

## Data analysis by date of onset for NNDSS

From this issue onwards an additional set of summary tables presenting data by date of onset for each calendar month, will be included for the National Notifiable Diseases Surveillance System. Data for January 2000, by date of onset, are presented in Tables 1 and 2 of this issue and are discussed in the highlights section. Tables 3 and 4 present data by report date for the 4 week period, 2 to 29 February 2000, for information only.

Tables 1 and 2 include a comparison between the total January 2000 data and the totals for December and January 1999; and a 5 year mean which is calculated using December to February data for the previous 5 years (MMWR Weekly Feb 25, 2000:49(07);139-146). In subsequent editions year to date figures will also be included and compared to the mean for the year to date figures for the previous 5 years.

Where onset date data were not available the report date has been substituted by the National Centre of Disease Control as a proxy of the onset date.

# Communicable Diseases Surveillance

## Highlights

Communicable Diseases Surveillance consists of data from various sources. The National Notifiable Diseases Surveillance System (NNDSS) is conducted under the auspices of the Communicable Diseases Network Australia New Zealand. The *CDI* Virology and Serology Laboratory Reporting Scheme (LabVISE) is a sentinel surveillance scheme. The Australian Sentinel Practice Research Network (ASPREN) is a general practitioner-based sentinel surveillance scheme. In this report, data from the NNDSS are referred to as 'notifications' or 'cases', whereas those from ASPREN are referred to as 'consultations' or 'encounters' while data from the LabVISE scheme are referred to as 'laboratory reports'.

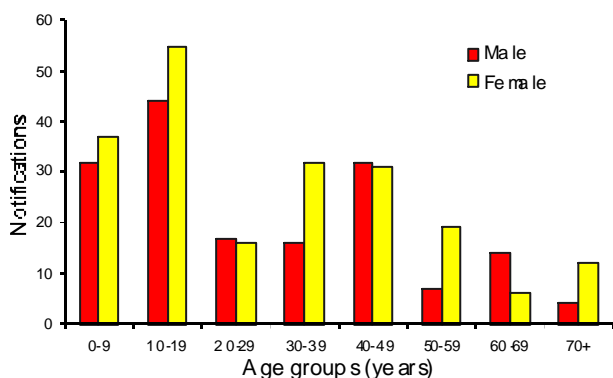
### Vaccine preventable diseases

A total of 418 notifications were received with an onset date in January. Most of the notifications were the result of continuing pertussis activity in most States and Territories. Cases of pertussis were distributed across all age groups with a predominance in the 10-19 year age group

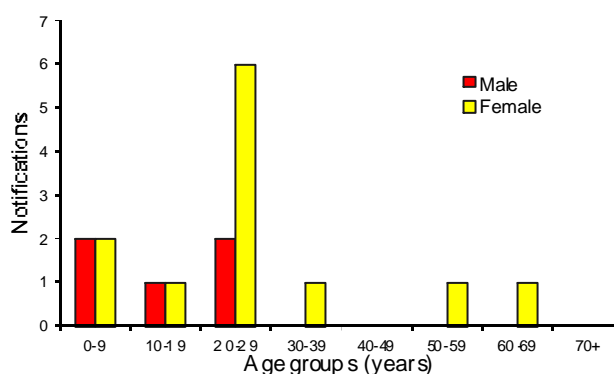
(Figure 1). There were 8 notifications of measles and 17 notifications of rubella in January, a decrease from the mean of the last five years (82 measles and 191 rubella notifications). Most measles cases were evenly distributed between decade age groupings up to 30 years of age, with 2 cases per grouping. Of the 2 cases under 10 years of age, 1 was a resident under 1 year and the other was a 4 year old visiting from overseas. Most rubella cases occurred in those aged between 20 and 29 years (8) with a female predominance (Figure 2). There was no increase in the number of notifications of other vaccine preventable diseases. Of interest, there was 1 case of tetanus reported from Queensland in a male aged over 70 years.

A total of 46 reports of meningococcal disease were received with an onset date in January, which is similar to numbers from the previous year but an increase compared with the mean for the months of December to February over the last 5 year period (25). Most cases occurred in those under 30 years of age and were spread evenly in decade age groupings, with a similar ratio overall of males to females (1.2:1). Overall there were 4 deaths reported in

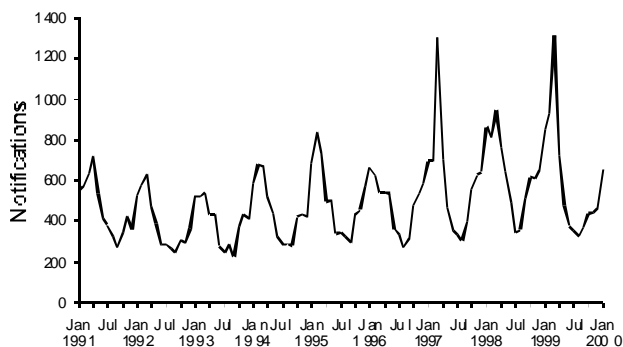
**Figure 1. Notifications of pertussis, January 2000, by age group and sex**



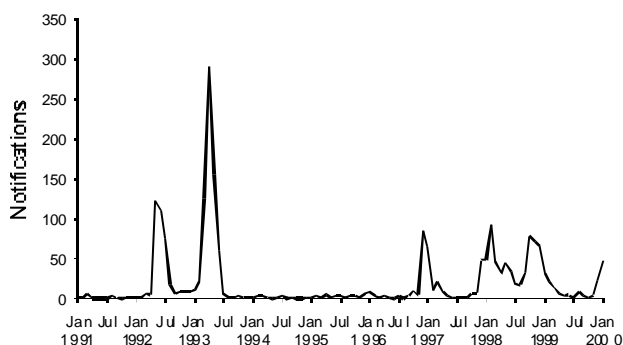
**Figure 2. Notifications of rubella, January 2000, by age group and sex**



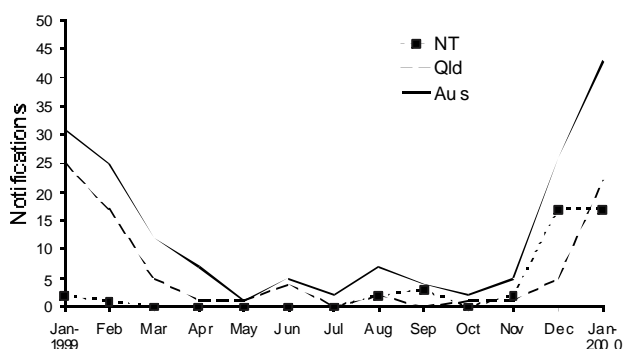
**Figure 3. Notifications of salmonellosis, January 1991 to January 2000, by date of onset**



**Figure 4. Notifications of dengue, January 1991 to January 2000, by date of onset**



**Figure 5. Notifications of dengue, January 1999 to January 2000, for Northern Territory, Queensland and Australia, by month of onset**



this period. Serotype information was provided for 78% of cases. Of those with serogroup details available 55% (20) were serotype B, 42% (15) were serotype C, and 3% (1) was serotype Y.

