



Overview of HIV Infection and Care in Hawaii

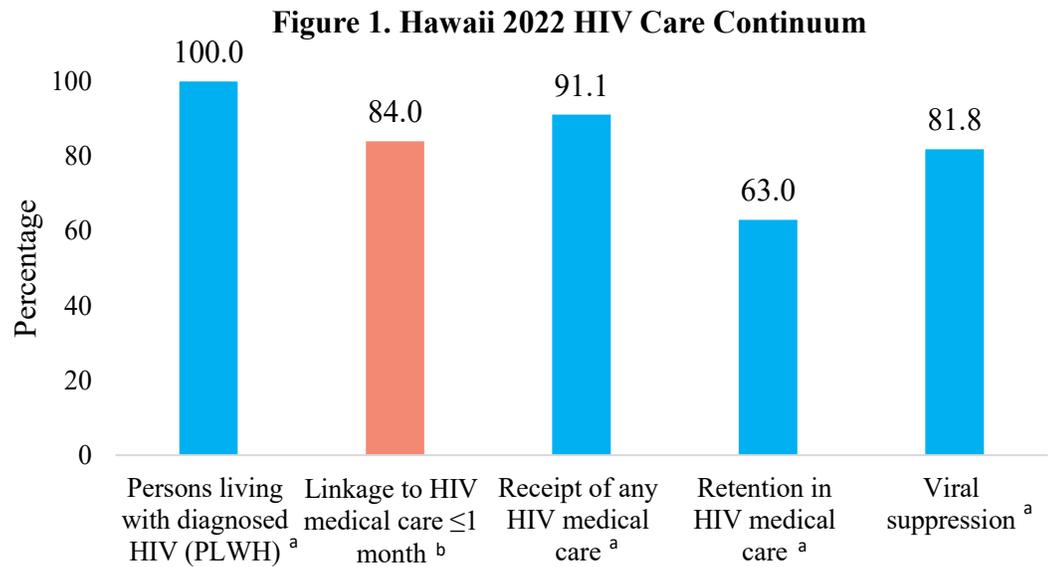
From the beginning of the epidemic through 2023, the cumulative number of Hawaii residents ever diagnosed with HIV was 5,089 and those ever with a stage 3 (AIDS) diagnosis was 3,619. Of those diagnosed with HIV, 2,497 residents have died. The total number of HIV diagnoses in 2023 was 59.

HIV care continuum among persons living with diagnosed HIV infection, 2022, Hawaii

Persons with suppressed HIV viral load live longer and healthier lives than those with unsuppressed viral load. In addition, persons with suppressed viral load cannot transmit HIV to others through sex. Hawaii’s 2022 care continuum illustrates the percentage of persons living with HIV in Hawaii who: (1) were linked to HIV medical care within one month after initial HIV diagnosis; (2) received any HIV medical care; (3) were retained in HIV medical care; and (4) had a suppressed HIV viral load in 2022. The population for this continuum is the 2,264 persons living with HIV in Hawaii at year-end 2022, aged ≥13 years at year-end 2021, and with HIV infection diagnosed through 2021.

The HIV care continuum (Figure 1) consists of the following:

- ◆ Linkage to HIV medical care within one month of initial diagnosis: 84.0% (68/81). Defined as ≥1 CD4 and/or viral load test on or ≤1 month after the date of initial HIV diagnosis in 2022.
◆ Receipt of HIV medical care: 91.1% (2,063/2,264). Defined as ≥1 CD4 or viral load tests in 2022.
◆ Retention in HIV medical care: 63.0% (1,426/2,264). Defined as ≥2 CD4 or viral load tests performed at least 3 months apart in 2022.
◆ Viral suppression: 81.8% (1,853/2,264). Defined as the latest viral load test in 2022 with a result of <200 copies/ml.



a. The denominator (n=2,264) refers to persons with HIV infection diagnosed through 2021 and residing in Hawaii at year-end 2022.
b. The denominator (n=81) refers to new HIV diagnoses during 2022.

Notices:

Beginning with the 2018 report, data on diagnosed HIV infection reflect the date of initial HIV diagnosis, instead of the date reported to Department of Health (DOH). Similarly, data on stage 3 (AIDS) reflect the date when the criteria for stage 3 (AIDS) were met. Data included in the 2023 report are based on HIV infection diagnosed by December 31, 2023 and reported to DOH as of June 30, 2024. Data for 2023 are considered preliminary because of reporting delays. Due to reporting delays and time needed for death verification and case de-duplication, the Hawaii HIV care continuum reported here is for 2022, not 2023. Data for the years 2020-2022 should be interpreted with caution due to the impact of the COVID-19 pandemic on access to HIV testing, HIV care related services, and case surveillance activities in Hawaii.

