

HIV Disease Outcomes Among People Living With HIV Aged 50 and Older in Pennsylvania

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Pennsylvania
Department of Health

Quick Note

Data for the years 2020 and 2021 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing, care-related services, and case surveillance activities in state/local jurisdictions. Therefore, more time and data are needed to accurately assess COVID-19's impact on HIV disease in Pennsylvania (Pa.).



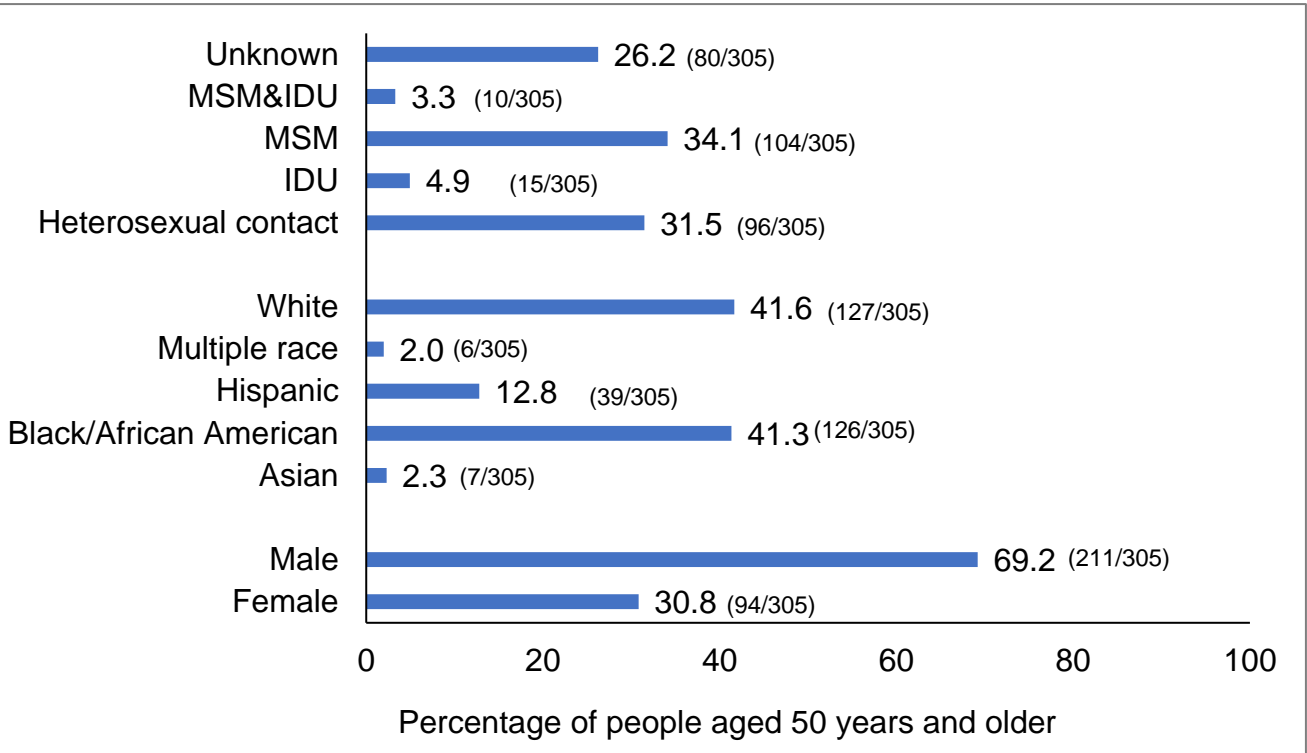
Overview of HIV Among People Newly Diagnosed With HIV Disease at Age 50 and Older, PA, 2019-2023

- From 2019 to 2023, a total of 4,527 individuals were newly diagnosed with HIV disease in PA.
- Individuals aged 50 and older at the time of HIV diagnosis accounted for 15.9% (722/4,527) of all diagnoses in the five-year period.
- Concurrent diagnosis accounted for 23.5% (1,065/4,527) of all newly diagnosed HIV disease during the five-year period.