### Bloodborne diseases

There were 1,493 notifications of hepatitis C diagnosed in January 2000 that were not already recorded on the State and Territory notifiable diseases databases. This was an increase from December 1999 (1,337) and from the mean of the last 5 years (1,215), but was less than for January last year (1,601). Of these, 13 were identified as incident cases. The majority of notifications were in the 20-39 year age group (62%) and the male to female ratio was 1.7:1.

### Gastrointestinal diseases

There were 659 notifications of salmonellosis with an onset month of January 2000. This was an increase from December 1999 (462) but was less than for January last year (852) and for the mean of the last 5 years (702) (Figure 3). The majority of notifications were in the 0-10 year age group (45%) with a male to female ratio of 1.1:1. Salmonellosis notifications demonstrate marked periodicity, with summer peaks and winter troughs.

There were 10 notifications of listeriosis with an onset month of January 2000. This was twice the number of notifications as for the previous month (5), January last year (6) and for the mean of the last 5 years (7). Of these cases, 2 were in women of child bearing age and 1 was in a child less than 1 year old.

There were 7 notifications of typhoid with an onset month of January 2000. Of the four States reporting SLTEC/VTEC there were 4 cases, all from South Australia. There was also 1 case of haemolytic uraemic syndrome (HUS) in New South Wales.

### Quarantinable diseases

There were no cases of cholera, plague, rabies, yellow fever or viral haemorrhagic fever with an onset month of January 2000.

### Sexually transmissible diseases

There were 505 notifications of gonococcal infection with an onset month of January 2000, which was an increase from December 1999 (323), January last year (481) and for the mean for the last 5 years (373). The majority of notifications were in the 20-29 year age group (39%) with a male to female ratio of 2.5:1.

### Vectorborne diseases

There were 47 notifications of dengue with an onset month of January 2000. This was an increase from December 1999 (23), January last year (31) and from the mean for the last 5 years (33) (Figure 4). The majority of notifications were in the 20-39 year age group (47%) with a male to female ratio of 2.0:1. The increase was in Queensland and the Northern Territory. The Queensland cases comprised both imported cases and local transmission whereas all of the Northern Territory cases

were imported (the vector is exotic to the Northern Territory) (Figure 5).

There were 512 notifications of Ross River virus infection with an onset month of January 2000, which was an increase from December 1999 (242), but was similar to the figures for January last year (519) and for the mean for the last 5 years (558). The majority of notifications were in Queensland and Western Australia (81%). Sixty-seven per cent of all notifications were in the 20- 49 year age group with a male to female ratio of 0.9:1.

### *Other diseases*

There were 22 notifications of legionellosis with an onset month of January 2000, with the majority being in Victoria (59%). This was similar to the notifications for December 1999 (15), January last year (24) and for the mean for the last 5 years (19). The age for the notifications ranged from 30 to 79 years and the male to female ratio was 2.6:1.

## Tables

There were 7,514 notifications to the National Notifiable Diseases Surveillance System (NNDSS) with an onset date in January 2000 (Tables 1 and 2) and 6,537 notifications in the 4 week period, 2 to 29 February 2000 (Tables 3 and 4). The number of reports for selected diseases have been compared with a 5 year mean, calculated using December to February data for the previous 5 years (Figure 6).

There were 1,559 reports received by the *CDI*/Virology and Serology Laboratory Reporting Scheme (LabVISE) in the 4 week period, 27 January to 23 February 2000 (Tables 5 and 6).

The Australian Sentinel Practice Research Network (ASPREN) data for weeks 4 to 7, ending 20 February 2000, are included in this issue of *CDI* (Table 7).

**Table 1. Notifications of diseases preventable by vaccines recommended by the NHMRC for routine childhood vaccination, received by State and Territory health authorities in the period 1 to 31 January 2000, by date of onset**

| Disease <sup>1</sup>                  | ACT | NSW | NT | Qld | SA | Tas | Vic | WA | Total Jan 2000 <sup>2</sup> | Total Dec 1999 <sup>2</sup> | Total Jan 1999 <sup>2</sup> | Last 5 years mean |
|---------------------------------------|-----|-----|----|-----|----|-----|-----|----|-----------------------------|-----------------------------|-----------------------------|-------------------|
| Diphtheria                            | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 0  | 0                           | 0                           | 0                           | 0                 |
| <i>H. influenzae</i> type b infection | 0   | 1   | 0  | 1   | 0  | 0   | 0   | 1  | 3                           | 3                           | 4                           | 5                 |
| Measles                               | 0   | 2   | 0  | 2   | 0  | 0   | 4   | 0  | 8                           | 4                           | 10                          | 82                |
| Mumps                                 | 2   | 2   | 0  | 0   | 2  | 0   | 3   | 4  | 13                          | 11                          | 9                           | 11                |
| Pertussis                             | 8   | 129 | 1  | 85  | 18 | 45  | 86  | 4  | 376                         | 415                         | 350                         | 580               |
| Rubella <sup>3</sup>                  | 0   | 4   | 0  | 6   | 1  | 0   | 5   | 1  | 17                          | 17                          | 27                          | 191               |
| Tetanus                               | 0   | 0   | 0  | 1   | 0  | 0   | 0   | 0  | 1                           | 0                           | 0                           | 1                 |

1. No notification of poliomyelitis has been received since 1978.
2. Totals comprise data from all States and Territories. Cumulative figures are subject to retrospective revision, so there may be

discrepancies between the number of new notifications and the increment in the cumulative figure from the previous period.

3. Includes congenital rubella.

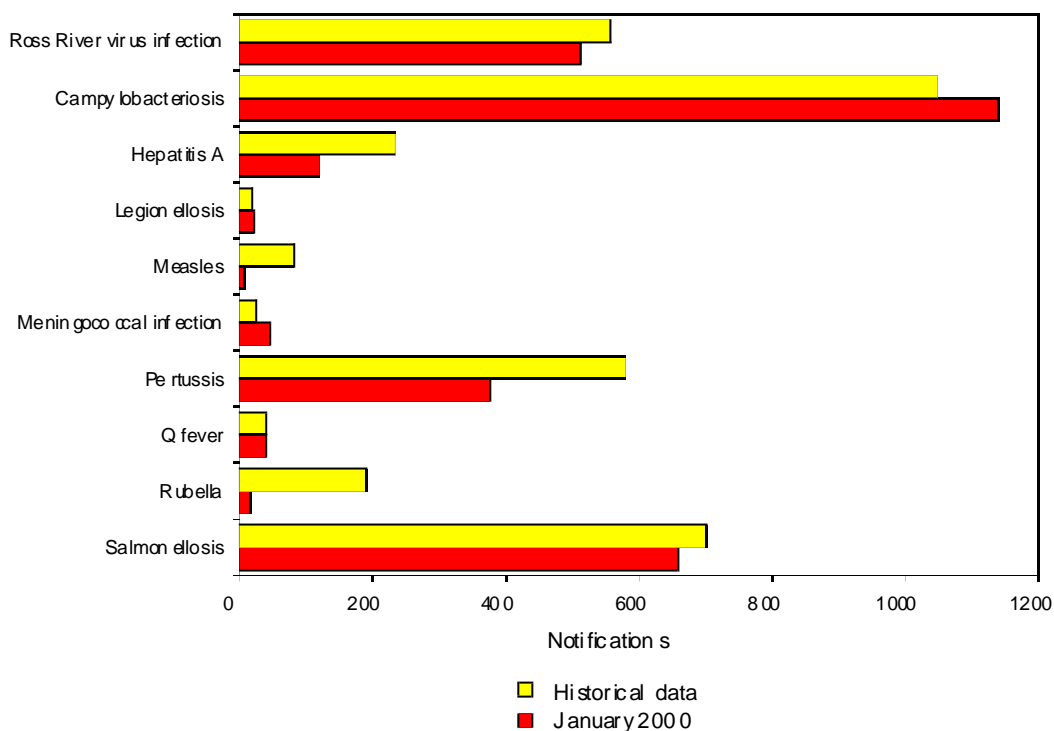
**Table 2. Notifications of diseases received by State and Territory health authorities in the period 1 to 31 January 2000, by date of onset**