**Table 1. Diagnosed HIV cases (all stages),
annually 2019-2023 and cumulative total, Hawaii**

	HIV Infection (HIV/AIDS)						
	Before 2019	2019	2020	2021	2022	2023	Cumulative
Cases by Year of Diagnosis ¹	4,758	66	55	70	81	59	5,089
Rate per 100,000 Population ²	N/A	4.7	3.8	4.8	5.6	4.1	N/A

Demographics/Risk	No.	(%)								
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S E X	Male	4,277	(90)	59	(89)	48	(87)	58	(83)	69	(85)	53	(90)	4,564	(90)
	Female	481	(10)	7	(11)	7	(13)	12	(17)	12	(15)	6	(10)	525	(10)

A G E	<13	27	(<1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	27	(<1)
	13-14	7	(<1)	0	(0)	1	(2)	0	(0)	0	(0)	0	(0)	8	(<1)
	15-24	431	(9)	10	(15)	1	(2)	11	(16)	10	(12)	9	(15)	472	(9)
	25-34	1,638	(34)	23	(35)	15	(27)	20	(29)	28	(35)	27	(46)	1,751	(34)
	35-44	1,553	(33)	14	(21)	12	(22)	16	(23)	21	(26)	11	(19)	1,627	(32)
	45-54	780	(16)	11	(17)	13	(24)	12	(17)	11	(14)	3	(5)	830	(16)
	55-64	255	(5)	7	(11)	11	(20)	10	(14)	7	(9)	4	(7)	294	(6)
	≥65	67	(1)	1	(2)	2	(4)	1	(1)	4	(5)	5	(8)	80	(2)

R A C E³	Non-Hispanic														
	Caucasian	2,483	(52)	11	(17)	12	(22)	20	(29)	27	(33)	18	(31)	2,571	(51)
	Asian	734	(15)	18	(27)	15	(27)	18	(26)	18	(22)	11	(19)	814	(16)
	Hawaiian/PI	507	(11)	12	(18)	9	(16)	8	(11)	12	(15)	10	(17)	558	(11)
	African American	232	(5)	3	(5)	2	(4)	8	(11)	4	(5)	5	(8)	254	(5)
	Amer. Indian/Alaska Nat.	13	(<1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	13	(<1)
	Multiple Races	384	(8)	9	(14)	9	(16)	5	(7)	6	(7)	6	(10)	419	(8)
	Hispanic	400	(8)	13	(20)	7	(13)	11	(16)	11	(14)	7	(12)	449	(9)

R I S K	Male to Male Sex (MSM)	3,396	(71)	47	(71)	26	(47)	27	(39)	34	(42)	32	(54)	3,562	(70)
	Injection Drug Use (IDU)	357	(8)	1	(2)	6	(11)	12	(17)	9	(11)	1	(2)	386	(8)
	MSM & IDU	351	(7)	1	(2)	1	(2)	1	(1)	5	(6)	3	(5)	362	(7)
	Heterosexual Contact	407	(9)	5	(8)	2	(4)	1	(1)	2	(2)	3	(5)	420	(8)
	Transfusion	23	(<1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	23	(<1)
	Perinatal	17	(<1)	1	(2)	0	(0)	0	(0)	1	(1)	0	(0)	19	(<1)
	Hemophiliac	21	(<1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	21	(<1)
	Undetermined	186	(4)	11	(17)	20	(36)	29	(41)	30	(37)	20	(34)	296	(6)

Due to rounding, percentages for each column may not add to 100.

¹The number of diagnosed HIV/AIDS cases in previous years may change each year due to the ongoing national deduplication project. Data for 2023 are considered preliminary because they are based on a 6-month reporting delay and might be affected by COVID-19.

² Each year's estimated population is from the State of Hawaii's latest population estimate data: <http://census.hawaii.gov/home/population-estimate/>

³ There were a total of 11 cases with unknown race/ethnicity.

