



Overview of HIV Infection and Care in Hawai'i

At the end of 2018, there were 4,774 cumulatively diagnosed HIV infections, including 3,529 stage 3 (AIDS) cases among Hawai'i residents. Please refer to pages 2 to 4 for detailed information. County level data are found on page 3. There were an estimated 2,344 persons aged >=13 years at year-end 2016 with HIV infection diagnosed through 2016 and residing in Hawai'i at year-end 2017.

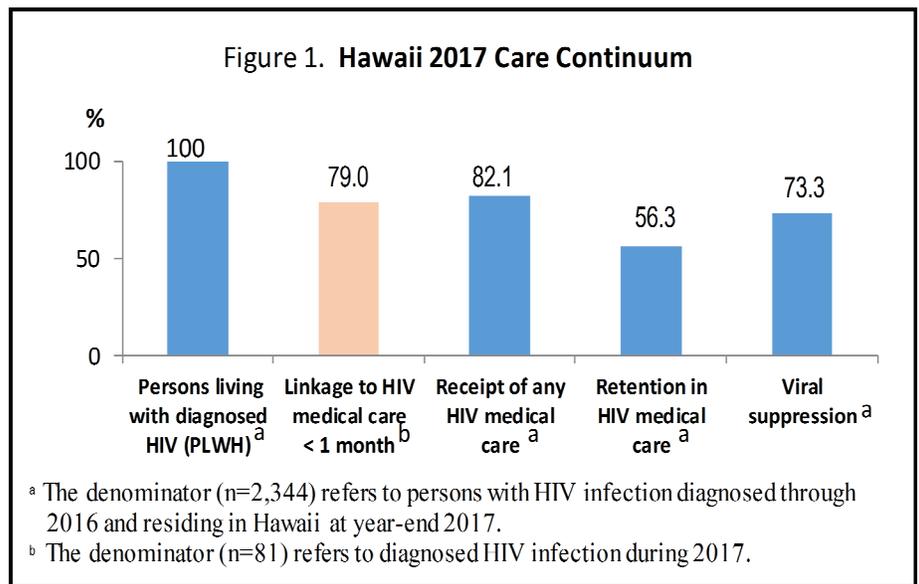
HIV care continuum among persons living with diagnosed HIV Infection, 2017, Hawai'i

Hawai'i's 2017 HIV continuum of care illustrates the percentage of persons living with HIV in Hawai'i who were 1) linked to HIV medical care within one month (<=1 month) of initial diagnosis, 2) received any HIV medical care, 3) retained in HIV medical care, or 4) achieved a suppressed HIV viral load (VL, < 200 copies/mL) in 2017.

Persons with suppressed HIV VL live longer and healthier lives than those who have unsuppressed VL. Importantly, persons with suppressed viral load cannot transmit HIV to others. Calculations for linkage are for Hawaii residents diagnosed with HIV in 2017, while the other three indicators are for all persons living with HIV in Hawaii in 2017.

HIV care continuum (percentages and cases) (Figure 1)

- 1) Linkage to HIV medical care <=1 month after diagnosis: 79.0% (64/81). Defined as >=1 CD4 and/or VL tests within one month of initial HIV diagnosis in 2017.
2) Receipt of HIV medical care: 82.1% (1,925/2,344). Defined as >=1 CD4 or VL tests in 2017.
3) Retention in HIV medical care: 56.3% (1,320/2,344). Defined as >=2 CD4 or VL tests performed at least 3 months apart in 2017.
4) Viral suppression: 73.3% (1,718/2,344). Defined as the latest VL test in 2017 with a result of VL<200 copies/mL.



Important notice on how the HIV/AIDS data is presented in the surveillance report

Data is now divided into two categories: HIV infection and separately, individuals with an HIV infection that meet the criteria for a stage 3 or AIDS diagnosis. Starting with this year's 2018 report, data on HIV infection is based on year of diagnoses rather than the year the case was reported to Department of Health. Similarly, data on stage 3 (AIDS) is now based on when the HIV infection was diagnosed as having progressed to this stage. Data for 2018 in this report may be considered as preliminary as additional reports may be received after the June 30, 2019 date. Mandatory HIV named reporting to the Hawai'i State Department of Health commenced March, 2008.

