

# HIV/AIDS Surveillance Semi-Annual Report

Hawai'i Department of Health

Cases to December 31, 2006



**AIDS Data:** As of December 31, 2006, a cumulative total of 2,920 AIDS cases have been reported in Hawai'i. Of these, 1,719 (58.9%) are known dead. There were 88 cases reported during 2006 (one-year period), which yields an annual AIDS report rate of 6.8 per 100,000 population. Of the 88 AIDS cases, there were 78 (88.6%) males and 10 (11.4%) females. Honolulu County reported 65 (73.9%) cases; Maui County 10 (11.4%) cases; Hawai'i County 10 (11.4%) cases; and Kaua'i County 3 (3.4%) cases. AIDS data is detailed on pages 2-4.

**HIV Data:** Hawai'i is in the process of changing the reporting system from coded to named HIV reporting. At this time, Hawai'i HIV data based on code reporting are not available. It is recommended that all providers continue to report HIV cases with UTCs and keep the linkage of UTCs and names in their offices for follow up of missing information on case report forms and for future code to name conversion.

## AIDS Mortality in Hawai'i, 1983—2005

There have been 1,708 AIDS-related deaths among Hawai'i diagnosed AIDS cases as of the end of 2005. This accounts more than half (59%) of Hawai'i's diagnosed AIDS cases. Figure 1 illustrates the incidence of new cases and deaths among persons with AIDS from 1990 to 2005. AIDS mortality in Hawai'i reached its second highest level in 1995, then declined from 1996 and has stabilized since 1998. In general, deaths among people with AIDS is around 40 cases per year since 1998. The reduction of mortality is related to the highly active antiretroviral therapy (HAART), which was introduced in 1996. It has reduced HIV progression to AIDS and decreased AIDS-related deaths. This results in people who have HIV/AIDS living longer.

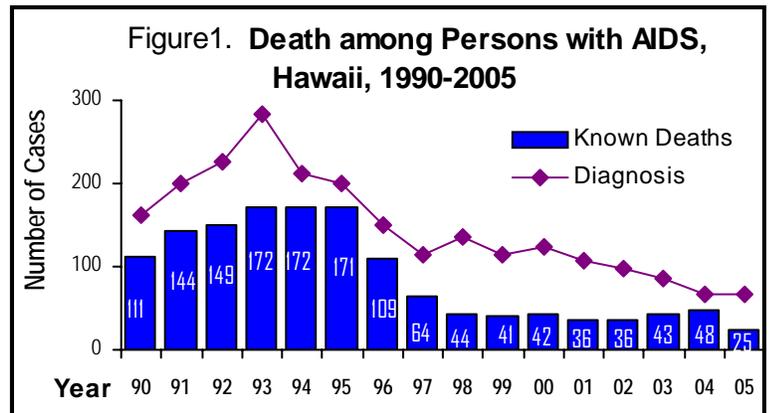


Table 1 shows the selected characteristics of AIDS deaths for the time periods pre-1996 and 1996-2005. In comparing the two time periods, data indicates a higher percentage AIDS mortality in the latter period for females (3.9% vs. 9.8%), Hawaiians/ Pacific Islanders (11.3% vs. 16.6%), Asians (14.3% vs. 18.9%) and Hispanics (3.9% vs. 5.3%).

More people who were dying from AIDS were doing so at an older age (aged 40 and above) in the 1996-2005 period as compared with AIDS deaths in the earlier period. The average of length of time from initial AIDS diagnosis to death was 11.7 months pre-1996 and 41.4 months in the 1996-2005 time period.

Most AIDS death were in Honolulu County (75.9%), followed by Hawai'i (11.8%), Maui (8.3%) and Kauai (4.0%) County.