Overview of HIV Among People Newly Diagnosed With HIV Disease at Age 50 and Older, PA, 2019-2023, Cont'd

- Individuals aged 50 and older at the time of HIV diagnosis accounted for 28.6% (305/1,065) of all concurrent diagnoses in the 5-year period.
- Among individuals aged 50 and older, concurrent diagnosis accounted for 42.2% (305/722) of all newly diagnosed HIV disease during the five-year period.

Concurrent HIV Diagnosis Among People Aged 50 and Older by Selected Characteristics, PA, 2019-2023 (N=305)



Number of Persons Living With HIV (PLWH) Aged 50 Years and Older by Selected Characteristics in PA, 2023

Selected characteristics	Number	Percent
Total	24,326	100
Sex/Gender		
Female	7,004	28.8
Male	17,196	70.7
AGI* & Transgender	126	0.5
Transmission mode		
Heterosexual contact	7,605	31.3
IDU	5,145	21.2
MSM	8,370	34.4
MSM&IDU	1,166	4.8
Other**	2,040	8.4

*AGI: Additional Gender Identity

**Other= No Risk Reported (NRR), No Identified Risk(NIR), Pediatric mode,
Pediatric NRR, Pediatric NIR, and pediatric other

Data source: Pa. HIV surveillance



Number of PLWH Aged 50 Years and Older by Selected Characteristics in Pennsylvania, PA, 2023 (Cont'd)

Selected characteristics	Number	Percent
Race/ethnicity		
American Indian/Alaska Native (AI/AN)	23	0.1
Asian	172	0.7
Black/African American	10,353	42.6
Hispanic	4,433	18.2
Multiple race	1,217	5.0
Native Hawaiian/Other Pacific Islander (NHPI)	13	0.1
White	8,115	33.4
Stage of HIV Disease		
HIV Stage 0-2	8,736	35.9
HIV Stage 3 (AIDS)	15,590	64.1

*AI/AN: American Indian or Alaska Native

**NHPI: Native Hawaiian or Other Pacific Islander

Data source: PA HIV surveillance



Number PLWH Aged 50 and Older at Year-end in Ryan White HIV/AIDS Program Part B Subrecipients Region , PA, 2023

Regional subrecipients	Age at year-end 2023				Total
	≤49		≥50		
	No.	%	No.	%	No.
AIDSNET	1,633	38.2	2,637	61.8	4,270
DHH	10,374	43.0	13,766	57.0	24,140
NCDAC	520	41.5	733	58.5	1,253
NE-UWWW	700	44.8	863	55.2	1,563
PTP	423	42.0	583	58.0	1,006
SC-FHCCP	2,101	41.4	2,974	58.6	5,075
SW-JHF	2,421	46.6	2,770	53.4	5,191
Total	18,172	42.8	24,326	57.2	42,498

Data source: Pa. HIV surveillance



Assessing HIV Care Outcomes, PA.

Quick notes:

- Monitoring HIV care outcomes using eHARS data is dependent upon complete reporting of HIV-related laboratory results (including CD4+ T-lymphocyte [CD4], viral load, and genotype sequences) to the HIV surveillance program.
- Caution should be used when interpreting data because PADOH just recently implemented laws and regulations that require the reporting of all results.
- Data on HIV care outcomes will be presented up to year 2023.
- This analysis was completed using the Monitoring Care Outcomes SAS program and User Guide prepared by CDC.
- Data for linkage to care is for the year 2023 only.
- Data for receipt of care, retention in care and viral suppression was among persons aged ≥ 13 years with HIV disease diagnosed by December 31, 2022, and alive by December 31, 2023.



