



## Overview of HIV Infection and Care in Hawaii

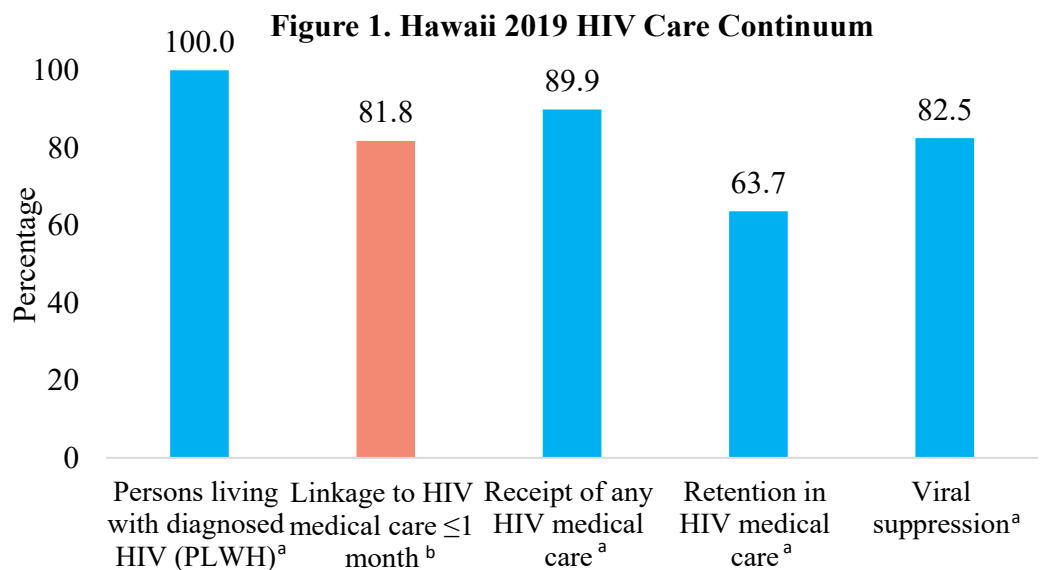
At the end of 2020, the cumulative number of HIV diagnoses was 4,871 and the cumulative number of stage 3 (AIDS) ever diagnoses was 3,567. Due to reporting delays and time needed for death verification and case de-duplication, the Hawaii HIV care continuum presented below is for 2019, not 2020. The population for this continuum is all persons living with HIV in Hawaii at year-end 2019, aged >13 years at the beginning of 2019, and with HIV infection diagnosed prior to 2019. The estimated number of this population is 2,164.

### HIV Care Continuum among Persons Living with Diagnosed HIV Infection, 2019, Hawaii

Hawaii's 2019 care continuum illustrates the percentage of persons living with HIV in Hawaii who were linked to HIV medical care within one month ( $\leq 1$  month) after initial HIV diagnosis, those who received any HIV medical care, those retained in HIV medical care and those who achieved a suppressed HIV viral load in 2019. Persons with suppressed viral load live longer and healthier lives than those who do not have suppressed viral load. In addition, they cannot transmit HIV sexually to others.

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

- ◆ **Linkage to HIV medical care within one month of initial diagnosis:** 81.8% (54/66). Defined as  $\geq 1$  CD4 and/or viral load (VL) tests on or after the date of initial HIV diagnosis in 2019.
- ◆ **Receipt of HIV medical care:** 89.9% (1,946/2,164). Defined as  $\geq 1$  CD4 or viral load tests in 2019.
- ◆ **Retention in HIV medical care:** 63.7% (1,378/2,164). Defined as  $\geq 2$  CD4 or viral load tests performed at least 3 months apart in 2019.
- ◆ **Viral suppression:** 82.5% (1,785/2,164). Defined as the latest VL test in 2019 with a result of VL < 200 copies/ml.



<sup>a</sup> The denominator (n=2,164) refers to persons with HIV infection diagnosed through 2018 and residing in Hawaii at year-end 2019.

