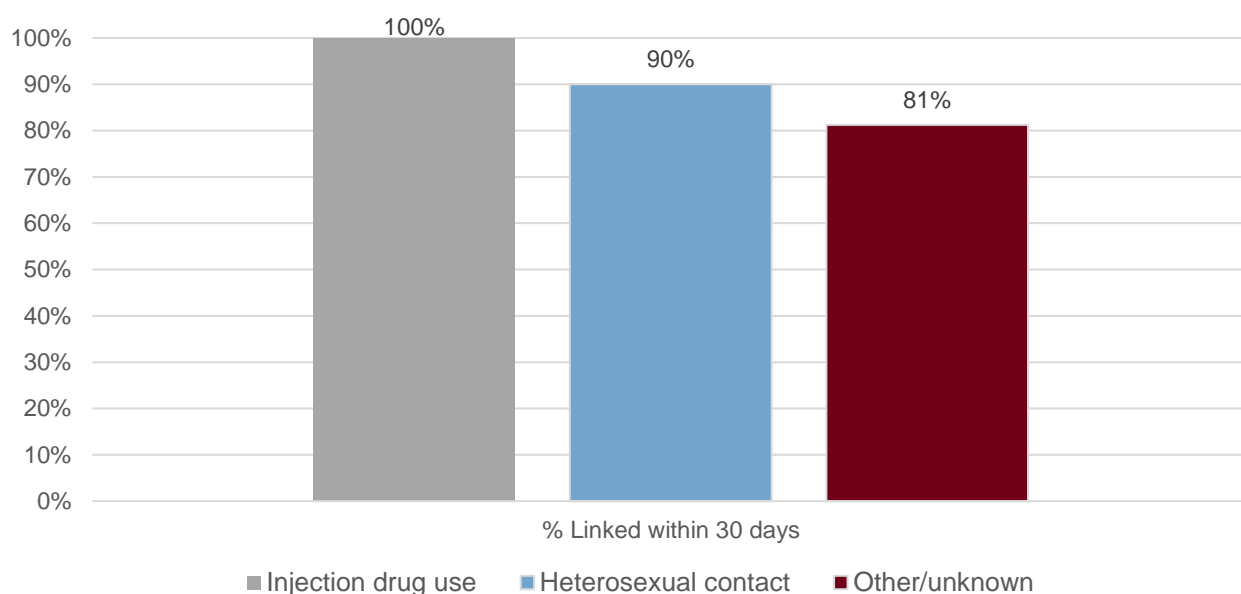
Figure 22: Linkage to care by transmission category, males, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

One hundred percent of females with a transmission category of IDU, and 90% of heterosexual females diagnosed with HIV in Region 3 in 2020, were linked to care within 30 days of diagnosis.

Figure 23: Linkage to care by transmission category, females, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Continuum of Care

The measures for Receipt of Care, Retained in Care, and Virally Suppressed are calculated using the same denominator, but each measure uses a different numerator.

Receipt of Care Numerator: The number of persons in the denominator who had at least one CD4 and/or VL through the end of the following year (e.g., living with HIV as of Dec. 31, 2020, and having a CD4 and/or VL in 2021).

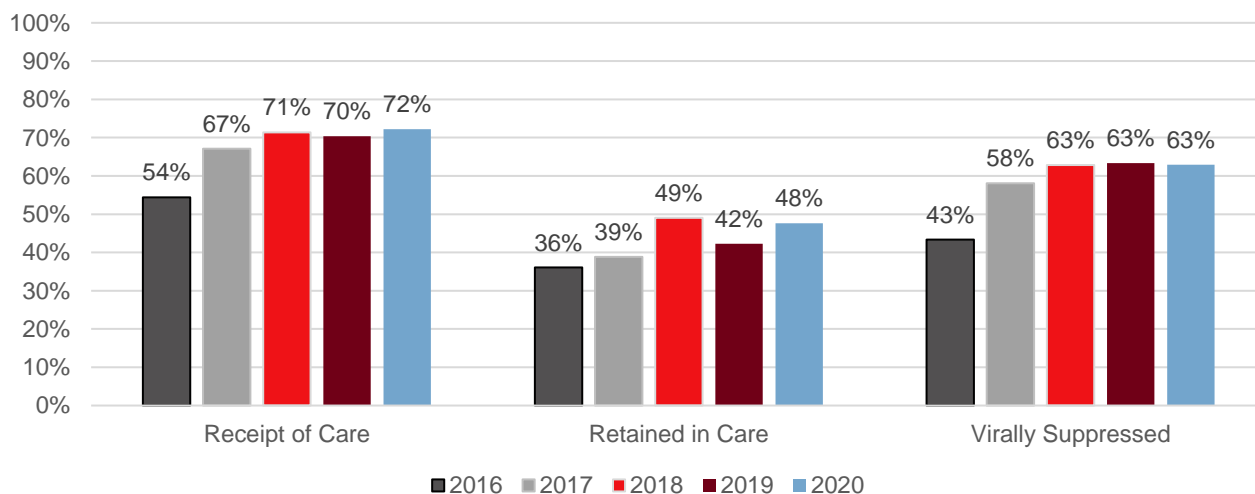
Retained in Care Numerator: The number of persons in the denominator who had at least two CD4 and/or VLs at least three months apart, through the end of the following year (e.g., living with HIV as of Dec. 31, 2020, and having at least two CD4/VL tests three months apart in 2021).

Virally Suppressed Numerator: The number of persons in the denominator whose most recent VL test in the following year was <200 copies/mL (e.g., living with HIV as of Dec. 31, 2020, and the most recent VL test in 2021 was <200 copies/mL).

Denominator: The number of adults/adolescents living with HIV infection through the end of each year, and still living in Region 3 at the end of the next year (e.g., living with HIV as of Dec. 31, 2020, and still living in Region 3 as of Dec. 31, 2021). Each of these measures uses the same denominator and thus the percentage for viral suppression may be higher than the percentage for retained in care (i.e., a person may be counted in the numerator for viral suppression because their most recent VL test was <200, but not counted in the numerator for retained in care because they did not have at least two tests, three months apart).

