

## **National Centre in HIV Epidemiology and Clinical Research**

# **Australian HIV Surveillance Report**

Vol 19 No 1 January 2003

## **Underreporting of AIDS in Australia, 1988 – 1997**

National AIDS surveillance in Australia provides information on the pattern of advanced HIV infection and the impact of antiretroviral treatment on AIDS incidence. AIDS surveillance data also provides information for health care planning and resource allocation. The value of AIDS surveillance data in describing the pattern of advanced HIV infection and in health care planning depends on the extent to which notification of AIDS diagnoses is complete.

In Australia, information on AIDS cases and deaths following AIDS is obtained primarily through notification by the diagnosing doctor to the State/Territory health authority, who forward notifications to the National Centre in HIV Epidemiology and Clinical Research (NCHECR) for inclusion on the National AIDS Registry. Surveillance systems based on passive notification of diagnosed cases are widely recognised as providing a potentially incomplete indication of the number of cases. Incomplete notification of AIDS diagnoses has been described in Australia and in New South Wales in the early 1990s (Donovan 1991, McAnulty *et al* 1992). We have assessed the completeness of AIDS notification in Australia by linking AIDS cases notified to the National AIDS Registry to deaths following an illness associated with AIDS, registered with the National Death Index, held at the Australian Institute of Health and Welfare.

Information on family name code, given name code, sex and date of birth of AIDS cases notified to the National AIDS Registry, and date of death for cases notified as having died, was used to match to deaths following an illness associated with AIDS registered with the National Death Index. AIDS cases were matched to AIDS associated deaths using a probabilistic record linkage package (Automatch). Approval for the linkage was obtained through the University of New South Wales and the Australian Institute of Health and Welfare.

Matched pairs and non-matched AIDS cases and deaths were reviewed manually at the NCHECR to verify the match. The match on name code, sex, date of birth and date of death was reviewed for each matched pair. Duplicate matched pairs were removed from the file to obtain a list of unique matched pairs.

Matched pairs were accepted as deaths following AIDS if

- (1) the identifiers (family name code, given name code (including cases with a reversed order of family name code and given name code), sex, date of birth) and the date of death matched exactly, or
- (2) the name code matched exactly or closely (two letters, at most, were different in the matched pair), the date of birth matched exactly and the date of death registered with the National Death Index was close to the date of death notified to the National AIDS Registry (within 30 days of the date of death notified to the National AIDS Registry, or the day and month differed (for example, the day and month of death had been reversed) but the year of death was the same), or

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## **Announcements**

## National meetings

The **20th NRL Workshop on Serology** will be held at the Surfers Paradise Marriott Resort, Surfers Paradise, Queensland, on 13 – 15 August 2003. Further information may be obtained from Debra Irvine, National Serology Reference Laboratory, Australia,

4th Floor, Healy Building, 41 Victoria Parade, Fitzroy, Victoria.

Telephone: 61 3 9418 1117
Facsimile: 61 3 9418 1155
E-mail: debra@nrl.gov.au

The **Australasian Society for HIV Medicine Conference 2003 Global Crisis: Local Action** will be held in Cairns, Queensland, on 22 – 25 October 2003. Further information may be obtained from The Australasian Society for HIV Medicine,

Locked Mail Bag 5057, Darlinghurst NSW 1300 Australia.

Telephone: 61 2 9368 2700 Facsimile: 61 2 9380 9528 E-mail: ashm@ashm.org.au Website: www.ashm.org.au

**The Eleventh National Symposium on hepatitis B and C** will be held at St Vincent's Hospital, Melbourne, VIC, on Saturday 22 November 2003. Further information may be obtained from Ms Eleanor Belot, Meeting Administrator.

Telephone: 03 9288 3580 Facsimile: 03 9288 3590 E-mail: belote@svhm.org.au

## International meeting

The **11th International Symposium on Viral Hepatitis and Liver Disease** will be held in Sydney, New South Wales, on 6 – 10 April 2003. Further information may be obtained from ISVHLD 2003, Tour Hosts Pty Limited

GPO Box 128 Sydney NSW 2001 Australia.

Telephone: (61) 2 9248 0800 Facsimile: (61) 2 9248 0894 F-mail: isyhld@tourhosts.com.au

- (3) the identifiers matched exactly and the year of death notified to the National AIDS Registry was the same as or within one year of the estimated year of death registered with the National Death Index. or
- (4) the name code, sex and date of death matched exactly, and the year of birth notified to the National AIDS Registry was the same as or within one year of the estimated year of birth of the AIDS associated death registered with the National Death Index.

Matched pairs for which the death had been registered with the National Death Index only were accepted as deaths following AIDS if the identifiers matched exactly and the date of death was later than the date of last contact recorded on the National AIDS Registry. In these cases, the death following AIDS was entered onto the National AIDS Registry.

Deaths were categorised as National Death Index deaths only when a match to cases notified to the National AIDS Registry could not be verified. Deaths were categorised as National AIDS Registry deaths only when the death was notified to the National AIDS Registry and a matching death could not be found on the National Death Index. AIDS cases were considered to be living with AIDS when a death had not been notified to the National AIDS Registry and a match to a National Death Index death was not verified.

By the end of 1997, 5,247 deaths following an illness associated with AIDS had been registered with the National Death Index. These AIDS associated deaths were matched to 7,005 AIDS cases, including 5,140 deaths following AIDS, occurring from 1 January 1988 to 31 December 1997 and notified to the National AIDS Registry by 31 August 1998. The matching process resulted in 4,712 matched pairs. A total of 499 AIDS associated deaths were not matched to deaths following AIDS.

Table 1.1 Number of deaths attributed to AIDS, registered with the National Death Index, which were matched to AIDS cases and deaths following AIDS notified to the National AIDS Registry, cumulative to 31 December 1997

| State/    |            | Delayed      | Matched<br>AIDS Case; | National    | National<br>AIDS |             |       |       |
|-----------|------------|--------------|-----------------------|-------------|------------------|-------------|-------|-------|
| Territory | Matched    | notification |                       | Death Index | Registry         | Living with | Total | 0/    |
| of death  | AIDS death | of death     | notified              | death only  | death only       | AIDS        | Total | %     |
| ACT       | 54         | 0            | 3                     | 0           | 0                | 0           | 57    | 1.2   |
| NSW       | 2 537      | 20           | 69                    | 11          | 2                | 6           | 2 645 | 57.1  |
| NT        | 20         | 0            | 0                     | 0           | 0                | 0           | 20    | 0.4   |
| QLD       | 473        | 0            | 3                     | 1           | 1                | 0           | 478   | 10.3  |
| SA        | 224        | 0            | 1                     | 0           | 0                | 0           | 225   | 4.9   |
| TAS       | 24         | 0            | 1                     | 0           | 0                | 0           | 25    | 0.5   |
| VIC       | 1 114      | 0            | 1                     | 2           | 1                | 0           | 1 118 | 24.1  |
| WA        | 56         | 0            | 8                     | 1           | 1                | 1           | 67    | 1.4   |
| Total     | 4 502      | 20           | 86                    | 15          | 5                | 7           | 4 635 | 100.0 |