<sup>b</sup> The denominator (n=66) refers to new HIV infections diagnosed in 2019.

### Notice for report change:

Beginning with the publication of 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 2020 report are based on HIV infections diagnosed by December 31, 2020 and reported to DOH as of June 30, 2021. Data for 2020 are considered preliminary because they are based on a 6-month reporting delay and might be indirectly affected by the COVID-19 pandemic.

**Table 1. Diagnosed HIV cases (all stages),  
annually 2016-2020 and cumulative total, Hawaii**

	HIV Infection (HIV/AIDS)						
	1983-2015	2016	2017	2018	2019	2020	Cumulative
<b>Cases by Year of Diagnosis<sup>1</sup></b>	4,523	79	81	72	66	50	4,871
<b>Rate per 100,000 Population<sup>2</sup></b>	N/A	5.5	5.7	5.1	4.7	3.6	N/A

Demographics/Risk	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
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<b>SEX</b>	<b>Male</b>	4,061	(90)	71	(90)	74	(91)	66	(92)	59	(89)	44	(88)	4,375	(90)
	<b>Female</b>	462	(10)	8	(10)	7	(9)	6	(8)	7	(11)	6	(12)	496	(10)

<b>AGE<sup>3</sup></b>	<b>&lt;13</b>	25	(1)	0	(0)	2	(2)	0	(0)	0	(0)	0	(0)	27	(1)
	<b>13-14</b>	7	(<1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	7	(<1)
	<b>15-24</b>	395	(9)	14	(18)	12	(15)	10	(14)	10	(15)	1	(2)	442	(9)
	<b>25-34</b>	1,534	(34)	35	(44)	33	(41)	26	(36)	23	(35)	15	(30)	1,666	(34)
	<b>35-44</b>	1,507	(33)	13	(16)	11	(14)	21	(29)	15	(23)	11	(22)	1,578	(32)
	<b>45-54</b>	762	(17)	6	(8)	13	(16)	8	(11)	11	(17)	12	(24)	812	(17)
	<b>55-64</b>	230	(5)	9	(11)	8	(10)	7	(10)	6	(9)	10	(20)	270	(6)
	<b>≥65</b>	63	(1)	2	(3)	2	(2)	0	(0)	1	(2)	1	(2)	69	(1)

<b>RACE<sup>4</sup></b>	<b>Non-Hispanic</b>														
	<b>Caucasian</b>	2,449	(54)	21	(27)	21	(26)	21	(29)	13	(20)	13	(26)	2,538	(52)
	<b>Asian</b>	685	(15)	18	(23)	20	(25)	21	(29)	18	(27)	15	(30)	773	(16)
	<b>Hawaiian/PI</b>	508	(11)	9	(11)	9	(11)	6	(8)	12	(18)	7	(14)	551	(11)
	<b>African American</b>	217	(5)	10	(13)	5	(6)	7	(10)	2	(3)	1	(2)	242	(5)
	<b>Amer. Indians/Alaska Native</b>	14	(<1)	1	(1)	0	(0)	0	(0)	1	(2)	0	(0)	16	(<1)
	<b>Multiple Races</b>	292	(6)	11	(14)	13	(16)	10	(14)	7	(11)	7	(14)	340	(7)
	<b>Hispanic</b>	358	(8)	9	(11)	13	(16)	7	(10)	13	(20)	7	(14)	407	(8)

