



## New HIV Infection Diagnoses in Hawai'i, 2009-2013

There were 460 cases of HIV infection including AIDS diagnosed in Hawai'i between 2009 and 2013 and reported by the end of 2014. In this time period:

- ◆ Of the 460 HIV infections, 186 (40.4%) were AIDS cases and 274 (59.6%) were HIV (not AIDS) cases.
- ◆ Over half of the cases (52.4%) were diagnosed in individuals age 25-44.
- ◆ The proportion and number of Honolulu County HIV infection cases decreased, from 83.8% (83 cases) in 2009 to 67.0% (61 cases) in 2013. Honolulu County accounts for 75.0% of all the state's HIV infection with 345 cases in this period. The proportions and numbers of HIV infection cases in Hawai'i and Maui Counties increased in the same time period, while Kaua'i County had minimal changes (Figure 1).
- ◆ Women accounted for a decreasing proportion of HIV infection cases, from 18.2% (18 cases) in 2009 to 6.6% (6 cases) in 2013. Men account for a considerably larger proportion of HIV infection cases in the time period (Figure 2).
- ◆ Overall, number and proportion of HIV infection cases for Caucasians and African-Americans decreased during the 2009-2013 period while the proportion and cases for all other racial/ethnic groups (Hispanics, Asian, Hawaiian and Pacific Islanders, multiple race increased (Table 1)).

Figure 1. Percentages of HIV Infection Cases by County, 2009-2013 (N=460)

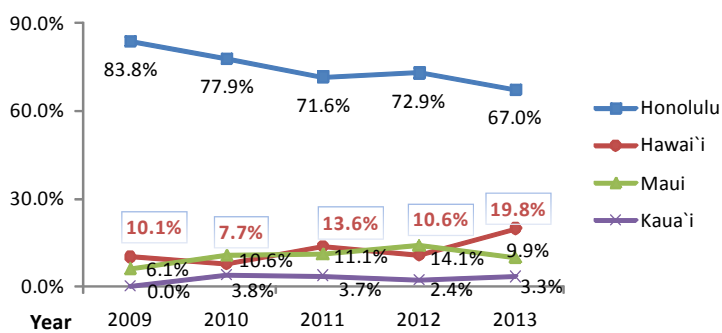


Figure 2. Percentages of HIV Infection Cases by Gender, 2009-2013 (N=460)

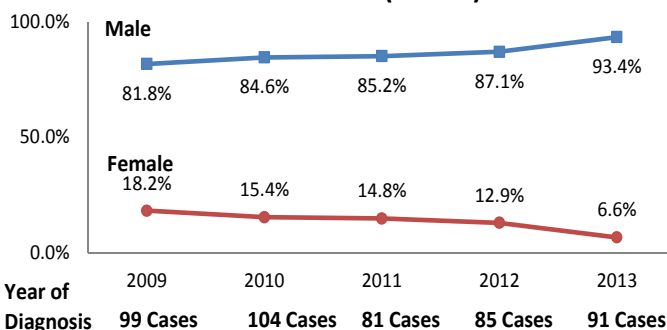
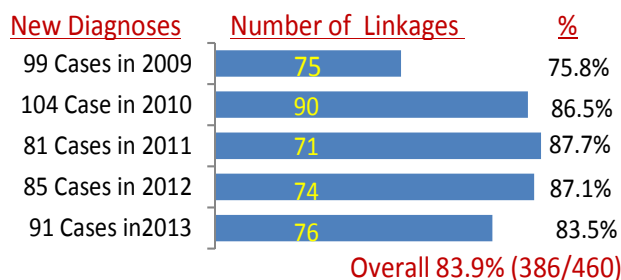