Of the persons living with diagnosed HIV in Region 3 at the end of 2020, 72% were in receipt of care, 48% were retained in care, and 63% were virally suppressed. Each of these measures uses the same denominator and thus the percentage for viral suppression may be higher than the percentage for retained in care (i.e., a person may be counted in the numerator for viral suppression because their most recent VL test was <200, but not counted in the numerator for retained in care because they did not have at least two tests, three months apart). However, of persons who were in receipt of care, 87% were virally suppressed. Twenty-eight percent of the persons living with HIV infection in Region 3 at the end of 2020, and still living in Region 3 at the end of 2021, did not have a CD4 or VL test in 2021. These persons are considered to be out of care, or have an 'unmet need'. The percentage of persons living with diagnosed HIV who received care or were retained in care increased from 2019 to 2020.

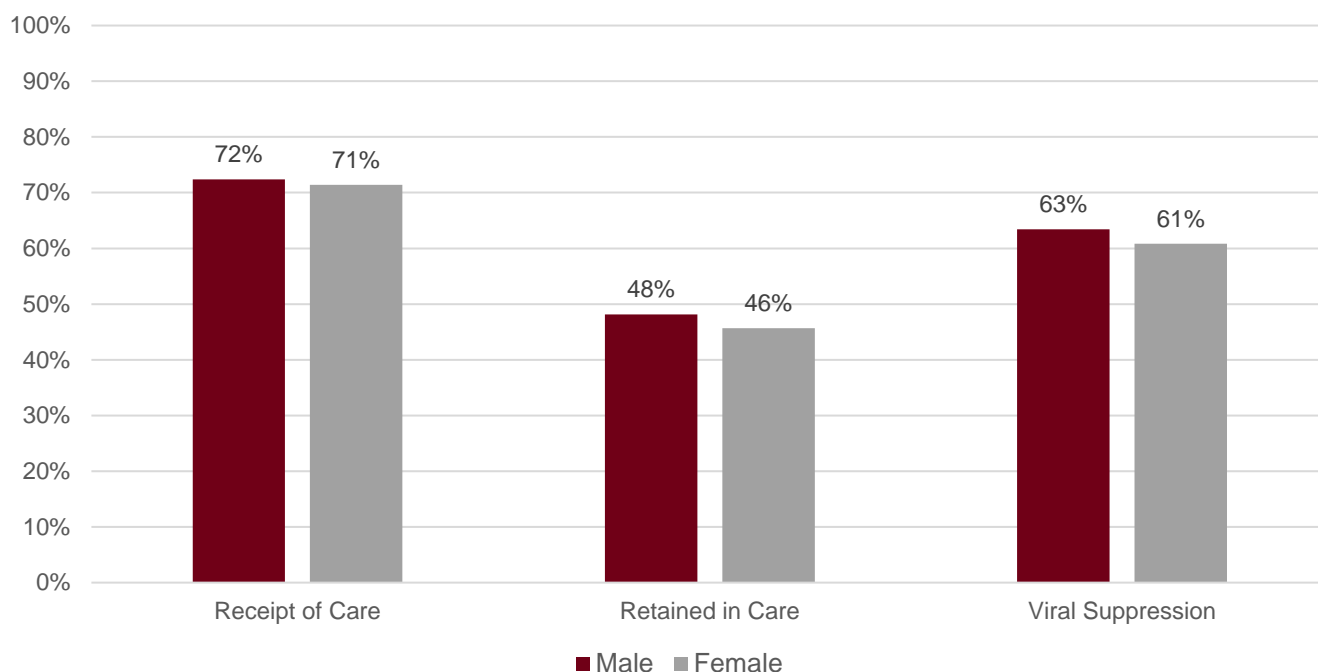
Figure 24: Continuum of care among persons living with diagnosed HIV infection, Region 3, 2016-2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Sex at birth: Of males living with diagnosed HIV in Region 3 at the end of 2020, 72% received care, 48% were retained in care, and 63% were virally suppressed. Of females living with diagnosed HIV in Region 3 at the end of 2020, 71% were in receipt of care, 46% were retained in care, and 61% were virally suppressed.

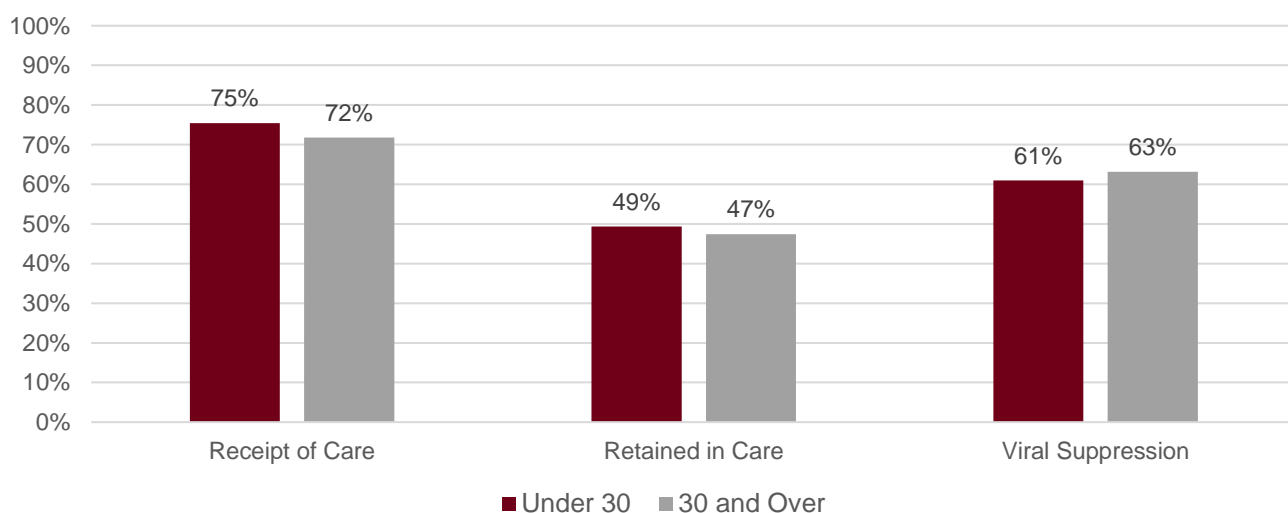
Figure 25: Continuum of care among persons living with diagnosed HIV infection by sex at birth, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Current age: Of persons aged 13 to 29 years living with diagnosed HIV in Region 3 at the end of 2020, 75% received care, 49% were retained in care, and 61% were virally suppressed. Of persons aged 30 years and older living with diagnosed HIV in Region 3 at the end of 2020, 72% were in receipt of care, 47% were retained in care, and 63% were virally suppressed.