<b>RISK</b>	<b>Male to Male Sex (MSM)</b>	3,225	(71)	60	(76)	52	(64)	49	(68)	49	(74)	24	(48)	3,459	(71)
	<b>Injection Drug Use (IDU)</b>	343	(8)	3	(4)	5	(6)	4	(6)	1	(2)	6	(12)	362	(7)
	<b>MSM &amp; IDU</b>	332	(7)	3	(4)	4	(5)	5	(7)	1	(2)	1	(2)	346	(7)
	<b>Heterosexual Contact</b>	379	(8)	12	(15)	10	(12)	3	(4)	5	(8)	1	(2)	410	(8)
	<b>Transfusion</b>	23	(1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	23	(<1)
	<b>Perinatal</b>	15	(<1)	0	(0)	2	(2)	0	(0)	0	(0)	0	(0)	17	(<1)
	<b>Hemophilic</b>	21	(<1)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	21	(<1)
	<b>Undetermined</b>	185	(4)	1	(1)	8	(10)	11	(15)	10	(15)	18	(36)	233	(5)

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

<sup>1</sup>The number of diagnosed HIV/AIDS cases in previous years may change each year due to the ongoing national deduplication project. Data for 2020 are considered preliminary because they are based on a 6-month reporting delay and might be affected by COVID-19.

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

<sup>3</sup> Age in years at the time of HIV diagnosis.

