



Overview HIV Infection and Care in Hawai'i

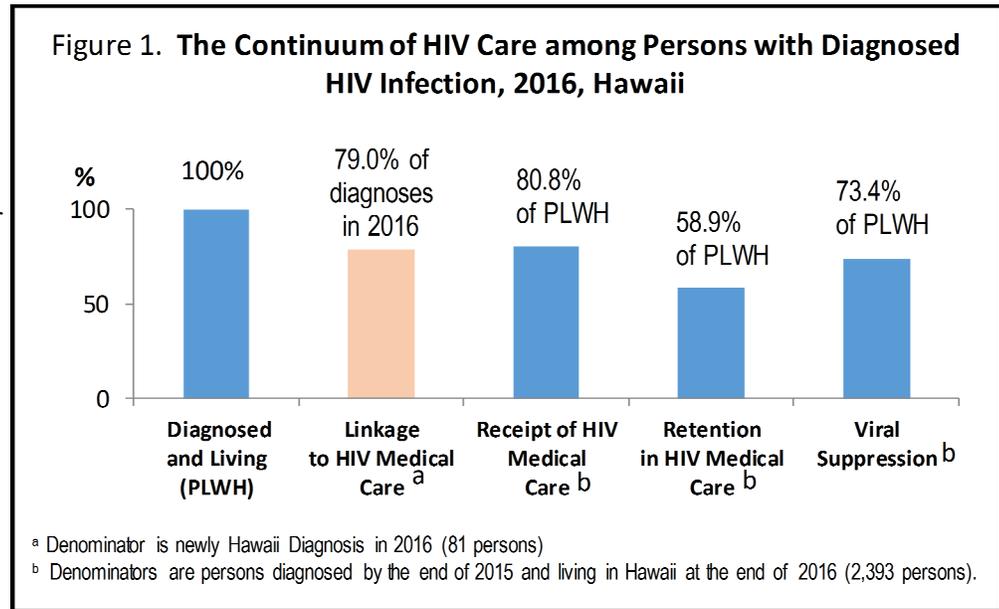
The cumulative number of reported HIV cases among Hawai'i residents at the end of 2017 was 4,879. There were an estimated 2,393 persons aged ≥13 years at year-end 2015 and living with HIV in Hawaii at year-end 2016. There were 81 individuals newly diagnosed within Hawai'i in 2016.

HIV Care Continuum Among Persons Living with Diagnosed HIV Infection, 2016, Hawai'i

Hawaii's 2016 continuum of care illustrates the percentage of persons living with HIV in Hawaii who were linked to HIV medical care within 1 month of initial HIV diagnosis, who received any HIV medical care, who were retained in HIV medical care and those who achieved a suppressed HIV viral load in 2016. Persons with suppressed HIV viral load live longer, healthier lives than those who are unsuppressed and very importantly, cannot transmit HIV to others. Calculations of these selected care continuum indicators are based on diagnosed cases only. Not shown on Figure 1 is the CDC estimate that Hawaii had only an estimated 370 persons who were living with undiagnosed HIV.

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

- ◆ Linkage to HIV medical care within 1 month: 79.0% (64/81). Defined as at least one CD4 and/or viral load test on or after the date of initial HIV diagnosis in 2016.
◆ Receipt of HIV medical care: 80.8% (1,934/2,393). Defined as ≥1 CD4 or viral load tests in 2016.
◆ Retention in HIV medical care: 58.9% (1,410/2,393). Defined as ≥2 CD4 or viral load tests performed at least 3 months apart in 2016.
◆ Viral suppression: 73.4% (1,756/2,393). Defined as the latest VL test with result of VL<200 copies/ml in 2016.