Fig. 2. Diagnosed HIV cases (all stages) by county, 1983-2023, Hawaii

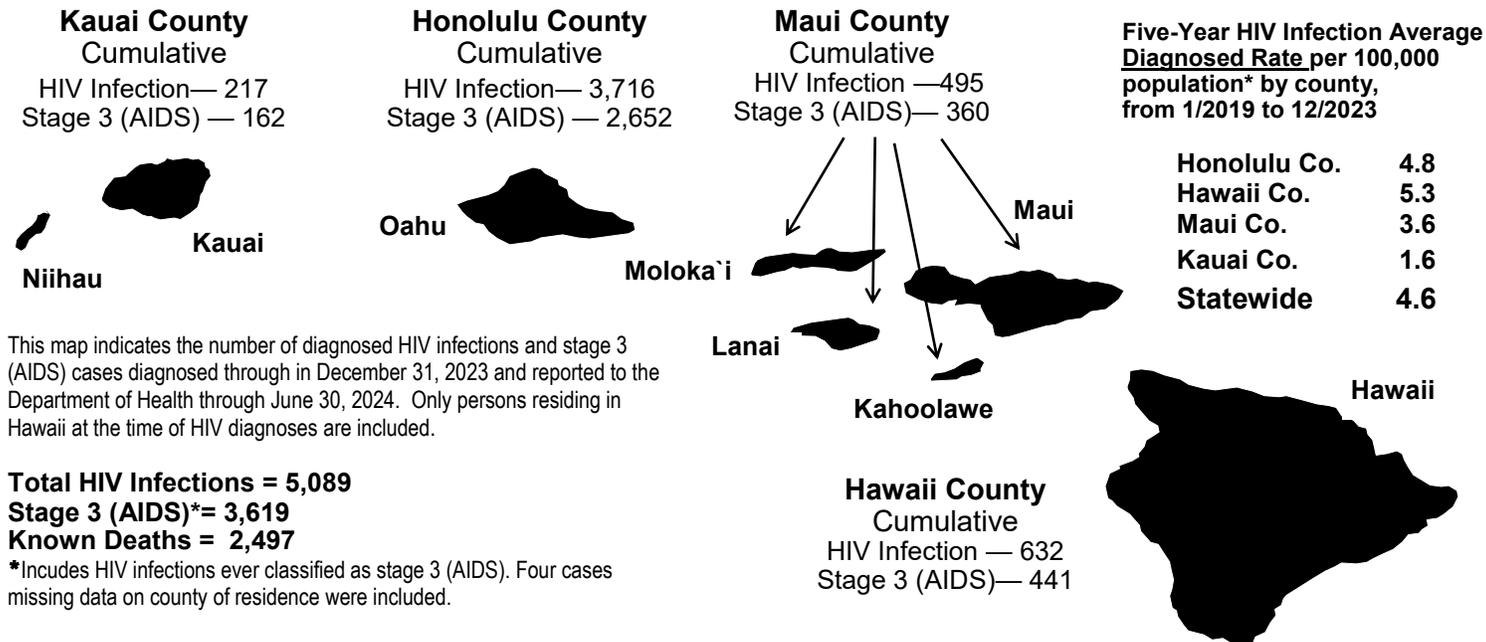


Table 2. HIV cases (all stages) and stage 3 (AIDS) ever diagnosis in 2023, by county, Hawaii

Diagnosed Cases	Honolulu Co.		Hawaii Co.		Maui Co.		Kauai Co.		Statewide* *	
	No.	(% row)	No.	(% row)	No.	(% row)	No.	(% row)	No.	(% row)
HIV Infection	47	(80)	8	(14)	2	(3)	2	(3)	59	(100)
Stage 3 (AIDS) ever	13	(59)	6	(27)	2	(9)	1	(5)	22	(100)

Table 3. Cumulative HIV infection (all stages), diagnosed through 2023, by county, Hawaii