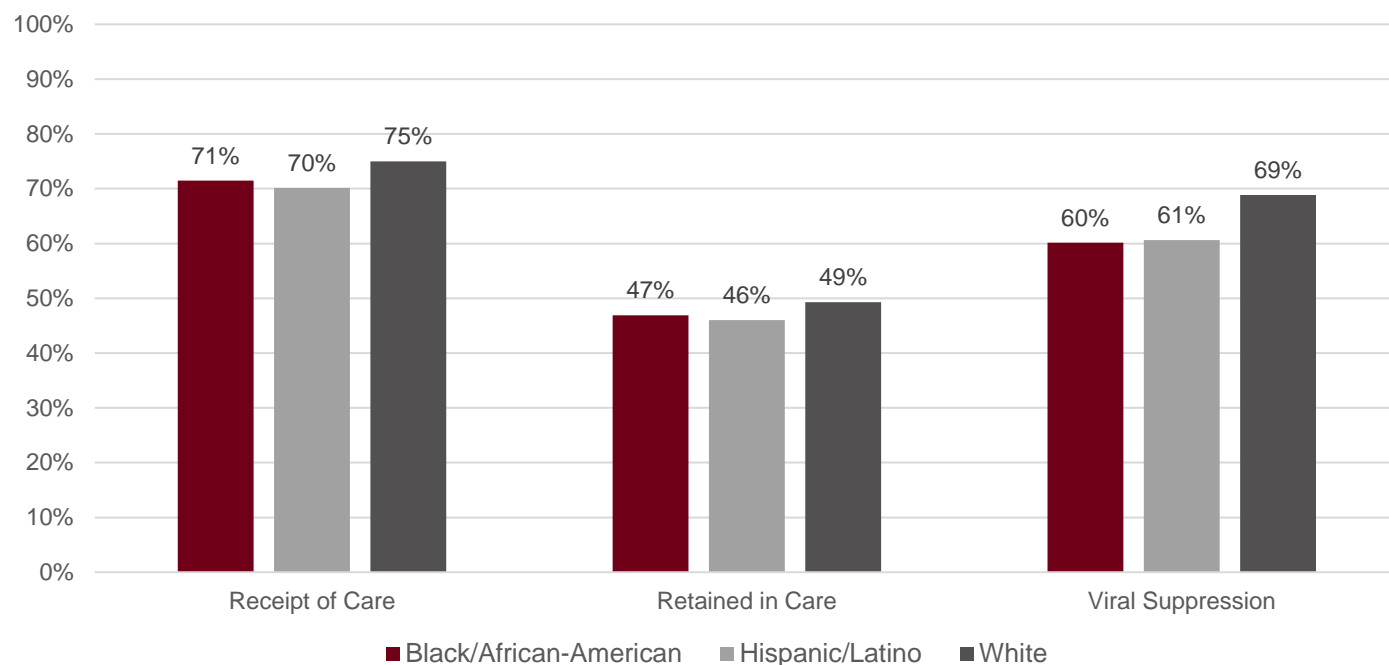
Figure 26: Continuum of care among persons living with diagnosed HIV infection by current age, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Race/ethnicity: Of Black/African American people living with diagnosed HIV in Region 3 at the end of 2020, 71% received care, 47% were retained in care, and 60% were virally suppressed. Of Hispanics/Latinos living with diagnosed HIV in Region 3 at the end of 2020, 70% received care, 46% were retained in care, and 61% were virally suppressed. Of white people living with diagnosed HIV in Region 3 at the end of 2020, 75% were in receipt of care, 49% were retained in care, and 69% were virally suppressed.

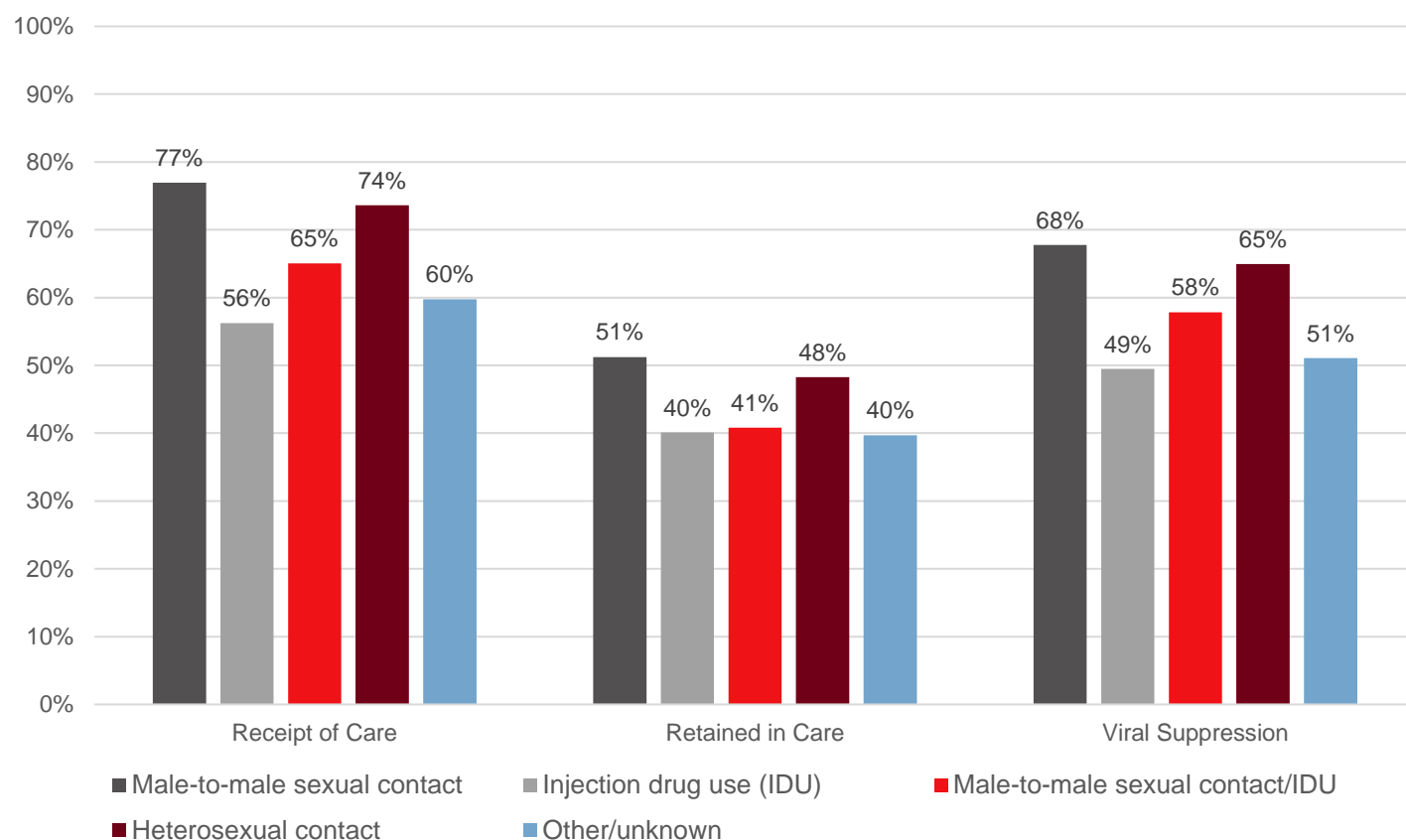
Figure 27: Continuum of care among persons living with diagnosed HIV infection by selected race/ethnicity, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Transmission category: Of males living with diagnosed HIV in Region 3 at the end of 2020 with a transmission category of male-to-male sexual contact, 77% received care, 51% were retained in care, and 68% were virally suppressed. Of males living with diagnosed HIV in Region 3 at the end of 2020 with a transmission category of IDU, 56% were in receipt of care, 40% were retained in care, and 49% were virally suppressed. Of males living with diagnosed HIV in Region 3 at the end of 2020 with a transmission category of male-to-male sexual contact/IDU, 65% received care, 41% were retained in care, and 58% were virally suppressed. Of males living with diagnosed HIV in Region 3 at the end of 2020 with a transmission category of heterosexual contact, 74% were in receipt of care, 48% were retained in care, and 65% were virally suppressed.