Diagnosed HIV Infection Cases for 5 years, Between 2012 and 2016 (484 cases)

- ◆ Gender: 90% were men and 10% women.
◆ Risk Factor: 69% were exposed through male-to-male sexual contact (MSM), 15% through heterosexual contact, 6% through injection drug use (IDU), 5% through MSM/IDU, and 6% were of undetermined risk.
◆ Race/Ethnicity: 32% were White, 21% Asians, 14% Hawaiians/other Pacific Islanders, 11% Hispanics, 8% African-Americans, 15% Others (which included those who identify as multiple races, American Indian/Alaska Native, and persons of unknown race).
◆ Age at Diagnosis: 59% were persons aged 25-44 years, 28% were persons aged ≥45 years, and 13% were

Table 1. Hawai'i Newly and Cumulative Reported HIV Infection Cases and Stage 3 (AIDS only) Cases, Reported through December 31, 2017

	HIV Infection (HIV/AIDS)				Stage 3 (AIDS only) ¹			
	1983-2015	2016	2017	Cumulative	1983-2015	2016	2017	Cumulative
Cases by Year of Report ²	4,676	99	104	4,879	3,482	37	41	3,560
Rate per 100,000 Population ³	N/A	6.9	7.3	N/A	N/A	2.6	2.9	N/A

Demographics/Risk	No.	(%)								
-------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

S E X	Male	4,181	(89)	88	(89)	97	(93)	4,366	(89)	3,173	(91)	33	89%	33	80%	3239	91%
	Female	495	(11)	11	(11)	7	(7)	513	(11)	309	(9)	4	11%	8	20%	321	9%

A G E⁴	<13	26	(1)	0	(0)	2	(2)	28	(1)	18	(1)	0	(0)	2	(5)	20	(1)
	13-14	8	(<1)	0	(0)	0	(0)	8	(<1)	0	(0)	0	(0)	0	(0)	0	(0)
	15-24	399	(9)	13	(13)	16	(15)	428	(9)	113	(3)	2	(5)	3	(7)	118	(3)
	25-34	1,588	(34)	38	(38)	37	(36)	1,663	(34)	959	(28)	1	(3)	11	(27)	971	(27)
	35-44	1,557	(33)	23	(23)	20	(19)	1,600	(33)	1392	(40)	18	(49)	5	(12)	1415	(40)
	45-54	786	(17)	12	(12)	14	(13)	812	(17)	714	(21)	10	(27)	11	(27)	735	(21)
	55-64	239	(5)	7	(7)	11	(11)	257	(5)	222	(6)	4	(11)	7	(17)	233	(7)
	≥65	63	(1)	3	(3)	4	(4)	70	(1)	55	(2)	2	(5)	2	(5)	59	(2)

R A C E	Non-Hispanics																
	Caucasians	2,583	(55)	29	(29)	33	(32)	2,645	(54)	1947	(56)	12	(32)	12	(29)	1971	(55)
	Asians	728	(16)	24	(24)	23	(22)	775	(16)	538	(15)	8	(22)	7	(17)	553	(16)
	Hawaiians/PI	526	(11)	16	(16)	9	(9)	551	(11)	425	(12)	7	(19)	8	(20)	440	(12)
	African Americans	228	(5)	11	(11)	8	(8)	247	(5)	170	(5)	1	(3)	3	(7)	174	(5)
	Amer. Indians/Alaskans	16	(<1)	1	(1)	0	(0)	17	(<1)	8	(<1)	0	(0)	0	(0)	8	(<1)
	Multiple Race	241	(5)	10	(10)	15	(14)	266	(5)	142	(4)	3	(8)	7	(17)	152	(4)
Hispanics	354	(8)	8	(8)	16	(15)	378	(8)	252	(7)	6	(16)	4	(10)	262	(7)	

R I S K	Male to Male Sex (MSM)	3,339	(71)	68	(69)	73	(70)	3,480	(71)	2510	(72)	23	(62)	23	(56)	2556	(72)
	Injection Drug Use (IDU)	367	(8)	3	(3)	3	(3)	373	(8)	288	(8)	5	(14)	1	(2)	294	(8)
	MSM & IDU	310	(7)	2	(2)	2	(2)	314	(6)	262	(8)	0	(0)	0	(0)	262	(7)
	Heterosexual Contact	386	(8)	24	(24)	8	(8)	418	(9)	251	(7)	6	(16)	8	(20)	265	(7)
	Transfusion	23	(<1)	0	(0)	0	(0)	23	(<1)	22	(1)	0	(0)	0	(0)	22	(1)
	Perinatal	14	(<1)	0	(0)	2	(2)	16	(<1)	16	(<1)	0	(0)	2	(5)	18	(1)
	Hemophiliac	21	(<1)	0	(0)	0	(0)	21	(<1)	20	(1)	0	(0)	0	(0)	20	(1)
	Undetermined	216	(5)	2	(2)	16	(15)	234	(5)	113	(3)	3	(8)	7	(17)	123	(3)

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

¹ HIV infection ever classified as stage 3 (AIDS.)