Table 1. AIDS-Related Death, Hawaii, 1983-2005

Total Number		< 1996		>96 - 05		Total	
		No.	(%)	No.	(%)	No.	(%)
Total Number		1,220		488		1,708	
Characteristics		No.	(%)	No.	(%)	No.	(%)
Sex	Male	1,173	(96.1)	440	(90.2)	1,613	(94.4)
	Female	47	(3.9)	48	(9.8)	95	(5.6)
Race/ Ethnicity	Caucasian	810	(66.4)	263	(53.9)	1,073	(62.8)
	Hispanic	47	(3.9)	26	(5.3)	73	(4.3)
	Afri.American	45	(3.7)	21	(4.3)	66	(3.9)
	Hawaiian/PI	138	(11.3)	81	(16.6)	219	(12.8)
	Asian	175	(14.3)	92	(18.9)	267	(15.6)
	Other	5	(0.4)	5	(1.0)	10	(0.6)
Age at Death (Years)	<20	10	(0.8)	3	(.6)	13	(0.8)
	20-29	93	(7.6)	12	(2.5)	105	(6.1)
	30-39	523	(42.9)	135	(27.7)	658	(38.5)
	40-49	406	(33.3)	204	(41.8)	610	(35.7)
	>49	188	(15.4)	134	(27.5)	322	(18.9)
County	Honolulu	929	(76.1)	368	(75.4)	1,297	(75.9)
	Hawaii	141	(11.6)	60	(12.3)	201	(11.8)
	Maui	97	(8.0)	44	(9.0)	141	(8.3)
	Kauai	53	(4.3)	16	(3.3)	69	(4.0)

# Hawai'i AIDS Cases, Reported through December 31, 2006

Year of Report	1983-2000	2001	2002	2003	2004	2005	2006	TOTAL
Cases by Year of Report <sup>a</sup>	2,284	117	109	100	120	102	88	2,920
Rate per 100,000 Population <sup>b</sup>	N/A	9.6	8.8	8.0	9.5	8.0	6.8	N/A

Demographics/Risk	No.	(%)								
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SEX	Male	2,128	(93)	102	(87)	98	(90)	84	(84)	108	(90)	90	(88)	78	(89)	2,688	(92)
	Female	156	(7)	15	(13)	11	(10)	16	(16)	12	(10)	12	(12)	10	(11)	232	(8)

AGE	<13	16	(1)	0	(0)	0	(0)	1	(1)	0	(0)	0	(0)	0	(0)	17	(1)
	13-19	8	(0)	0	(0)	0	(0)	1	(1)	0	(0)	1	(1)	2	(2)	12	(<1)
	20-29	299	(13)	10	(9)	13	(12)	9	(9)	13	(11)	7	(7)	2	(2)	353	(12)
	30-39	993	(43)	46	(39)	41	(38)	39	(39)	45	(38)	29	(28)	27	(31)	1,220	(42)
	40-49	695	(30)	37	(32)	38	(35)	30	(30)	36	(30)	39	(38)	32	(36)	907	(31)
	>49	273	(12)	24	(21)	17	(16)	20	(20)	26	(22)	26	(25)	25	(28)	411	(14)

RACE	Non-Hispanic																
	Caucasian	1,423	(62)	69	(59)	57	(52)	42	(42)	60	(50)	62	(61)	43	(49)	1,756	(60)
	Asian/Hawaiian/PI*	633	(28)	35	(30)	39	(36)			-	-	-	-	-	-	707	
	Asian*	-	-	-	-	-	-	22	(22)	20	(17)	13	(13)	20	(23)	75	
	Hawaiian/Pacific Islander*	-	-	-	-	-	-	16	(16)	12	(10)	10	(10)	7	(8)	45	
	Total API*	633	(28)	35	(30)	39	(36)	38	(38)	32	(27)	23	(23)	27	(31)	827	(28)
	African-American	99	(4)	3	(3)	6	(6)	8	(8)	8	(7)	3	(3)	4	(5)	131	(4)
	American Indian/Alaskan	8	(<1)	1	(1)	0	(0)	0	(0)	2	(2)	1	(1)	0	(0)	12	(<1)
	Multiple Race & Unknown	4	(<1)	0	(0)	0	(0)	6	(6)	4	(3)	6	(6)	5	(6)	25	(1)
Hispanic	117	(5)	9	(8)	7	(6)	6	(6)	14	(12)	7	(7)	9	(10)	169	(6)	

\*Beginning 2003, the new category for race/ethnicity, which follows the 1997 OMB standard from CDC's guideline, has been adopted in Hawaii. Due to the new category adoption, race/ethnicity information collected and compiled in this report are under two systems. Total API is the combination data for two systems.