Stage of Disease at Time of HIV Diagnosis in Persons Aged ≥50 Years, PA, 2023

Characteristics	Total No.	Stage 0		Stage 1		Stage 2		Stage 3		Stage Unknown	
		No.	%	No.	%	No.	%	No.	%	No.	%
Sex at Birth/Gender											
Male	104	8	7.7	16	15.4	24	23.1	39	37.5	17	16.3
Female	52	2	3.8	9	17.3	15	28.8	20	38.5	6	11.5
Race/ethnicity											
AI/AN*	-	-	-	-	-	-	-	-	-	-	-
Asian	-	-	-	-	-	-	-	-	-	-	-
Black/African American	65	3	4.6	11	16.9	22	33.8	21	32.3	8	12.3
Hispanic/Latino	28	0	0	1	3.6	8	28.6	16	57.1	3	10.7
NHPI**	-	-	-	-	-	-	-	-	-	-	-
White	57	7	12.3	11	19.3	9	15.8	19	33.3	11	19.3
Multiple races	-	-	-	-	-	-	-	-	-	-	-
Unknown races	-	-	-	-	-	-	-	-	-	-	-
Transmission Category											
MSM	45	2	4.4	11	24.4	9	20	20	44.4	3	6.7
IDU	-	-	-	-	-	-	-	-	-	-	-
Male	-	-	-	-	-	-	-	-	-	-	-
Female	-	-	-	-	-	-	-	-	-	-	-
MSM & IDU	-	-	-	-	-	-	-	-	-	-	-
Heterosexual contact											
Male	16	0	0	1	6.3	5	31.3	7	43.8	3	18.8
Female	24	1	4.2	6	25	7	29.2	9	37.5	1	4.2
Other	-	-	-	-	-	-	-	-	-	-	-
Male	34	6	17.6	3	8.8	7	20.6	9	26.5	9	26.5
Female	26	1	3.8	3	11.5	8	30.8	9	34.6	5	19.2
Total	156	10	6.4	25	16	39	25	59	37.8	23	14.7

Stage of disease at time of HIV diagnosis is based on the first CD4 test performed or documentation of an AIDS-defining condition ≤ 3 months (≤ 91 days) after a diagnosis of HIV infection.

*AI/AN: American Indian or Alaska Native; **NHPI: Native Hawaiian or Other Pacific Islander

Data source: Pa. HIV surveillance



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Linkage to HIV medical Care After HIV diagnosis in Persons aged ≥50 Years, PA, 2023

Characteristics	Linkage within 30 days				
	Age ≥ 50	≥1 Care visits		No Care visits	
	No.	No.	%	No.	%
Sex at Birth/Gender					
Male	104	83	79.8	21	20.2
Female	52	47	90.4	5	9.6
Race/ethnicity					
AI/AN*	-	-	-	-	-
Asian	-	-	-	-	-
Black/African American	65	53	81.5	12	18.5
Hispanic/Latino	28	24	85.7	4	14.3
NHPI**	-	-	-	-	-
White	57	47	82.5	10	17.5
Multiple races	-	-	-	-	-
Unknown races	-	-	-	-	-
Transmission category					
MSM	45	40	88.9	5	11.1
IDU					
Male	-	-	-	-	-
Female	-	-	-	-	-
MSM & IDU	-	-	-	-	-
Heterosexual contact					
Male	16	11	68.8	5	31.3
Female	24	22	91.7	2	8.3
Other					
Male	34	25	73.5	9	26.5
Female	26	23	88.5	3	11.5
Total	156	130	83.3	26	16.7

Linkage to HIV medical care was measured by documentation of ≥1 CD4 or VL or genotype test ≤30, ≤91, ≤182 and ≤365 days after HIV diagnosis.

*AI/AN: American Indian or Alaska Native; **NHPI: Native Hawaiian or Other Pacific Islander

Data source: Pa. HIV surveillance



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HIV Viral Suppression Within 6 Months of HIV Disease Diagnosis in Persons aged ≥50 Years in PA, 2023

Characteristics	Total Diagnosis	VL<200 copies/ml	
	No.	No.	%
Sex at Birth/Gender			
Male	104	48	46.2
Female	52	25	48.1
Race/ethnicity			
AI/AN*	-	-	-
Asian	2	1	50
Black/African American	65	27	41.5
Hispanic/Latino	28	12	42.9
NHPI**	-	-	-
White	57	32	56.1
Multiple races	-	-	-
Unknown races	-	-	-
Transmission Category			
MSM	45	17	37.8
IDU			
Male	-	-	-
Female	-	-	-
MSM & IDU	-	-	-
Heterosexual contact			
Male	16	11	68.8
Female	24	12	50
Other			
Male	34	17	50
Female	26	13	50
Total	156	73	46.8

*A viral load test result of < 200 copies/mL indicates HIV viral suppression. Viral load test results are within 6 months (≤182 days) of diagnosis of HIV infection during the specified year.