² The number of reported HIV/AIDS cases in previous years may change each year due to the on-going national de-duplication project.

³ Each year's estimated population is from the State of Hawai'i's latest population estimate data: <http://census.hawaii.gov/home/population-estimate/>

⁴ Age at the time of diagnosis. Total include 13 cases with unknown age at diagnosis.

Fig. 3. **Reported HIV Infection Cases, Reported through December 31, 2017, by County**

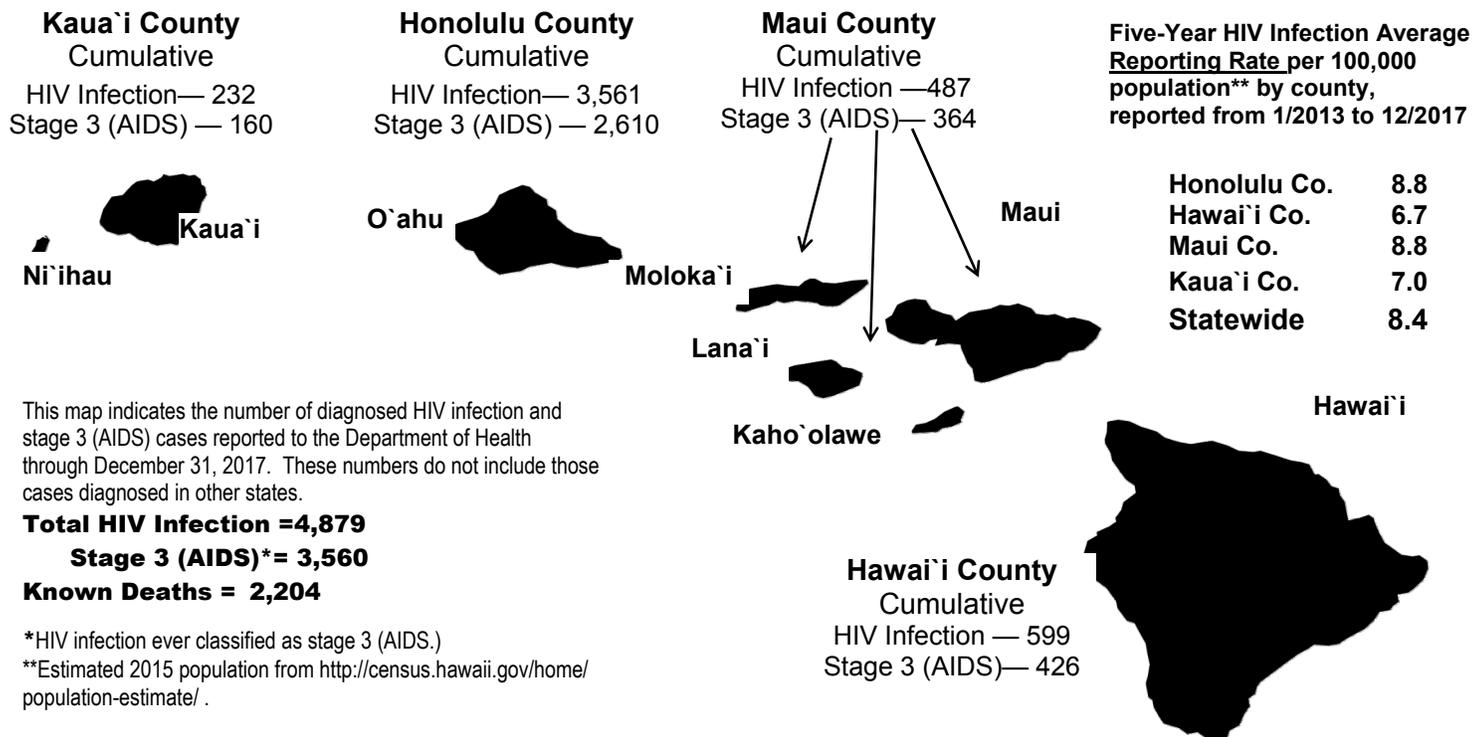


Table 2. **2017 Reported HIV Infection Cases by County**

Reported Cases	Honolulu Co.		Hawai'i Co.		Maui Co.		Kaua'i Co.		Statewide	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
HIV Infection	74	(71)	11	(11)	15	(14)	4	(4)	104	(100)
Stage 3 (AIDS)	34	(83)	2	(5)	3	(7)	2	(5)	41	(100)