Suggested reading: https://www.cdc.gov/hiv/pdf/library/reports/surveillance/cdc-hiv-surveillance-supplemental-report-vol-24-3.pdf

**Table 1. Diagnosed HIV cases (all stages),
2014-2018 and cumulative total, Hawai'i**

	HIV Infection (HIV/AIDS)						
	1983-2013	2014	2015	2016	2017	2018	Cumulative
Cases by Year of Diagnosis¹	4,330	99	119	79	82	65	4,774
Rate per 100,000 Population²	N/A	6.9	8.3	5.5	5.7	4.5	N/A

Demographics/Risk	No.	(%)								
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SEX	Male	3,875	(89)	88	(89)	110	(92)	71	(90)	75	(91)	59	(91)	4,278	(90)
	Female	455	(11)	11	(11)	9	(8)	8	(10)	7	(9)	6	(9)	496	(10)

AGE³	<13	25	(1)	0	(0)	0	(0)	0	(0)	2	(2)	0	(0)	27	(1)
	13-14	7	(<1)	0	(0)	1	(1)	0	(0)	0	(0)	0	(0)	8	(<1)
	15-24	370	(9)	12	(12)	12	(10)	14	(18)	12	(15)	9	(14)	429	(9)
	25-34	1,451	(34)	37	(37)	46	(39)	35	(44)	33	(40)	25	(38)	1,627	(34)
	35-44	1,469	(34)	27	(27)	23	(19)	13	(16)	11	(13)	20	(31)	1,563	(33)
	45-54	732	(17)	11	(11)	26	(22)	6	(8)	13	(16)	6	(9)	794	(17)
	55-64	211	(5)	7	(7)	7	(6)	6	(8)	9	(11)	4	(6)	244	(5)
	≥65	57	(1)	3	(3)	4	(3)	2	(3)	2	(2)	0	(0)	68	(1)

RACE⁴	Non-Hispanic														
	Caucasian	2,411	(56)	34	(34)	40	(34)	21	(27)	23	(28)	17	(26)	2,546	(53)
	Asian	673	(16)	19	(19)	21	(18)	18	(23)	21	(26)	20	(31)	772	(16)
	Hawaiian/PI	488	(11)	13	(13)	17	(14)	9	(11)	10	(12)	6	(9)	543	(11)
	African American	200	(5)	10	(10)	12	(10)	10	(13)	5	(6)	5	(8)	242	(5)
	Amer. Indians/Alaska Native	14	(<1)	0	(0)	1	(1)	1	(1)	0	(0)	0	(0)	16	(<1)
	Multiple Races	217	(5)	17	(17)	17	(14)	11	(14)	10	(12)	10	(15)	282	(6)
	Hispanic	327	(8)	6	(6)	11	(9)	9	(11)	13	(16)	7	(11)	373	(8)

RISK	Male to Male Sex (MSM)	3,095	(71)	62	(63)	81	(68)	61	(77)	51	(62)	42	(65)	3,392	(71)
	Injection Drug Use (IDU)	329	(8)	7	(7)	11	(9)	3	(4)	5	(6)	4	(6)	359	(8)
	MSM & IDU	314	(7)	9	(9)	2	(2)	2	(3)	4	(5)	4	(6)	335	(7)
	Heterosexual Contact	342	(8)	16	(16)	24	(20)	12	(15)	10	(12)	1	(2)	405	(8)
	Transfusion	23	(1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	23	(<1)
	Perinatal	15	(<1)	0	(0)	0	(0)	0	(0)	2	(2)	0	(0)	17	(<1)
	Hemophiliac	21	(<1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	21	(<1)
	Undetermined	191	(4)	5	(5)	1	(1)	1	(1)	10	(12)	14	(22)	222	(5)

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

¹The number of diagnosed HIV/AIDS cases in previous years may change each year due to the on-going national de-duplication project.

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

³ Age at the time of diagnosis. Total include 14 cases with unknown age at diagnosis.

⁴ A total of 8 cases reported as legacy Asian/Pacific Islanders were assigned to the Asian category.