A total of 66 AIDS cases were matched at least twice to 77 deaths. Removal of the duplicate matched pairs resulted in 4,635 unique matched pairs. Almost all deaths following AIDS notified to the National AIDS Registry (97.6%) were matched to an AIDS associated death registered with the National Death Index, including 20 delayed notifications of death, notified after August 1998 (Table 1.1). A total of 86 AIDS cases had matching identifiers with an AIDS associated death, indicating underreporting of death following AIDS. Small numbers of deaths were found only on the National Death Index or on the National AIDS Registry, suggesting very

limited underreporting of AIDS to both data sources. For 7 matched pairs, the match was not verified and the AIDS case was considered to be living with AIDS. However, these cases were diagnosed with AIDS prior to the introduction, in 1996, of combination antiretroviral therapy for HIV infection, which has the effect of delaying progression to AIDS and death following AIDS.

Of the 499 AIDS associated deaths registered with the National Death Index which were not linked to deaths following AIDS by computerised matching, a record of HIV or AIDS diagnosis could not be found following clerical review for 300 cases (Table 1.2). A matching AIDS record was found in 52 cases including 48 (92%) deaths following AIDS. These AIDS cases and deaths, matched following clerical review, were not matched by computerised linkage because another name code or a reversed name code was held on the National AIDS Registry (69% of cases), the date of death recorded on the National AIDS Registry had been estimated (19%), the death had not been notified (8%) or there was a delayed notification of the AIDS case and death (4%). A record of death following a diagnosis of HIV infection was found for 55 cases and an HIV record only was found for 92 AIDS associated deaths. Deaths following HIV infection were attributed to causes other than AIDS or to suicide or drug overdose in 56% of cases, the cause of death was not reported in 33% and was possibly due to AIDS in 11%.

Table 1.2 Number of deaths attributed to AIDS on the National Death Index which were not matched to AIDS cases, number which were matched and possibly matched following clerical review and number for which a record of HIV/AIDS diagnosis was not found, by State/Territory of death

| State/Territory | Matched to<br>AIDS death | Match/possible<br>match to HIV record | No matching<br>HIV/AIDS record | Total | %     |
|-----------------|--------------------------|---------------------------------------|--------------------------------|-------|-------|
| ACT             | 1                        | 1                                     | 7                              | 9     | 1.8   |
| NSW             | 30                       | 91                                    | 194                            | 315   | 63.1  |
| NT              | 0                        | 2                                     | 2                              | 4     | 0.8   |
| QLD             | 13                       | 21                                    | 24                             | 58    | 11.6  |
| SA              | 0                        | 3                                     | 6                              | 9     | 1.8   |
| TAS             | 1                        | 1                                     | 4                              | 6     | 1.2   |
| VIC             | 5                        | 21                                    | 53                             | 79    | 15.8  |
| WA              | 2                        | 7                                     | 10                             | 19    | 3.8   |
| Total           | 52                       | 147                                   | 300                            | 499   | 100.0 |

The first national assessment of the completeness of AIDS, using an independent data source, indicates that notification of AIDS and death following AIDS in Australia was virtually complete for deaths occurring by the end of 1997. However, limited underreporting of death following AIDS has occurred in both data sources. The almost complete ascertainment of deaths following AIDS indicates that AIDS case surveillance accurately summarises the pattern of advanced HIV infection in Australia, and provides a reliable basis for planning purposes.

## Reported by

Ann McDonald for the National HIV Surveillance Committee National Centre in HIV Epidemiology and Clinical Research, Sydney

#### References

Donovan JW. Inconsistencies in statistics of deaths from AIDS. Med J Aust 1991; 154: 90 - 92 McAnulty JM, Rubin GL, Rushworth RL and Kaldor J. Underreporting of AIDS, New South Wales, 1988 - 1989. Med J Aust 1992; 156: 452 - 455

# **National AIDS Registry**

Table 2.1 Cases of AIDS and deaths following AIDS by sex and State/Territory in which diagnosis of AIDS was made, cumulative to 30 September 2002, and for two previous yearly intervals

#### Cases

|                 | 1 Oct 00 - | 30 Sep 01 | 1 Oct 01 - | 30 Sep 02 | Cun    | nulative | to 30 Sep          | 02    |
|-----------------|------------|-----------|------------|-----------|--------|----------|--------------------|-------|
| State/Territory | Male F     | emale     | Male 1     | Female    | Male I | Female   | Total <sup>†</sup> | %     |
| ACT             | 1          | 0         | 2          | 0         | 90     | 9        | 99                 | 1.1   |
| NSW             | 76         | 8         | 58         | 0         | 4 872  | 208      | 5 093              | 57.1  |
| NT              | 2          | 0         | 1          | 0         | 38     | 0        | 38                 | 0.4   |
| QLD             | 30         | 1         | 29         | 2         | 909    | 53       | 964                | 10.8  |
| SA              | 7          | 1         | 12         | 3         | 373    | 29       | 402                | 4.5   |
| TAS             | 1          | 0         | 0          | 1         | 46     | 4        | 50                 | 0.5   |
| VIC             | 46         | 4         | 35         | 5         | 1 761  | 82       | 1 852              | 20.8  |
| WA              | 17         | 2         | 10         | 2         | 387    | 31       | 420                | 4.8   |
| Total           | 180        | 16        | 147        | 13        | 8 476  | 416      | 8 918              | 100.0 |

#### **Deaths**

|                 | 1 Oct 00 | - 30 Sep 01 | 1 Oct 01 - | 30 Sep 02 | Cumulative to 30 Sep 02 |        |                    |       |  |  |
|-----------------|----------|-------------|------------|-----------|-------------------------|--------|--------------------|-------|--|--|
| State/Territory | Male     | Female      | Male       | Female    | Male                    | Female | Total <sup>†</sup> | %     |  |  |
| ACT             | 2        | 0           | 0          | 0         | 71                      | 4      | 75                 | 1.2   |  |  |
| NSW             | 38       | 3           | 32         | 0         | 3 363                   | 122    | 3 494              | 56.3  |  |  |
| NT              | 1        | 0           | 0          | 0         | 25                      | 0      | 25                 | 0.4   |  |  |
| QLD             | 12       | 3           | 8          | 0         | 600                     | 36     | 638                | 10.3  |  |  |
| SA              | 8        | 1           | 5          | 2         | 246                     | 18     | 264                | 4.3   |  |  |
| TAS             | 0        | 0           | 0          | 0         | 30                      | 2      | 32                 | 0.5   |  |  |
| VIC             | 21       | 3           | 11         | 3         | 1 322                   | 57     | 1 386              | 22.4  |  |  |
| WA              | 3        | 0           | 2          | 2         | 267                     | 20     | 288                | 4.6   |  |  |
| Total           | 85       | 10          | 58         | 7         | 5 924                   | 259    | 6 202              | 100.0 |  |  |

Totals include 26 AIDS cases and 19 deaths following AIDS in people whose sex was reported as transgender.