| Disease <sup>1,2,3</sup>                | ACT | NSW | NT | Qld | SA  | Tas | Vic | WA  | Total Jan 2000 <sup>4</sup> | Total Dec 1999 <sup>4</sup> | Total Jan 1999 <sup>4</sup> | Last 5 years mean |
|---|-----|-----|----|-----|-----|-----|-----|-----|-----------------------------|-----------------------------|-----------------------------|-------------------|
| Arbovirus infection (NEC)               | 0   | 0   | 0  | 0   | 0   | 0   | 3   | 0   | 3                           | 0                           | 18                          | 9                 |
| Barmah Forest virus infection           | 0   | 15  | 1  | 26  | 0   | 0   | 3   | 5   | 50                          | 38                          | 57                          | 59                |
| Brucellosis                             | 0   | 0   | 0  | 2   | 0   | 0   | 0   | 0   | 2                           | 3                           | 1                           | 4                 |
| Campylobacteriosis <sup>5</sup>         | 19  | 0   | 17 | 363 | 162 | 39  | 417 | 123 | 1,140                       | 980                         | 1,109                       | 1,048             |
| Chancroid                               | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 0                           | 0                           | 0                           | 0                 |
| Chlamydial infection (NEC) <sup>6</sup> | 19  | 201 | 73 | 360 | 78  | 26  | 231 | 147 | 1,135                       | 936                         | 1,049                       | 757               |
| Cholera                                 | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 0                           | 1                           | 1                           | 1                 |
| Dengue                                  | 0   | 3   | 17 | 22  | 1   | 0   | 0   | 4   | 47                          | 23                          | 31                          | 33                |
| Donovanosis                             | 0   | 0   | 4  | 1   | NN  | 0   | 0   | 0   | 5                           | 0                           | 4                           | 5                 |
| Gonococcal infection <sup>7</sup>       | 2   | 100 | 77 | 106 | 19  | 3   | 89  | 109 | 505                         | 323                         | 481                         | 373               |
| Haemolytic uraemic syndrome             | NN  | 1   | 0  | 0   | 0   | 0   | NN  | 0   | 1                           | 2                           | 1                           | 3                 |
| Hepatitis A                             | 0   | 29  | 14 | 13  | 7   | 0   | 29  | 28  | 120                         | 98                          | 128                         | 234               |
| Hepatitis B incident                    | 2   | 6   | 5  | 3   | 1   | 0   | 4   | 7   | 28                          | 33                          | 30                          | 23                |
| Hepatitis B unspecified <sup>8</sup>    | 2   | 256 | 0  | 59  | 0   | 3   | 129 | 76  | 525                         | 446                         | 568                         | 503               |
| Hepatitis C incident                    | 2   | 3   | 0  | 0   | 3   | 0   | 3   | 2   | 13                          | 26                          | 24                          | 12                |
| Hepatitis C unspecified <sup>8</sup>    | 20  | 556 | 12 | 294 | 66  | 32  | 374 | 126 | 1,480                       | 1,311                       | 1,577                       | 1,203             |
| Hepatitis (NEC) <sup>9</sup>            | 0   | 0   | 0  | 0   | 0   | 0   | 0   | NN  | 0                           | 1                           | 0                           | 2                 |
| Hydatid infection                       | 0   | NN  | 0  | 0   | 0   | 0   | 2   | 0   | 2                           | 4                           | 2                           | 3                 |
| Legionellosis                           | 0   | 1   | 0  | 3   | 2   | 0   | 13  | 3   | 22                          | 15                          | 24                          | 19                |
| Leprosy                                 | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 0                           | 1                           | 0                           | 2                 |
| Leptospirosis                           | 0   | 3   | 0  | 10  | 0   | 0   | 6   | 0   | 19                          | 19                          | 30                          | 16                |
| Listeriosis                             | 0   | 2   | 1  | 2   | 1   | 0   | 1   | 3   | 10                          | 5                           | 6                           | 7                 |
| Malaria                                 | 2   | 18  | 4  | 39  | 1   | 0   | 8   | 1   | 73                          | 50                          | 70                          | 75                |
| Meningococcal infection                 | 0   | 19  | 0  | 4   | 1   | 3   | 15  | 4   | 46                          | 43                          | 39                          | 25                |
| Ornithosis                              | 0   | NN  | 0  | NN  | 0   | 0   | 4   | 1   | 5                           | 7                           | 5                           | 8                 |
| Q Fever                                 | 0   | 14  | 0  | 25  | 0   | 0   | 1   | 0   | 40                          | 41                          | 35                          | 40                |
| Ross River virus infection              | 1   | 31  | 40 | 277 | 15  | 0   | 10  | 138 | 512                         | 242                         | 519                         | 558               |
| Salmonellosis (NEC)                     | 29  | 114 | 34 | 196 | 49  | 16  | 111 | 110 | 659                         | 462                         | 852                         | 702               |
| Shigellosis <sup>5</sup>                | 0   | 0   | 11 | 8   | 3   | 0   | 7   | 11  | 40                          | 30                          | 50                          | 64                |
| SLTEC, VTEC <sup>10</sup>               | NN  | 0   | 0  | NN  | 4   | 0   | NN  | NN  | 4                           | 6                           | 4                           | 3                 |
| Syphilis <sup>11</sup>                  | 0   | 56  | 17 | 49  | 0   | 1   | 0   | 2   | 125                         | 85                          | 163                         | 135               |
| Tuberculosis                            | 1   | 30  | 2  | 9   | 0   | 2   | 0   | 4   | 48                          | 71                          | 95                          | 121               |
| Typhoid <sup>12</sup>                   | 0   | 5   | 0  | 0   | 0   | 0   | 1   | 1   | 7                           | 6                           | 7                           | 10                |
| Yersiniosis (NEC) <sup>5</sup>          | 0   | 0   | 0  | 6   | 2   | 0   | 0   | 0   | 8                           | 7                           | 27                          | 28                |

1. Diseases preventable by routine childhood vaccination are presented in Table 1 (by date of onset).  
 2. For HIV and AIDS, see Tables 8 and 9.  
 3. No notifications have been received during 2000 for the following rare diseases: lymphogranuloma venereum, plague, rabies, yellow fever, or other viral haemorrhagic fevers.  
 4. Totals comprise data from all States and Territories. Cumulative figures are subject to retrospective revision so there may be discrepancies between the number of new notifications and the increment in the cumulative figure from the previous period.  
 5. Not reported for NSW because it is only notifiable as 'foodborne disease' or 'gastroenteritis in an institution'.  
 6. WA: genital only.  
 7. NT, Qld, SA, Vic and WA: includes gonococcal neonatal ophthalmia.