<sup>4</sup> 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, Hawaii**

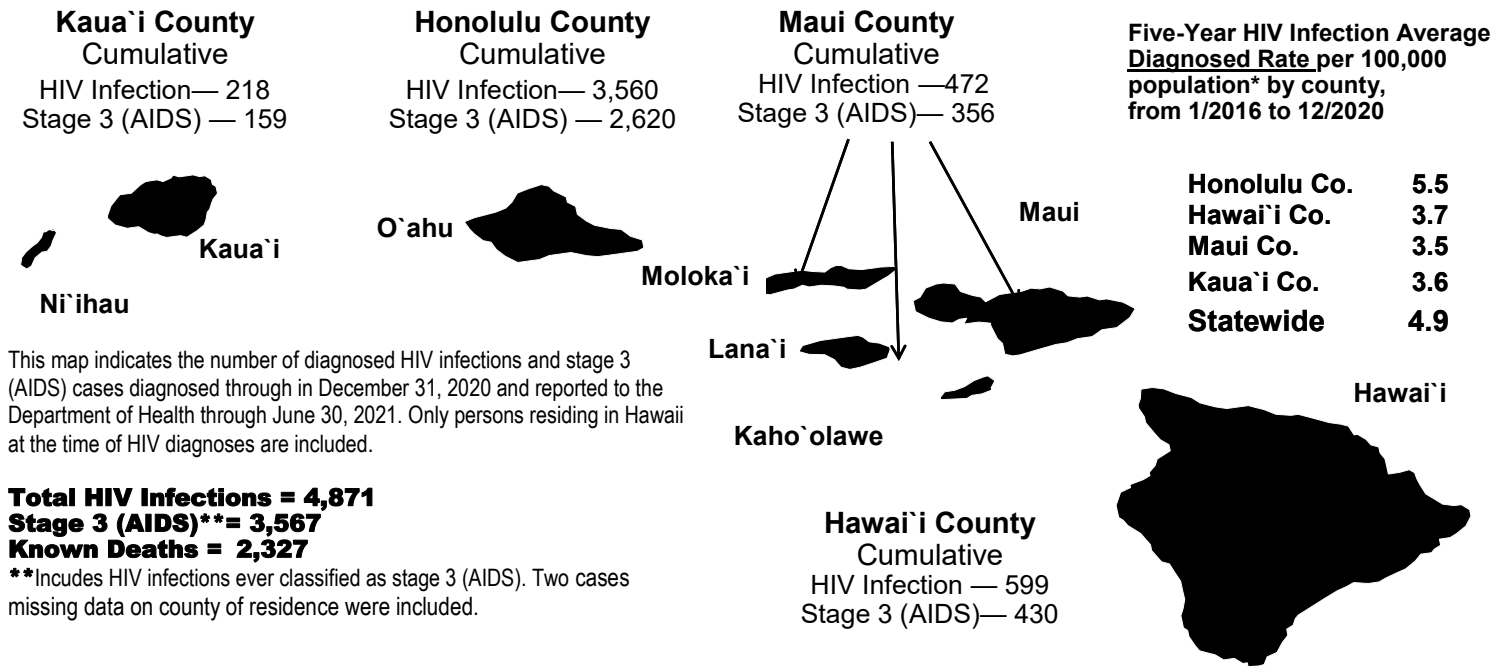


Table 2. **HIV cases (all stages) diagnosed in 2020, by county, Hawaii**

Diagnosed Cases	Honolulu Co.		Hawai'i Co.		Maui Co.		Kaua'i Co.		Statewide	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
HIV Infection	36	(72)	8	(16)	4	(8)	2	(4)	50	(100)
Stage 3 (AIDS)	17	(71)	6	(25)	1	(4)	0	(0)	24	(100)

Table 3. **Cumulative HIV infection (all stages), diagnosed through 2020, by county, Hawaii**

Selected Variables		Honolulu Co.		Hawai'i Co.		Maui Co.		Kaua'i Co.		Statewide	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
SEX <sup>1</sup>	Male	3,207	(90)	533	(89)	426	(90)	187	(86)	4,375	(90)
	Female	353	(10)	66	(11)	46	(10)	31	(14)	496	(10)
Transgender <sup>2</sup>		46	(100)	5	(100)	DS <sup>3</sup>	(DS)	DS	(DS)	52	(100)
RISK	Male to Male Sex (MSM)	2,536	(71)	415	(69)	350	(74)	146	(67)	3,459	(71)
	Injection Drug Use (IDU)	263	(7)	56	(9)	22	(5)	20	(9)	362	(7)
	MSM & IDU	245	(7)	40	(7)	38	(8)	16	(7)	346	(7)
	Heterosexual Contact	297	(8)	56	(9)	34	(7)	22	(10)	410	(8)
	Transfusion	16	(<1)	DS	(DS)	DS	(DS)	DS	(DS)	23	(<1)
	Perinatal	15	(<1)	DS	(DS)	DS	(DS)	DS	(DS)	18	(<1)
	Hemophiliac	16	(<1)	DS	(DS)	DS	(DS)	DS	(DS)	21	(<1)
	Undetermined	173	(5)	25	(4)	23	(5)	11	(5)	232	(5)
Total Cases ( row %)		3,560	(73)	599	(12)	472	(10)	218	(5)	4,871	(100)
Estimated 2019 Population* (row %)		963,826	(69)	203,340	(14)	167,989	(12)	71,851	(5)	1,407,006	(100)

Due to rounding, percentages of each column may not add to 100. Data for 2020 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 <http://census.hawaii.gov/home/population-estimate/>; A total of 22 cases missing data on county of residence at the time of HIV diagnosis were included in state total.

<sup>1</sup> Sex refers to sex at birth.

<sup>2</sup> 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. The reported cases here are included in the sex category.

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

Table 4. **Diagnosed AIDS cases (stage 3)<sup>1</sup>, annually 2015-2019 and cumulative total, Hawaii**