Fig. 2. **Diagnosed HIV cases (all stages) by county, Hawai'i**

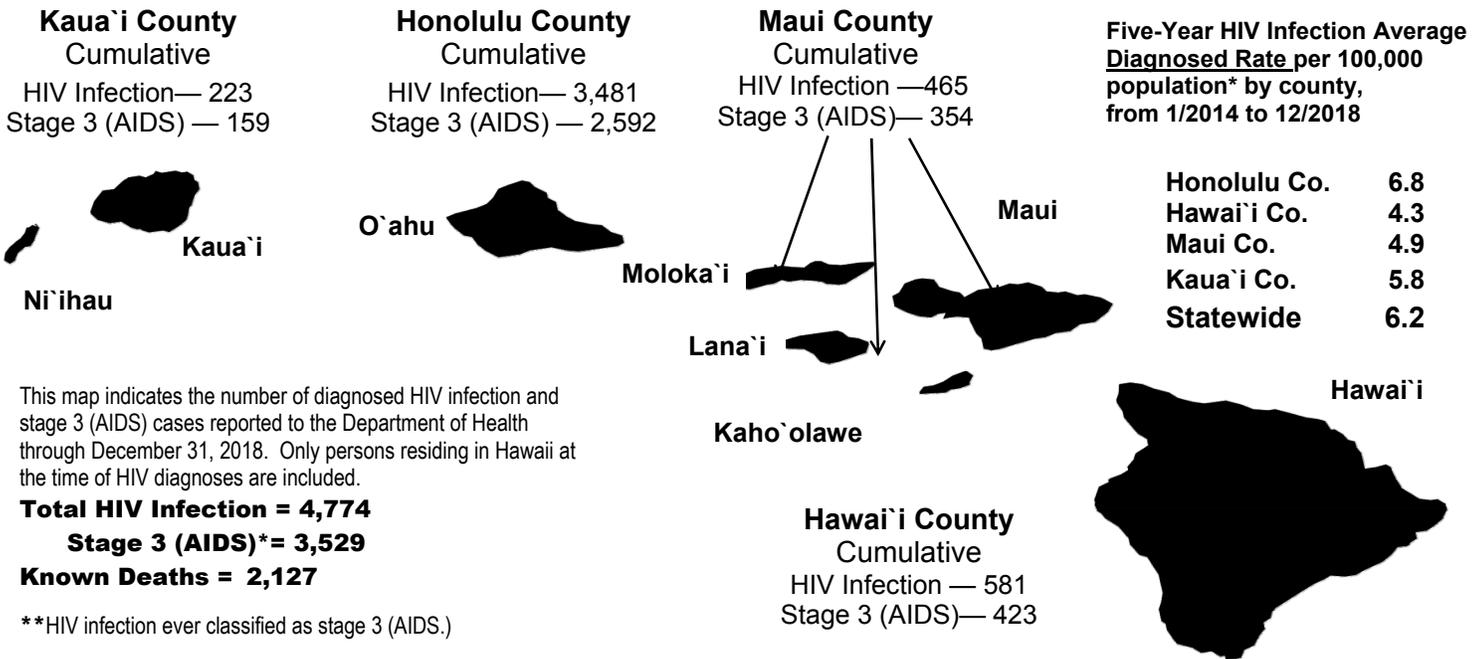


Table 2. **Diagnosed HIV cases (all stages) in 2018, by county, Hawai'i**

Diagnosed Cases	Honolulu Co.		Hawai'i Co.		Maui Co.		Kaua'i Co.		Statewide	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
HIV Infection	53	(82)	6	(9)	5	(8)	1	(2)	65	(100)
Stage 3 (AIDS)	13	(68)	2	(11)	2	(11)	2	(11)	19	(100)

Table 3. **Cumulative HIV cases (all stages), diagnosed through 2018, by County, Hawai'i**