Table 2.2 Incidence of AIDS per million current population¹ by sex and State/Territory of diagnosis for the two most recent yearly intervals

|                 | 1 Oc | t 2000 – 30 Sep | 2001  | 1 Oc | t 2001 – 30 Sep | 2002  |
|-----------------|------|-----------------|-------|------|-----------------|-------|
| State/Territory | Male | Female          | Total | Male | Female          | Total |
| ACT             | 6.3  | 0.0             | 3.1   | 12.5 | 0.0             | 6.2   |
| NSW             | 23.3 | 2.4             | 12.7  | 17.6 | 0.0             | 8.9   |
| NT              | 19.2 | 0.0             | 10.0  | 9.6  | 0.0             | 5.0   |
| QLD             | 16.7 | 0.5             | 8.6   | 15.8 | 1.1             | 8.4   |
| SA              | 9.4  | 1.3             | 5.3   | 16.0 | 3.9             | 9.9   |
| TAS             | 4.3  | 0.0             | 2.1   | 0.0  | 4.2             | 2.1   |
| VIC             | 19.5 | 1.6             | 10.6  | 14.6 | 2.0             | 8.2   |
| WA              | 17.9 | 2.1             | 10.0  | 10.4 | 2.1             | 6.2   |
| Total           | 18.7 | 1.6             | 10.1  | 15.1 | 1.3             | 8.2   |

Population estimates by sex, State/Territory and calendar period from Australian Demographic Statistics (Australian Bureau of Statistics).

Table 2.3 Cases of AIDS and deaths following AIDS by sex and age group, cumulative to 30 September 2002, and for two previous yearly intervals

## Cases1

| Age group | 1 Oct 00 | - 30 Sep 01 | 1 Oct 01 - | 30 Sep 02 | Cu    | ımulative | to 30 Sep          | 02    |
|-----------|----------|-------------|------------|-----------|-------|-----------|--------------------|-------|
| (years)   | Male     | Female      | Male F     | Female    | Male  | Female    | Total <sup>†</sup> | %     |
| 0–2       | 0        | 0           | 0          | 1         | 9     | 9         | 18                 | 0.2   |
| 2-12      | 0        | 0           | 0          | 1         | 20    | 10        | 30                 | 0.3   |
| 0-12      | 0        | 0           | 0          | 2         | 29    | 19        | 48                 | 0.5   |
| 13-19     | 0        | 0           | 0          | 0         | 27    | 4         | 31                 | 0.3   |
| 20-29     | 14       | 2           | 11         | 1         | 1 370 | 103       | 1 486              | 16.7  |
| 30-39     | 69       | 10          | 50         | 5         | 3 545 | 154       | 3 708              | 41.6  |
| 40-49     | 51       | 3           | 61         | 2         | 2 395 | 68        | 2 465              | 27.6  |
| 50-59     | 29       | 1           | 20         | 3         | 834   | 35        | 871                | 9.8   |
| 60+       | 17       | 0           | 5          | 0         | 276   | 33        | 309                | 3.5   |
| Total     | 180      | 16          | 147        | 13        | 8 476 | 416       | 8 918              | 100.0 |

#### Deaths<sup>2</sup>

| Age group | 1 Oct 00 | - 30 Sep 01 | 1 Oct 01 – 3 | 0 Sep 02 | Cur   | Cumulative to 30 Sep 02 |                    |       |  |  |  |
|-----------|----------|-------------|--------------|----------|-------|-------------------------|--------------------|-------|--|--|--|
| (years)   | Male     | Female      | Male Fe      | emale    | Male  | Female                  | Total <sup>†</sup> | %     |  |  |  |
| 0–2       | 0        | 0           | 0            | 1        | 5     | 6                       | 11                 | 0.2   |  |  |  |
| 2-12      | 1        | 0           | 0            | 0        | 17    | 6                       | 23                 | 0.4   |  |  |  |
| 0-12      | 1        | 0           | 0            | 1        | 22    | 12                      | 34                 | 0.6   |  |  |  |
| 13-19     | 0        | 0           | 0            | 0        | 14    | 3                       | 17                 | 0.3   |  |  |  |
| 20-29     | 2        | 2           | 2            | 1        | 680   | 46                      | 737                | 11.9  |  |  |  |
| 30-39     | 27       | 4           | 18           | 2        | 2 373 | 93                      | 2 472              | 39.8  |  |  |  |
| 40-49     | 32       | 0           | 22           | 1        | 1 884 | 44                      | 1 930              | 31.1  |  |  |  |
| 50-59     | 13       | 4           | 12           | 2        | 715   | 30                      | 745                | 12.0  |  |  |  |
| 60+       | 10       | 0           | 4            | 0        | 236   | 31                      | 267                | 4.3   |  |  |  |
| Total     | 85       | 10          | 58           | 7        | 5 924 | 259                     | 6 202              | 100.0 |  |  |  |

<sup>1</sup> Cases are classified by age at diagnosis.

<sup>2</sup> Deaths are classified by age at death.

Table 2.4 Cases of AIDS by sex and exposure category, cumulative to 30 September 2002, and for two previous yearly intervals