Table 1. HIV Infection Cases by Race/Ethnicity, Hawaii, 2009-2013

Race/Ethnicity	2009		2010		2011		2012		2013		5 YEARS	
	No	%	No	%	No	%	No	%	No	%	No	%
Caucasian	43	43.4%	37	35.6%	31	38.3%	29	34.1%	26	28.6%	166	36.1%
Afri.American	13	13.1%	8	7.7%	9	11.1%	0	0.0%	3	3.3%	33	7.2%
Asian	19	19.2%	29	27.9%	16	19.8%	21	24.7%	23	25.3%	108	23.5%
Hawaiian/ PI	11	11.1%	17	16.3%	12	14.8%	12	14.1%	15	16.5%	67	14.6%
Hispanic	7	7.1%	4	3.8%	4	4.9%	11	12.9%	13	14.3%	39	8.5%
Other	6	6.1%	9	8.7%	9	11.1%	12	14.1%	11	12.1%	47	10.2%
<b>Total</b>	<b>99</b>		<b>104</b>		<b>81</b>		<b>85</b>		<b>91</b>		<b>460</b>	

Figure 3. Linkage to HIV Care within 3 Months After Initial HIV Diagnosis, Hawai'i, 2009-2013



◆ Men who have sex with men (MSM) accounted for the majority of cases (62.2%, 286, followed by heterosexual contact (8.9%, 41), injection drug use (IDU) (6.3%, 29) and MSM/IDU (3.3%, 15). The proportion of HIV infection cases attributed to heterosexual contact decreased from 13.1% in 2009 to 3.3% in 2013, while those in the unknown/other group increased from 14.1% in 2009 to 26.4% in 2013. Cases reported with an unknown risk are under investigation to identify the risk. The proportions of HIV infections for the remaining risk groups either fluctuated or remained relatively stable during 2009-2013.

◆ Of the 460 newly diagnosed individuals 83.9% (386) were linked to HIV medical care (defined as >1 CD4 or viral load tests within 3 month following initial diagnoses) as shown in Figure 3.



**Table 1. Hawai'i Reported HIV Infection Cases By Year,  
Reported Through December 31, 2014**

Year of Report	AIDS				HIV (not AIDS)				HIV Infection
	1983-2012	2013	2014	Cumulative	1983-2012	2013	2014	Cumulative	Cumulative
Cases by Year of Report <sup>1</sup>	3,330	70	49	3,449	934	97	75	1,106	4,555
Rate per 100,000 Population <sup>2</sup>	N/A	5.0	3.5	N/A	N/A	6.9	5.3	N/A	N/A

Demographics/Risk	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
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SEX	Male	3,031 (91)	65 (93)	45 (92)	3,141 (91)	777 (83)	92 (95)	63 (84)	932 (84)	4,073 (89)
	Female	299 (9)	5 (7)	4 (8)	308 (9)	157 (17)	5 (5)	12 (16)	174 (16)	482 (11)

AGE <sup>3</sup>	<13	17 (1)	0 (0)	0 (0)	17 (<1)	3 (<1)	0 (0)	0 (0)	3 (<1)	20 (<1)
	13-14	0 (0)	0 (0)	0 (0)	0 (0)	4 (<1)	0 (0)	0 (0)	4 (<1)	4 (<1)
	15-24	105 (3)	5 (7)	1 (2)	111 (3)	113 (12)	14 (14)	11 (15)	138 (12)	249 (5)
	25-34	929 (28)	9 (13)	16 (33)	954 (28)	298 (32)	33 (34)	27 (36)	358 (32)	1,312 (29)
	35-44	1,356 (41)	15 (21)	15 (31)	1,386 (40)	264 (28)	23 (24)	20 (27)	307 (28)	1,693 (37)
	45-54	665 (20)	30 (43)	9 (18)	704 (20)	178 (19)	21 (22)	9 (12)	208 (19)	912 (20)
	55-64	211 (6)	8 (11)	6 (12)	225 (7)	55 (6)	4 (4)	5 (7)	64 (6)	289 (6)
	≥65	47 (1)	3 (4)	2 (4)	52 (2)	19 (2)	2 (2)	3 (4)	24 (2)	76 (2)

