



**AIDS Reporting:** As of June 30, 2008, 3,066 AIDS cases were reported to the Hawaii HIV/AIDS Surveillance Program, Department of Health. A total of 93 cases were reported during the past one-year period (July 1, 2007 to June 30, 2008). Of these, 78 (84%) cases were male and 15 (16%) cases were female. These cases were reported from Honolulu County (64, 69%), Hawaii County (14, 15%), Maui County (13, 14%), and Kauai County (2, 3%). Among these 93 reported cases, 37 cases were diagnosed during this period: 32 (86%) males, 5 (14%) females. The majority of these cases were diagnosed in Honolulu County (29, 78%). This semi-annual report contains AIDS demographic data for reported cases by year (page 2), by county (page 3), and by race/ethnicity (page 4).

**HIV Reporting:** The Hawai'i State Department of Health (DOH) has issued new reporting requirements on March 13, 2008, for healthcare providers and laboratories to include the patient's name for all cases of HIV infection. This includes individuals who were diagnosed previously in Hawai'i or elsewhere and those who are newly diagnosed. The new requirements for named HIV reporting are part of recent changes to the Hawai'i State Administrative Rules, Chapter 156, Communicable Disease Reporting. The earlier code-based HIV reporting no longer exists.

## AIDS Diagnosis in Hawaii

Figure 1. Hawaii AIDS Cases for four time periods, 2000 - 2007

Figure 1 shows the number of Hawaii AIDS diagnoses (left bar) and reported cases (right bar) for four time periods from 2000 to 2007. AIDS cases are reported long after they are diagnosed. Due to reporting delay, the numbers of diagnosed and reported cases do not match for each time period. The number of AIDS diagnoses decreased from 234 in 2000-2001 period to 121 in 2006-2007 period. The increased number of reported cases in the periods from 2002-2003 to 2006-2007 is a result of active surveillance and many unreported cases were discovered during these periods. Some of these reported cases were diagnosed in 2000-2001 or earlier.

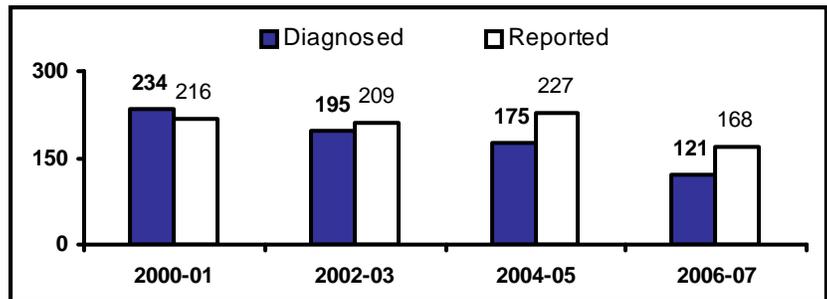


Table 1. Demographics of Hawaii AIDS Diagnosis, 2000 - 2007

Table 1 illustrates numbers of AIDS diagnoses for four time periods (from 2000-2001 to 2006-2007) by gender, risk, age, and county. From 1982 to 2007, there were 3,046 AIDS cases diagnosed in Hawaii. Males account for most of these cases (2,792, 91.7%). The proportion of female cases has increased to 15.7% in the recent period (2006-2007), compared to 13.3% in the 2000-2001 period. Men having sex with men (MSM) continues to be the primary risk for AIDS diagnosis in all four time periods. The proportion of MSM cases decreased from 64.3% in 2000-2001 to 54.5% in 2006-2007. The proportion of AIDS cases for Injection Drug Use (IDU) has increased to 18.2% in 2006-2007 from 8.7% in 2000-2001. Seventy-three percent (2,209/3,046) of Hawaii AIDS diagnosed were between 30 to 49 years of age. There were no pediatric AIDS cases for the recent two time periods (2004-2005, 2006-2007). The majority of AIDS diagnoses were in Honolulu County.

| Characteristics |             | 2000-01     | 2002-03     | 2004-05     | 2006-07     | 1982-2007     |
|-----------------|-------------|-------------|-------------|-------------|-------------|---------------|
|                 |             | N = 241 (%) | N = 201 (%) | N = 154 (%) | N = 121 (%) | N = 3,046 (%) |
| Gender          | Male        | 209 86.7    | 174 86.6    | 138 89.6    | 102 84.3    | 2,792 91.7    |
|                 | Female      | 32 13.3     | 27 13.4     | 16 10.4     | 19 15.7     | 254 8.3       |
| Risk            | MSM         | 155 64.3    | 120 59.7    | 94 61       | 66 54.5     | 2,205 72.4    |
|                 | IDU         | 21 8.7      | 15 7.5      | 8 5.2       | 22 18.2     | 233 7.6       |
|                 | MSM/IDU     | 12 5.0      | 14 7        | 12 7.8      | 6 5         | 216 7.1       |
|                 | Hetero      | 25 10.4     | 15 7.5      | 9 5.8       | 4 3.3       | 171 5.6       |
|                 | Other/Unkn. | 28 11.6     | 37 18.4     | 31 20.1     | 23 19       | 221 7.3       |
| Age             | <13         | 1 0.4       | 1 0.5       | 0 0         | 0 0         | 17 0.6        |
|                 | 13-19       | 1 0.4       | 1 0.5       | 2 1.3       | 1 0.8       | 12 0.4        |
|                 | 20-29       | 17 7.1      | 18 9        | 13 8.4      | 6 5         | 371 12.2      |
|                 | 30-39       | 88 36.5     | 67 33.3     | 43 27.9     | 33 27.3     | 1,254 41.2    |
|                 | 40-49       | 87 36.1     | 68 33.8     | 59 38.3     | 47 38.8     | 955 31.4      |
|                 | >49         | 47 19.5     | 46 22.9     | 37 24       | 34 28.1     | 437 14.3      |
| County          | Honolulu    | 161 66.8    | 154 76.6    | 108 70.1    | 93 76.9     | 2,212 72.6    |
|                 | Hawaii      | 30 12.4     | 18 9        | 21 13.6     | 12 9.9      | 392 12.9      |
|                 | Maui        | 38 15.8     | 21 10.4     | 19 12.3     | 12 9.9      | 311 10.2      |
|                 | Kauai       | 12 5.0      | 8 4         | 6 3.9       | 4 3.3       | 131 4.3       |