		1983-2015	2016	2017	2018	2019	2020	Cumulative
<b>Cases by Year of Report <sup>2</sup></b>		3,436	28	32	22	25	24	3,567
<b>Rate per 100,000 Population</b>		N/A	2.0	2.2	1.5	1.8	1.7	N/A
<b>Demographics and Risk</b>		<b>No. (%)</b>	<b>No. (%)</b>	<b>No. (%)</b>	<b>No. (%)</b>	<b>No. (%)</b>	<b>No. (%)</b>	<b>No. (%)</b>
<b>S E X</b>	<b>Male</b>	3,133 (91)	24 (86)	25 (78)	22 (100)	22 (88)	23 (96)	3,249 (91)
	<b>Female</b>	303 (9)	4 (14)	7 (22)	0 (0)	3 (12)	1 (4)	318 (9)
<b>A G E<sup>3</sup></b>	<b>&lt;13</b>	18 (1)	0 (0)	2 (6)	0 (0)	0 (0)	0 (0)	20 (1)
	<b>13-24</b>	112 (3)	3 (11)	1 (3)	0 (0)	0 (0)	0 (0)	116 (3)
	<b>25-34</b>	942 (27)	3 (11)	7 (22)	6 (27)	5 (20)	3 (13)	966 (27)
	<b>35-44</b>	1,373 (40)	11 (39)	4 (13)	9 (41)	4 (16)	2 (8)	1,403 (39)
	<b>45-54</b>	709 (21)	7 (25)	9 (28)	4 (18)	10 (40)	9 (38)	748 (21)
	<b>55-64</b>	226 (7)	3 (11)	7 (22)	3 (14)	6 (24)	10 (42)	255 (7)
	<b>≥65</b>	56 (2)	1 (4)	2 (6)	0 (0)	0 (0)	0 (0)	59 (2)
<b>R A C E</b>	<b>Caucasian</b>	1,900 (55)	9 (32)	8 (25)	9 (41)	6 (24)	7 (29)	1,939 (54)
	<b>Asian</b>	519 (15)	5 (18)	7 (22)	11 (50)	12 (48)	9 (38)	563 (16)
	<b>Hawaiian/ PI</b>	416 (12)	2 (7)	7 (22)	0 (0)	2 (8)	2 (8)	429 (12)
	<b>African American</b>	164 (5)	2 (7)	1 (3)	0 (0)	1 (4)	1 (4)	169 (5)
	<b>Amer. Indian/Alaska Native</b>	7 (<1)	0 (0)	0 (0)	0 (0)	1 (4)	0 (0)	8 (<1)
	<b>Multiple Races</b>	174 (5)	5 (18)	7 (22)	0 (0)	1 (4)	3 (13)	190 (5)
	<b>Hispanic</b>	256 (7)	5 (18)	2 (6)	2 (9)	2 (8)	2 (8)	269 (8)
<b>R I S K</b>	<b>Male to Male Sex (MSM)</b>	2,470 (72)	18 (64)	20 (63)	15 (68)	16 (64)	9 (38)	2,548 (71)
	<b>Injection Drug Use (IDU)</b>	280 (8)	4 (14)	1 (3)	2 (9)	2 (8)	2 (8)	291 (8)
	<b>MSM &amp; IDU</b>	280 (8)	0 (0)	0 (0)	3 (14)	1 (4)	2 (8)	286 (8)
	<b>Heterosexual Contact</b>	245 (7)	5 (18)	6 (19)	0 (0)	3 (12)	1 (4)	260 (7)
	<b>Other/Unknown</b>	161 (5)	1 (4)	5 (16)	2 (9)	3 (12)	10 (42)	182 (5)
<b>C O U N T Y<sup>4</sup></b>	<b>Honolulu</b>	2,525 (74)	18 (64)	27 (84)	16 (73)	17 (68)	17 (71)	2,620 (73)
	<b>Hawai'i</b>	413 (12)	3 (11)	1 (3)	2 (9)	5 (20)	6 (25)	430 (12)
	<b>Maui</b>	348 (10)	2 (7)	2 (6)	2 (9)	1 (4)	1 (4)	356 (10)
	<b>Kaua'i</b>	149 (4)	5 (18)	2 (6)	2 (9)	1 (4)	0 (0)	159 (4)

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

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

<sup>2</sup> Diagnosed cases in most recent years (2017 to 2020) are incomplete due to delays in reporting and the ongoing national deduplication project.

<sup>3</sup> Age in years at the time of AIDS diagnosis.

<sup>4</sup> County of residence at the time of AIDS diagnosis. Two cases missing county information were excluded in the total.