*AI/AN: American Indian or Alaska Native; **NHPI: Native Hawaiian or Other Pacific Islander

Data source: Pa. HIV surveillance



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Receipt of HIV Medical Care in Persons aged ≥50 Years With HIV Diagnosed by Year-end 2022 and alive at Year-end 2023, PA

Characteristics	Persons alive by 12/31/2023	>=1 care visit		>=2 care visits	
	No.	No.	%	No.	%
Sex at Birth					
Male	17,240	10,990	63.7	7,529	43.7
Female	6,967	4,819	69.2	3,317	47.6
Missing/Unknown	126	5	4	3	2.4
Gender					
Male	17,118	10,898	63.7	7,454	43.5
Female	6,963	4,816	69.2	3,315	47.6
Transgender-Male to Female	121	91	75.2	74	61.2
Transgender-Female to Male	-	-	-	-	-
Additional Gender Identity	-	-	-	-	-
Race/ethnicity					
AI/AN*	23	11	47.8	7	30.4
Asian	165	88	53.3	71	43
Black/African American	10,272	6,619	64.4	4,495	43.8
Hispanic/Latino	4,412	2,676	60.7	1,958	44.4
NHPI**	13	6	46.2	6	46.2
White	7,968	5,447	68.4	3,657	45.9
Multiple races	1,217	943	77.5	641	52.7
Unknown races	263	24	9.1	14	5.3
Transmission Category					
MSM	8,340	5,714	68.5	3,805	45.6
IDU					
Male	3,344	1,832	54.8	1,313	39.3
Female	1,805	1,192	66	842	46.6
MSM & IDU	1,163	744	64	541	46.5
Heterosexual contact					
Male	3,261	2,060	63.2	1,420	43.5
Female	4,313	3,087	71.6	2,126	49.3
Other					
Male	1,132	640	56.5	450	39.8
Female	849	540	63.6	349	41.1
Total	24,333	15,814	65	10,849	44.6

*Receipt of care any care is defined as at least one care visit during the calendar year. Retention in care is defined as two or more visits at least 3 months (≤91 days) apart in the calendar year.

*AI/AN: American Indian or Alaska Native; **NHPI: Native Hawaiian or Other Pacific Islander.

Data Source: PA HIV Surveillance



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HIV Viral Suppression in Persons aged ≥50 years With HIV Diagnosed by Year-end 2022 and Alive at Year-end 2023, PA

Characteristics	Persons alive by 12/31/2023		VL of <200 copies/ml	
	No.	%	Among persons alive by 12/31/2023	
			No.	%
Sex at Birth				
Male	17,240	70.9	8,888	51.6
Female	6,967	28.6	3,893	55.9
Missing/Unknown	126	0.5	3	2.4
Gender				
Male	17,118	70.3	8,815	51.5
Female	6,963	28.6	3,891	55.9
Transgender-Male to Female	121	0.5	72	59.5
Transgender-Female to Male	-	-	-	-
Additional Gender Identity	-	-	-	-
Race/ethnicity				
AI/AN	23	0.1	7	30.4
Asian	165	0.7	73	44.2
Black/African American	10,272	42.2	5,106	49.7
Hispanic/Latino	4,412	18.1	2,248	51
NHPI	13	0.1	5	38.5
White	7,968	32.7	4,548	57.1
Multiple races	1,217	5	782	64.3
Unknown races	263	1.1	15	5.7
Transmission Category				
MSM	8,340	34.3	4,661	55.9
IDU				
Male	3,344	13.7	1,454	43.5
Female	1,805	7.4	944	52.3
MSM & IDU	1,163	4.8	586	50.4
Heterosexual contact				
Male	3,261	13.4	1,665	51.1
Female	4,313	17.7	2,501	58
Other				
Male	1,132	4.7	522	46.1
Female	849	3.5	448	52.8
Total	24,333	100	12,784	52.5

*A VL test result of < 200 copies/mL indicates HIV viral suppression. VL test results are from the most recent test during the specified year

*AI/AN: American Indian or Alaska Native; **NHPI: Native Hawaiian or Other Pacific Islander.
Data source: PA HIV Surveillance



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Summary

- 2 out of 5 adults aged 50 years and older were diagnosed as stage 3 HIV disease in the 5-year period.
- Generally, PLWH aged 50 years and older have similar HIV care outcomes when compared with that of the entire population.
- However, there are differences based on gender, race/ethnicity, mode of HIV transmission, and stage at HIV diagnosis.