Please forward any questions and comments to the HIV/AIDS Surveillance Program, 3627 Kilauea Avenue, Suite 306, Honolulu, HI 96816, Phone: (808) 733-9010, Fax: (808) 733-9015. This report is available at this website:

[http://www.hawaii.gov/health/healthy-lifestyles/std-aids/aboutus/prg-aids/aids\\_rep/index.html](http://www.hawaii.gov/health/healthy-lifestyles/std-aids/aboutus/prg-aids/aids_rep/index.html)

# Hawaii AIDS Cases by Year, Reported through June 30, 2008

| Year of Report                           | 1983-2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | TOTAL |
|--|-----------|------|------|------|------|------|------|-------|
| Cases by Year of Report <sup>1</sup>     | 2,513     | 100  | 121  | 106  | 83   | 83   | 60   | 3,066 |
| Rate per 100,000 Population <sup>2</sup> | N/A       | 8.0  | 9.5  | 8.4  | 6.4  | 6.4  | N/A  | N/A   |

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

|                      |        |       |      |    |      |     |      |    |      |    |      |    |      |    |      |       |      |
|----------------------|--------|-------|------|----|------|-----|------|----|------|----|------|----|------|----|------|-------|------|
| <b>S<br/>E<br/>X</b> | Male   | 2,330 | (93) | 84 | (84) | 109 | (90) | 94 | (89) | 72 | (87) | 72 | (87) | 50 | (83) | 2,811 | (92) |
|                      | Female | 183   | (7)  | 16 | (16) | 12  | (10) | 12 | (11) | 11 | (13) | 11 | (13) | 10 | (17) | 255   | (8)  |

|                      |       |       |      |    |      |    |      |    |      |    |      |    |      |    |      |       |      |
|----------------------|-------|-------|------|----|------|----|------|----|------|----|------|----|------|----|------|-------|------|
| <b>A<br/>G<br/>E</b> | <13   | 16    | (1)  | 1  | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 17    | (1)  |
|                      | 13-19 | 8     | (<1) | 1  | (1)  | 0  | (0)  | 1  | (1)  | 2  | (2)  | 0  | (0)  | 0  | (0)  | 12    | (<1) |
|                      | 20-29 | 324   | (13) | 9  | (9)  | 13 | (11) | 8  | (8)  | 2  | (2)  | 9  | (11) | 8  | (13) | 373   | (12) |
|                      | 30-39 | 1,081 | (43) | 39 | (39) | 45 | (37) | 30 | (28) | 26 | (31) | 25 | (30) | 14 | (23) | 1,260 | (41) |
|                      | 40-49 | 770   | (31) | 30 | (30) | 37 | (31) | 41 | (39) | 30 | (36) | 28 | (34) | 25 | (42) | 961   | (31) |
|                      | >49   | 314   | (12) | 20 | (20) | 26 | (21) | 26 | (25) | 23 | (28) | 21 | (25) | 13 | (22) | 443   | (14) |

|   |                           |       |      |     |      |      |      |     |      |      |      |      |      |      |      |       |      |
|---|---------------------------|-------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|-------|------|
| <b>N<br/>E<br/>W<br/><br/>R<br/>A<br/>C<br/>E</b> | Non-Hispanic              |       |      |     |      |      |      |     |      |      |      |      |      |      |      |       |      |
|   | Caucasians                | 1,539 | (61) | 42  | (42) | 59   | (49) | 64  | (60) | 40   | (48) | 42   | (51) | 29   | (48) | 1,815 | (59) |
|   | Asians                    | 374   | (15) | 22  | (22) | 23   | (19) | 13  | (12) | 20   | (24) | 11   | (13) | 17   | (28) | 480   | (16) |
|   | Hawaiians/PI              | 329   | (13) | 15  | (15) | 11   | (9)  | 12  | (11) | 8    | (10) | 7    | (8)  | 5    | (8)  | 387   | (13) |
|   | African-Americans         | 108   | (4)  | 8   | (8)  | 8    | (7)  | 3   | (3)  | 3    | (4)  | 4    | (5)  | 0    | (0)  | 134   | (4)  |
|   | American Indians/Alaskans | 8     | (<1) | 0   | (0)  | 2    | (2)  | 0   | (0)  | 0    | (0)  | 1    | (1)  | 0    | (0)  | 11    | (<1) |
|   | Multiple Race             | 16    | (1)  | 7   | (7)  | 3    | (2)  | 5   | (5)  | 3    | (4)  | 5    | (6)  | 3    | (5)  | 42    | (1)  |
|   | Other                     | 0     | (0)  | 0   | (0)  | 1    | (1)  | 1   | (1)  | 0    | (0)  | 0    | (0)  | 0    | (0)  | 2     | (<1) |
| Hispanics   | 139                       | (6)   | 6    | (6) | 14   | (12) | 8    | (8) | 9    | (11) | 13   | (16) | 6    | (10) | 195  | (6)   |      |