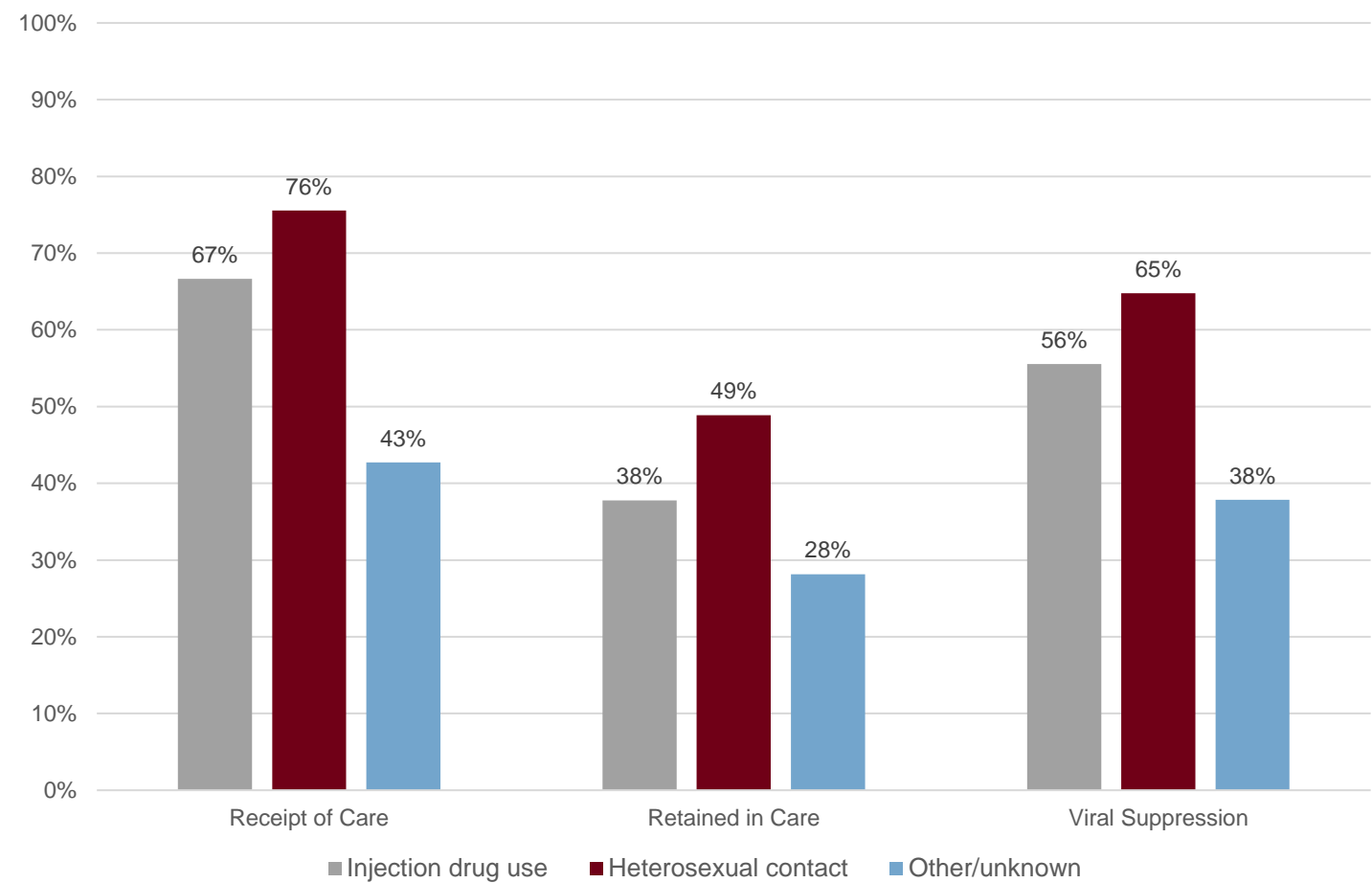
Figure 28: Continuum of care among males living with diagnosed HIV infection by transmission category, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Of females living with diagnosed HIV in Region 3 at the end of 2020 with a transmission category of IDU, 67% received care, 38% were retained in care, and 56% were virally suppressed. Of females living with diagnosed HIV in Region 3 at the end of 2020 with a transmission category of heterosexual contact, 76% received care, 49% were retained in care, and 65% were virally suppressed.

Figure 29: Continuum of care among females living with diagnosed HIV infection by transmission category, Region 3, 2020



Source: Ohio Department of Health, HIV Surveillance Program. Data reported as of May 1, 2022.

Ryan White Part B: There were a total of 1,761 clients enrolled in the Ryan White Part B program in Region 3 in 2020. **A decrease in the HIV care indicators among Ryan White clients in 2020 may not represent a true decline and may be due to a decrease in services accessed as a result of COVID-19.** In 2020, the Ohio Ryan White HIV/AIDS program (RWHAP) served 7,964 clients.