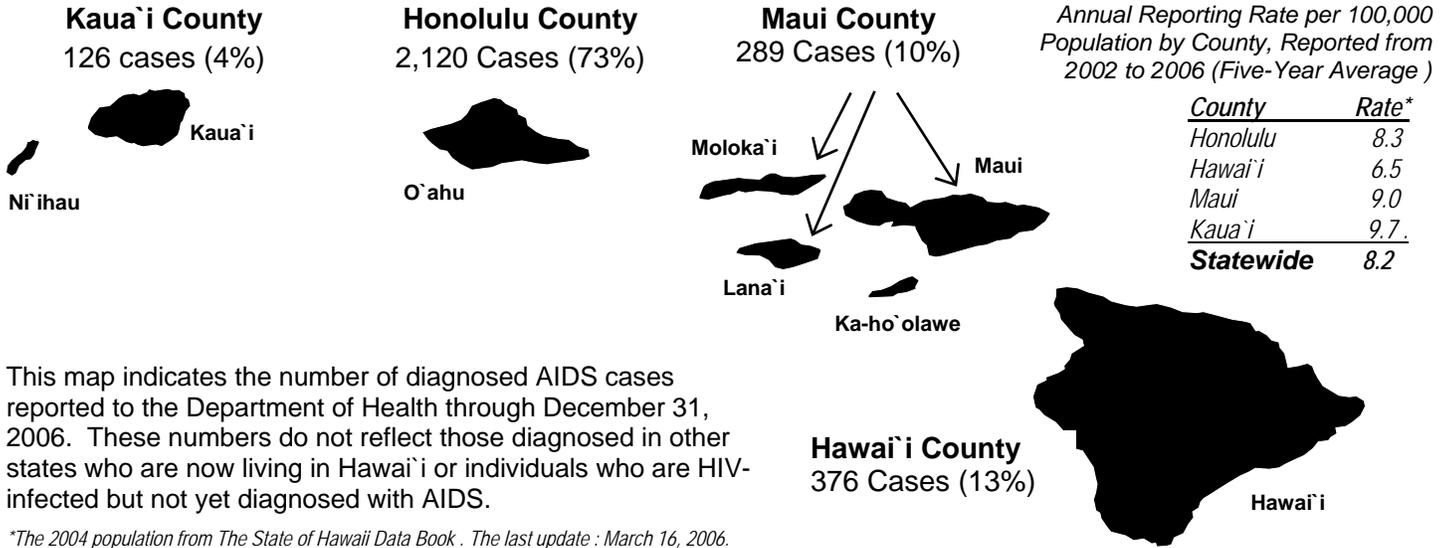
RISK	Male to Male Sex	1,723	(75)	82	(70)	75	(69)	61	(61)	73	(61)	65	(64)	57	(65)	2,136	(73)
	Injection Drug Use	164	(7)	10	(9)	9	(8)	4	(4)	11	(9)	6	(6)	11	(13)	215	(7)
	Male/Male Sex & IDU	169	(7)	2	(2)	8	(7)	5	(5)	12	(10)	9	(9)	2	(2)	207	(7)
	Heterosexual	120	(5)	12	(10)	5	(5)	13	(13)	9	(8)	3	(3)	3	(3)	165	(6)
	Transfusion	24	(1)	0	(0)	2	(2)	3	(3)	1	(1)	0	(0)	0	(0)	30	(1)
	Perinatal	13	(1)	0	(0)	0	(0)	1	(1)	0	(0)	0	(0)	0	(0)	14	(<1)
	Hemophilic	18	(1)	1	(1)	1	(1)	0	(0)	0	(0)	0	(0)	0	(0)	20	(1)
	Undetermined	53	(2)	10	(9)	9	(8)	13	(13)	14	(12)	19	(19)	15	(17)	133	(5)

<sup>a</sup>. Due to the de-duplication with nation, the number of Hawaii reported cases may change each year.