| 10                                    | ct 00 - | - 30 Sep 01 | 1 Oct 01 | - 30 Sep 02 | Cumulative to 30 Sep 02 |        |       |       |
|---------------------------------------|---------|-------------|----------|-------------|-------------------------|--------|-------|-------|
| Exposure category                     | Male    | Female      | Male     | Female      | Male                    | Female | Total | %     |
| Male homosexual/                      |         |             |          |             |                         |        |       |       |
| bisexual contact                      | 123     | -           | 110      | _           | 7 027                   | _      | 7 027 | 81.9  |
| Male homosexual/bisexual              |         |             |          |             |                         |        |       |       |
| contact and injecting drug use        | 7       | -           | 6        | _           | 388                     | _      | 388   | 4.5   |
| Injecting drug use                    | 4       | 3           | 9        | 1           | 190                     | 90     | 280   | 3.3   |
| Heterosexual                          | 3       | 1           | 5        | 1           | 122                     | 69     | 191   |       |
| Not further specified                 | 1       | 2           | 4        | 0           | 68                      | 21     | 89    |       |
| Heterosexual contact                  | 28      | 13          | 15       | 7           | 353                     | 220    | 573   | 6.7   |
| Sex with injecting drug user          | 0       | 0           | 0        | 1           | 7                       | 23     | 30    |       |
| Sex with bisexual male                | _       | 0           | _        | 0           | _                       | 41     | 41    |       |
| From a high prevalence country        | 6       | 8           | 2        | 1           | 67                      | 48     | 115   |       |
| Sex with person from a high           |         |             |          |             |                         |        |       |       |
| prevalence country                    | 9       | 1           | 2        | 0           | 55                      | 15     | 70    |       |
| Sex with person with medically        |         |             |          |             |                         |        |       |       |
| acquired HIV                          | 0       | 0           | 0        | 0           | 2                       | 10     | 12    |       |
| Sex with HIV infected person,         |         |             |          |             |                         |        |       |       |
| exposure not specified                | 1       | 2           | 5        | 2           | 35                      | 29     | 64    |       |
| Not further specified                 | 12      | 2           | 6        | 3           | 187                     | 54     | 241   |       |
| Haemophilia/coagulation disorde       | r 1     | 0           | 1        | 0           | 117                     | 3      | 120   | 1.4   |
| Receipt of blood/tissue               | 0       | 0           | 0        | 1           | 78                      | 64     | 142   | 1.6   |
| Health care setting                   | 0       | 0           | 0        | 0           | 1                       | 3      | 4     | 0.0   |
| Total Adults/Adolescents              | 163     | 16          | 141      | 9           | 8 154                   | 380    | 8 534 | 99.4  |
| Children (under 13 years at AIL       | OS dia  | gnosis)     |          |             |                         |        |       |       |
| Mother with/at risk for HIV infection | on O    | 0           | 0        | 2           | 13                      | 16     | 29    | 0.3   |
| Haemophilia/coagulation disorde       | r 0     | 0           | 0        | 0           | 5                       | 0      | 5     | 0.1   |
| Receipt of blood/tissue               | 0       | 0           | 0        | 0           | 11                      | 3      | 14    | 0.2   |
| Total children                        | 0       | 0           | 0        | 2           | 29                      | 19     | 48    | 0.6   |
| Sub-total                             | 163     | 16          | 141      | 11          | 8 183                   | 399    | 8 582 | 100.0 |
| Other/undetermined <sup>1</sup>       | 17      | 0           | 6        | 2           | 293                     | 17     | 336   |       |
| Total                                 | 180     | 16          | 147      | 13          | 8 476                   | 416    | 8 918 |       |

The 'Other/undetermined' exposure category includes 26 AIDS cases in people whose sex was reported as transgender. The category was excluded from the calculation of the percentage of cases attributed to each exposure category.

Table 2.5 Deaths following AIDS by sex and exposure category, cumulative to 30 September 2002, and for two previous yearly intervals

| 1 Oc                                  | t 00 - | - 30 Sep 01 | 1 Oct 01 - 3 | 0 Sep 02 | Cumulative to 30 Sep 02 |        |       |       |  |
|---------------------------------------|--------|-------------|--------------|----------|-------------------------|--------|-------|-------|--|
| Exposure category                     | /lale  | Female      | Male Fe      | emale    | Male                    | Female | Total | %     |  |
| Male homosexual/                      |        |             |              |          |                         |        |       |       |  |
| bisexual contact                      | 61     | -           | 48           | -        | 5 025                   | _      | 5 025 | 83.8  |  |
| Male homosexual/bisexual              |        |             |              |          |                         |        |       |       |  |
| contact and injecting drug use        | 6      | -           | 4            | -        | 270                     | -      | 270   | 4.5   |  |
| Injecting drug use                    | 6      | 2           | 4            | 0        | 113                     | 52     | 165   | 2.8   |  |
| Heterosexual                          | 2      | 1           | 1            | 0        | 78                      | 43     | 121   |       |  |
| Not further specified                 | 4      | 1           | 3            | 0        | 35                      | 9      | 44    |       |  |
| Heterosexual contact                  | 3      | 6           | 1            | 6        | 154                     | 125    | 279   | 4.7   |  |
| Sex with injecting drug user          | 0      | 0           | 0            | 0        | 4                       | 11     | 15    |       |  |
| Sex with bisexual male                | _      | 2           | _            | 0        | _                       | 29     | 29    |       |  |
| From a high prevalence country        | 1      | 2           | 1            | 2        | 15                      | 16     | 31    |       |  |
| Sex with person from a high           |        |             |              |          |                         |        |       |       |  |
| prevalence country                    | 0      | 0           | 0            | 0        | 18                      | 10     | 28    |       |  |
| Sex with person with medically        |        |             |              |          |                         |        |       |       |  |
| acquired HIV                          | 0      | 0           | 0            | 0        | 2                       | 7      | 9     |       |  |
| Sex with HIV infected person,         |        |             |              |          |                         |        |       |       |  |
| exposure not specified                | 0      | 2           | 0            | 1        | 22                      | 17     | 39    |       |  |
| Not further specified                 | 2      | 0           | 0            | 3        | 93                      | 35     | 128   |       |  |
| Haemophilia/coagulation disorder      | 3      | 0           | 1            | 0        | 93                      | 3      | 96    | 1.6   |  |
| Receipt of blood/tissue               | 0      | 2           | 0            | 0        | 68                      | 54     | 122   | 2.0   |  |
| Health care setting                   | 0      | 0           | 0            | 0        | 1                       | 2      | 3     | 0.0   |  |
| Total Adults/Adolescents              | 79     | 10          | 58           | 6        | 5 724                   | 236    | 5 960 | 99.4  |  |
| Children (under 13 years at dea       | th fol | lowing AIDS | i)           |          |                         |        |       |       |  |
| Mother with/at risk for HIV infection | 1 1    | 0           | 0            | 1        | 8                       | 10     | 18    | 0.3   |  |
| Haemophilia/coagulation disorder      | 0      | 0           | 0            | 0        | 3                       | 0      | 3     | 0.1   |  |
| Receipt of blood/tissue               | 0      | 0           | 0            | 0        | 11                      | 2      | 13    | 0.2   |  |
| Total children                        | 1      | 0           | 0            | 1        | 22                      | 12     | 34    | 0.6   |  |
| Sub-total                             | 80     | 10          | 58           | 7        | 5 746                   | 248    | 5 994 | 100.0 |  |
| Other/undetermined <sup>1</sup>       | 5      | 0           | 0            | 0        | 178                     | 11     | 208   |       |  |
| Total                                 | 85     | 10          | 58           | 7        | 5 924                   | 259    | 6 202 |       |  |

The 'Other/undetermined' exposure category includes 19 deaths following AIDS in people whose sex was reported as transgender. The category was excluded from the calculation of the percentage of cases attributed to each exposure category.