Table 3. **Cumulative HIV Infection, Reported by County, Cases to 2017**

Sex and Risk		Honolulu Co.		Hawai'i Co.		Maui Co.		Kaua'i Co.		Statewide	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
SEX	Male	3,197	(90)	527	(88)	444	(91)	198	(85)	4,366	(90)
	Female	364	(10)	72	(12)	43	(9)	34	(15)	513	(11)
RISK	Male to Male Sex (MSM)	2,550	(72)	406	(68)	368	(76)	156	(67)	3,480	(71)
	Injection Drug Use (IDU)	267	(8)	60	(10)	24	(5)	22	(10)	373	(8)
	MSM & IDU	224	(6)	39	(7)	38	(8)	13	(6)	314	(6)
	Heterosexual Contact	298	(8)	62	(10)	34	(7)	24	(10)	418	(9)
	Transfusion	17	(<1)	2	(<1)	2	(<1)	2	(<1)	23	(<1)
	Perinatal	13	(<1)	2	(<1)	0	(0)	1	(<1)	16	(<1)
	Hemophiliac	16	(<1)	3	(<1)	2	(<1)	0	(0)	21	(<1)
	Undetermined	176	(5)	25	(4)	19	(4)	14	(6)	234	(5)
Total Cases (row %)		3,561	(73)	599	(12)	487	(10)	232	(5)	4,879	(100)
Estimated 2015 Population*		993,166	(70%)	196,156	(14)	164,357	(12)	71,478	(5)	1,425,157	(100%)

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

**Table 4. Hawai'i Diagnosis of HIV Infection, Five-Years (2012-2016),
Reported through December 31, 2017¹**

Demographics and Risk		2012		2013		2014		2015		2016		5 YEARS	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
STAGE	Stage 3 (AIDS)²	30	(35.7)	36	(36.0)	31	(31.3)	24	(20.0)	16	(19.8)	137	(28.3)
	Other HIV Stages	54	(64.3)	64	(64.0)	68	(68.7)	96	(80.0)	65	(80.2)	347	(71.7)
SEX	Male	73	(86.9)	93	(93.0)	88	(88.9)	111	(92.5)	72	(88.9)	437	(90.3)
	Female	11	(13.1)	7	(7.0)	11	(11.1)	9	(7.5)	9	(11.1)	47	(9.7)
AGE³	<25	8	(9.5)	11	(11.0)	12	(12.1)	12	(10.8)	14	(17.3)	58	(12.0)
	25-44	45	(53.6)	55	(55.0)	64	(64.6)	70	(58.3)	50	(61.7)	284	(58.7)
	≥45	31	(36.9)	34	(34.0)	21	(21.2)	37	(30.8)	14	(17.3)	137	(28.3)
RACE	Caucasians	29	(34.5)	30	(30.0)	34	(34.3)	41	(34.2)	21	(25.9)	155	(32.0)
	Asians	19	(22.6)	23	(23.0)	19	(19.2)	21	(17.5)	18	(22.2)	100	(20.7)
	Hawaiians/ PI	12	(14.3)	16	(16.0)	14	(14.1)	17	(14.2)	10	(12.3)	69	(14.3)
	African Americans	0	(0)	5	(5.0)	10	(10.1)	12	(10.0)	11	(13.6)	38	(7.9)
	Hispanics	11	(13.1)	15	(15.0)	6	(6.1)	11	(9.2)	9	(11.1)	52	(10.7)
	Other/Unknown	13	(15.5)	11	(11.0)	16	(16.2)	18	(15.0)	12	(14.8)	70	(14.5)
RISK	Male to Male Sex (MSM)	59	(70.2)	67	(67.0)	62	(62.6)	82	(68.3)	62	(76.5)	332	(68.6)
	Injection Drug Use (IDU)	4	(4.8)	7	(7.0)	7	(7.1)	11	(9.2)	2	(2.5)	31	(6.4)
	MSM & IDU	5	(6.0)	4	(4.0)	9	(9.1)	2	(1.7)	2	(2.5)	22	(4.5)
	Heterosexual Contact	6	(7.1)	12	(12.0)	16	(16.2)	23	(19.2)	14	(17.3)	71	(14.7)
	Other/Unknown	10	(11.9)	10	(10.0)	5	(5.1)	2	(1.7)	1	(1.2)	28	(5.8)
COUNTY⁴	Honolulu	64	(76.2)	68	(68.0)	72	(72.7)	93	(77.5)	62	(76.5)	359	(74.2)
	Hawai'i	8	(9.5)	17	(17.0)	8	(8.1)	15	(12.5)	8	(9.9)	56	(11.6)
	Maui	10	(11.9)	11	(11.0)	13	(13.1)	6	(5.0)	7	(8.6)	47	(9.7)
	Kaua'i	2	(2.4)	4	(4.0)	6	(6.1)	6	(5.0)	4	(4.9)	22	(4.5)
Total Cases		84		100		99		120		81		484	