<sup>b</sup>. Each year's estimated population from <http://www.hawaii.gov/dbedt/info/census/population-estimate>. The last update: December 22, 2006.

# County Report

## Cumulative Cases (1983 – December 31, 2006)



This map indicates the number of diagnosed AIDS cases reported to the Department of Health through December 31, 2006. These numbers do not reflect those diagnosed in other states who are now living in Hawai`i or individuals who are HIV-infected but not yet diagnosed with AIDS.

Cumulative Hawai`i AIDS cases reported 1983 to December 31, 2006    2,920                      Known Deaths    1,719 (58.9%)

### AIDS Cases by County: Five-year (2002 - 2006) and Cumulative Total (1983 – December 31, 2006)

County	Honolulu Co.		Hawai`i Co.		Maui Co.		Kaua`i Co		Statewide		
	5-Year	Cum. Total	5-Year	Cum. Total	5-Year	Cum. Total	5-Year	Cum. Total	5-Year	Cum. Total	
	No. (%)	N (%)	No. (%)	No. (%)	No. (%)	No. (%)	N (%)	N (%)	No. (%)	No. (%)	
SEX	Male	328 (88)	1,959 (92)	47 (89)	335 (89)	56 (90)	279 (94)	27 (90)	115 (91)	458 (88)	2,688 (92)
	Female	46 (12)	161 (8)	6 (11)	41 (11)	6 (10)	19 (6)	3 (10)	11 (9)	61 (12)	232 (8)

RISK	Male to Male Sex	230 (61)	1,559 (74)	33 (62)	251 (67)	47 (76)	232 (78)	21 (70)	94 (75)	331 (64)	2,136 (73)	
	Injection Drug Use	34 (9)	151 (7)	3 (6)	39 (10)	2 (3)	15 (5)	2 (7)	10 (8)	41 (8)	215 (7)	
	Male/Male Sex & IDU	30 (8)	147 (7)	4 (8)	31 (8)	2 (3)	25 (8)	0 (0)	4 (3)	36 (7)	207 (7)	
	Heterosexual Contact	25 (7)	113 (5)	2 (4)	28 (7)	3 (5)	14 (5)	3 (10)	10 (8)	33 (6)	165 (6)	
	Transfusion	4 (1)	23 (1)	0 (0)	3 (1)	2 (3)	2 (1)	0 (0)	2 (2)	6 (1)	30 (1)	
	Perinatal	1 (<1)	12 (1)	0 (0)	2 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (0)	14 (<1)
	Hemophiliac	1 (<1)	15 (1)	0 (0)	3 (1)	0 (0)	2 (1)	0 (0)	0 (0)	0 (0)	1 (0)	20 (1)
	Undetermined	49 (13)	100 (5)	11 (21)	19 (5)	6 (10)	8 (3)	4 (13)	6 (5)	70 (13)	133 (5)	
	<b>Total Cases</b>	<b>374</b>	<b>2,120</b>	<b>53</b>	<b>376</b>	<b>62</b>	<b>298</b>	<b>30</b>	<b>126</b>	<b>519</b>	<b>2,920</b>	

01/2002– 12/2006 Cases (%)	374 (72)	53 (10)	62 (12)	30 (6)	519 (100)
Cumulative Cases (%)	2,120 (73)	376 (13)	298 (10)	126 (4)	2,920 (100)
2004 Estimated Population (%)	(71)	(13)	(11)	(5)	1,262,124 (100)