|                            |                          |       |      |    |      |    |      |    |      |    |      |    |      |    |      |       |      |
|----------------------------|--------------------------|-------|------|----|------|----|------|----|------|----|------|----|------|----|------|-------|------|
| <b>R<br/>I<br/>S<br/>K</b> | Male to Male Sex (MSM)   | 1,880 | (75) | 61 | (61) | 74 | (61) | 68 | (64) | 54 | (65) | 49 | (59) | 35 | (58) | 2,221 | (72) |
|                            | Injection Drug Use (IDU) | 183   | (7)  | 4  | (4)  | 11 | (9)  | 6  | (6)  | 11 | (13) | 12 | (14) | 7  | (12) | 234   | (8)  |
|                            | MSM & IDU                | 181   | (7)  | 5  | (5)  | 12 | (10) | 9  | (8)  | 2  | (2)  | 4  | (5)  | 4  | (7)  | 217   | (7)  |
|                            | Female Heterosexual      | 91    | (4)  | 11 | (11) | 5  | (4)  | 3  | (3)  | 1  | (1)  | 3  | (4)  | 3  | (5)  | 117   | (4)  |
|                            | Male Heterosexual        | 46    | (2)  | 2  | (2)  | 4  | (3)  | 0  | (0)  | 2  | (2)  | 1  | (1)  | 0  | (0)  | 55    | (2)  |
|                            | Transfusion              | 26    | (1)  | 3  | (3)  | 1  | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 30    | (1)  |
|                            | Perinatal                | 13    | (1)  | 1  | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 14    | (<1) |
|                            | Hemophiliac              | 20    | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 20    | (1)  |
|                            | Undetermined             | 73    | (3)  | 13 | (13) | 14 | (12) | 20 | (19) | 13 | (16) | 14 | (17) | 11 | (18) | 158   | (5)  |

<sup>1</sup> The number of reported AIDS cases may change for each year for the on-going national de-duplication project.

<sup>2</sup> Each year's estimated population from the State of Hawaii Data Book 2006, <http://hawaii.gov/dbedt/info/economic/databook/db2006/>

# County Report

## Cumulative AIDS Cases (1983 – July 30, 2008)

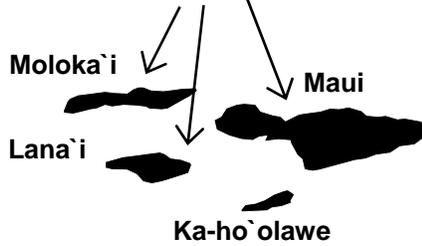
**Kaua'i County**  
131 Cases (4%)



**Honolulu County**  
2,226 Cases (73%)



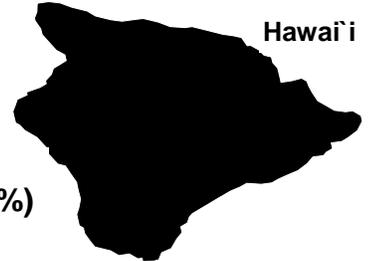
**Maui County**  
315 Cases (10%)



**Five-Year Average Reporting Rate**  
per 100,000 population\* by county,  
reported from 7/2003 to 6/2008

|              |     |
|--------------|-----|
| Honolulu Co. | 7.4 |
| Hawai'i Co.  | 6.5 |
| Maui Co.     | 6.6 |
| Kauai Co.    | 9.5 |
| Statewide    | 7.3 |

**Hawai'i County**  
394 Cases (13%)



This map indicates the number of diagnosed AIDS cases reported to the Department of Health through June 30, 2008. 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.

\*Estimated population 2006, from the State of Hawaii Data Book

|   |       |              |             |
|---|-------|--------------|-------------|
| Cumulative Hawai'i AIDS cases reported from 1983 to June 30, 2008 | 3,066 | Known Deaths | 1,759 (58%) |
|---|-------|--------------|-------------|

### AIDS Cases by County: Five-year (July 1, 2003 - June 30, 2008) and Cumulative Total (1983 – June 30, 2008)

| County |        | Honolulu Co. |      | Hawai'i Co. |      | Maui Co. |      | Kaua'i Co. |      | Statewide |      |     |      |    |      |     |      |     |      |       |      |
|--------|--------|--------------|------|-------------|------|----------|------|------------|------|-----------|------|-----|------|----|------|-----|------|-----|------|-------|------|
|        |        | No.          | (%)  | No.         | (%)  | No.      | (%)  | No.        | (%)  | No.       | (%)  | No. | (%)  |    |      |     |      |     |      |       |      |
| SEX    | Male   | 293          | (87) | 2,047       | (92) | 48       | (86) | 350        | (89) | 42        | (89) | 294 | (93) | 27 | (90) | 120 | (92) | 410 | (88) | 2,811 | (92) |
|        | Female | 42           | (13) | 179         | (8)  | 8        | (14) | 44         | (11) | 5         | (11) | 21  | (7)  | 3  | (10) | 10  | (8)  | 58  | (12) | 255   | (8)  |

| RISK | Male to Male Sex     | 204 | (61)  | 1,622 | (73)  | 27 | (48)  | 258 | (65)  | 34 | (72)  | 243 | (77)  | 21 | (70)  | 98  | (75)  | 286 | (61)  | 2,221 | (72)  |    |     |
|------|----------------------|-----|-------|-------|-------|----|-------|-----|-------|----|-------|-----|-------|----|-------|-----|-------|-----|-------|-------|-------|----|-----|
|      | Injection Drug Use   | 36  | (11)  | 167   | (8)   | 4  | (7)   | 41  | (10)  | 1  | (2)   | 16  | (5)   | 2  | (7)   | 10  | (8)   | 43  | (9)   | 234   | (8)   |    |     |
|      | Male/Male Sex & IDU  | 22  | (7)   | 155   | (7)   | 5  | (9)   | 32  | (8)   | 1  | (2)   | 26  | (8)   | 0  | (0)   | 4   | (3)   | 28  | (6)   | 217   | (7)   |    |     |
|      | Heterosexual Contact | 25  | (7)   | 120   | (5)   | 1  | (2)   | 28  | (7)   | 1  | (2)   | 14  | (4)   | 2  | (7)   | 10  | (8)   | 29  | (6)   | 172   | (6)   |    |     |
|      | Transfusion          | 3   | (1)   | 23    | (1)   | 0  | (0)   | 3   | (1)   | 1  | (2)   | 2   | (1)   | 0  | (0)   | 2   | (2)   | 4   | (1)   | 30    | (1)   |    |     |
|      | Perinatal            | 1   | (<1)  | 13    | (1)   | 0  | (0)   | 3   | (1)   | 0  | (0)   | 0   | (0)   | 0  | (0)   | 0   | (0)   | 0   | (0)   | 1     | (<1)  | 16 | (1) |
|      | Hemophiliac          | 0   | (0)   | 15    | (1)   | 0  | (0)   | 3   | (1)   | 0  | (0)   | 2   | (1)   | 0  | (0)   | 0   | (0)   | 0   | (0)   | 20    | (1)   |    |     |
|      | Undetermined         | 44  | (13)  | 111   | (5)   | 19 | (34)  | 26  | (7)   | 9  | (19)  | 12  | (4)   | 5  | (17)  | 7   | (5)   | 77  | (16)  | 156   | (5)   |    |     |
|      | Total Cases          | 335 | (100) | 2,226 | (100) | 56 | (100) | 394 | (100) | 47 | (100) | 315 | (100) | 30 | (100) | 131 | (100) | 468 | (100) | 3,066 | (100) |    |     |