Table 5. Linkage to HIV medical care and viral suppression after HIV diagnosis in 2019, by selected characteristics, Hawaii

		Diagnosed HIV infection in 2019		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
<b>Total</b>		66	(100)	54	(81.8)	60	(90.9)	50	(75.8)
<b>SEX</b>	<b>Male</b>	59	(89.4)	50	(84.8)	54	(91.5)	45	(76.3)
	<b>Female</b>	7	(10.6)	4	(57.1)	6	(85.7)	5	(71.4)
<b>AGE<sup>1</sup></b>	<b>13-24</b>	10	(15.1)	8	(80.0)	9	(90.0)	7	(70.0)
	<b>25-34</b>	23	(34.9)	17	(73.9)	20	(87.0)	18	(78.3)
	<b>35-44</b>	14	(21.2)	13	(92.9)	14	(100.0)	12	(85.7)
	<b>45-54</b>	12	(18.2)	11	(91.7)	11	(91.7)	9	(75.0)
	<b>55-64</b>	6	(9.1)	4	(66.7)	5	(83.3)	4	(66.7)
	<b>≥65</b>	1	(1.5)	DS <sup>2</sup>	(DS)	DS	(DS)	DS	(DS)
<b>RACE<sup>3</sup></b>	<b>Caucasian</b>	13	(19.7)	12	(92.3)	12	(92.3)	10	(76.9)
	<b>Asian</b>	18	(27.3)	14	(77.8)	16	(88.9)	12	(66.7)
	<b>Hawaiian/PI</b>	12	(18.2)	9	(75.0)	10	(83.3)	9	(75.0)
	<b>African-American</b>	2	(3.0)	DS <sup>2</sup>	(DS)	DS	(DS)	DS	(DS)
	<b>Hispanic, all races</b>	13	(19.7)	11	(84.6)	12	(92.3)	10	(76.9)
	<b>Multiple races</b>	7	(10.6)	5	(71.4)	7	(100.0)	6	(85.7)
<b>RISK</b>	<b>Male to Male Sex (MSM)</b>	49	(74.2)	43	(87.8)	46	(93.9)	40	(81.6)
	<b>Injection drug use (IDU)</b>	1	(1.5)	DS <sup>2</sup>	(DS)	DS	(DS)	DS	(DS)
	<b>MSM &amp; IDU</b>	1	(1.5)	DS	(DS)	DS	(DS)	DS	(DS)
	<b>Heterosexual</b>	5	(7.6)	3	(60.0)	5	(100.0)	4	(80.0)
	<b>Other/Unknown</b>	10	(13.6)	7	(70.0)	8	(80.0)	5	(50.0)
<b>COUNTY<sup>3</sup></b>	<b>Honolulu</b>	52	(78.8)	41	(78.9)	46	(88.5)	40	(76.9)
	<b>Hawaii</b>	9	(13.4)	8	(88.9)	9	(100.0)	6	(66.7)
	<b>Maui</b>	3	(4.6)	DS	(DS)	DS	(DS)	DS	(DS)
	<b>Kauai</b>	2	(3.0)	DS	(DS)	DS	(DS)	DS	(DS)

<sup>1</sup>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.

<sup>2</sup>DS: data is suppressed if it is based on cells with a total count <5;

<sup>3</sup>Excluding one American Indian/Alaska Native. County of residence reflects the address at the time of HIV diagnosis.

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 2019,  
by selected characteristics, Hawaii <sup>1</sup>**