Table 22: Continuum of care measures as defined by the Ryan White Part B Program

Measure	Denominator
Receipt of Care	Number of Ryan White Part B clients (including clients enrolled in OHDAP) who had a least one medical visit (i.e., medical care appointment, prescription copayment, or medication dispense)
Measure	Numerator
Retained in Care	Number of clients who had at least two medical visits
Received Anti-Retroviral Therapy (ART)	Number of clients who received ART, as evidenced by a CVS medication dispense
Virally Suppressed	Number of clients whose most recent documented viral load ≤ 200 copies/mL

Table 23: Continuum of care among Ryan White Part B clients, Region 3, 2020

	Ohio	Region 3
Enrolled in Ryan White Part B	7,964	1,761
Receipt of Care	5,652	1,333
Received Antiretroviral Therapy (ART)	3,783	1,025
Retained in Care	1,662	334
Virally Suppressed	4,468	989

Note: Clients enrolled in the Ryan White Part B Program may also receive services from other pay sources (e.g., other Ryan White Parts, Medicaid). Source: Ryan White Application Database. Data reported through Feb. 14, 2022.

Table 24: Continuum of care measures as defined by Health Resources and Services Administration (HRSA)

	Numerator	Denominator
Linked to Care	Clients with first service date within 90 days of their HIV diagnosis date.	Clients diagnosed with HIV in 2018 and who received a service paid for by an Ohio Ryan White Part grantee in 2018.
Retained in Care	Clients who received at least 2 services in 2018, at least 90 days apart.	Clients with a service in 2018 paid by an Ohio Ryan White Part Grantee.
On ART	Clients prescribed ART (as indicated by a current ART medication identified in CAREWare).	Clients with a service in 2018 paid by an Ohio Ryan White Part Grantee.
Virally Suppressed	Clients whose most recent viral load test is ≤ 200 copies per ml in the service year.	Clients with a service in 2018 paid by an Ohio Ryan White Part Grantee.

Table 25: Viral suppression among Part A clients linked to care, by special populations, Region 3, 2018

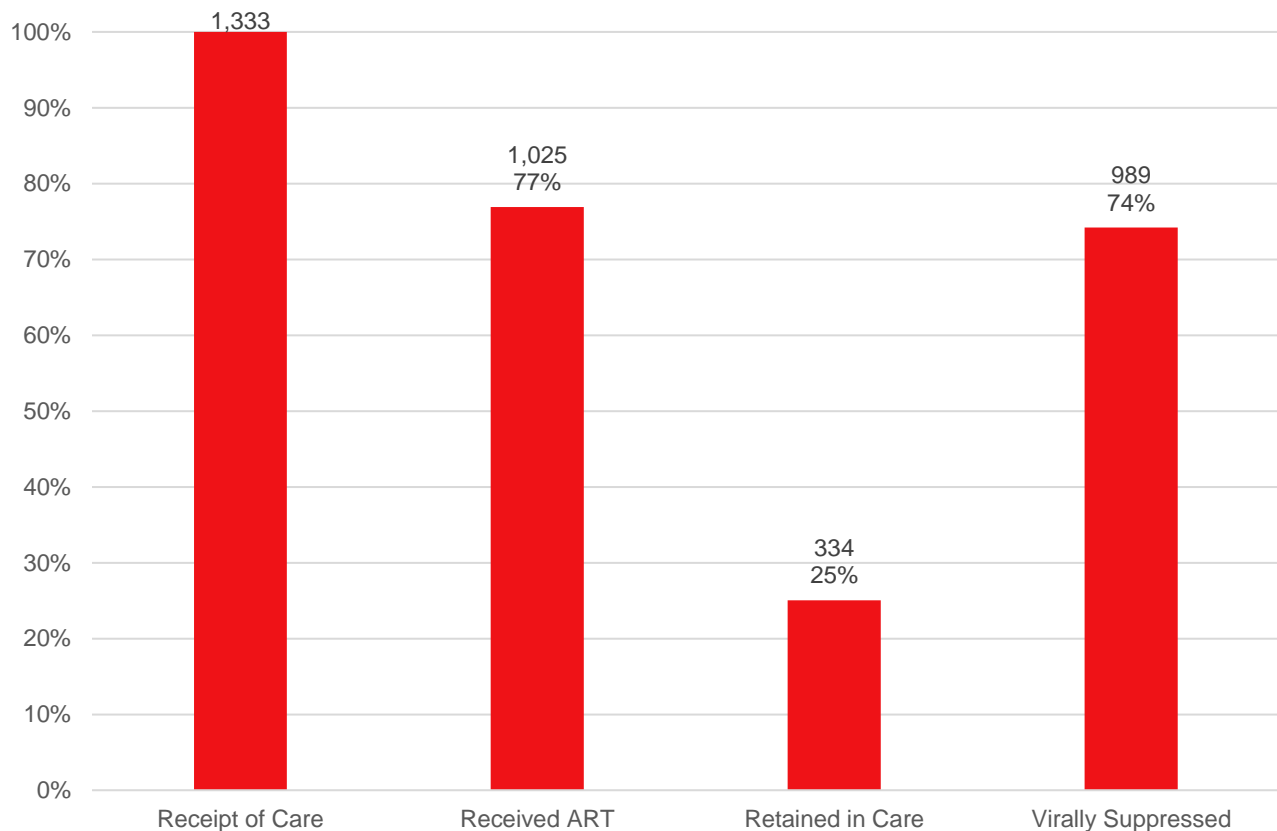
Population	Numerator	Denominator	Percent
Youth 13-24	60	88	68.2%
Age 25-29	156	198	78.8%
MSM	997	1,175	84.9%
MSM of Color	638	774	82.4%
Women of Color	385	445	86.5%
Transgender	38	45	84.4%
IDU Risk Factor	79	85	92.9%
Unstable Housing	116	158	73.4%
FPL <=138%	1,270	1516	83.8%
FPL 139-500%	522	592	88.2%

Note: The priority population viral suppression rates displayed depicts the linked to care population. As Ryan White Part A is a payer of last resort, the program doesn't receive medical data for all clients as some clients have other insurance options to pay for medical visits. Therefore, the percent of clients who are virally suppressed is calculated by dividing the number of virally suppressed clients who had a Ryan White Part A-funded medical visit, viral load test, or CD4 test within the measurement year by the total number of clients who had a Ryan White Part A-funded medical visit, viral load test, or a CD4 test within the measurement year.