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

¹ Diagnosed cases in most recent years (2014, 2015, 2016) are incomplete due to delays in reporting and to the ongoing national de-duplication project.

² Documentation of an AIDS-defining condition ≤3 months or first CD4<200 cells/ul or 14% after diagnosis of HIV infection.

³ Age at the time of diagnosis.

⁴ County of residence at the time of diagnosis.

Table 5. Persons¹ in HIV Medical Care within 1, 3 and 12 Months of Diagnosis in Hawaii in 2016

		Diagnosis		In Care After HIV Diagnosis Within:					
				1 month		3 months		12 months	
				≥ 1 lab Test (CD4 or Viral Test)		≥ 1 lab Test (CD4 or Viral Test)		≥ 1 lab Test (CD4 or Viral Test)	
		No.	(%) col.	No.	(%) row	No.	(%) row	No.	(%) row
Total		81	(100)	64	(79.0)	72	(88.9)	75	(92.6)
S E X	Male	72	(88.9)	57	(79.2)	64	(88.9)	67	(93.1)
	Female	9	(11.1)	7	(77.8)	8	(88.9)	8	(88.9)
A G E²	13-24	14	(17.3)	6	(42.9)	11	(78.6)	12	(85.7)
	25-34	37	(45.7)	31	(83.8)	33	(89.2)	34	(91.9)
	35-44	13	(16.0)	13	(100.0)	13	(100.0)	13	(100.0)
	45-54	6	(7.4)	6	(100.0)	6	(100.0)	6	(100.0)
	55-64	9	(11.1)	7	(77.8)	7	(77.8)	8	(88.9)
	≥65	2	(2.5)	1	(50.0)	2	(100.0)	2	(100.0)
R A C E	Caucasians	21	(25.9)	16	(76.2)	18	(85.7)	18	(85.7)
	Asians	18	(22.2)	14	(77.8)	16	(88.9)	17	(94.4)
	Hawaiians/PI	10	(12.3)	9	(90.0)	9	(90.0)	9	(90.0)
	African-Americans	11	(13.6)	8	(72.7)	10	(90.9)	11	(100.0)
	Hispanics	9	(11.1)	7	(77.8)	9	(100.0)	9	(100.0)
	Other/Unknown	12	(14.8)	10	(83.3)	10	(83.3)	11	(91.7)
R I S K	Male to Male Sex (MSM)	62	(76.5)	49	(79.0)	55	(88.7)	58	(93.5)
	IDU	2	(2.5)	2	(100.0)	2	(100.0)	2	(100.0)
	MSM & IDU	2	(2.5)	1	(50.0)	1	(50.0)	1	(50.0)
	Heterosexual	14	(17.3)	11	(78.6)	13	(92.9)	13	(92.9)
	Other/Unknown	1	(1.2)	1	(100.0)	1	(100.0)	1	(100.0)
C O U N T Y³	Honolulu	62	(76.5)	48	(77.4)	55	(88.7)	58	(93.5)
	Hawaii	8	(9.9)	7	(87.5)	7	(87.5)	7	(87.5)
	Maui	7	(8.6)	6	(85.7)	7	(100.0)	7	(100.0)
	Kauai	4	(4.9)	3	(75.0)	3	(75.0)	3	(75.0)

¹ Persons aged 13 years and older.