RACE	Non-Hispanics										
	Caucasians	1,905 (57)	21 (30)	16 (33)	1,942 (56)	532 (57)	46 (47)	23 (31)	601 (54)	2,543 (56)	
	Asians	496 (15)	21 (30)	9 (18)	526 (15)	144 (15)	20 (21)	16 (21)	180 (16)	706 (15)	
	Hawaiians/PI	401 (12)	14 (20)	9 (18)	424 (12)	69 (7)	9 (9)	9 (12)	87 (8)	511 (11)	
	African Americans	163 (5)	0 (0)	4 (8)	167 (5)	43 (5)	3 (3)	8 (11)	54 (5)	221 (5)	
	American Indians/Alaskans	9 (<1)	0 (0)	0 (0)	9 (<1)	4 (<1)	1 (1)	0 (0)	5 (<1)	14 (<1)	
	Multiple Race	117 (4)	4 (6)	6 (12)	127 (4)	61 (7)	10 (10)	9 (12)	80 (7)	207 (5)	
	Legacy API <sup>4</sup>	8 (<1)	0 (0)	0 (0)	8 (<1)	0 (0)	0 (0)	0 (0)	0 (0)	8 (<1)	
Hispanics	231 (7)	10 (14)	5 (10)	246 (7)	81 (9)	8 (8)	10 (13)	99 (9)	345 (8)		

RISK	Male to Male Sex (MSM)	2,410 (72)	45 (64)	26 (53)	2,481 (72)	630 (67)	62 (64)	43 (57)	735 (66)	3,216 (71)
	Injection Drug Use (IDU)	273 (8)	2 (3)	4 (8)	279 (8)	57 (6)	2 (2)	4 (5)	63 (6)	342 (8)
	MSM & IDU	255 (8)	0 (0)	2 (4)	257 (7)	37 (4)	4 (4)	5 (7)	46 (4)	303 (7)
	Heterosexual	224 (7)	3 (4)	1 (2)	228 (7)	94 (10)	3 (3)	6 (8)	103 (9)	331 (7)
	Transfusion	22 (1)	0 (0)	0 (0)	22 (1)	1 (<1)	0 (0)	0 (0)	1 (<1)	23 (1)
	Perinatal	15 (<1)	0 (0)	0 (0)	15 (<1)	0 (0)	0 (0)	0 (0)	0 (0)	15 (<1)
	Hemophilic	20 (1)	0 (0)	0 (0)	20 (1)	2 (<1)	0 (0)	0 (0)	2 (<1)	22 (<1)
	Undetermined	111 (3)	20 (29)	16 (33)	147 (4)	113 (12)	26 (27)	17 (23)	156 (14)	303 (7)

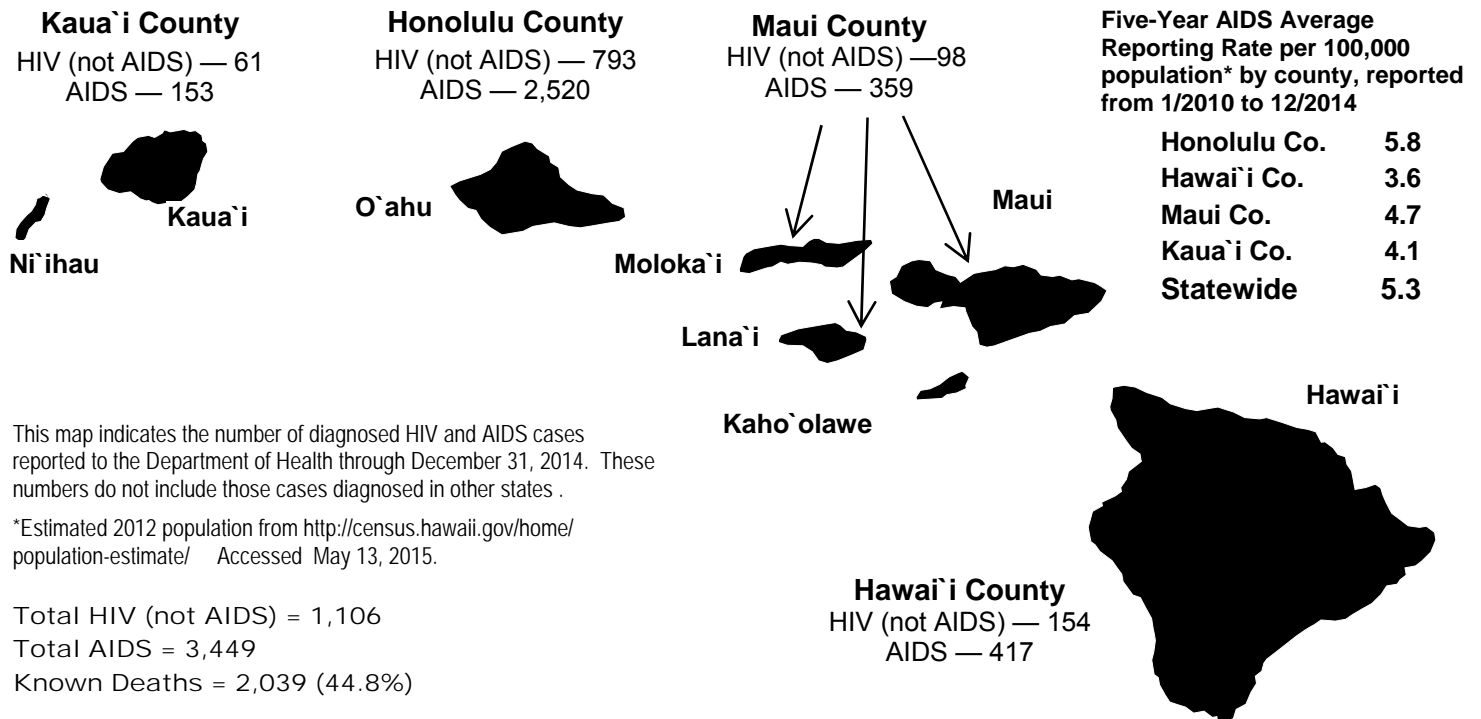
<sup>1</sup> The number of reported HIV/AIDS cases in previous years may change each year due to the on-going national de-duplication project.