Sex, Transgender and Risk		Honolulu Co.		Hawai'i Co.		Maui Co.		Kaua'i Co.		Statewide	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
SEX ¹	Male	3,131	(90)	515	(89)	419	(90)	189	(85)	4,254	(90)
	Female	350	(10)	66	(11)	46	(10)	34	(15)	496	(10)
Transgender ²		40	(100)	DS ³	(DS)	DS ³	(DS)	DS ³	(DS)	43	(100)
RISK	Male to Male Sex (MSM)	2,484	(71)	400	(69)	347	(75)	147	(66)	3,378	(71)
	Injection Drug Use (IDU)	259	(7)	55	(9)	22	(5)	22	(10)	358	(8)
	MSM & IDU	236	(7)	40	(7)	37	(8)	15	(7)	328	(7)
	Heterosexual Contact	291	(8)	56	(10)	34	(7)	23	(10)	404	(9)
	Transfusion	16	(<1)	DS ³	(DS)	DS ³	(DS)	DS ³	(DS)	23	(<1)
	Perinatal	14	(<1)	DS ³	(DS)	0	0	DS ³	(DS)	17	(<1)
	Hemophiliac	16	(<1)	DS ³	(DS)	DS ³	(DS)	0	(0)	21	(<1)
	Undetermined	165	(5)	23	(4)	20	(4)	13	(6)	221	(5)
Total Cases (row %)		3,481	(73)	581	(12)	465	(10)	223	(5)	4,750	(100)
Estimated 2018 Population*		980,080	(69)	200,983	(14)	167,207	(12)	72,133	(5)	1,420,491	(100)

Due to rounding, percentages of each column may not add to 100. *Population estimate was based on data available at <http://census.hawaii.gov/home/population-estimate/>; A total of 24 cases missed data on county of residence at the time of HIV diagnosis were excluded from the analysis.

¹ Sex refers to sex at birth.

² Transgender: persons 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. Hawai'i diagnosed stage 3 (AIDS) cases, 2014-2018 and cumulative total

		1983-2013	2014	2015	2016	2017	2018	Cumulative
Cases by Year of Report		3,368	44	38	28	32	19	3,529
Rate per 100,000 Population		N/A	3.1	2.6	1.9	2.2	1.3	N/A
Demographics and Risk		No. (%)						
S E X	Male	3,069 (91)	41 (93)	34 (89)	24 (86)	25 (78)	19 (100)	3,212 (91)
	Female	299 (9)	3 (7)	4 (11)	4 (14)	7 (22)	0 (0)	317 (9)
A G E³	<13	18 (1)	0 (0)	0 (0)	0 (0)	2 (6)	0 (0)	20 (1)
	13-24	110 (3)	2 (5)	2 (5)	3 (11)	1 (3)	0 (0)	118 (3)
	25-34	934 (28)	10 (23)	4 (11)	3 (11)	7 (22)	5 (26)	963 (27)
	35-44	1,351 (40)	16 (36)	10 (26)	11 (39)	4 (13)	7 (37)	1399 (40)
	45-54	689 (20)	8 (18)	13 (34)	7 (25)	9 (28)	4 (21)	730 (21)
	55-64	206 (6)	5 (11)	7 (18)	3 (11)	7 (22)	3 (16)	231 (7)
	≥65	51 (2)	3 (7)	2 (5)	1 (4)	2 (6)	0 (0)	59 (2)
R A C E	Caucasian	1,892 (56)	16 (36)	13 (34)	9 (32)	8 (25)	7 (37)	1,945 (55)
	Asian	515 (15)	10 (23)	7 (18)	5 (18)	8 (25)	10 (53)	555 (16)
	Hawaiian/ PI	409 (12)	5 (11)	8 (21)	2 (7)	8 (25)	0 (0)	432 (12)
	African American	161 (5)	5 (11)	3 (8)	2 (7)	1 (3)	0 (0)	172 (5)
	Amer. Indian/Alaskan	7 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	7 (0)
	Multiple Races	143 (4)	5 (11)	3 (8)	5 (18)	5 (16)	0 (0)	161 (5)
	Hispanic	241 (7)	3 (7)	4 (11)	5 (18)	2 (6)	2 (11)	257 (7)
R I S K	Male to Male Sex (MSM)	2,437 (72)	26 (59)	20 (53)	18 (64)	20 (63)	12 (63)	2,533 (73)
	Injection Drug Use (IDU)	268 (8)	5 (11)	5 (13)	4 (14)	1 (3)	2 (11)	285 (8)
	MSM & IDU	275 (8)	3 (7)	1 (3)	0 (0)	0 (0)	2 (11)	281 (8)
	Heterosexual Contact	230 (7)	7 (16)	10 (26)	5 (18)	6 (19)	0 (0)	258 (7)
	Other/Unknown	158 (5)	3 (7)	2 (5)	1 (4)	5 (15)	3 (16)	172 (6)
C O U N T Y⁴	Honolulu	2,471 (73)	32 (73)	31 (82)	18 (64)	27 (84)	13 (68)	2,592 (73)
	Hawai'i	409 (12)	2 (5)	6 (16)	3 (11)	1 (3)	2 (11)	423 (12)
	Maui	341 (10)	7 (16)	0 (0)	2 (7)	2 (6)	2 (11)	354 (10)
	Kaua'i	146 (4)	3 (7)	1 (3)	5 (18)	2 (6)	2 (11)	159 (5)