² Age at the time of diagnosis

³ County of residence at the time of 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. Persons¹ Living with Diagnosed HIV Infection at year-end 2016 and In HIV Medical Care in 2016², Hawai`i

		Living with HIV ¹ (Year-end 2016 and diagnosed through year-end 2015)		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		2,393	(100.0)	1,934	(80.8)	1,410	(58.9)	1,899	(79.4)	1,756	(73.4)
SEX	Male	2,125	(88.8)	1,723	(81.1)	1,264	(59.5)	1,691	(79.6)	1,573	(74.0)
	Female	268	(11.2)	211	(78.7)	146	(54.5)	208	(77.6)	183	(68.3)
AGE³	13-24	47	(2.0)	39	(83.0)	19	(40.4)	39	(83.0)	35	(74.5)
	25-34	267	(11.2)	193	(72.3)	130	(48.7)	187	(70.0)	170	(63.7)
	35-44	394	(16.5)	299	(75.9)	200	(50.8)	294	(74.6)	262	(66.5)
	45-54	822	(34.4)	675	(82.1)	508	(61.8)	664	(80.8)	614	(74.7)
	55-64	630	(26.3)	533	(84.6)	404	(64.1)	526	(83.5)	491	(77.9)
	≥65	233	(9.7)	195	(83.7)	149	(64.0)	189	(81.1)	184	(79.0)
RACE	Caucasians	1,179	(49.3)	941	(79.8)	683	(57.9)	926	(78.5)	866	(73.5)
	Asians	360	(15.0)	309	(85.8)	240	(66.7)	305	(84.7)	289	(80.3)
	Hawaiians/PI	228	(9.5)	186	(81.6)	143	(62.7)	182	(79.8)	164	(71.9)
	African Americans	152	(6.4)	119	(78.3)	80	(52.6)	113	(74.3)	98	(64.5)
	Hispanics	243	(10.2)	189	(77.8)	130	(53.5)	186	(76.5)	176	(72.4)
	Multiple Races	218	(9.1)	181	(83.0)	130	(59.6)	178	(81.7)	156	(71.6)
	Other/Unknown	13	(0.5)	9	(69.2)	4	(30.8)	9	(69.2)	7	(53.8)
RISK	Male to Male Sex (MSM)	1,740	(72.7)	1,423	(81.8)	1,032	(59.3)	1,398	(80.3)	1,310	(75.3)
	IDU	141	(5.9)	109	(77.3)	81	(57.5)	106	(75.2)	92	(65.3)
	MSM & IDU	157	(6.6)	122	(77.7)	93	(59.2)	118	(75.2)	104	(66.2)
	Heterosexual	261	(10.9)	226	(86.6)	171	(65.5)	224	(85.8)	202	(77.4)
	Unknown/Other	84	(3.5)	46	(54.8)	28	(33.3)	45	(53.6)	41	(48.8)
	Perinatal	10	(0.4)	8	(80.0)	5	(50.0)	8	(80.0)	7	(70.0)
COUNTY⁴	Honolulu	1,586	(66.3)	1,272	(80.2)	955	(60.2)	1,253	(79.0)	1,157	(73.0)
	Hawai`i	408	(17.0)	325	(79.7)	219	(53.6)	313	(76.7)	291	(71.3)
	Mau`i	301	(12.6)	257	(85.4)	174	(57.8)	253	(84.1)	235	(78.0)
	Kaua`i	98	(4.1)	80	(81.6)	62	(63.5)	80	(81.6)	73	(74.8)

¹Persons aged 13 years and older at year-end 2015 whose HIV infection was diagnosed through 2015 regardless of where they were initially diagnosed. A total of 257 persons whose HIV infections were diagnosed in 2006 or earlier and who had no documented CD4/viral load data since 2006 were excluded.

²Report Through April 30, 2018.

³Age at year-end 2015.

⁴Current county of residence.