8. Unspecified numbers should be interpreted with some caution as the magnitude may be a reflection of the numbers of testings being carried out.  
 9. Includes hepatitis D and E.  
 10. Infections with *Shiga*-like toxin (verotoxin) producing *E. Coli* (SLTEC/VTEC).  
 11. Includes congenital syphilis.  
 12. NSW, Qld: includes paratyphoid.  
 NN Not Notifiable.  
 NEC Not Elsewhere Classified.  
 - Elsewhere Classified.

**Figure 6. Selected diseases from the National Notifiable Diseases Surveillance System, and historical data,<sup>1</sup> by date of onset**



1. The historical data are a 5 year mean, calculated using December to February data for the previous 5 years (1994/95 to 1998/99).

**Table 3. Notifications of diseases preventable by vaccines recommended by the NHMRC for routine childhood vaccination, received by State and Territory health authorities in the period 2 to 29 February 2000, by date of report**

| Disease <sup>1</sup>                  |     |     |    |     |    |     |     |    | This period       | This period       | Year to           | Year to |
|---------------------------------------|-----|-----|----|-----|----|-----|-----|----|-------------------|-------------------|-------------------|---------|
|                                       | ACT | NSW | NT | Qld | SA | Tas | Vic | WA | 2000 <sup>2</sup> | 1999 <sup>2</sup> | date              | date    |
|                                       |     |     |    |     |    |     |     |    | 2000 <sup>2</sup> | 1999              | 2000 <sup>2</sup> | 1999    |
| Diphtheria                            | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 0  | 0                 | 0                 | 0                 | 0       |
| <i>H. influenzae</i> type b infection | 0   | 1   | 0  | 0   | 0  | 0   | 0   | 1  | 2                 | 4                 | 4                 | 8       |
| Measles                               | 1   | 2   | 0  | 5   | 0  | 0   | 1   | 0  | 9                 | 14                | 20                | 21      |
| Mumps                                 | 3   | 1   | 1  | 0   | 1  | 0   | 3   | 6  | 15                | 13                | 30                | 17      |
| Pertussis                             | 14  | 148 | 2  | 48  | 24 | 30  | 81  | 5  | 352               | 317               | 788               | 715     |
| Rubella <sup>3</sup>                  | 0   | 3   | 0  | 3   | 0  | 0   | 4   | 0  | 10                | 25                | 33                | 54      |
| Tetanus                               | 0   | 0   | 0  | 1   | 1  | 0   | 0   | 0  | 2                 | 0                 | 2                 | 0       |

1. No notification of poliomyelitis has been received since 1978.

2. Totals comprise data from all States and Territories. Cumulative figures are subject to retrospective revision, so there may be

discrepancies between the number of new notifications and the increment in the cumulative figure from the previous period.

3. Includes congenital rubella.

**Table 4. Notifications of diseases received by State and Territory health authorities in the period 2 to 29 February 2000, by date of report**

| Disease <sup>1,2,3</sup>                | ACT | NSW | NT | Qld | SA  | Tas | Vic | WA  | This period 2000 <sup>4</sup> | This period 1999 <sup>4</sup> | Year to date 2000 <sup>4</sup> | Year to date 1999 |
|---|-----|-----|----|-----|-----|-----|-----|-----|-------------------------------|-------------------------------|--------------------------------|-------------------|
| Arbovirus infection (NEC)               | 0   | 0   | 0  | 0   | 0   | 0   | 7   | 0   | 7                             | 22                            | 9                              | 43                |
| Barmah Forest virus infection           | 0   | 13  | 0  | 25  | 0   | 0   | 3   | 8   | 49                            | 64                            | 97                             | 113               |
| Brucellosis                             | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 0                             | 1                             | 3                              | 4                 |
| Campylobacteriosis <sup>5</sup>         | 21  | -   | 10 | 287 | 130 | 16  | 363 | 118 | 945                           | 969                           | 2,152                          | 2,237             |
| Chancroid                               | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 0                             | 0                             | 0                              | 0                 |
| Chlamydial infection (NEC) <sup>6</sup> | 25  | 161 | 64 | 328 | 83  | 31  | 288 | 162 | 1,142                         | 1,039                         | 2,404                          | 2,053             |
| Cholera                                 | 0   | 1   | 0  | 0   | 0   | 0   | 0   | 0   | 1                             | 1                             | 1                              | 1                 |
| Dengue                                  | 0   | 1   | 15 | 29  | 1   | 0   | 1   | 4   | 51                            | 8                             | 93                             | 69                |
| Donovanosis                             | 0   | 0   | 2  | 0   | NN  | 0   | 0   | 0   | 2                             | 2                             | 5                              | 5                 |
| Gonococcal infection <sup>7</sup>       | 1   | 70  | 88 | 76  | 17  | 0   | 63  | 91  | 406                           | 432                           | 955                            | 905               |
| Haemolytic uraemic syndrome             | NN  | 1   | 0  | 0   | 0   | 0   | NN  | 0   | 1                             | 5                             | 2                              | 5                 |
| Hepatitis A                             | 0   | 14  | 9  | 18  | 6   | 0   | 18  | 30  | 95                            | 159                           | 220                            | 310               |
| Hepatitis B incident                    | 1   | 5   | 0  | 4   | 1   | 0   | 1   | 3   | 15                            | 29                            | 52                             | 58                |
| Hepatitis B unspecified <sup>8</sup>    | 6   | 217 | 0  | 54  | 0   | 2   | 11  | 93  | 383                           | 513                           | 996                            | 1,041             |
| Hepatitis C incident                    | 1   | 2   | 0  | -   | 8   | 0   | 1   | 10  | 22                            | 24                            | 46                             | 50                |
| Hepatitis C unspecified <sup>8</sup>    | 25  | 583 | 13 | 246 | 87  | 31  | 307 | 149 | 1,442                         | 1,581                         | 3,126                          | 3,191             |
| Hepatitis (NEC) <sup>9</sup>            | 0   | 0   | 0  | 0   | 0   | 0   | 0   | NN  | 0                             | 0                             | 0                              | 0                 |
| Hydatid infection                       | 0   | NN  | 0  | 2   | 0   | 0   | 1   | 0   | 3                             | 1                             | 5                              | 4                 |
| Legionellosis                           | 0   | 1   | 0  | 5   | 1   | 0   | 20  | 3   | 30                            | 30                            | 47                             | 49                |
| Leprosy                                 | 0   | 0   | 0  | 0   | 0   | 0   | 0   | 0   | 0                             | 0                             | 0                              | 0                 |
| Leptospirosis                           | 0   | 3   | 0  | 8   | 0   | 0   | 2   | 0   | 13                            | 29                            | 33                             | 61                |
| Listeriosis                             | 0   | 0   | 0  | 3   | 2   | 0   | 1   | 0   | 6                             | 2                             | 15                             | 8                 |
| Malaria                                 | 0   | 3   | 7  | 45  | 1   | 1   | 15  | 2   | 74                            | 94                            | 147                            | 155               |
| Meningococcal infection                 | 0   | 9   | 1  | 2   | 0   | 0   | 4   | 5   | 21                            | 14                            | 77                             | 53                |
| Ornithosis                              | 0   | NN  | 0  | NN  | 1   | 0   | 10  | 0   | 11                            | 6                             | 16                             | 14                |
| Q Fever                                 | 0   | 7   | 0  | 35  | 1   | 0   | 1   | 2   | 46                            | 34                            | 95                             | 80                |
| Ross River virus infection              | 0   | 36  | 29 | 274 | 34  | 0   | 40  | 153 | 566                           | 632                           | 1,062                          | 1,086             |
| Salmonellosis (NEC)                     | 9   | 86  | 33 | 207 | 31  | 12  | 122 | 90  | 590                           | 794                           | 1,292                          | 1,682             |
| Shigellosis <sup>5</sup>                | 0   | -   | 7  | 8   | 2   | 1   | 8   | 11  | 37                            | 38                            | 77                             | 91                |
| SLTEC, VTEC <sup>10</sup>               | NN  | 0   | 0  | NN  | 4   | 0   | NN  | NN  | 4                             | 3                             | 10                             | 7                 |
| Syphilis <sup>11</sup>                  | 1   | 40  | 18 | 59  | 0   | 0   | 0   | 5   | 123                           | 145                           | 276                            | 286               |
| Tuberculosis                            | 1   | 23  | 11 | 11  | 0   | 0   | 0   | 1   | 47                            | 65                            | 106                            | 132               |
| Typhoid <sup>12</sup>                   | 0   | 3   | 0  | 1   | 0   | 0   | 3   | 0   | 7                             | 9                             | 17                             | 13                |
| Yersiniosis (NEC) <sup>5</sup>          | 0   | -   | 0  | 3   | 4   | 0   | 1   | 0   | 8                             | 16                            | 17                             | 41                |