|                                 |              |              |              |            |                 |
|---------------------------------|--------------|--------------|--------------|------------|-----------------|
| July 2003—June 2008 N (%)       | 335 (66)     | 56 (14)      | 43 (13)      | 30 (7)     | 468 (100)       |
| Cumulative cases N (%)          | 2,226 (73)   | 394 (13)     | 315 (10)     | 131 (4)    | 3,066 (100)     |
| Estimated Population 2006 N (%) | 909,863 (72) | 171,191 (12) | 141,440 (11) | 63,004 (5) | 1,285,498 (100) |

# AIDS Cases by Race/Ethnicity

## Five - Year Reported Cases (July 1, 2003 - June 30, 2008)

| Race/Ethnicity       | Caucasian |      | African American |     | Hispanic |      | Hawaiian/<br>Pt. Haw. |      | Filipino |     | Chinese |     | Japanese |     | Other A/PI |     | Multiple Race* |     | Total Cases** |       |
|----------------------|-----------|------|------------------|-----|----------|------|-----------------------|------|----------|-----|---------|-----|----------|-----|------------|-----|----------------|-----|---------------|-------|
|                      | No.       | (%)  | No.              | (%) | No.      | (%)  | No.                   | (%)  | No.      | (%) | No.     | (%) | No.      | (%) | No.        | (%) | No.            | (%) | No.           | (%)   |
| 5 Year Cases (%)     | 250       | (53) | 25               | (5) | 55       | (12) | 42                    | (9)  | 28       | (6) | 16      | (3) | 34       | (7) | 15         | (3) | 23             | (5) | 468           | (100) |
| Cumulative Cases (%) | 1,815     | (59) | 134              | (4) | 195      | (6)  | 335                   | (11) | 183      | (6) | 81      | (3) | 163      | (5) | 107        | (3) | 42             | (1) | 3,066         | (100) |

| SEX    | Male |      | Female |      | Total |       |
|--------|------|------|--------|------|-------|-------|
|        | No.  | (%)  | No.    | (%)  | No.   | (%)   |
| Male   | 226  | (90) | 21     | (84) | 51    | (93)  |
| Female | 24   | (10) | 4      | (16) | 4     | (7)   |
|        | 11   | (26) | 3      | (11) | 2     | (13)  |
|        | 31   | (91) | 7      | (47) | 18    | (78)  |
|        | 410  | (88) | 58     | (12) | 468   | (100) |

| RISK   | Male to Male Sex (MSM) |       | Injection Drug Use |       | Male/Male Sex & IDU |       | Female Heterosexual |       | Male Heterosexual |       | Transfusion |       | Perinatal |       | Hemophiliac |       | Undetermined |       | 5-Year Total cases |       | 5-year average reporting rate per 100,000 <sup>1</sup> |     |
|--|------------------------|-------|--------------------|-------|---------------------|-------|---------------------|-------|-------------------|-------|-------------|-------|-----------|-------|-------------|-------|--------------|-------|--------------------|-------|--|-----|
|  | No.                    | (%)   | No.                | (%)   | No.                 | (%)   | No.                 | (%)   | No.               | (%)   | No.         | (%)   | No.       | (%)   | No.         | (%)   | No.          | (%)   | No.                | (%)   | No.  | (%) |
| Male to Male Sex (MSM)                                 | 176                    | (70)  | 13                 | (52)  | 32                  | (58)  | 19                  | (45)  | 12                | (43)  | 10          | (63)  | 19        | (56)  | 6           | (40)  | 14           | (61)  | 289                | (62)  |  |     |
| Injection Drug Use                                     | 23                     | (9)   | 3                  | (12)  | 5                   | (9)   | 7                   | (17)  | 2                 | (7)   | 3           | (19)  | 1         | (3)   | 3           | (20)  | 2            | (9)   | 47                 | (10)  |  |     |
| Male/Male Sex & IDU                                    | 13                     | (5)   | 3                  | (12)  | 5                   | (9)   | 4                   | (10)  | 4                 | (14)  | 0           | (0)   | 4         | (12)  | 0           | (0)   | 0            | (0)   | 33                 | (7)   |  |     |
| Female Heterosexual                                    | 5                      | (2)   | 3                  | (12)  | 0                   | (0)   | 2                   | (5)   | 2                 | (7)   | 0           | (0)   | 1         | (3)   | 2           | (13)  | 2            | (9)   | 15                 | (3)   |  |     |
| Male Heterosexual                                      | 4                      | (2)   | 0                  | (0)   | 0                   | (0)   | 2                   | (5)   | 1                 | (4)   | 0           | (0)   | 1         | (3)   | 0           | (0)   | 0            | (0)   | 9                  | (2)   |  |     |
| Transfusion  | 1                      | (<1)  | 0                  | (0)   | 1                   | (2)   | 0                   | (0)   | 1                 | (4)   | 0           | (0)   | 1         | (3)   | 1           | (7)   | 0            | (0)   | 5                  | (1)   |  |     |
| Perinatal  | 0                      | (0)   | 0                  | (0)   | 0                   | (0)   | 0                   | (0)   | 0                 | (0)   | 0           | (0)   | 0         | (0)   | 1           | (7)   | 0            | (0)   | 1                  | (<1)  |  |     |
| Hemophiliac  | 0                      | (0)   | 0                  | (0)   | 0                   | (0)   | 0                   | (0)   | 0                 | (0)   | 0           | (0)   | 0         | (0)   | 0           | (0)   | 0            | (0)   | 0                  | (0)   |  |     |
| Undetermined   | 28                     | (11)  | 3                  | (12)  | 12                  | (22)  | 8                   | (19)  | 6                 | (21)  | 3           | (19)  | 7         | (21)  | 2           | (13)  | 5            | (22)  | 69                 | (15)  |  |     |
| 5-Year Total cases                                     | 250                    | (100) | 25                 | (100) | 55                  | (100) | 42                  | (100) | 28                | (100) | 16          | (100) | 34        | (100) | 15          | (100) | 23           | (100) | 468                | (100) |  |     |
| 5-year average reporting rate per 100,000 <sup>1</sup> | 10.5                   |       | 15.0               |       | 12.5                |       | 3.3                 |       | 3.3               |       | 4.7         |       | 2.7       |       | 4.9         |       | 1.8          |       | 8.1                |       |  |     |