Selected Variables		Honolulu Co.		Hawaii Co.		Maui Co.		Kauai Co.		Statewide ***	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
SEX ¹	Male	3,334	(90)	565	(89)	448	(91)	188	(87)	4,564	(90)
	Female	382	(10)	67	(11)	47	(9)	29	(13)	525	(10)
Transgender (% row) ²		60	(91)	5	(8)	DS ³	(DS)	DS	(DS)	66	(100)
RISK	Male to Male Sex (MSM)	2,605	(70)	430	(68)	361	(73)	147	(68)	3,562	(70)
	Injection Drug Use (IDU)	279	(8)	62	(10)	23	(5)	21	(10)	386	(8)
	MSM & IDU	254	(7)	45	(7)	40	(8)	16	(7)	362	(7)
	Heterosexual Contact	305	(8)	60	(9)	35	(7)	19	(9)	420	(8)
	Transfusion	16	(<1)	DS	(DS)	DS	(DS)	DS	(DS)	23	(<1)
	Perinatal	15	(<1)	DS	(DS)	DS	(DS)	DS	(DS)	19	(<1)
	Hemophiliac	16	(<1)	DS	(DS)	DS	(DS)	DS	(DS)	21	(<1)
Undetermined		226	(6)	27	(4)	31	(6)	11	(5)	296	(6)
Total Cases (% row)		3,716	(73)	632	(12)	495	(10)	217	(4)	5,089	(100)
Estimated 2020 Population* (% row)		1,016,507	(70)	200,635	(14)	164,756	(11)	73,296	(5)	1,455,274	(100)

Due to rounding, percentages of each column may not add to 100. Data for 2023 are considered preliminary because they are based on a 6-month reporting delay and might be affected by COVID-19. *Population estimate was based on data available at <https://census.hawaii.gov/>. **A total of 29 cases missing data on county of residence at the time of HIV diagnosis were included in the state total.

¹ Sex refers to sex at birth.

² Transgender refers to a person whose gender identity or expression is different from their sex assigned at birth. The number of transgender cases is probably underreported.

³ DS: Data is suppressed if the total count at the county level is <5 with stratification.

Table 4. **Diagnosed AIDS cases (stage 3, ever classified as)¹, annually 2019-2023 and cumulative total, Hawaii**

		Before 2019	2019	2020	2021	2022	2023	Cumulative
Cases by Year of Diagnosis²		3,502	27	24	22	22	22	3,619
Rate per 100,000 Population		N/A	1.9	1.6	1.5	1.5	1.5	N/A
Demographics and Risk		No. (%)						
SEX	Male	3,189 (91)	24 (89)	23 (96)	17 (77)	18 (82)	22 (100)	3,293 (91)
	Female	313 (9)	3 (11)	1 (4)	5 (23)	4 (18)	0 (0)	326 (9)
AGE³	<13	20 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	20 (1)
	13-24	116 (3)	1 (4)	0 (0)	1 (5)	2 (9)	0 (0)	120 (3)
	25-34	956 (27)	5 (19)	3 (13)	4 (18)	4 (18)	6 (27)	978 (27)
	35-44	1,386 (40)	4 (15)	2 (8)	5 (23)	8 (36)	5 (23)	1,410 (39)
	45-54	726 (21)	11 (41)	9 (38)	8 (36)	6 (27)	3 (14)	763 (21)
	55-64	239 (7)	6 (22)	10 (42)	4 (18)	2 (9)	5 (23)	266 (7)
	≥65	59 (2)	0 (0)	0 (0)	0 (0)	0 (0)	3 (14)	62 (2)
RACE⁴	Caucasian	1,900 (54)	5 (19)	7 (29)	2 (9)	5 (23)	9 (41)	1,928 (53)
	Asian	533 (15)	11 (41)	9 (38)	9 (41)	7 (32)	4 (18)	573 (16)
	Hawaiian/ PI	413 (12)	2 (7)	2 (8)	5 (23)	3 (14)	2 (9)	427 (12)
	African American	156 (4)	2 (7)	1 (4)	0 (0)	3 (14)	4 (18)	166 (5)
	Amer. Indian/Alaska Nat.	7 (<1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (<1)
	Multiple Races	218 (6)	5 (19)	3 (13)	4 (18)	2 (9)	3 (14)	235 (6)
	Hispanic	275 (8)	2 (7)	2 (8)	2 (9)	1 (5)	0 (0)	282 (8)
RISK	Male to Male Sex (MSM)	2,509 (72)	17 (63)	10 (42)	7 (32)	6 (27)	13 (59)	2,562 (71)
	Injection Drug Use (IDU)	290 (8)	2 (7)	2 (8)	1 (5)	2 (9)	2 (9)	299 (8)
	MSM & IDU	284 (8)	1 (4)	2 (8)	1 (5)	2 (9)	2 (9)	292 (8)
	Heterosexual Contact	257 (7)	3 (11)	2 (8)	0 (0)	1 (5)	0 (0)	263 (7)
	Other/Unknown	162 (5)	4 (15)	8 (33)	13 (59)	11 (50)	5 (23)	203 (6)
COUNTY⁵	Honolulu	2,575 (74)	18 (69)	17 (71)	13 (62)	16 (73)	13 (59)	2,652 (73)
	Hawaii	417 (12)	5 (19)	6 (25)	5 (24)	2 (9)	6 (27)	441 (12)
	Maui	351 (10)	1 (4)	1 (4)	2 (10)	3 (14)	2 (9)	360 (10)
	Kauai	157 (4)	2 (8)	0 (0)	1 (5)	1 (5)	1 (5)	162 (4)

Due to rounding, percentages of each column may not add to 100.