		Living with HIV <sup>1</sup> (Year-end 2019 and diagnosed through year-end 2018)		Received or Retained in HIV Medical Care				HIV Viral Load Test			
				≥ 1 CD4/VL Test		≥ 2 CD4/VL Tests (At least 3 months apart)		≥ 1 Test (All values)		Viral Suppression (At latest VL test) VL<200 copies/mL	
		No.	(%) Column	No.	(%) Row	No.	(%) Row	No.	(%) Row	No.	(%) Row
<b>Total</b>		2,164	(100.0)	1,946	(89.9)	1,378	(63.7)	1,921	(88.8)	1,785	(82.5)
<b>SEX</b>	<b>Male</b>	1933	(89.3)	1,738	(89.9)	1,239	(64.1)	1,716	(88.8)	1,602	(82.9)
	<b>Female</b>	231	(10.7)	208	(90.4)	139	(60.2)	205	(88.7)	183	(79.2)
<b>AGE<sup>2</sup></b>	<b>13-24</b>	35	(1.6)	29	(82.9)	17	(48.6)	27	(77.1)	24	(68.6)
	<b>25-34</b>	244	(11.3)	206	(84.4)	137	(56.2)	206	(84.4)	182	(74.6)
	<b>35-44</b>	326	(15.1)	286	(87.7)	190	(58.3)	282	(86.5)	249	(76.4)
	<b>45-54</b>	563	(26.0)	501	(89.0)	336	(59.7)	496	(88.1)	459	(81.5)
	<b>55-64</b>	677	(31.3)	629	(92.9)	469	(69.3)	620	(91.6)	594	(87.7)
	<b>≥65</b>	319	(14.7)	295	(92.5)	229	(71.8)	290	(90.9)	277	(86.8)
<b>RACE</b>	<b>Caucasian</b>	994	(45.9)	904	(91.0)	643	(64.7)	891	(89.6)	848	(85.3)
	<b>Asian</b>	356	(16.4)	331	(93.0)	241	(67.7)	328	(92.1)	304	(85.4)
	<b>Hawaiian/PI</b>	212	(9.8)	195	(92.0)	137	(64.6)	194	(91.5)	173	(81.6)
	<b>African American</b>	121	(5.6)	89	(73.5)	57	(47.1)	84	(69.4)	76	(62.8)
	<b>Hispanic</b>	233	(10.8)	212	(91.0)	146	(62.7)	209	(89.7)	198	(85.0)
	<b>Multiple Races</b>	239	(11.0)	208	(87.0)	149	(62.3)	208	(87.0)	179	(74.9)
	<b>Other/Unknown</b>	9	(0.4)	7	(77.8)	5	(55.6)	7	(77.8)	7	(77.8)
<b>RISK</b>	<b>Male to Male Sex (MSM)</b>	1,577	(72.9)	1,429	(90.6)	1,024	(64.9)	1,411	(89.5)	1,323	(83.9)
	<b>IDU</b>	132	(6.1)	113	(85.6)	72	(54.5)	111	(84.1)	102	(77.3)
	<b>MSM &amp; IDU</b>	153	(7.1)	142	(92.8)	99	(64.7)	140	(91.5)	125	(81.7)
	<b>Heterosexual</b>	230	(10.6)	202	(87.8)	138	(60.0)	199	(86.5)	182	(79.1)
	<b>Unknown/Other</b>	64	(3.0)	52	(81.3)	40	(62.5)	52	(81.3)	48	(75.0)
	<b>Perinatal</b>	8	(0.4)	8	(100.0)	5	(62.5)	8	(100.0)	5	(62.5)
<b>COUNTY<sup>3</sup></b>	<b>Honolulu</b>	1,423	(65.8)	1,281	(90.0)	935	(65.7)	1,270	(89.3)	1,171	(82.3)
	<b>Hawai'i</b>	380	(17.6)	345	(90.8)	229	(60.3)	334	(87.9)	315	(82.9)
	<b>Mau'i</b>	285	(13.2)	253	(88.8)	167	(58.6)	250	(87.7)	237	(83.2)
	<b>Kaua'i</b>	76	(3.5)	67	(88.2)	47	(61.8)	67	(88.2)	62	(82.9)

<sup>1</sup> Only persons aged ≥13 years at year-end 2018 with HIV infection diagnosed through 2018 and residing in Hawaii at year-end 2019 were included. A total of 138 persons whose HIV infections were diagnosed in 2010 or earlier and who had no documented CD4/viral load data since 2011 were excluded.

<sup>2</sup> Refers to age in years at year-end 2018.

<sup>3</sup> Refers to county of residence at year-end 2019.