\* Data collection of multiple race since 2003. \*\*Total five years cases 468 cases includes three male American Indian AIDS cases with risk of 2 MSM, 1 male heterosexual. The cumulative 3,066 cases includes 11 American Indians/Alaskan with risk of seven MSM, three MSM/IDU, and one heterosexual.

<sup>1</sup> 2000 U.S. Census figures from the <http://www.hawaii.gov/dbedt/info/economic/databook/db2005/section01.pdf>

**Reporting Requirements:** AIDS case reporting is required by Hawai'i Revised Statutes (HRS) §325-2 and Hawaii new Administrative Rules §11-156-3 for low CD4 values (<200 cells/ $\mu$ L and/or total lymphocytes <14%). 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 positive case reporting by name is required by Hawaii Administrative Rules, Chapter 156, Exhibit A for providers, implemented from March 13, 2008. Information is collected for the advancement of epidemiologic knowledge and handled in strictest confidentiality 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 AIDS and HIV reporting forms, reporting requirements, or this report may be directed to the HIV/AIDS Surveillance Program at (808) 733-9010 (Tel), (808) 733-9015 (fax) or pritty.borthakur@doh.hawaii.gov (e-mail).



## HIV/AIDS Reporting:

In December 2008, the CDC MMWR (December 5, 2008 / Vol. 57 / No. RR-10) released **Revised Surveillance Case Definitions for HIV Infection Among Adults, Adolescents, and Children Aged <18 Months and for HIV Infection and AIDS Among Children Aged 18 Months to <13 Years — United States, 2008**. The key changes to the case definitions include:

- HIV is now categorized into four stages as shown in Table 1 below. AIDS is now included in the case definitions for HIV infection and is classified as HIV infection, stage 3 for adults and adolescents (aged  $\geq 13$  years).
- HIV infection for adults, adolescents, and children aged 18 months to <13 years is now required to have laboratory-confirmed evidence.
- The HIV infection case definition for children aged <13 years and the AIDS case definition for children aged 18 months to <13 years have been revised.

The details of case definitions can be found at <http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5710a1.htm>

Table 1. The Surveillance Case Definition for HIV infection stages among adults and adolescents (aged  $\geq 13$  years)

|                | Lab confirmation of HIV infection | CD4+ T-lymphocyte count or %             | Clinical evidence  |
|----------------|-----------------------------------|--|--|
| Stage 1        | Yes                               | $\geq 500$ cells/ $\mu$ L or $\geq 29\%$ | None required (but no AIDS-defining condition)             |
| Stage 2        | Yes                               | 200-499 cells/ $\mu$ L or 14-28%         | None required (but no AIDS-defining condition)             |
| Stage 3 (AIDS) | Yes                               | <200 cells/ $\mu$ L or <14%              | or AIDS-defining condition (with lab confirmation of HIV+) |
| Stage unknown  | Yes                               | no information                           | and no information on presence of AIDS-defining conditions |

Although AIDS is now combined into the HIV case definition, there is no change for providers or laboratories in reporting using the current confidential HIV/AIDS case report form. All stages of HIV infection are reportable by name in Hawai'i. There are three ranges of CD4+ T-lymphocyte counts and percentages in the new HIV case definitions, categorized in stages 1 through 3. A previous stage 3 HIV case (AIDS) cannot be reclassified into a less severe stage regardless of CD4 values. A case with no CD4+ T-lymphocyte count or percentage and no information on AIDS-defining conditions is classified as stage unknown. It is recommended that every effort be made to report CD4+ T-lymphocyte counts and/or percentages and any AIDS-defining conditions at the time of report submission.

As of December 31, 2008, using the new CDC HIV case definitions, a cumulative total of 3,701 HIV cases diagnosed in Hawai'i have been reported. These include 630 HIV

Table 2. HIV infection in Hawaii, Cases through December 31, 2008

|                                  | Total   | Alive        | Death        |
|----------------------------------|---------|--------------|--------------|
|                                  | N=3,701 | N=1,897      | N=1,804      |
| Stages 1, 2 & Unknown (non-AIDS) | 630     | 606 (96.2)   | 24 (3.8)     |
| Stage 3 (AIDS)                   | 3,071   | 1,291 (42.0) | 1,780 (58.0) |

stages 1, 2 and unknown (non-AIDS) cases and 3,071 HIV stage 3 (AIDS). Of the total HIV cases 1,804 are known

dead, 1,780 with AIDS and 24 non-AIDS (Table 2). Further information on HIV infection, stage 3 (AIDS cases) by year, county and race/ethnicity is detailed on pages 2-4.