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

<sup>3</sup> Age at the time of diagnosis

<sup>4</sup> Legacy API includes cases that cannot be classified as either specifically Asian or Pacific Islander.

**Fig. 2. Reported HIV Infection Cases by County, Reported Through December 31, 2014**



**Table 2. 2014 Reported HIV Infection Cases by County**

Cases and Population	Honolulu Co.		Hawai'i Co.		Maui Co.		Kauai Co.		Statewide	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
<b>2014 Reported HIV Infection</b>	<u>84</u>	<u>(68)</u>	<u>13</u>	<u>(10)</u>	<u>19</u>	<u>(15)</u>	<u>8</u>	<u>(6)</u>	<u>124</u>	<u>(100)</u>
HIV (not AIDS)	55		11		8		1		75	
AIDS	29		2		11		7		49	

**Table 3. Cumulative HIV Infection, Reported by County, Cases to 2014**

Sex and Risk		Honolulu Co.		Hawai'i Co.		Maui Co.		Kauai Co.		Statewide	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
<b>SEX</b>	Male	2,975	(90)	499	(87)	418	(91)	181	(85)	4,073	(89)
	Female	338	(10)	72	(13)	39	(9)	33	(15)	482	(11)
<b>RISK</b>	Male to Male Sex	2,350	(71)	386	(68)	339	(74)	141	(66)	3,216	(71)
	Injection Drug Use	242	(7)	55	(10)	23	(5)	22	(10)	342	(8)
	Male/Male Sex & IDU	220	(7)	36	(6)	35	(8)	12	(6)	303	(7)
	Heterosexual Contact	236	(7)	49	(9)	24	(5)	22	(10)	331	(7)
	Transfusion	17	(1)	2	(<1)	2	(<1)	2	(1)	23	(1)
	Perinatal	13	(<1)	2	(<1)	0	(0)	0	(0)	15	(<1)
	Hemophiliac	16	(<1)	4	(1)	2	(<1)	0	(0)	22	(<1)
	Undetermined	219	(7)	37	(6)	32	(7)	15	(7)	303	(7)
<b>Total Cases (row %)</b>		3,313 (73%)		571 (13%)		457 (10%)		214 (5%)		4,555 (100%)	
<b>Estimated 2012 Population*</b>		976,746 (70%)		188,946 (14%)		158,521 (11%)		68,553 (5%)		1,392,766(100%)	