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

¹ Diagnosed cases in most recent years (2016 to 2018) are incomplete due to delays in reporting and the ongoing national de-duplication project.

² Persons with infection ever classified as stage 3 (AIDS) and based on residence at time of stage 3 (AIDS) classification

³ Age at the time of HIV diagnosis.

⁴ County of residence at the time of HIV diagnosis.

**Table 5. Linkage to HIV medical care for diagnosed cases in 2017,
by selected characteristics, Hawai'i**

		Diagnosed HIV infection in 2017		Linkage to HIV medical care ≥1 CD4 or viral load test) within:					
				1 month		3 months		12 months	
				No.	(%) col.	No.	(%) row	No.	(%) row
Total		81	(100)	64	(79.0)	74	(91.4)	77	(95.1)
SEX	Male	75	(92.6)	59	(78.7)	69	(92.0)	72	(96.0)
	Female	6	(7.4)	5	(83.3)	5	(83.3)	5	(83.3)
AGE¹	13-24	12	(14.8)	11	(91.7)	12	(100.0)	12	(100.0)
	25-34	33	(40.7)	25	(75.8)	29	(87.9)	30	(90.9)
	35-44	11	(13.6)	7	(63.6)	10	(90.9)	10	(90.9)
	45-54	14	(17.3)	13	(92.9)	13	(92.9)	14	(100.0)
	55-64	9	(11.1)	7	(77.8)	8	(88.9)	9	(100.0)
	≥65	2	(2.5)	DS ²	(DS)	DS ²	(DS)	DS ²	(DS)
RACE	Caucasian	23	(28.4)	17	(73.9)	21	(91.3)	23	(100.0)
	Asian	21	(25.9)	15	(71.4)	19	(90.5)	19	(90.5)
	Hawaiian/PI	9	(11.1)	7	(77.8)	8	(88.9)	9	(100.0)
	African-American	5	(6.2)	5	(100.0)	5	(100.0)	5	(100.0)
	Hispanic	13	(16.1)	12	(92.3)	12	(92.3)	12	(92.3)
	Other/Unknown	10	(12.3)	8	(80.0)	9	(90.0)	9	(90.0)
RISK	Male to Male Sex (MSM)	51	(63.0)	42	(82.4)	47	(92.2)	49	(96.1)
	Injection drug use (IDU)	5	(6.2)	3	(60.0)	4	(80.0)	5	(100.0)
	MSM & IDU	5	(6.2)	4	(80.0)	5	(100.0)	5	(100.0)
	Heterosexual	10	(12.3)	8	(80.0)	9	(90.0)	9	(90.0)
	Other/Unknown	10	(12.3)	7	(70.0)	9	(90.0)	9	(90.0)
COUNTY³	Honolulu	60	(74.1)	51	(85.0)	55	(91.7)	57	(95.0)
	Hawaii	7	(8.6)	2	(28.6)	6	(85.7)	7	(100.0)
	Maui	11	(13.6)	9	(81.8)	10	(90.9)	10	(90.9)
	Kaua'i	3	(3.7)	DS ²	(DS)	DS ²	(DS)	DS ²	(DS)

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

²DS: Data is suppressed if the total count at the state or county level is <5 with stratification.

³County of residence reflects the address at the time of HIV diagnosis.