## AIDS Cases by Race/Ethnicity Reported from 2002 to 2006 (Five - Year)

Race/Ethnicity	Caucasian	African American	Hispanic	Hawaiian/ Pt. Haw	Filipino	Chinese	Japanese	Other A/PIs	Multiple <sup>a</sup> Race	Total <sup>b</sup>
	No. (%)	N (%)	No. (%)	No. (%)	No. (%)	No. (%)	N (%)	N (%)	No. (%)	No. (%)

SEX	Male	239 (91)	25 (86)	40 (93)	44 (83)	32 (94)	13 (87)	28 (97)	22 (69)	13 (72)	459 (88)
	Female	24 (9)	4 (14)	3 (7)	9 (17)	2 (6)	2 (13)	1 (3)	10 (31)	5 (28)	60 (12)

RISK	Male to Male Sex	191 (73)	15 (52)	27 (63)	28 (53)	20 (59)	9 (60)	17 (59)	14 (44)	10 (56)	332 (64)
	Injection Drug Use	20 (8)	4 (14)	2 (5)	6 (11)	0 (0)	4 (27)	1 (3)	3 (9)	1 (6)	41 (8)
	Male/Male Sex & IDU	17 (6)	3 (10)	4 (9)	7 (13)	4 (12)	0 (0)	2 (7)	0 (0)	1 (6)	39 (8)
	Heterosexual Contact	9 (3)	2 (7)	1 (2)	6 (11)	3 (9)	0 (0)	2 (7)	6 (19)	2 (11)	32 (6)
	Transfusion	2 (1)	0 (0)	1 (2)	0 (0)	1 (3)	0 (0)	1 (3)	1 (3)	0 (0)	6 (1)
	Perinatal	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (3)	0 (0)	1 (<1)
	Hemophiliac	1 (<1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (<1)
	Undetermined	23 (9)	5 (17)	8 (19)	6 (11)	6 (18)	2 (13)	6 (21)	7 (22)	4 (22)	67 (13)
5-Year Cases	263	29	43	53	34	15	29	32	18	519	

Cumulative Cases (%)	1,756 (60)	131 (4)	169 (6)	321 (11)	164 (6)	68 (2)	140 (5)	135 (5)	24 (1)	2,920 (100)
5 Year Cases (%)	263 (51)	29 (6)	43 (8)	53 (10)	34 (7)	15 (3)	29 (6)	32 (6)	18 (3)	519 (100)
5-Year Average Annual Rate per 100,000 <sup>c</sup>	17.9	26.4	9.8	13.2	4.0	5.3	2.9	2.1	1.4	8.2

<sup>a</sup> This data collection began in 2003.

<sup>b</sup> Totals include American Indians with 3 cases in previous 5-year period; 12 cases as of December, 31 2006.

<sup>c</sup> 2000 population, U.S. Census, from the State of Hawaii Data Book 2002, <http://www.hawaii.gov/dbedt/db02/01/013202.xls> and 013302.xls

**Reporting Requirement:** AIDS case reporting is required by Hawai'i Revised Statutes (HRS) §325-2 and Hawaii Administrative Rules §11-156-3 for low CD4 values (<200ml/ml or <14% of total lymphocytes). Reporting by name is required at the time a person is diagnosed with AIDS as defined by the Centers for Disease Control and Prevention (revised in January 1993). HIV case reporting by Unnamed Test Code (UTC) is required by Hawaii Administrative Rules §11-156-8.8 & 8.9., which took effect on August 27, 2001. Information is collected for the advancement of epidemiologic knowledge and handled in strictest confidence in accordance with HRS §325-101. Names and other identifiers are not released. Those required to report include physicians, nurses, infection control practitioners, medical directors, and hospitals.

**Questions regarding forms, reporting requirements, or this report may either mail to the HIV/AIDS Surveillance Program, 3627 Kilauea Avenue, Room 306. Honolulu, Hawaii 96816, phone at (808) 733-9010, fax at (808) 733-9015 or e-mail to [qsandy@lava.net](mailto:qsandy@lava.net)**