1. Diseases preventable by routine childhood vaccination are presented in Table 3 (by date of report).

2. For HIV and AIDS, see Tables 8 and 9.

3. No notifications have been received during 2000 for the following rare diseases: lymphogranuloma venereum, plague, rabies, yellow fever, or other viral haemorrhagic fevers.

4. Totals comprise data from all States and Territories. Cumulative figures are subject to retrospective revision so there may be discrepancies between the number of new notifications and the increment in the cumulative figure from the previous period.

5. Not reported for NSW because it is only notifiable as 'foodborne disease' or 'gastroenteritis in an institution'.

6. WA: genital only.

7. NT, Qld, SA, Vic and WA: includes gonococcal neonatal ophthalmia.

8. Unspecified numbers should be interpreted with some caution as the magnitude may be a reflection of the numbers of testings being carried out.

9. Includes hepatitis D and E.

10. Infections with *Shiga*-like toxin (verotoxin) producing *E. Coli* (SLTEC/VTEC).

11. Includes congenital syphilis.

12. NSW, Qld: includes paratyphoid.

NN Not Notifiable.

NEC Not Elsewhere Classified.

- Elsewhere Classified.

Table 5. Virology and serology laboratory reports by State or Territory<sup>1</sup> for the reporting period 27 January to 23 February 2000, and total reports for the year<sup>2</sup>

|                                | State or Territory <sup>1</sup> |     |    |     |    |     |     |    | This period 2000 <sup>3</sup> | This period 1999 <sup>3</sup> | Year to date 2000 <sup>3</sup> | Year to date 1999 |
|--------------------------------|---------------------------------|-----|----|-----|----|-----|-----|----|-------------------------------|-------------------------------|--------------------------------|-------------------|
|                                | ACT                             | NSW | NT | Qld | SA | Tas | Vic | WA |                               |                               |                                |                   |
| <b>Measles, mumps, rubella</b> |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Measles virus                  | 0                               | 0   | 0  | 0   | 0  | 0   | 2   | 0  | 2                             | 2                             | 8                              | 6                 |
| Mumps virus                    | 0                               | 0   | 0  | 0   | 0  | 0   | 0   | 6  | 6                             | 6                             | 11                             | 9                 |
| Rubella virus                  | 0                               | 0   | 0  | 0   | 0  | 0   | 1   | 0  | 1                             | 7                             | 7                              | 11                |
| <b>Hepatitis viruses</b>       |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Hepatitis A virus              | 0                               | 0   | 3  | 5   | 5  | 0   | 0   | 6  | 19                            | 39                            | 40                             | 75                |
| <b>Arboviruses</b>             |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Ross River virus               | 1                               | 4   | 17 | 75  | 24 | 0   | 0   | 62 | 183                           | 162                           | 341                            | 290               |
| Barmah Forest virus            | 0                               | 0   | 2  | 19  | 0  | 0   | 0   | 4  | 25                            | 6                             | 46                             | 26                |
| Dengue not typed               | 0                               | 1   | 14 | 1   | 0  | 0   | 0   | 25 | 41                            | 1                             | 88                             | 8                 |
| Flavivirus (unspecified)       | 0                               | 0   | 1  | 14  | 0  | 0   | 3   | 0  | 18                            | 2                             | 20                             | 11                |
| <b>Adenoviruses</b>            |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Adenovirus type 1              | 0                               | 1   | 0  | 0   | 0  | 0   | 0   | 0  | 1                             | 1                             | 1                              | 1                 |
| Adenovirus type 3              | 0                               | 0   | 0  | 0   | 2  | 0   | 0   | 0  | 2                             | 4                             | 5                              | 6                 |
| Adenovirus type 4              | 0                               | 0   | 0  | 0   | 1  | 0   | 0   | 0  | 1                             | 2                             | 1                              | 4                 |
| Adenovirus type 40             | 0                               | 0   | 0  | 0   | 0  | 0   | 0   | 6  | 6                             | 1                             | 9                              | 7                 |
| Adenovirus not typed/pending   | 0                               | 7   | 0  | 2   | 25 | 0   | 9   | 45 | 88                            | 56                            | 172                            | 150               |
| <b>Herpes viruses</b>          |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Herpes virus type 6            | 0                               | 0   | 0  | 0   | 0  | 0   | 0   | 1  | 1                             | 0                             | 2                              | 0                 |
| Cytomegalovirus                | 1                               | 10  | 0  | 24  | 47 | 2   | 9   | 12 | 105                           | 72                            | 206                            | 176               |
| Varicella-zoster virus         | 0                               | 11  | 1  | 40  | 8  | 4   | 32  | 41 | 137                           | 122                           | 270                            | 299               |
| Epstein-Barr virus             | 0                               | 5   | 1  | 83  | 80 | 1   | 6   | 25 | 201                           | 153                           | 388                            | 411               |
| <b>Other DNA viruses</b>       |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Papovavirus group              | 0                               | 0   | 0  | 0   | 0  | 0   | 0   | 4  | 4                             | 0                             | 4                              | 0                 |
| Molluscum contagiosum          | 0                               | 0   | 0  | 0   | 0  | 0   | 0   | 1  | 1                             | 2                             | 3                              | 3                 |
| Parvovirus                     | 1                               | 0   | 0  | 0   | 0  | 0   | 12  | 20 | 33                            | 33                            | 57                             | 65                |
| <b>Picornavirus family</b>     |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Rhinovirus (all types)         | 0                               | 5   | 0  | 0   | 0  | 0   | 1   | 8  | 14                            | 17                            | 32                             | 37                |
| Enterovirus not typed/pending  | 0                               | 1   | 1  | 3   | 0  | 0   | 9   | 24 | 38                            | 52                            | 85                             | 99                |
| <b>Ortho/paramyxoviruses</b>   |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| Influenza A virus              | 2                               | 3   | 1  | 3   | 10 | 0   | 7   | 25 | 51                            | 15                            | 131                            | 65                |
| Influenza B virus              | 0                               | 0   | 0  | 0   | 4  | 0   | 0   | 6  | 10                            | 5                             | 14                             | 15                |
| Parainfluenza virus type 1     | 0                               | 2   | 0  | 0   | 0  | 0   | 0   | 3  | 5                             | 3                             | 13                             | 5                 |
| Parainfluenza virus type 2     | 0                               | 0   | 0  | 0   | 2  | 0   | 0   | 0  | 2                             |                               | 2                              | 4                 |
| Parainfluenza virus type 3     | 0                               | 0   | 0  | 0   | 9  | 2   | 0   | 9  | 20                            | 18                            | 54                             | 79                |
| Respiratory syncytial virus    | 2                               | 7   | 1  | 8   | 1  | 0   | 8   | 27 | 54                            | 44                            | 98                             | 84                |
| <b>Other RNA viruses</b>       |                                 |     |    |     |    |     |     |    |                               |                               |                                |                   |
| HTLV-1                         | 0                               | 0   | 0  | 0   | 0  | 0   | 0   | 2  | 2                             | 0                             | 2                              | 0                 |
| Rotavirus                      | 1                               | 11  | 0  | 0   | 17 | 2   | 3   | 1  | 35                            | 30                            | 89                             | 91                |
| Reovirus (unspecified)         | 0                               | 1   | 0  | 0   | 0  | 0   | 0   | 0  | 1                             | 0                             | 1                              | 0                 |