¹ Persons with infection ever classified as stage 3 (AIDS) and based on residence at the time of stage 3 (AIDS) classification.

² Diagnosed cases in most recent years (2020 to 2023) are incomplete due to delays in reporting and the ongoing national deduplication project.

³ Age in years at the time of AIDS diagnosis. There were a total of 11 cases with unknown age at diagnosis.

⁴ There was one case with unknown race/ethnicity. Amer.Indian/Alaska Nat. refers to American Indian / Alaska Native.

⁵ County of residence at the time of AIDS diagnosis. There were a total of 4 cases missing data on county of residence at the time of AIDS diagnosis.

Table 5. Linkage to HIV medical care and viral suppression after HIV diagnosis in 2022, by selected characteristics, Hawaii

		Diagnosed HIV infection in 2021		Linkage to HIV medical care (≥1 CD4 or viral load test) within:				Achieving viral suppression within	
				1 month		3 months		6 months	
				No.	(%) col.	No.	(%) row	No.	(%) row
Total ¹		81	(100)	68	(84.0)	71	(87.7)	52	(64.2)
S E X	Male	69	(85.9)	58	(84.1)	61	(88.4)	45	(65.2)
	Female	12	(14.1)	10	(83.3)	10	(83.3)	7	(58.3)
A G E ¹	13-24	10	(12.4)	9	(90.0)	9	(90.0)	5	(50.0)
	25-34	28	(34.6)	24	(85.7)	25	(88.3)	21	(75.0)
	35-44	21	(25.9)	17	(81.0)	18	(85.7)	14	(66.7)
	45-54	11	(13.6)	11	(100)	11	(100)	9	(81.8)
	≥55	11	(13.6)	7	(63.6)	8	(72.7)	3	(27.3)
R A C E	Caucasian	27	(33.3)	21	(77.8)	23	(85.2)	17	(63.0)
	Asian	18	(22.2)	15	(83.3)	16	(88.9)	12	(66.7)
	Hawaiian/PI	12	(14.8)	11	(91.7)	11	(91.7)	8	(66.7)
	African-American	4	(4.9)	DS	(DS)	DS	(DS)	DS	(DS)
	Hispanic, all races	11	(13.6)	10	(90.9)	10	(90.9)	8	(72.7)
	Multiple races	6	(7.4)	5	(83.3)	5	(83.3)	3	(50.0)
	Unknown	3	(3.7)	DS	(DS)	DS	(DS)	DS	(DS)
R I S K	Male to Male Sex (MSM)	34	(42.0)	30	(88.2)	32	(94.1)	26	(76.5)
	Injection drug use (IDU)	9	(11.1)	6	(66.7)	6	(66.7)	1	(11.1)
	MSM & IDU	5	(6.2)	5	(100)	5	(100)	3	(60.0)
	Other/Unknown	33	(40.7)	27	(81.8)	28	(84.8)	22	(66.7)
C O U N T Y ³	Honolulu	54	(66.7)	45	(83.3)	46	(85.2)	32	(59.3)
	Hawaii	12	(14.8)	9	(75.0)	11	(91.7)	8	(66.7)
	Maui	14	(17.3)	13	(92.9)	13	(92.7)	11	(78.6)

¹ Age is based on the person's age in years at the time of HIV diagnosis. Only persons residing in Hawaii and aged ≥13 years at HIV diagnosis are included.

² DS: data is suppressed if the total number of HIV diagnosis for this group is less than 5.

³ Data from one case diagnosed from Kauai County is not presented.

If you need more information, please visit the Hawaii HIV/AIDS Surveillance Program website:

<https://health.hawaii.gov/harmreduction/hiv-aids-surveillance/>

If the information you are looking for is not on the website or you have questions regarding forms, reporting requirements, or this report, please contact the Hawaii HIV/AIDS Surveillance Program by mail: 3627 Kilauea Avenue, Suite 306, Honolulu, HI 96816, by phone: (808) 733-4079, by fax: (808) 733-9015, or by e-mail: hiv_aids_surveillance@doh.hawaii.gov.