Since March 13, 2008, Hawai'i has required name-based reporting for HIV infection (non-AIDS) cases, in addition to AIDS reporting. As of December 31, 2008, a cumulative total of 701 HIV (non-AIDS) cases were received. Of these cases, 630 were diagnosed in Hawai'i. Although these 630 cases were reported in 2008, many of them had been diagnosed in previous years. As the data on HIV (non-AIDS) reporting becomes more complete, detailed information and analysis will be published in future reports.

## HIV Infection, Stage 3 (AIDS) Cases Reported through December 31, 2008, Hawai'i

| Year of Report                           | 1983-2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | TOTAL |
|--|-----------|------|------|------|------|------|------|-------|
| Cases by Year of Report <sup>a</sup>     | 2,502     | 99   | 122  | 103  | 80   | 78   | 87   | 3,071 |
| Rate per 100,000 Population <sup>b</sup> | N/A       | 8.0  | 9.7  | 8.1  | 6.3  | 6.5  | 6.8  | N/A   |

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

| SEX | Male   | 2,321 | (93) | 83 | (84) | 110 | (90) | 91 | (88) | 69 | (86) | 68 | (87) | 72 | (83) | 2,814 | (92) |
|-----|--------|-------|------|----|------|-----|------|----|------|----|------|----|------|----|------|-------|------|
|     | Female | 181   | (7)  | 16 | (16) | 12  | (10) | 12 | (12) | 11 | (14) | 10 | (13) | 15 | (17) | 257   | (8)  |

| AGE | <13   | 16    | (1)  | 1  | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 17    | (1)  |
|-----|-------|-------|------|----|------|----|------|----|------|----|------|----|------|----|------|-------|------|
|     | 13-19 | 8     | (<1) | 1  | (1)  | 0  | (0)  | 1  | (1)  | 2  | (3)  | 0  | (0)  | 0  | (0)  | 12    | (<1) |
|     | 20-29 | 321   | (13) | 9  | (9)  | 13 | (11) | 8  | (8)  | 2  | (3)  | 9  | (12) | 12 | (14) | 374   | (12) |
|     | 30-39 | 1,075 | (43) | 38 | (38) | 45 | (37) | 28 | (27) | 25 | (31) | 23 | (29) | 21 | (24) | 1,255 | (41) |
|     | 40-49 | 769   | (31) | 30 | (30) | 37 | (30) | 41 | (40) | 28 | (35) | 25 | (32) | 35 | (40) | 965   | (31) |
|     | >49   | 313   | (13) | 20 | (20) | 27 | (22) | 25 | (24) | 23 | (29) | 21 | (27) | 19 | (22) | 448   | (15) |

| RACE     | Non-Hispanic              |       |      |     |      |      |      |     |      |      |      |      |      |      |      |       |      |
|----------|---------------------------|-------|------|-----|------|------|------|-----|------|------|------|------|------|------|------|-------|------|
|          | Caucasian                 | 1,532 | (61) | 41  | (41) | 60   | (49) | 63  | (61) | 39   | (49) | 37   | (47) | 45   | (52) | 1,817 | (59) |
|          | Asian                     | 362   | (14) | 20  | (20) | 23   | (19) | 13  | (13) | 18   | (23) | 10   | (13) | 19   | (22) | 465   | (15) |
|          | Hawaiian/Pacific Islander | 327   | (13) | 15  | (15) | 11   | (9)  | 10  | (10) | 8    | (10) | 7    | (9)  | 6    | (7)  | 384   | (13) |
|          | Asian/Pacific Islander*   | 697   | (28) | 35  | (35) | 34   | (28) | 23  | (22) | 26   | (33) | 17   | (22) | 25   | (29) | 857   | (28) |
|          | African-American          | 108   | (4)  | 8   | (8)  | 8    | (7)  | 3   | (3)  | 3    | (4)  | 4    | (5)  | 1    | (1)  | 135   | (4)  |
|          | American Indian/Alaskan   | 8     | (<1) | 0   | (0)  | 2    | (2)  | 0   | (0)  | 0    | (0)  | 1    | (1)  | 0    | 0    | 11    | (<1) |
|          | Multiple Race & Unknown   | 19    | (1)  | 9   | (9)  | 4    | (3)  | 6   | (6)  | 4    | (5)  | 6    | (8)  | 5    | (6)  | 53    | (2)  |
| Hispanic | 138                       | (6)   | 6    | (6) | 14   | (11) | 8    | (8) | 8    | (10) | 13   | (17) | 11   | (13) | 198  | (6)   |      |

\*Beginning in 2003, the new race/ethnicity of 1997 OMB standard (CDC's guidelines) has been implemented in Hawaii, which results in the race/ethnicity information to be compiled in this report under two systems. There were 8 legacy Asian/Pacific Islander cases reported in the 1983- 2001 period. These cases cannot be categorized into either Asian or Hawaiian/Pacific Islander and have been included in the total of Asian/Pacific Islander.