**Table 5. Virology and serology laboratory reports by State or Territory<sup>1</sup> for the reporting period 27 January to 23 February 2000, and total reports for the year<sup>2</sup> (continued)**

|  | State or Territory <sup>1</sup> |     |    |     |     |     |     |     | This period<br>2000 <sup>3</sup> | This period<br>1999 <sup>3</sup> | Year to<br>date<br>2000 <sup>3</sup> | Year<br>to date<br>1999 |
|--|---------------------------------|-----|----|-----|-----|-----|-----|-----|----------------------------------|----------------------------------|--------------------------------------|-------------------------|
|  | ACT                             | NSW | NT | Qld | SA  | Tas | Vic | WA  |                                  |                                  |                                      |                         |
| <b>Other</b>                           |                                 |     |    |     |     |     |     |     |                                  |                                  |                                      |                         |
| <i>Chlamydia trachomatis</i> not typed | 5                               | 25  | 25 | 90  | 37  | 1   | 4   | 82  | 269                              | 231                              | 518                                  | 462                     |
| <i>Chlamydia psittaci</i>              | 0                               | 0   | 0  | 0   | 0   | 0   | 6   | 1   | 7                                | 7                                | 12                                   | 13                      |
| <i>Chlamydia</i> species               | 0                               | 2   | 0  | 0   | 0   | 0   | 0   | 0   | 2                                | 1                                | 2                                    | 1                       |
| <i>Mycoplasma pneumoniae</i>           | 0                               | 0   | 0  | 21  | 3   | 0   | 9   | 6   | 39                               | 87                               | 97                                   | 198                     |
| <i>Coxiella burnetii</i> (Q fever)     | 0                               | 2   | 0  | 4   | 0   | 0   | 1   | 1   | 8                                | 15                               | 18                                   | 27                      |
| <i>Streptococcus</i> group A           | 0                               | 6   | 8  | 25  | 0   | 0   | 0   | 0   | 39                               | 0                                | 80                                   | 0                       |
| <i>Bordetella pertussis</i>            | 0                               | 3   | 0  | 10  | 3   | 0   | 25  | 1   | 42                               | 39                               | 119                                  | 93                      |
| <i>Legionella pneumophila</i>          | 0                               | 0   | 0  | 0   | 0   | 0   | 1   | 0   | 1                                | 5                                | 1                                    | 8                       |
| <i>Legionella longbeachae</i>          | 0                               | 0   | 0  | 0   | 0   | 0   | 0   | 3   | 3                                | 1                                | 9                                    | 9                       |
| <i>Leptospira</i> species              | 0                               | 0   | 0  | 2   | 0   | 0   | 0   | 0   | 2                                | 0                                | 5                                    | 0                       |
| <i>Treponema pallidum</i>              | 0                               | 1   | 11 | 24  | 0   | 0   | 0   | 1   | 37                               | 0                                | 87                                   | 0                       |
| <i>Entamoeba histolytica</i>           | 0                               | 0   | 0  | 1   | 0   | 0   | 0   | 2   | 3                                | 0                                | 6                                    | 0                       |
| <b>Total</b>                           | 13                              | 108 | 86 | 454 | 278 | 12  | 148 | 460 | 1,559                            | 1,241                            | 3,154                                | 2,848                   |

1. State or Territory of postcode, if reported, otherwise State or Territory of reporting laboratory.
  2. From January 2000 data presented are for reports with report dates in the current period. Previously reports included all data received in that period.
  3. Totals comprise data from all laboratories. Cumulative figures are subject to retrospective revision, so there may be discrepancies between the number of new notifications and the increment in the cumulative figure from the previous period.
- No data received this period.

**Table 6. Virology and serology laboratory reports by contributing laboratories for the reporting period 27 January to 23 February 2000**

| State or Territory           | Laboratory  | This period | Total this period <sup>2</sup> |
|------------------------------|---|-------------|--------------------------------|
| Australian Capital Territory | The Canberra Hospital   | 0           | 0                              |
| New South Wales              | Institute of Clinical Pathology & Medical Research, Westmead  | 49          | 182                            |
|                              | New Children's Hospital, Westmead                             | 18          | 22                             |
| New South Wales              | Repatriation General Hospital, Concord                        | 0           | 0                              |
|                              | Royal Prince Alfred Hospital, Camperdown                      | 19          | 24                             |
|                              | South West Area Pathology Service, Liverpool                  | 0           | 0                              |
| Queensland                   | Queensland Medical Laboratory, West End                       | 529         | 532                            |
|                              | Townsville General Hospital                                   | 7           | 8                              |
| South Australia              | Institute of Medical and Veterinary Science, Adelaide         | 277         | 313                            |
| Tasmania                     | Northern Tasmanian Pathology Service, Launceston              | 6           | 9                              |
|                              | Royal Hobart Hospital, Hobart                                 | 0           | 0                              |
| Victoria                     | Monash Medical Centre, Melbourne                              | 22          | 52                             |
|                              | Royal Children's Hospital, Melbourne                          | 42          | 55                             |
|                              | Victorian Infectious Diseases Reference Laboratory, Fairfield | 92          | 210                            |
| Western Australia            | PathCentre Virology, Perth                                    | 468         | 505                            |
|                              | Princess Margaret Hospital, Perth                             | 30          | 32                             |
|                              | Western Diagnostic Pathology                                  | 0           | 0                              |
| <b>Total</b>                 |   | 1,559       | 1,944                          |

1. The complete list of laboratories reporting for the 12 months, January to December 2000, will appear in every report from January 2000 regardless of whether reports were received in this reporting period. Reports are not always received from all laboratories.
2. Total reports include both reports for the current period and outstanding reports to date.