## The National HIV Database

Table 3.1 Number of new diagnoses of HIV infection by sex¹ and State/Territory, cumulative to 30 September 2002, and for two previous yearly intervals

|                  | 1 Oct 00 | - 30 Sep 01 | 1 Oct 01 - | 30 Sep 02 | Cı     | ımulative | to 30 Sep           | 02                |
|------------------|----------|-------------|------------|-----------|--------|-----------|---------------------|-------------------|
| State/Territory  | Male     | Female      | Male I     | emale     | Male   | Female    | Total               | Rate <sup>2</sup> |
| ACT              | 4        | 0           | 5          | 1         | 235    | 28        | 263                 | 81.3              |
| NSW <sup>3</sup> | 331      | 33          | 315        | 24        | 11 823 | 688       | 12 771              | 191.9             |
| NT               | 3        | 1           | 4          | 4         | 115    | 14        | 129                 | 64.6              |
| QLD              | 86       | 14          | 104        | 10        | 2 227  | 185       | 2 419               | 65.6              |
| SA               | 24       | 6           | 33         | 8         | 749    | 77        | 826                 | 54.3              |
| TAS              | 4        | 0           | 4          | 2         | 86     | 7         | 93                  | 19.6              |
| VIC <sup>4</sup> | 164      | 21          | 189        | 27        | 4 336  | 270       | 4 648               | 95.4              |
| WA               | 39       | 10          | 24         | 13        | 1 006  | 144       | 1 156               | 60.1              |
| Total⁵           | 655      | 85          | 678        | 89        | 20 577 | 1 413     | 22 305 <sup>6</sup> | 113.5             |

- 1 Fifty six people (25 NSW, 7 QLD, 18 VIC and 6 WA) whose sex was reported as transgender are included in the total columns of Tables 3.1 – 3.3
- 2 Rate per one hundred thousand current population. Population estimates by sex, State/Territory and calendar interval from Australian Demographic Statistics (Australian Bureau of Statistics).
- 3 Cumulative total for NSW includes 235 people whose sex was not reported.
- 4 Cumulative total for VIC includes 24 people whose sex was not reported.
- 5 Cumulative total for Australia includes 259 people whose sex was not reported.
- 6 Estimated number of new diagnoses of HIV infection, adjusted for multiple reports, was 19 400 (range 18 950 to 19 850).
  Reference: Law MG, McDonald AM and Kaldor JM. Estimation of cumulative HIV incidence in Australia, based on national case reporting.

Reference: Law MG, McDonald AM and Kaldor JM. Estimation of cumulative HIV incidence in Australia, based on national case reporting Aust NZ J Public Health 1996: 20: 215 - 217

Table 3.2 Number of new diagnoses of HIV infection for which exposure category was reported, by sex and exposure category, cumulative to 30 September 2002, and for two previous yearly intervals

| 1 0                                   | ct 00 - | - 30 Sep 01 | 1 Oct 01 - | - 30 Sep 02 | Cumulative to 30 Sep 02 |        |                    |       |
|---------------------------------------|---------|-------------|------------|-------------|-------------------------|--------|--------------------|-------|
| Exposure category                     | Male    | Female      | Male       | Female      | Male                    | Female | Total <sup>1</sup> | %     |
| Male homosexual/                      |         |             |            |             |                         |        |                    |       |
| bisexual contact                      | 434     | -           | 508        | -           | 14 345                  | _      | 14 345             | 77.5  |
| Male homosexual/bisexual              |         |             |            |             |                         |        |                    |       |
| contact and injecting drug use        | 32      | -           | 21         | -           | 737                     | _      | 737                | 4.0   |
| njecting drug use                     | 30      | 9           | 16         | 2           | 619                     | 190    | 817                | 4.4   |
| Heterosexual                          | 20      | 8           | 11         | 2           | 243                     | 139    | 383                |       |
| Not further specified                 | 10      | 1           | 5          | 0           | 376                     | 51     | 434                |       |
| leterosexual contact                  | 83      | 70          | 63         | 80          | 1 089                   | 917    | 2 009              | 10.8  |
| Sex with injecting drug user          | 1       | 2           | 3          | 5           | 31                      | 96     | 127                |       |
| Sex with bisexual male                | -       | 6           | _          | 6           | -                       | 121    | 121                |       |
| From a high prevalence country        | / 28    | 36          | 19         | 34          | 222                     | 249    | 472                |       |
| Sex with person from a high           |         |             |            |             |                         |        |                    |       |
| prevalence country                    | 23      | 11          | 12         | 10          | 187                     | 101    | 288                |       |
| Sex with person with medically        |         |             |            |             |                         |        |                    |       |
| acquired HIV                          | 0       | 0           | 0          | 0           | 5                       | 17     | 22                 |       |
| Sex with HIV infected person,         | _       |             |            | 4.0         |                         | 400    |                    |       |
| exposure not specified                | 6       | 8           | 3          | 12          | 62                      | 133    | 196                |       |
| Not further specified                 | 25      | 7           | 26         | 13          | 582                     | 200    | 783                |       |
| laemophilia/coagulation disorde       |         | 0           | 1          | 0           | 221                     | 4      | 225                | 1.2   |
| Receipt of blood/tissue               | 0       | 0           | 0          | 0           | 105                     | 102    | 207                | 1.1   |
| lealth care setting <sup>2</sup>      | 0       | 0           | 0          | 1           | 3                       | 9      | 12                 | 0.    |
| otal Adults/Adolescents <sup>1</sup>  | 579     | 79          | 609        | 83          | 17 119                  | 1 222  | 18 352             | 99.1  |
| Children (under 13 years at HI        | V diagr | nosis)      |            |             |                         |        |                    |       |
| Nother with/at risk for HIV infection | on³ 1   | 1           | 0          | 3           | 39                      | 31     | 70                 | 0.4   |
| laemophilia/coagulation disorde       | r 0     | 0           | 0          | 0           | 66                      | 0      | 66                 | 0.4   |
| Receipt of blood/tissue               | 0       | 0           | 0          | 0           | 13                      | 8      | 21                 | 0.1   |
| otal children                         | 1       | 1           | 0          | 3           | 118                     | 39     | 157                | 0.9   |
| Sub-total                             | 580     | 80          | 609        | 86          | 17 237                  | 1 261  | 18 509             | 100.0 |
| Other/undetermined4                   | 75      | 5           | 69         | 3           | 3 340                   | 152    | 3 796              |       |
| Total <sup>1</sup>                    | 655     | 85          | 678        | 89          | 20 577                  | 1 413  | 22 305⁵            |       |

Total column includes people whose sex was not reported.

<sup>2 &#</sup>x27;Health care setting' includes 6 cases of occupationally acquired HIV infection and 4 cases of HIV transmission in surgical rooms.