Source: Ryan White Part A-Cleveland. Data reported through Nov. 30, 2019.

Of Region 3 Ryan White Part B clients in 2020, 77% received ART, 25% were retained in care, and 74% were virally suppressed. In comparison, 79% of Ryan White clients in Ohio were virally suppressed in 2020.

Figure 30: Continuum of care among Ryan White Part B clients, Region 3, 2020



Note: Clients enrolled in the Ryan White Part B Program may also receive services from other pay sources (e.g., other Ryan White Parts, Medicaid).

Source: Ryan White Application Database. Data reported through Feb. 14, 2022.

PREVENT: Prevent new HIV transmissions by using proven interventions, including Pre-exposure Prophylaxis (PrEP) and Syringe Service Programs

Pre-Exposure Prophylaxis (PrEP)

PrEP is a drug taken by individuals who are at high risk of acquiring HIV to prevent disease transmission. From 2017 to 2021, PrEP users in Region 3 increased from 759 to 1,622.

Table 26: PrEP utilization, Region 3, 2017-2021

	2017		2018		2019		2020		2021	
PREP Utilization	Users	Rate/ 100,000	Users	Rate/ 100,000	Users	Rate/ 100,000	Users	Rate/ 100,000	Users	Rate/ 100,000
Ashtabula County	19	22	26	31	33	40	35	42	44	54
Cuyahoga County	596	56	771	73	888	84	931	88	1,226	116
Geauga County	17	22	24	30	30	38	32	40	41	51
Lake County	42	21	58	29	74	38	78	40	100	51
Lorain County	55	21	76	29	97	37	102	39	131	50
Medina County	30	20	39	26	54	35	63	41	80	53
Ohio	3,602	37	4,869	49	6,221	63	6,901	70	8,636	88

Note: Symphony Health provided Gilead with national, electronic, patient-level prescription data from an overall sample that represents more than 54,000 pharmacies, 1,500 hospitals, 800 outpatient facilities, and 80,000 physician practices across the U.S. This is an open sample of commercially available data, which excludes entities that do not make their data available to Symphony Health, such as closed healthcare systems like Kaiser Permanente. The dataset contains prescription, medical, and hospital claims data for all payment types, including commercial plans, Medicare Part D, cash, assistance programs, and Medicaid. The dataset also includes data from some clinics in academic settings.

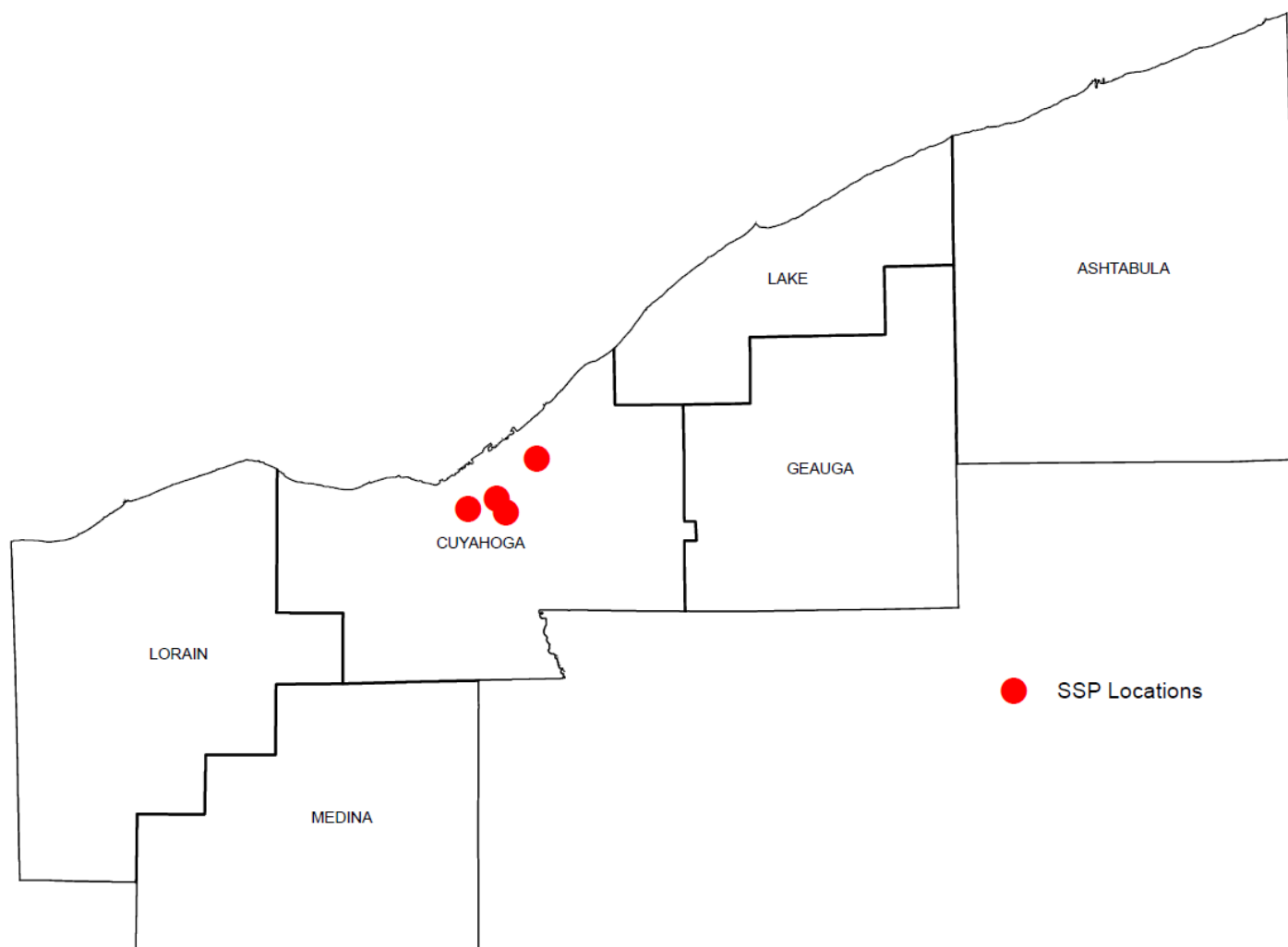
Source: Sullivan PS, Woodyatt C, Koski C, Pembleton E, McGuinness P, Taussig J, Ricca A, Luisi N, Mokotoff E, Benbow N, Castel AD. A data visualization and dissemination resource to support HIV prevention and care at the local level: analysis and uses of the AIDSvu Public Data Resource. Journal of Medical Internet Research. 2020;22(10):e23173.