Table 7. Australian Sentinel Practice Research Network reports, weeks 4 to 7, 2000

| Week number                        | 4               |            | 5               |            | 6                |            | 7                |            |
|------------------------------------|-----------------|------------|-----------------|------------|------------------|------------|------------------|------------|
| Week ending on                     | 30 January 2000 |            | 6 February 2000 |            | 13 February 2000 |            | 20 February 2000 |            |
| Doctors reporting                  | 63              |            | 65              |            | 66               |            | 65               |            |
| Total encounters                   | 6,713           |            | 7,636           |            | 8,684            |            | 8,135            |            |
| Condition                          | Rate per 1,000  |            | Rate per 1,000  |            | Rate per 1,000   |            | Rate per 1,000   |            |
|                                    | Reports         | encounters | Reports         | encounters | Reports          | encounters | Reports          | encounters |
| Influenza                          | 10              | 1.5        | 10              | 1.3        | 13               | 1.5        | 16               | 2.0        |
| Chickenpox                         | 9               | 1.3        | 12              | 1.6        | 14               | 1.6        | 9                | 1.1        |
| Gastroenteritis                    | 76              | 11.3       | 65              | 8.5        | 95               | 10.9       | 74               | 9.1        |
| Gastroenteritis with stool culture | 11              | 1.6        | 17              | 2.2        | 14               | 1.6        | 13               | 1.6        |
| ADT immunisations                  | 54              | 8.0        | 44              | 5.8        | 64               | 7.4        | 74               | 9.1        |

The NNDSS is conducted under the auspices of the Communicable Diseases Network Australia New Zealand. The system coordinates the national surveillance of more than 40 communicable diseases or disease groups endorsed by the National Health and Medical Research Council (NHMRC). Notifications of these diseases are made to State and Territory health authorities under the provisions of their respective public health legislations. De-identified core unit data are supplied fortnightly for collation, analysis and dissemination. For further information, see CDI 2000;24:6.

LabVISE is a sentinel reporting scheme. Currently 17 laboratories contribute data on the laboratory identification of viruses and other organisms. This number may change throughout the year. Data are collated and published in Communicable Diseases Intelligence every four weeks. These data should be interpreted with caution as the number and type of reports received is subject to a number of biases. For further information, see CDI 2000;24:10.

ASPREN currently comprises about 120 general practitioners from throughout the country. Between 7,000 and 8,000 consultations are reported each week, with special attention to 14 conditions chosen for sentinel surveillance in 2000. CDI reports the consultation rates for five of these. For further information, including case definitions, see CDI 2000;24:7-8.

## Additional Reports

### Gonococcal surveillance

John Tapsall, The Prince of Wales Hospital, Randwick, NSW, 2031 for the Australian Gonococcal Surveillance Programme.

The Australian Gonococcal Surveillance Programme (AGSP) reference laboratories in the various States and Territories report data on sensitivity to an agreed 'core' group of antimicrobial agents quarterly. The antibiotics that are currently routinely surveyed are penicillin, ceftriaxone, ciprofloxacin and spectinomycin, all of which are administered as single dose regimens and currently used in Australia to treat gonorrhoea. When *in vitro* resistance to a recommended agent is demonstrated in 5% or more of isolates from a general population, it is usual to remove that agent from the list of recommended treatments.<sup>1</sup> Additional data are also provided on other antibiotics from time to time. At present all laboratories also test isolates for the presence of high level (plasmid-mediated) resistance to the tetracyclines, known as TRNG. Tetracyclines are however not a recommended therapy for gonorrhoea in Australia. Comparability of data is achieved by means of a standardised system of testing and a programme-specific quality assurance process. Because

of the substantial geographic differences in susceptibility patterns in Australia, regional as well as aggregated data are presented.

#### Reporting period 1 July to 30 September 1999

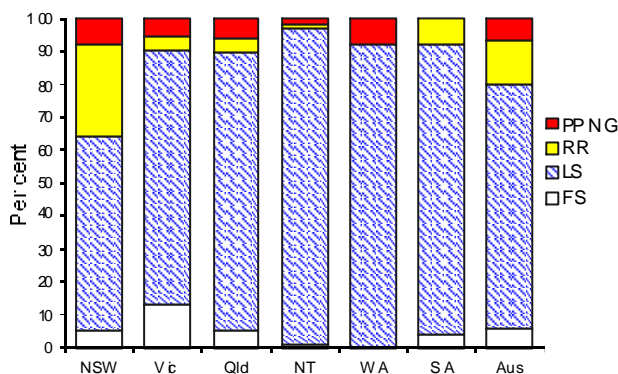
The AGSP laboratories examined a total of 859 isolates in this quarter. About 40% of this total was from New South Wales, 20% each from Victoria and Queensland, 10% from the Northern Territory and Western Australia and 3% from South Australia. Isolates from other centres were few in number.

#### Penicillins

Figure 6 shows the proportions of gonococci fully sensitive ( $MIC \leq 0.03$  mg/L), less sensitive ( $MIC 0.06 - 0.5$  mg/L), relatively resistant ( $MIC \geq 1$  mg/L) or penicillinase producing (PPNG) aggregated for Australia and by State and Territory. A high proportion of PPNG and relatively resistant strains fail to respond to treatment with penicillins (penicillin, amoxycillin, ampicillin) and early generation cephalosporins.

Twenty per cent of all isolates were penicillin resistant by one or more mechanisms. The penicillin-resistant isolates

**Figure 6. Penicillin resistance of gonococcal isolates, 1 July to 30 September 1999, by region**



FS Fully sensitive to penicillin, MIC  $\leq$  0.03 mg/L

LS Less sensitive to penicillin, MIC 0.06 – 0.5 mg/L

RR Relatively resistant to penicillin, MIC  $\geq$  1 mg/L

PPNG Penicillinase producing *Neisseria gonorrhoeae*

comprised about one-third of all isolates in New South Wales and 8-10% of gonococci in Queensland, Victoria, South Australia and Western Australia. In the Northern Territory, 3% of isolates were penicillin resistant.

PPNG were present in all States and Territories in this quarter with the exception of South Australia. The number of PPNG isolated across Australia (56) increased in this quarter compared to the corresponding period in 1998 (44). Half of all the PPNG were found in Sydney (28) and Perth had the highest proportion of PPNG (8%).

Acquisition data on PPNG, where available, suggested overseas contacts in Indonesia, the Philippines, Thailand, China and Singapore as sources of PPNG. In Perth, most PPNG were also TRNG, and Indonesia was a common source of acquisition. In New South Wales and Victoria local transmission of PPNG was noted.

The number of gonococci resistant to the penicillins by chromosomal mechanisms (CMRNG) was double that of PPNG, with the 115 CMRNG representing about 14% of stains tested. In the corresponding quarter in 1998 the number (217) and proportion (26%) of CMRNG were twice that in this period. CMRNG were present in all centres except Tasmania and Western Australia. More than a quarter of New South Wales isolates were CMRNG, but in most other centres they represented less than 5% of gonococci.