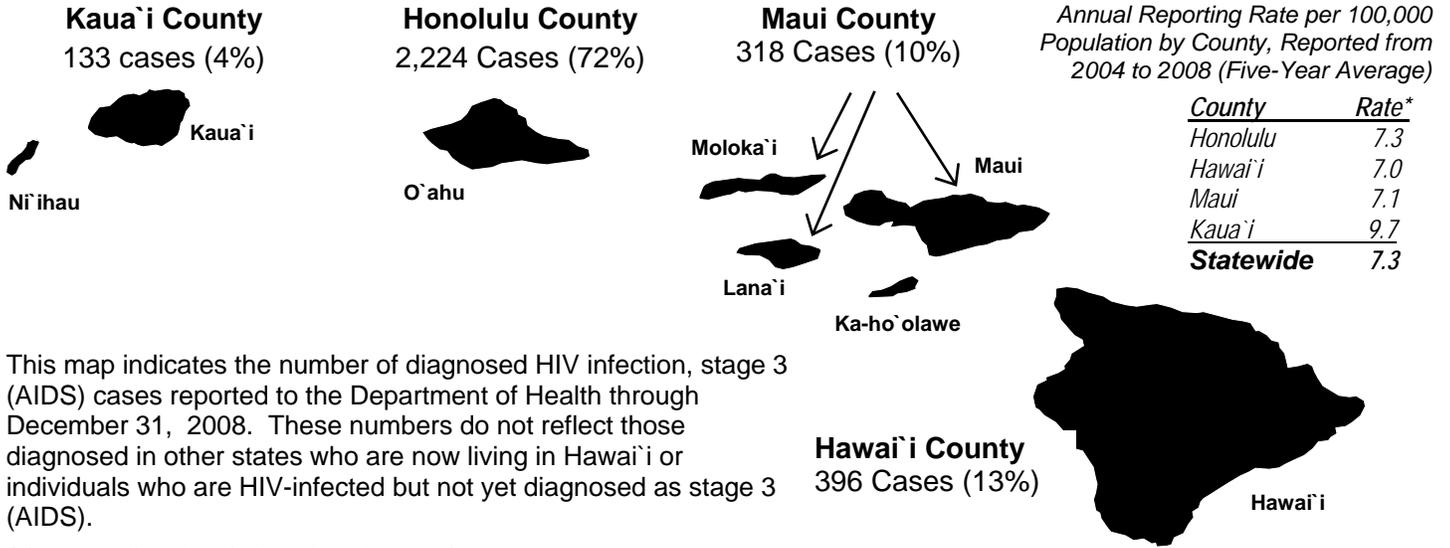
| RISK | Male to Male Sex    | 1,874 | (75) | 60 | (61) | 75 | (61) | 66 | (64) | 51 | (64) | 47 | (60) | 52 | (60) | 2,225 | (72) |
|------|---------------------|-------|------|----|------|----|------|----|------|----|------|----|------|----|------|-------|------|
|      | Injection Drug Use  | 184   | (7)  | 4  | (4)  | 11 | (9)  | 6  | (6)  | 11 | (14) | 10 | (13) | 10 | (11) | 236   | (8)  |
|      | Male/Male Sex & IDU | 179   | (7)  | 5  | (5)  | 12 | (10) | 9  | (9)  | 2  | (3)  | 4  | (5)  | 7  | (8)  | 218   | (7)  |
|      | Heterosexual        | 136   | (5)  | 13 | (13) | 9  | (7)  | 3  | (3)  | 3  | (4)  | 4  | (5)  | 3  | (3)  | 171   | (6)  |
|      | Transfusion         | 26    | (1)  | 3  | (3)  | 1  | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 30    | (1)  |
|      | Perinatal           | 13    | (1)  | 1  | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 14    | (0)  |
|      | Hemophilic          | 20    | (1)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 0  | (0)  | 20    | (1)  |
|      | Undetermined        | 70    | (3)  | 13 | (13) | 14 | (11) | 19 | (18) | 13 | (16) | 13 | (17) | 15 | (17) | 157   | (5)  |

<sup>a</sup>. Due to the de-duplication among the 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/economic/databook/db2007/>. Table 1.06 Resident Population, by County.

# County Report

## Cumulative HIV Infection, Stage 3 (AIDS) Cases (1983 – December 31, 2008)



Cumulative Hawai'i HIV Infection, Stage 3 (AIDS) cases reported 1983 to December 31, 2008: 3,071 Known Deaths: 1,780 (58%)

### HIV Infection, Stage 3 (AIDS) Cases by County: Five-year (2004 - 2008) and Cumulative Total (1983 – December 31, 2008)

| 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         | 287 (87)   | 2,045 (92)  | 51 (86)    | 351 (89) | 45 (90)    | 297 (93)  | 27 (90)    | 121 (91)  | 410 (87)   | 2,814 (92) |
|        | Female       | 44 (13)    | 179 (8)     | 8 (14)     | 45 (11)  | 5 (10)     | 21 (7)    | 3 (10)     | 12 (9)    | 60 (13)    | 257 (8)    |

| RISK | Male to Male Sex     | 200 (61)   | 1,622 (73)   | 32 (54)   | 261 (66)   | 38 (76)   | 245 (77)   | 21 (70)   | 98 (74)    | 291 (62)   | 2,226 (72)   |
|------|----------------------|------------|--------------|-----------|------------|-----------|------------|-----------|------------|------------|--------------|
|      | Injection Drug Use   | 41 (12)    | 169 (8)      | 4 (7)     | 42 (11)    | 1 (2)     | 16 (5)     | 2 (7)     | 10 (8)     | 48 (10)    | 237 (8)      |
|      | Male/Male Sex & IDU  | 28 (8)     | 154 (7)      | 4 (7)     | 32 (8)     | 2 (4)     | 27 (8)     | 0 (0)     | 5 (4)      | 34 (7)     | 218 (7)      |
|      | Heterosexual Contact | 19 (6)     | 124 (6)      | 1 (2)     | 27 (7)     | 1 (2)     | 14 (4)     | 1 (3)     | 10 (8)     | 22 (5)     | 175 (6)      |
|      | Transfusion          | 0 (0)      | 18 (1)       | 0 (0)     | 2 (1)      | 1 (2)     | 2 (1)      | 0 (0)     | 2 (2)      | 1 (0)      | 24 (1)       |
|      | Perinatal            | 0 (0)      | 12 (1)       | 0 (0)     | 2 (1)      | 0 (0)     | 0 (0)      | 0 (0)     | 0 (0)      | 0 (0)      | 14 (<1)      |
|      | Hemophiliac          | 0 (0)      | 15 (1)       | 0 (0)     | 3 (1)      | 0 (0)     | 2 (1)      | 0 (0)     | 0 (0)      | 0 (0)      | 20 (1)       |
|      | Undetermined         | 43 (13)    | 110 (5)      | 18 (31)   | 27 (7)     | 7 (14)    | 12 (4)     | 6 (20)    | 8 (6)      | 74 (16)    | 157 (5)      |
|      | <b>Total Cases</b>   | <b>331</b> | <b>2,224</b> | <b>59</b> | <b>396</b> | <b>50</b> | <b>318</b> | <b>30</b> | <b>133</b> | <b>470</b> | <b>3,071</b> |