PAPI (Prevention Assistance Program Interventions) is a program for HIV-negative Ohioans who have or are seeking a PrEP prescription. PAPI pays for PrEP-related medical costs, including office and medical copays, copays associated with required laboratory work, prescription copays that are not covered by a patient assistance program, and medical services for people who are not eligible for insurance. There are 15 agencies in Ohio that offer these services. In Region 3, PAPI served three clients in 2019, 13 clients in 2020, and 24 clients in 2021. It is important to note that PAPI only captures information on clients who are accessing payment assistance, but the PrEP help navigators at these facilities provide navigation services to anyone seeking or referred to PrEP services.

Syringe Services Programs and Other Substance Use-related Data

Ohio law gives communities the authority to pursue and operate Syringe Services Programs (SSP) (referred to in the law as a “bloodborne infectious disease prevention program”) through their local board of health following a prescribed process and operating requirements.

Figure 31: Region 3 syringe service programs, 2021



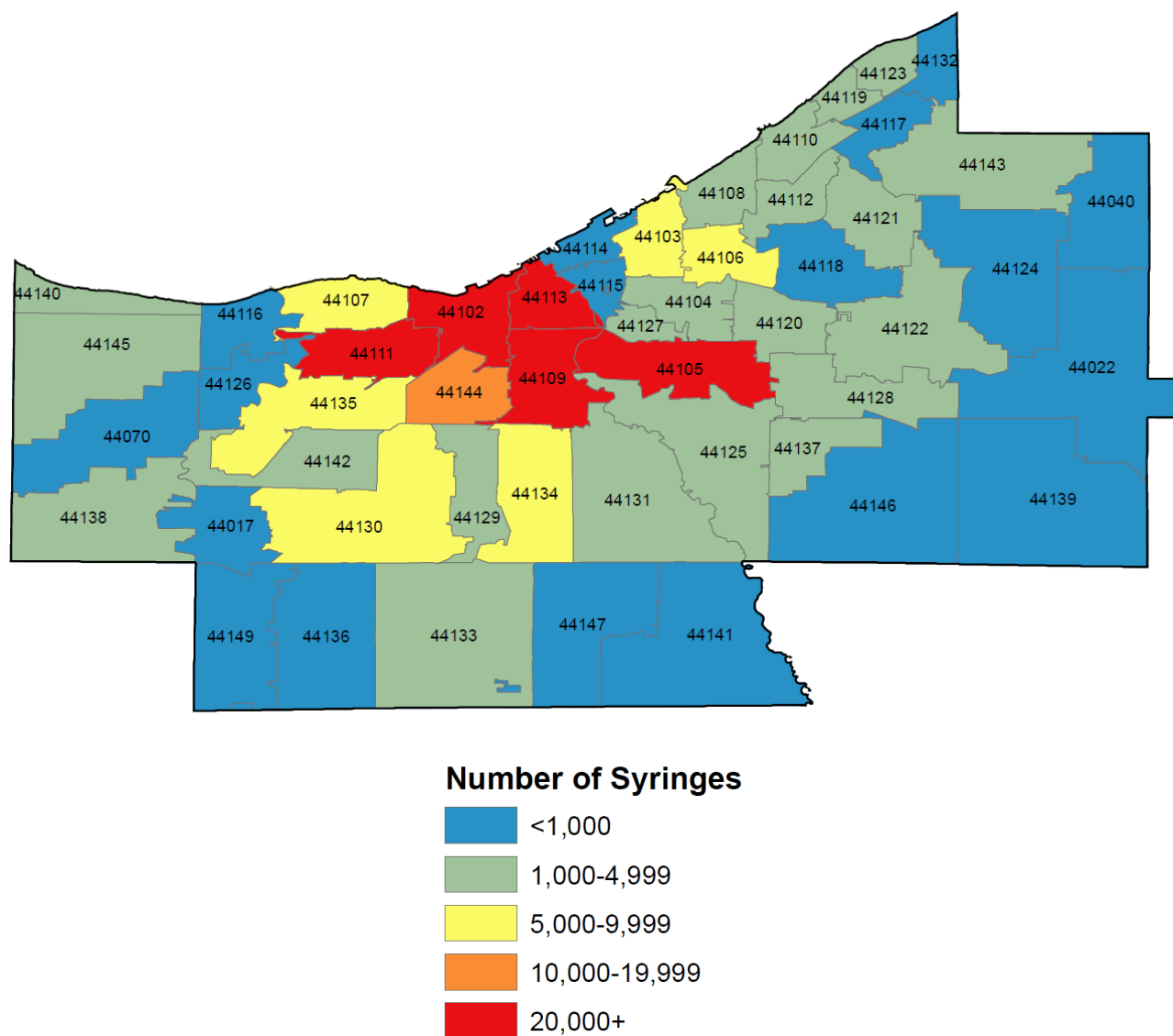
Source: HIV Prevention Regions, Ohio, Mar. 22, 2022.

In Region 3, MetroHealth serviced 2,206 clients from April 2020 to August 2021, distributing over 400,000 syringes. CircleHealth distributed 142,888 syringes from January through August 2021.

Circle Health Services houses the only syringe exchange program in Cuyahoga County. The program runs a one-for-one exchange of syringes for individuals. The impact of the syringe exchange program has been integral in keeping transmission of HIV among PWID very low in Cuyahoga County. 2018, Circle Health Services distributed 295,556 syringes. Ninety percent of these were for clients residing in Cuyahoga County.

The zip codes in Cuyahoga County having the highest number of syringes distributed in 2018 (based on client residence) were 44109 (n=50,955), 44102 (n=35,968), 44113 (n=28,005), and 44111 (n=22,201).