<sup>3</sup> A total of 274 children were notified as having been born to women with HIV infection, cumulative to 30 September 2002.

The 'Other/undetermined' exposure category includes 3 778 adults/adolescents and 18 children. Fifty six people whose sex was reported as transgender were included in the 'Other/undetermined' category. The 'Other/undetermined' category was excluded from the calculation of the percentage of cases attributed to each exposure category.

<sup>5</sup> See footnote Table 3.1

Table 3.3 Number of new diagnoses of HIV infection by sex and age group, cumulative to 30 September 2002, and for two previous yearly intervals

| Age group          | 1 Oct 00 | - 30 Sep 01 | 1 Oct 01 - | 30 Sep 02 | Cu     | mulative | to 30 Sep          | 02    |
|--------------------|----------|-------------|------------|-----------|--------|----------|--------------------|-------|
| (years)            | Male     | Female      | Male I     | Female    | Male   | Female   | Total <sup>1</sup> | %     |
| 0–2                | 1        | 1           | 0          | 1         | 43     | 20       | 64                 | 0.3   |
| 3–12               | 0        | 0           | 0          | 2         | 90     | 21       | 111                | 0.5   |
| 0-12               | 1        | 1           | 0          | 3         | 133    | 41       | 175                | 0.8   |
| 13-19              | 7        | 4           | 7          | 5         | 428    | 91       | 528                | 2.4   |
| 20-29              | 144      | 41          | 167        | 28        | 6 889  | 579      | 7 590              | 34.0  |
| 30-39              | 263      | 21          | 285        | 39        | 7 659  | 401      | 8 163              | 36.6  |
| 40-49              | 148      | 11          | 138        | 8         | 3 647  | 150      | 3 840              | 17.2  |
| 50-59              | 57       | 2           | 61         | 3         | 1 238  | 54       | 1 305              | 5.9   |
| 60+                | 24       | 3           | 17         | 3         | 403    | 63       | 468                | 2.1   |
| Not reported       | 11       | 2           | 3          | 0         | 180    | 34       | 236                | 1.0   |
| Total <sup>1</sup> | 655      | 85          | 678        | 89        | 20 577 | 1 413    | 22 305             | 100.0 |

1 See footnotes Table 3.2

Table 3.4 Number of new diagnoses of HIV infection in the year 1 October 2001 to 30
September 2002 for which an HIV seroconversion illness was diagnosed or the date of a prior negative test was within one year of diagnosis of HIV infection, by sex and State/Territory and for two six month intervals of HIV diagnosis

|                    | 1 Oct 01 - 31 Mar 02 |       | 1 Apr 02 - 30 Sep 02 |       | 1 Oct 01 - 30 Sep 02 |       |                    |
|--------------------|----------------------|-------|----------------------|-------|----------------------|-------|--------------------|
| State/Territory    | Male Fo              | emale | Male Fo              | emale | Male F               | emale | Total <sup>1</sup> |
| ACT                | 0                    | 0     | 1                    | 0     | 1                    | 0     | 1                  |
| NSW <sup>1</sup>   | 45                   | 1     | 48                   | 0     | 93                   | 1     | 95                 |
| NT                 | 2                    | 0     | 0                    | 0     | 2                    | 0     | 2                  |
| QLD                | 11                   | 2     | 15                   | 0     | 26                   | 2     | 28                 |
| SA                 | 5                    | 0     | 4                    | 0     | 9                    | 0     | 9                  |
| TAS                | 1                    | 0     | 1                    | 0     | 2                    | 0     | 2                  |
| VIC <sup>1</sup>   | 33                   | 1     | 30                   | 0     | 63                   | 1     | 65                 |
| WA                 | 1                    | 3     | 2                    | 2     | 3                    | 5     | 8                  |
| Total <sup>1</sup> | 98                   | 7     | 101                  | 2     | 199                  | 9     | 210                |

Totals includes people whose sex was reported as transgender.

Table 3.5 Number of new diagnoses of HIV infection in the year 1 October 2001 to 30
September 2002 for which an HIV seroconversion illness was diagnosed or the date of a prior negative test was within one year of diagnosis of HIV infection, by sex and exposure category and for two six month intervals of HIV diagnosis

|   | 1 Oct 01 | - 31 Mar 02 | 1 Apr 02 | - 30 Sep 02 | 1 Oct | 01- 30 S | ep 02              |
|---|----------|-------------|----------|-------------|-------|----------|--------------------|
| Exposure category                                       | Male     | Female      | Male I   | Female      | Male  | Female   | Total <sup>1</sup> |
| Male homosexual/bisexual contact                        | 87       | _           | 96       | _           | 183   | _        | 183                |
| Male homosexual/bisexual contact and injecting drug use | 4        | _           | 2        | _           | 6     | _        | 6                  |
| Injecting drug use<br>(female and heterosexual male)    | 1        | 0           | 0        | 0           | 1     | 0        | 1                  |
| Heterosexual contact                                    | 5        | 7           | 0        | 1           | 5     | 8        | 13                 |
| Health care setting                                     | 0        | 0           | 0        | 1           | 0     | 1        | 1                  |
| Other/undetermined <sup>1</sup>                         | 1        | 0           | 3        | 0           | 4     | 0        | 6                  |
| Total <sup>1</sup>                                      | 98       | 7           | 101      | 2           | 199   | 9        | 210                |

Totals includes people whose sex was reported as transgender.

Table 3.6 Number of new diagnoses of HIV infection in the year 1 October 2001 to 30

September 2002 for which an HIV seroconversion illness was diagnosed or the date of a prior negative test was within one year of diagnosis of HIV infection, by sex and age group and for two six month intervals of HIV diagnosis

| Age group          | 1 Oct 01 - | - 31 Mar 02 | 1 Apr 02 - 30 Sep 02 |       | 1 Oct 01 - 30 Sep 02 |       |                    |
|--------------------|------------|-------------|----------------------|-------|----------------------|-------|--------------------|
| (years)            | Male       | Female      | Male Fo              | emale | Male F               | emale | Total <sup>1</sup> |
| 13–19              | 3          | 1           | 0                    | 0     | 3                    | 1     | 4                  |
| 20-29              | 29         | 1           | 27                   | 0     | 56                   | 1     | 57                 |
| 30-391             | 47         | 5           | 47                   | 1     | 94                   | 6     | 102                |
| 40-49              | 12         | 0           | 20                   | 0     | 32                   | 0     | 32                 |
| 50-59              | 6          | 0           | 6                    | 1     | 12                   | 1     | 13                 |
| 60+                | 1          | 0           | 1                    | 0     | 2                    | 0     | 2                  |
| Total <sup>1</sup> | 98         | 7           | 101                  | 2     | 199                  | 9     | 210                |

Totals include two people whose sex was reported as transgender.