#### Ceftriaxone and spectinomycin

All isolates in Australia were again susceptible to these injectable agents.

#### Quinolone antibiotics

The total number (152) and proportion (18%) of isolates with altered susceptibility to the quinolone group (QRNG) remained high. The QRNG isolates were distributed widely, being present in all centres except Tasmania and South Australia. They were however, particularly concentrated in New South Wales and Victoria. Forty-four isolates (29%) were QRNG in Victoria and 93 (26%) in

New South Wales and together these accounted for 90% of all QRNG. Eighteen of the New South Wales and 5 of the Victorian QRNG exhibited high level resistance (MIC ciprofloxacin  $\geq$  1 mg/L) and MICs ranged up to 16mg/L. Most infections with this group of high level resistance QRNG were acquired overseas. However, the majority QRNG were in males, locally acquired and in the MIC range 0.06 – 0.5 mg/L. QRNG were also prominent in Brisbane where 7% of strains were of this type, again mainly in males and in the lower MIC range. Three QRNG were noted in Western Australia and one each in the Australian Capital Territory and Northern Territory.

In the corresponding period in 1998, the 37 QRNG represented about 4% of all isolates.

#### High level tetracycline resistance (TRNG)

The number (85) and proportion (10%) of TRNG detected also increased when comparisons were made with 1998 data (46 TRNG, 5.5%). TRNG were particularly prominent in Sydney, Melbourne, Brisbane and Perth with TRNG ranging between 8% and 11% of strains in those centres. One or two TRNG were present in Adelaide, the Northern Territory and Tasmania.

#### Reference

1. Anonymous. Management of sexually transmitted diseases. World Health Organization 1997; Document WHO/GPA/TEM94.1 Rev 1 p. 37.

#### HIV and AIDS Surveillance

*National surveillance for HIV disease is coordinated by the National Centre in HIV Epidemiology and Clinical Research (NCHECR), in collaboration with State and Territory health authorities and the Commonwealth of Australia. Cases of HIV infection are notified to the National HIV Database on the first occasion of diagnosis in Australia, by either the diagnosing laboratory (ACT, New South Wales, Tasmania, Victoria) or by a combination of laboratory and doctor sources (Northern Territory, Queensland, South Australia, Western Australia). Cases of AIDS are notified through the State and Territory health authorities to the National AIDS Registry. Diagnoses of both HIV infection and AIDS are notified with the person's date of birth and name code, to minimise duplicate notifications while maintaining confidentiality.*

*Tabulations of diagnoses of HIV infection and AIDS 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. More detailed information on diagnoses of HIV infection and AIDS is published in the quarterly Australian HIV Surveillance Report, and annually in HIV/AIDS and related diseases in Australia Annual Surveillance Report. The reports are available from the National Centre in HIV Epidemiology and Clinical Research, 376 Victoria Street, Darlinghurst NSW 2010. Telephone: (02) 9332 4648; Facsimile: (02) 9332 1837; <http://www.med.unsw.edu.au/nchechr>.*

*HIV and AIDS diagnoses and deaths following AIDS reported for 1 to 31 October 1999, as reported to 31 January 2000, are included in this issue of CDI (Tables 8 and 9).*

**Table 8. New diagnoses of HIV infection, new diagnoses of AIDS and deaths following AIDS occurring in the period 1 to 31 October 1999, by sex and State or Territory of diagnosis**

|                |                    |     |     |    |     |    |     |     |    | Totals for Australia |                  |                   |                   |
|----------------|--------------------|-----|-----|----|-----|----|-----|-----|----|----------------------|------------------|-------------------|-------------------|
|                |                    | ACT | NSW | NT | Qld | SA | Tas | Vic | WA | This period 1999     | This period 1998 | Year to date 1999 | Year to date 1998 |
| HIV diagnoses  | Female             | 0   | 0   | 1  | 3   | 0  | 0   | 0   | 0  | 4                    | 8                | 57                | 76                |
|                | Male               | 0   | 0   | 0  | 9   | 4  | 0   | 10  | 0  | 23                   | 46               | 465               | 524               |
|                | Sex not reported   | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 0  | 0                    | 0                | 4                 | 5                 |
|                | Total <sup>1</sup> | 0   | 0   | 1  | 12  | 4  | 0   | 10  | 0  | 27                   | 54               | 526               | 605               |
| AIDS diagnoses | Female             | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 0  | 0                    | 2                | 13                | 15                |
|                | Male               | 0   | 3   | 1  | 1   | 0  | 0   | 0   | 0  | 5                    | 13               | 100               | 240               |
|                | Total <sup>1</sup> | 0   | 3   | 1  | 1   | 0  | 0   | 0   | 0  | 5                    | 15               | 113               | 255               |
| AIDS deaths    | Female             | 0   | 0   | 0  | 0   | 0  | 0   | 0   | 0  | 0                    | 1                | 3                 | 8                 |
|                | Male               | 0   | 5   | 0  | 1   | 1  | 0   | 3   | 1  | 11                   | 10               | 80                | 123               |
|                | Total <sup>1</sup> | 0   | 5   | 0  | 1   | 1  | 0   | 3   | 1  | 11                   | 11               | 84                | 131               |

1. Persons whose sex was reported as transgender are included in the totals.

**Table 9. Cumulative diagnoses of HIV infection, AIDS and deaths following AIDS since the introduction of HIV antibody testing to 31 October 1999, by sex and State or Territory**

|                |                    | State or Territory |        |     |       |     |     |       |       | Australia |
|----------------|--------------------|--------------------|--------|-----|-------|-----|-----|-------|-------|-----------|
|                |                    | ACT                | NSW    | NT  | Qld   | SA  | Tas | Vic   | WA    |           |
| HIV diagnoses  | Female             | 25                 | 593    | 10  | 145   | 61  | 6   | 211   | 111   | 1,162     |
|                | Male               | 192                | 10,700 | 107 | 1,948 | 672 | 79  | 3,854 | 897   | 18,449    |
|                | Sex not reported   | 0                  | 260    | 0   | 0     | 0   | 0   | 24    | 0     | 284       |
|                | Total <sup>1</sup> | 217                | 11,572 | 117 | 2,100 | 733 | 85  | 4,102 | 1,011 | 19,937    |
| AIDS diagnoses | Female             | 8                  | 182    | 0   | 47    | 25  | 3   | 68    | 26    | 359       |
|                | Male               | 86                 | 4,607  | 36  | 807   | 345 | 44  | 1,601 | 344   | 7,870     |
|                | Total <sup>1</sup> | 94                 | 4,801  | 36  | 856   | 370 | 47  | 1,676 | 372   | 8,252     |
| AIDS deaths    | Female             | 3                  | 114    | 0   | 31    | 15  | 2   | 47    | 16    | 228       |
|                | Male               | 65                 | 3,164  | 24  | 561   | 230 | 28  | 1,256 | 246   | 5,574     |
|                | Total <sup>1</sup> | 68                 | 3,286  | 24  | 594   | 245 | 30  | 1,309 | 263   | 5,819     |

1. Persons whose sex was reported as transgender are included in the totals.