Summary cont'd

- Overall viral suppression at 6 months in PA was 64.8% vs 46.8% among PLWH aged 50 years and older.
- Stage 3 at diagnosis in 2023 in PA was 24.1% vs 37.8% among PLWH aged 50 years and older.
- Linkage to care in PA was 84.6% vs 83.3% among PLWH aged 50 years and older.
- Retention in care in PA was 65.9% vs 65%.
- Retained in care in PA was 44.9% vs 44.6%.
- Viral suppression in PA was 57.4% vs 52.5%.

Questions



Definitions

Linkage to HIV Medical Care

Linkage to HIV medical care after HIV diagnosis is measured for persons aged ≥ 13 years whose HIV infection was diagnosed during the specified year, and who resided in the at the time of diagnosis. The numerator is the number of persons aged ≥ 13 years whose HIV infection was diagnosed during the specified year, and who had ≥ 1 CD4, VL, or HIV-1 genotype tests within ≤ 30 , ≤ 91 , ≤ 182 , and ≤ 365 days of HIV diagnosis. The denominator is the number of persons aged ≥ 13 years whose HIV infection was diagnosed during the specified year.

Receipt of HIV Medical Care

Receipt of any HIV medical care is measured for persons aged ≥ 13 years who resided, as of their most recent known address during the specified year, in the jurisdiction, and who were alive at the end of the specified year. The numerator is the number of persons aged ≥ 13 years with HIV infection diagnosed by the end of the prior year, and who had ≥ 1 CD4, VL, or HIV-1 genotype tests in the specified year. The denominator is the number of persons aged ≥ 13 years with HIV diagnosed by the end of the prior year, and who were alive at the end of the specified year.



Retention in HIV medical care

Retention in HIV medical care is measured for persons aged ≥ 13 years who resided, as of their most recent known address during the specified year, in the jurisdiction, and who were alive at the end of the specified year. The numerator is the number of persons aged ≥ 13 years with HIV infection diagnosed by the end of the prior year, and who had ≥ 2 CD4, VL, or HIV-1 genotype tests at least 3 months (≥ 91 days) apart in the specified year. The denominator is the number of persons aged ≥ 13 years with HIV diagnosed by the end of the prior year, and who were alive at the end of the specified year.

Definitions cont'd

Viral Suppression

Viral suppression within 6 months (≤ 182 days) of HIV diagnosis is measured for persons aged ≥ 13 years who received a diagnosis of HIV infection in the specified year and resided in the jurisdiction at the time of diagnosis. The numerator is the number of persons aged ≥ 13 years whose HIV infection was diagnosed during the specified year, and who had VL < 200 copies/mL within 6 months (≤ 182 days) of HIV diagnosis. The denominator is the number of persons aged ≥ 13 years whose HIV infection was diagnosed during the specified year.

Viral suppression at most recent test during the specified year is measured for persons aged ≥ 13 years who resided, as of their most recent known address during the specified year, in the jurisdiction, and who were alive at the end of the specified year. The numerator is the number of persons aged ≥ 13 years with HIV infection diagnosed by the end of the prior year, and who had a VL < 200 copies/mL at the most recent test in the specified year. The denominator is the number of persons aged ≥ 13 years with HIV diagnosed by the end of the prior year, and who were alive at the end of the specified year. If multiple viral load tests were performed on the same day and could thus qualify as “most recent,” the highest viral load (most severe) was selected. If the numerical result was missing or the result was a logarithmic value, the interpretation of the result (e.g., below limit) was used to determine viral suppression.



Contact Information

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