**Table 6. Receipt of HIV medical care and viral suppression in 2022,
by selected characteristics, Hawaii**

		Living with diagnosed HIV ¹		Received or Retained in HIV Medical Care				HIV Viral Load (VL) Test			
				≥ 1 CD4/VL Test		≥ 2 CD4/VL Tests (At least 3 months apart)		≥ 1 Test (All values)		Viral Suppression (VL<200 copies/mL at latest VL test)	
				No.	(%) Column	No.	(%) Row	No.	(%) Row	No.	(%) Row
Total		2,264	(100.0)	2,063	(91.1)	1,426	(63.0)	2,001	(88.3)	1,853	(81.8)
S E X	Male	2,025	(89.4)	1,855	(91.6)	1,276	(63.0)	1,796	(88.7)	1,667	(82.3)
	Female	239	(10.6)	208	(87.0)	150	(62.8)	205	(85.8)	186	(77.8)
A G E ²	13-24	33	(1.5)	28	(84.9)	20	(60.6)	26	(78.8)	22	(66.7)
	25-34	229	(10.1)	196	(85.6)	116	(50.7)	188	(82.1)	175	(76.4)
	35-44	362	(16.0)	322	(89.0)	200	(55.3)	313	(86.5)	272	(75.1)
	45-54	467	(20.6)	416	(89.1)	272	(58.2)	398	(85.2)	363	(77.7)
	55-64	746	(33.0)	699	(93.7)	506	(67.8)	686	(92.0)	643	(86.2)
	≥65	427	(18.9)	402	(94.2)	312	(73.1)	390	(91.3)	378	(88.5)
R A C E ²	Caucasian	993	(43.9)	906	(91.2)	639	(64.4)	879	(88.5)	834	(84.0)
	Asian	379	(16.7)	342	(90.2)	249	(65.7)	338	(89.2)	313	(82.6)
	Hawaiian/PI	204	(9.0)	186	(91.2)	122	(59.8)	181	(88.7)	158	(77.5)
	African American	121	(5.3)	103	(85.1)	65	(53.7)	93	(76.9)	80	(66.1)
	Hispanic	286	(12.6)	267	(93.4)	180	(62.9)	259	(90.6)	246	(86.0)
	Multiple Races	275	(12.2)	255	(92.7)	169	(61.5)	247	(89.8)	218	(79.3)
	Unknown	5	(0.2)	3	(60.0)	2	(40.0)	3	(60.0)	3	(60.0)
R I S K	Male to Male Sex (MSM)	1,642	(72.5)	1,507	(91.8)	1,035	(63.0)	1,464	(89.2)	1,369	(83.4)
	IDU	138	(6.1)	129	(93.5)	95	(68.8)	126	(91.3)	114	(82.6)
	MSM & IDU	151	(6.7)	142	(94.0)	97	(64.2)	136	(90.1)	117	(77.5)
	Heterosexual	213	(9.4)	190	(89.2)	138	(64.8)	185	(86.9)	171	(80.3)
	Unknown/Other	108	(4.8)	86	(79.6)	56	(51.9)	81	(75.0)	74	(68.5)
	Perinatal	12	(0.5)	9	(75.0)	5	(41.7)	9	(75.0)	8	(66.7)
C O U N T Y ²	Honolulu	1,425	(63.1)	1,302	(91.4)	929	(65.2)	1,260	(88.4)	1,150	(80.7)
	Hawai'i	440	(19.5)	402	(91.4)	268	(60.9)	389	(88.4)	370	(84.1)
	Maui	310	(13.7)	278	(89.7)	180	(58.1)	272	(87.7)	263	(84.8)
	Kaua'i	84	(3.7)	76	(90.5)	46	(54.8)	75	(89.3)	65	(77.4)

¹Only persons aged ≥13 years at year-end 2021 with HIV infection diagnosed through 2021 and residing in Hawaii at year-end 2022 were included. A total of 100 persons were excluded because their initial HIV diagnosis date, last known Hawaii address date, and last documented CD4/viral load test date were all before July 1, 2014. In other words, those persons were out of care over 10 years.

²Age refers to age in years at year-end 2021. A total of one American Indian /Alaska Native was excluded from the analysis. County refers to county of residence at year-end 2022. A total of 5 people missed data on county of residence and were excluded from the analysis.