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

<http://health.hawaii.gov/harmreduction/hiv-aids/data-and-statistics/>

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 Hawai'i 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 for persons living with HIV in Hawai'i in 2017, by selected characteristics¹

		Living with HIV ¹ (Year-end 2017 and diagnosed through year-end 2016)		CD4 or HIV Viral Load Test				HIV Viral Load Test			
				≥ 1 Test		≥ 2 Tests (At least 3 months apart)		≥ 1 Test (All values)		Viral Suppression (Latest Test, VL <200 copies/mL)	
		No.	(%) Column	No.	(%) Row	No.	(%) Row	No.	(%) Row	No.	(%) Row
Total		2,344	(100.0)	1,925	(82.1)	1,320	(56.3)	1,869	(79.7)	1,718	(73.3)
SEX	Male	2,092	(89.3)	1,721	(82.3)	1,181	(56.5)	1,668	(79.3)	1,534	(73.3)
	Female	252	(10.7)	204	(81.0)	139	(55.2)	201	(79.8)	184	(73.0)
AGE²	13-24	51	(2.2)	35	(68.6)	16	(31.4)	33	(64.7)	28	(54.9)
	25-34	275	(11.7)	198	(72.0)	104	(37.8)	187	(68.0)	165	(60.0)
	35-44	354	(15.1)	282	(79.7)	183	(51.7)	268	(75.7)	234	(66.1)
	45-54	735	(31.4)	617	(84.0)	415	(56.5)	606	(82.5)	553	(75.2)
	55-64	669	(28.5)	562	(84.0)	427	(63.8)	552	(82.5)	520	(77.7)
	≥65	260	(11.1)	231	(88.9)	175	(67.3)	223	(85.8)	218	(83.9)
RACE	Caucasian	1,137	(48.5)	946	(83.2)	654	(57.5)	917	(80.7)	862	(75.8)
	Asian	357	(15.2)	316	(88.5)	236	(66.1)	311	(87.1)	285	(79.8)
	Hawaiian/PI	216	(9.2)	184	(85.2)	132	(61.1)	183	(84.7)	163	(75.5)
	African American	156	(6.7)	100	(64.1)	53	(34.0)	91	(58.3)	81	(51.9)
	Hispanic	244	(10.4)	199	(81.6)	124	(50.8)	194	(79.5)	184	(75.4)
	Multiple Races	224	(9.6)	174	(77.7)	117	(52.2)	168	(75.0)	139	(62.1)
	Other/Unknown	10	(0.4)	6	(60.0)	4	(40.0)	5	(50.0)	4	(40.0)
RISK	Male to Male Sex (MSM)	1,722	(73.5)	1,416	(82.2)	984	(57.1)	1,379	(80.1)	1,275	(74.0)
	IDU	136	(5.8)	112	(82.4)	75	(55.2)	110	(80.9)	98	(72.1)
	MSM & IDU	160	(6.8)	142	(88.8)	87	(54.4)	134	(83.8)	117	(73.1)
	Heterosexual	247	(10.5)	205	(83.0)	141	(57.1)	198	(80.2)	185	(74.9)
	Unknown/Other	70	(3.0)	43	(61.4)	29	(41.4)	41	(58.6)	37	(52.9)
	Perinatal	9	(0.4)	7	(77.8)	4	(44.4)	7	(77.8)	6	(66.7)
COUNTY³	Honolulu	1,554	(66.3)	1,259	(81.0)	881	(56.7)	1,215	(78.2)	1,104	(71.0)
	Hawai'i	404	(17.2)	334	(82.5)	197	(48.8)	326	(80.7)	311	(76.8)
	Maui	293	(12.5)	250	(85.4)	183	(62.6)	245	(83.9)	227	(77.6)
	Kaua'i	93	(4.0)	83	(89.1)	59	(63.7)	82	(88.9)	76	(82.3)

¹Only persons aged ≥13 years at year-end 2016 with HIV infection diagnosed through 2016 and residing in Hawaii at year-end 2017 were included. A total of 231 persons whose HIV infections were diagnosed in 2007 or earlier and who had no documented CD4/viral load data since 2008 were excluded.

²Refers to age at year-end 2016.

³Refers to county of residence at year-end 2017.