|                               |            |          |          |         |                 |
|-------------------------------|------------|----------|----------|---------|-----------------|
| 01/2004– 12/2008 Cases (%)    | 331 (70)   | 59 (13)  | 50 (11)  | 30 (6)  | 470 (100)       |
| Cumulative Cases (%)          | 2,224 (72) | 396 (13) | 318 (10) | 133 (4) | 3,071 (100)     |
| 2006 Estimated Population (%) | (71)       | (13)     | (11)     | (5)     | 1,278,635 (100) |

## HIV Infection, Stage 3 (AIDS) Cases by Race/Ethnicity Reported from 2004 to 2008 (Five - Year)

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

|     |        |          |         |         |         |         |         |         |         |         |          |
|-----|--------|----------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| SEX | Male   | 218 (89) | 16 (84) | 50 (93) | 24 (71) | 20 (87) | 13 (87) | 29 (91) | 17 (81) | 21 (84) | 410 (87) |
|     | Female | 26 (11)  | 3 (16)  | 4 (7)   | 10 (29) | 3 (13)  | 2 (13)  | 3 (9)   | 4 (19)  | 4 (16)  | 60 (13)  |

|                     |                      |            |           |           |           |           |           |           |           |           |            |
|---------------------|----------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| RISK                | Male to Male Sex     | 169 (70)   | 10 (53)   | 33 (61)   | 12 (35)   | 9 (39)    | 9 (60)    | 19 (59)   | 13 (62)   | 14 (56)   | 291 (62)   |
|                     | Injection Drug Use   | 24 (10)    | 3 (16)    | 4 (7)     | 6 (18)    | 2 (9)     | 3 (20)    | 1 (3)     | 2 (10)    | 3 (12)    | 48 (10)    |
|                     | Male/Male Sex & IDU  | 15 (6)     | 3 (16)    | 4 (7)     | 4 (12)    | 4 (17)    | 0 (0)     | 4 (13)    | 0 (0)     | 0 (0)     | 34 (7)     |
|                     | Heterosexual Contact | 7 (3)      | 2 (11)    | 0 (0)     | 3 (9)     | 3 (13)    | 0 (0)     | 2 (6)     | 2 (10)    | 2 (8)     | 22 (5)     |
|                     | Transfusion          | 1 (0)      | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 1 (<1)     |
|                     | Perinatal            | 0 (0)      | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)      |
|                     | Hemophiliac          | 0 (0)      | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)     | 0 (0)      |
|                     | Undetermined         | 28 (12)    | 1 (5)     | 13 (24)   | 9 (26)    | 5 (22)    | 3 (20)    | 6 (19)    | 4 (19)    | 6 (24)    | 74 (16)    |
| <b>5-Year Cases</b> |                      | <b>244</b> | <b>19</b> | <b>54</b> | <b>34</b> | <b>23</b> | <b>15</b> | <b>32</b> | <b>21</b> | <b>25</b> | <b>470</b> |

|   |            |         |         |          |         |        |         |         |        |             |
|---|------------|---------|---------|----------|---------|--------|---------|---------|--------|-------------|
| Cumulative Cases (%)                                | 1,817 (59) | 135 (4) | 198 (6) | 328 (11) | 177 (6) | 80 (3) | 163 (5) | 109 (4) | 53 (2) | 3,071 (100) |
| 5 Year Cases (%)                                    | 244 (52)   | 19 (4)  | 54 (11) | 34 (7)   | 23 (5)  | 15 (3) | 32 (7)  | 21 (4)  | 25 (5) | 470 (100)   |
| 5-Year Average Annual Rate per 100,000 <sup>c</sup> | 16.6       | 17.3    | 12.3    | 8.5      | 2.7     | 5.3    | 3.2     | 6.0     | 1.9    | 7.8         |

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

<sup>b</sup> Totals include American Indians with 3 cases in previous 5-year period; 11 cases as of December, 31 2008.

<sup>c</sup> 2000 population, U.S. Census, from <http://www.hawaii.gov/dbedt/info/economic/databook/db2007/> Table 1.38 Ranking of Races.

**Reporting Requirement:** HIV infection, stage 3 (AIDS) case reporting is required by Hawai'i Revised Statutes (HRS) §325-2. Reporting of HIV infection, stages 1, 2 and stage unknown and laboratory test results of CD4+ T-lymphocyte count or percentage are required by Hawaii Administrative Rules §11-156-3, Exhibit A and Exhibit B. Reporting by name is required. Information is collected for public health purposes and is 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.

If you need more information, please visit the Hawaii HIV/AIDS Surveillance Program website:  
<http://www.hawaii.gov/health/healthy-lifestyles/std-aids/aboutus/prq-aids/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) 733-9010, by fax: (808) 733-9015 or by e-mail: [sandy.qiu@doh.hawaii.gov](mailto:sandy.qiu@doh.hawaii.gov).