Figure 32: Number of syringes distributed by ZIP Code, Cuyahoga County, 2018



Source: Circle Health Services, 2018

RESPOND: Respond quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them

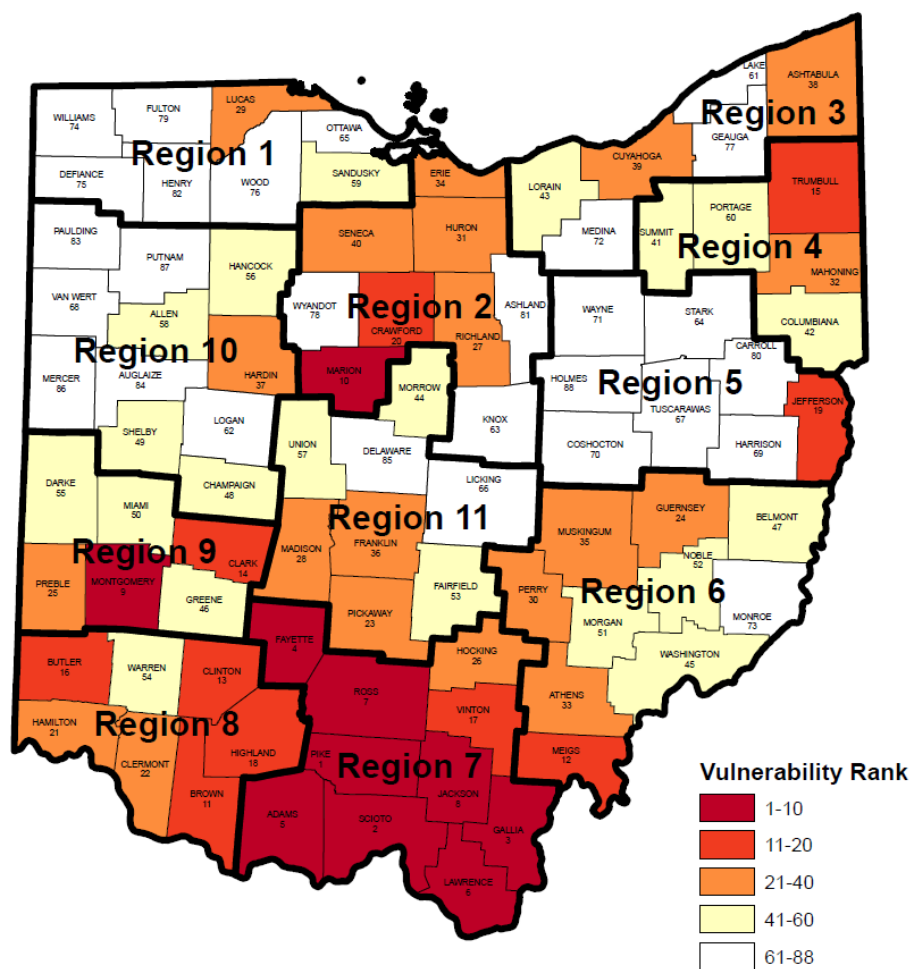
Time-Space analysis: ODH performs monthly time-space cluster analyses. The following criteria are considered when determining if time-space clusters require further investigation: size of the transmission cluster, evidence of ongoing risk behavior (e.g., injection drug use), late diagnoses, pregnant women, local epidemiology, and resource availability. Time-space reports are routinely and consistently monitored for potential outbreaks.

Table 27: New reported diagnoses of HIV infection identifying IDU as the mode of transmission and new reported diagnoses of HIV infection, Region 3, 2020-2022

County ^a	Jan - Dec 2020		Jan - Dec 2021		Jan - Dec 2022		Jan - Nov 2022	
	IDU No.	Total HIV No.	IDU No.	Total HIV No.	IDU No.	Total HIV No.	IDU No.	Total HIV No.
Ashtabula	-	3	-	4	-	5	-	5
Cuyahoga	5	186	8	164	5	127	5	124
Geauga	-	1	-	2	1	3	1	3
Lake	1	6	1	10	3	15	3	13
Lorain	1	19	1	20	4	20	4	19
Medina	-	2	-	2	-	6	-	5
Region 3	7	214	10	198	13	171	13	164
Ohio	91	888	131	915	93	869	86	784

Notes:
Includes HIV transmission categories injection drug use (IDU) and male-to-male sexual contact/IDU. IDU and male-to-male sexual contact/IDU are mutually exclusive mode of transmission categories.
County reflects county of residence at time of earliest diagnosis. Cases diagnosed while in a state or federal correctional facility or whose county is unknown are included in 'No County.'
Dash (-) indicates no cases were reported for the given category.
Vulnerable county per CDC assessment of national injury data on overdose deaths, opioid prescriptions, and high poverty.
Vulnerable county per ODH assessment of county opioid doses dispensed per capita, overdoses per capita, age-adjusted unintentional drug overdose death rates, total (acute and chronic) Hepatitis C Virus 3-year average rates, reported new diagnoses of HIV infection 3-year average rates, and 5-year average percentage of population below 100% federal poverty level.
Source: Ohio Department of Health, HIV Surveillance Program. Data reported through Feb. 28, 2023.

Vulnerable county assessment: ODH conducted a vulnerable county assessment to determine areas at high risk for 1) opioid overdoses, and 2) bloodborne infections (i.e., HIV, Hepatitis C, Hepatitis B associated with non-sterile drug injection). This vulnerable county assessment was used to develop plans that strategically allocate prevention and intervention services, and distribute findings to key stakeholders. Data was obtained from multiple sources to reflect indicators plausibly associated with opioid overdoses or injection-related HIV and/or Hepatitis C infections. Indicators were selected based on stakeholder input regarding the recent burden of the opioid-related epidemic in Ohio, and in consultation with internal and external partners. An overall rate average was calculated for each county using six indicators, and counties were then ranked by severity. In the vulnerable county assessment, it was determined that Pike, Scioto, Gallia, Fayette, Adams, Lawrence, Ross, Jackson, Montgomery, and Marion counties were ranked as the most vulnerable to an injection-related HIV and/or Hepatitis C outbreak.



Additional Sources

1. Health Resources and Services Administration. Ryan White HIV/AIDS Program Annual Client-Level Data Report 2020. www.hab.hrsa.gov/data/data-reports. Published December 2021.
2. U.S. Health and Human Services. (2019, August 18). America's HIV Epidemic Analysis Dashboard (AHEAD). Retrieved from <https://ahead.hiv.gov>.
3. Centers for Disease Control and Prevention. HIV Surveillance Report, 2020; vol. 33. <https://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published May 2022. Accessed Feb. 16, 2023.

Evaluation

Evaluation survey: The purpose of the evaluation survey is to gather feedback from users of this *HIV/AIDS Integrated Epidemiologic Profile for Ohio*. We would appreciate your feedback to help inform the development of future profiles. Please complete the following survey regarding the ease of use, contents, organization, and format of the profile. Thank you.

<https://www.surveymonkey.com/r/KBSRK33>