Table 4. Hawai`i Diagnosis of HIV Infection, Five-Years (2009-2013),  
Reported Through December 31, 2014<sup>1</sup>

Years		2009		2010		2011		2012		2013		5 YEARS	
		No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
STAGE	HIV (not AIDS)	65	(65.7)	58	(55.8)	48	(59.3)	49	(57.6)	54	(59.3)	274	(59.6)
	AIDS	34	(34.3)	46	(44.2)	33	(40.7)	36	(42.4)	37	(40.7)	186	(40.4)
SEX	Male	81	(81.8)	88	(84.6)	69	(85.2)	74	(87.1)	85	(93.4)	397	(86.3)
	Female	18	(18.2)	16	(15.4)	12	(14.8)	11	(12.9)	6	(6.6)	63	(13.7)
AGE <sup>2</sup>	<25	13	(13.1)	17	(16.3)	5	(6.2)	8	(9.4)	9	(9.9)	52	(11.3)
	25-44	51	(51.5)	48	(46.2)	45	(55.6)	46	(54.1)	51	(56.0)	241	(52.4)
	≥45	35	(35.4)	39	(37.5)	31	(38.3)	31	(36.5)	31	(34.1)	167	(36.3)
RACE	Caucasian	43	(43.4)	37	(35.6)	31	(38.3)	29	(34.1)	26	(28.6)	166	(36.1)
	African American	13	(13.1)	8	(7.7)	9	(11.1)	0	(0.0)	3	(3.3)	33	(7.2)
	Asian	19	(19.2)	29	(27.9)	16	(19.8)	21	(24.7)	23	(25.3)	108	(23.5)
	Hawaiian/ PI	11	(11.1)	17	(16.3)	12	(14.8)	12	(14.1)	15	(16.5)	67	(14.6)
	Hispanic	7	(7.1)	4	(3.8)	4	(4.9)	11	(12.9)	13	(14.3)	39	(8.5)
	Other	6	(6.1)	9	(8.7)	9	(11.1)	12	(14.1)	11	(12.1)	47	(10.2)
RISK	Male to Male Sex	66	(66.7)	63	(60.6)	46	(56.8)	54	(63.5)	57	(62.6)	286	(62.2)
	Injection Drug Use	5	(5.1)	10	(9.6)	6	(7.4)	4	(4.7)	4	(4.4)	29	(6.3)
	Male/Male Sex & IDU	1	(1.0)	1	(1.0)	5	(6.2)	5	(5.9)	3	(3.3)	15	(3.3)
	Heterosexual Contact	13	(13.1)	9	(8.7)	12	(14.8)	4	(4.7)	3	(3.3)	41	(8.9)
	Other/ Unknown	14	(14.1)	21	(20.2)	12	(14.8)	18	(21.2)	24	(26.4)	89	(19.3)
COUNTY <sup>3</sup>	Honolulu	83	(83.8)	81	(77.9)	58	(71.6)	62	(72.9)	61	(67.0)	345	(75.0)
	Hawai`i	10	(10.1)	8	(7.7)	11	(13.6)	9	(10.6)	18	(19.8)	56	(12.2)
	Maui	6	(6.1)	11	(10.6)	9	(11.1)	12	(14.1)	9	(9.9)	47	(10.2)
	Kaua`i	0	(0.0)	4	(3.8)	3	(3.7)	2	(2.4)	3	(3.3)	12	(2.6)
Total Cases		99		104		81		85		91		460	

<sup>1</sup>Diagnosed cases in most recent years (2011, 2012, 2013) are incomplete due to delays in reporting.

<sup>2</sup>Age at the time of diagnosis

<sup>3</sup>County of residence at the time of diagnosis

If you need more information, please visit the Hawai`i HIV/AIDS Surveillance Program website:  
[http://healthuser.hawaii.gov/health/healthy-lifestyles/std-aids/aboutus/prg-aids/aids\\_rep/index.html](http://healthuser.hawaii.gov/health/healthy-lifestyles/std-aids/aboutus/prg-aids/aids_rep/index.html)  
 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](mailto:hiv_aids.surveillance@doh.hawaii.gov).