## Sentinel surveillance of HIV infection in sexual health clinics

Table 4.1 Number of people seen, number of people tested for HIV antibody and number of people newly diagnosed with HIV infection, by sex and sexual health clinic, during the quarter 1 July to 30 September 2002

|   | Seen at Clinic |        |       | Tested for<br>HIV antibody |      | Newly diagnosed with HIV infection |       |  |
|---|----------------|--------|-------|----------------------------|------|------------------------------------|-------|--|
| Sexual health clinic  | Male           | Female | Male  | Female                     | Male | Female                             | Total |  |
| Sydney Sexual Health Centre, NSW                            | 1 401          | 960    | 644   | 364                        | 5    | 0                                  | 5     |  |
| Livingstone Road Sexual Health Centre,<br>Marrickville, NSW | 343            | 454    | 153   | 169                        | 0    | 1                                  | 1     |  |
| Brisbane Sexual Health Clinic, QLD                          | 911            | 822    | 353   | 292                        | 3    | 0                                  | 3     |  |
| Gold Coast Sexual Health Clinic, QLD                        | 471            | 636    | 154   | 248                        | 0    | 0                                  | 0     |  |
| Clinic 275, Adelaide, SA                                    | 1 070          | 761    | 803   | 507                        | 3    | 0                                  | 3     |  |
| Melbourne Sexual Health Centre, VIC                         | 1 746          | 1 565  | 794   | 669                        | 4    | 0                                  | 4     |  |
| Total   | 5 942          | 5 198  | 2 901 | 2 249                      | 15   | 1                                  | 16    |  |

Table 4.2 Number of people seen¹ who had a *previous negative HIV antibody test*, percent retested for HIV antibody and number (percent) newly diagnosed with HIV infection, by sex and exposure category, during the quarter 1 July to 30 September 2002

|                                |       | Previous negative<br>HIV antibody test |      | % retested for<br>HIV antibody |      | Newly diagnosed with<br>HIV infection |       |     |  |
|--------------------------------|-------|--|------|--------------------------------|------|---------------------------------------|-------|-----|--|
| Exposure category              | Male  | Female                                 | Male | Female                         | Male | Female                                | Total | %   |  |
| Male homosexual/               |       |  |      |                                |      |                                       |       |     |  |
| bisexual contact               | 704   | _                                      | 63.5 | _                              | 10   | -                                     | 10    | 2.2 |  |
| Male homosexual/bisexual       |       |  |      |                                |      |                                       |       |     |  |
| contact and injecting drug use | 61    | _                                      | 52.5 | _                              | 0    | -                                     | 0     | 0.0 |  |
| Injecting drug use             |       |  |      |                                |      |                                       |       |     |  |
| (female and heterosexual male  | 134   | 94                                     | 59.7 | 48.9                           | 0    | 0                                     | 0     | 0.0 |  |
| Heterosexual contact           | 1 290 | 1 360                                  | 45.0 | 39.4                           | 1    | 0                                     | 1     | 0.1 |  |
| outside Australia              | 166   | 112                                    | 58.4 | 55.4                           | 1    | 0                                     | 1     | 0.6 |  |
| within Australia only          | 1 124 | 1 248                                  | 43.1 | 38.0                           | 0    | 0                                     | 0     | 0.0 |  |
| Sex worker                     | _     | 273                                    | _    | 54.9                           | _    | 0                                     | 0     | 0.0 |  |
| Sex worker and injecting       |       |  |      |                                |      |                                       |       |     |  |
| drug use                       | _     | 39                                     | _    | 56.4                           | _    | 0                                     | 0     | 0.0 |  |
| Other/undetermined             | 38    | 48                                     | 42.1 | 50.0                           | 0    | 0                                     | 0     | 0.0 |  |
| Total                          | 2 227 | 1 814                                  | 51.9 | 42.9                           | 11   | 0                                     | 11    | 0.6 |  |

Data from the Melbourne Sexual Health Centre, VIC, not available for this quarter.

Table 4.3 Number of people seen¹ with *no previous HIV antibody test*, percent tested for HIV antibody for the first time, and number (percent) newly diagnosed with HIV infection, by sex and exposure category, during the quarter 1 July to 30 September 2002

|                                | No previous<br>HIV antibody test |        | % tested for<br>HIV antibody |        | Newly diagnosed with<br>HIV infection |        |       |     |
|--------------------------------|----------------------------------|--------|------------------------------|--------|---------------------------------------|--------|-------|-----|
| Exposure category              | Male                             | Female | Male                         | Female | Male                                  | Female | Total | %   |
| Male homosexual/               |                                  |        |                              |        |                                       |        |       |     |
| bisexual contact               | 311                              | -      | 61.7                         | -      | 0                                     | -      | 0     | 0.0 |
| Male homosexual/bisexual       |                                  |        |                              |        |                                       |        |       |     |
| contact and injecting drug use | 25                               | -      | 60.0                         | -      | 0                                     | -      | 0     | 0.0 |
| Injecting drug use             |                                  |        |                              |        |                                       |        |       |     |
| (female and heterosexual male) | 43                               | 47     | 76.7                         | 72.3   | 0                                     | 0      | 0     | 0.0 |
| Heterosexual contact           | 1 246                            | 1 467  | 55.9                         | 42.7   | 0                                     | 1      | 1     | 0.1 |
| outside Australia              | 155                              | 140    | 71.0                         | 63.6   | 0                                     | 1      | 1     | 0.5 |
| within Australia only          | 1 091                            | 1 327  | 53.8                         | 40.5   | 0                                     | 0      | 0     | 0.0 |
| Sex worker                     | _                                | 119    | _                            | 74.0   | _                                     | 0      | 0     | 0.0 |
| Sex worker and injecting       |                                  |        |                              |        |                                       |        |       |     |
| drug use                       | _                                | 26     | -                            | 50.0   | _                                     | 0      | 0     | 0.0 |
| Other/undetermined             | 127                              | 130    | 11.0                         | 30.8   | 0                                     | 0      | 0     | 0.0 |
| Total                          | 1 752                            | 1 789  | 54.3                         | 44.8   | 0                                     | 1      | 1     | 0.1 |

Data from the Melbourne Sexual Health Centre, VIC, not available for this quarter.

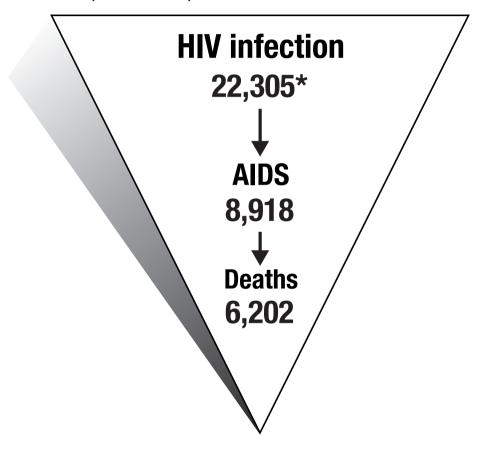
Table 4.4 Number of people seen¹, number of people tested for HIV antibody and number of people newly diagnosed with HIV infection, by sex and age group, during the quarter 1 July to 30 September 2002

| Seen at Clinic    |       |        | ed for<br>ntibody |        | wly diagno<br>h HIV infec |        |       |
|-------------------|-------|--------|-------------------|--------|---------------------------|--------|-------|
| Age group (years) | Male  | Female | Male              | Female | Male                      | Female | Total |
| 13–19             | 150   | 453    | 90                | 179    | 0                         | 0      | 0     |
| 20-29             | 1 652 | 1 891  | 929               | 840    | 4                         | 1      | 5     |
| 30-39             | 1 318 | 854    | 651               | 380    | 4                         | 0      | 4     |
| 40-49             | 650   | 311    | 286               | 148    | 3                         | 0      | 3     |
| 50-59             | 299   | 100    | 114               | 26     | 0                         | 0      | 0     |
| 60+               | 127   | 24     | 37                | 7      | 0                         | 0      | 0     |
| Total             | 4 196 | 3 633  | 2 107             | 1 580  | 11                        | 1      | 12    |

Data from the Melbourne Sexual Health Centre, VIC, not available for this quarter.

# The HIV Epidemic in Australia

A cumulative profile to 30 September 2002



\* Estimated number of new diagnoses of HIV infection, adjusted for multiple reports, was 19,400 (range 18,950 to 19,850).



## **National Centre in HIV Epidemiology and Clinical Research**

# **Australian HIV Surveillance Update**

Vol 19 No 1 January 2003

## Diagnoses in the third quarter

## 1 July - 30 September 2002

- a total of 194 diagnoses of HIV infection, 30 diagnoses of AIDS and 15 deaths following AIDS were reported, by 31 December 2002, to have occurred in the third quarter of 2002
- following adjustment for reporting delay, the estimated numbers of AIDS diagnoses and deaths following AIDS occurring in the third quarter of 2002 were 57 and 22
- in comparison, 212 diagnoses of HIV infection, 56 diagnoses of AIDS and 32 deaths following AIDS were reported, by 31 December 2002, to have occurred in the third quarter of 2001

#### New HIV infection

During the third quarter of 2002, 46 males were reported as having newly acquired HIV infection identified by a negative test within the 12 months prior to diagnosis or the diagnosis of HIV seroconversion illness. A history of male homosexual contact, with or without a history of injecting drug use, was reported in 43 (93.5%) of cases.

## Diagnoses in the year to 30 September 2002

- 772 diagnoses of HIV infection
- 161 diagnoses of AIDS
- 65 deaths following AIDS were reported by 31 December 2002

## **HIV** diagnoses

People diagnosed with HIV infection in the year to 30 September 2002 had an average age of 35 years and 1.6% was in the age group 13 – 19 years

- 87.8% were male, 11.5% were female and sex was reported as transgender for 0.7% of cases.
- of 609 cases of HIV infection, newly diagnosed among males in the year to 30 September 2002 for which exposure to HIV was recorded, a history of male homosexual contact, with or without a history of injecting drug use, was reported in 86.7%.

## Total diagnoses to 30 September 2002

- · 22,305 diagnoses of HIV infection
- 19,400 diagnoses of HIV infection following adjustment for multiple reporting
- 8,918 diagnoses of AIDS
- 6,202 deaths following AIDS were reported by 31 December 2002

## HIV testing in sexual health clinics

Six sexual health clinics in Adelaide, Brisbane, Gold Coast, Melbourne and Sydney tested 5,150 people in the quarter 1 July – 30 September 2002 who were not previously known to have HIV infection

- of 1,753 people reported as having been tested for the first time, 1 (0.1%) was found to have HIV infection
- of 1,934 people reported as having been retested following a previous negative test, 11 (0.6%) were found to have HIV infection
- of 479 men who reported a history of homosexual contact, with or without a history of injecting drug use, who were retested following a previous negative test, 10 (2.1%) were newly diagnosed with HIV infection

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# **Australian HIV Surveillance Report**

National Centre in HIV Epidemiology and Clinical Research

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## **NOTES**

**The National AIDS Registry** is maintained by NCHECR on behalf of the National HIV Surveillance Committee, which consists of representatives from NCHECR, and the Health Departments of each State and Territory and the Commonwealth of Australia. The Registry is based on reports from doctors who diagnose AIDS, made to the Health Department in the State/Territory of diagnosis. Date of birth and a name code (first two letters of first and last name) are used to minimise duplicate registration, while maintaining confidentiality.

The National HIV Database is maintained by NCHECR on behalf of the National HIV Surveillance Committee. It is based on reports of new diagnoses of HIV infection from HIV Reference Laboratories (ACT, NSW, TAS, VIC), or from a combination of Reference Laboratory and diagnosing doctors (NT, QLD, SA, WA). In order to avoid counting the same case more than once, only diagnoses which are determined to be new by the diagnosing laboratory or doctor are reported for the purposes of national surveillance.

Sentinel surveillance is carried out by six sexual health clinics in five Australian cities, which send quarterly reports on HIV antibody testing to NCHECR. Tabulations from the National AIDS Registry, the National HIV Database and Sentinel HIV Surveillance in sexual health clinics are based on data available three months after the end of the reporting interval indicated, to allow for reporting delay and to incorporate newly available information.

Abbreviations: HIV is the human immunodeficiency virus, and unless otherwise specified, refers to HIV-1 only. AIDS is the acquired immunodeficiency syndrome and STI stands for sexually transmissible infection. High prevalence countries are those of sub-Saharan Africa, the Caribbean and specific countries in South East Asia (Cambodia, Myanmar and Thailand), where HIV prevalence is above 1% and transmission is believed to be predominantly heterosexual. The Australian States and Territories are: Australian Capital Territory (ACT), New South Wales (NSW), Northern Territory (NT), Queensland (QLD), South Australia (SA), Tasmania (TAS), Victoria (VIC) and Western Australia (WA). NCHECR is the National Centre in HIV Epidemiology and Clinical Research.

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State/Territory publications of surveillance data, available through the Internet, are listed below:

NSW Public Health Bulletin

The Northern Territory Disease Control Bulletin

Sexually Transmitted Diseases in South Australia

Victorian Infectious Diseases Bulletin

Disease WAtch

www.health.nsw.gov.au/public-health/phb/phb.html

www.nt.gov.au/nths/publich/cdc/bulletin.htm

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