

# NSW Public Health Bulletin

Volume 15, Number 9–10  
September–October 2004



ISSN 1034 7674  
State Health Publication PH 040258

## YEAR IN REVIEW: COMMUNICABLE DISEASE SURVEILLANCE, 2003

In this issue, we review the trends in reports of notifiable diseases among NSW residents received by the NSW public health units for 2003. Readers interested in the details of notifications for specific diseases are referred to Tables 1–5 where diseases are reported by: year of onset, month of onset, rate per 100,000 population, number of cases by area health service, and number of cases by age group and sex. Table 6 shows the number of people with notifiable conditions who were reported to have died at the time of follow-up by their local public health unit.

### TRENDS

Among the 44,834 NSW residents with medical conditions notified by doctors, hospital staff, and laboratories for 2003:

#### Conditions most frequently reported

- chlamydiosis (7,562 cases [114.0/100,000 population], with the highest rates in Central Sydney, South Eastern Sydney, and Far West Area Health Services);
- hepatitis C (5,277 cases [79.5/100,000 population], with the highest rates in Central Sydney, Far West, and Northern Rivers Area Health Services);
- gastroenteritis in an institution (3,583 cases [54.0/100,000 population], with the highest rates in Central Sydney, Southern, and Far West Area Health Services);
- hepatitis B (2,949 cases [44.5/100,000 population], with the highest rates in Central Sydney and South Western Sydney and Western Sydney Area Health Services);
- pertussis (2,768 cases [41.7/100,000 population], with the highest rates in the Macquarie, Hunter, and Mid North Coast Health Area Health Services);
- *salmonella* infections (1,843 cases [27.8/100,000 population], with the highest rates in the Northern Rivers, Greater Murray, and New England Area Health Services).

#### Conditions with the most meaningful declines in notifications compared with previous years

- hepatitis C (5,277 cases notified);
- hepatitis A (124 cases notified);
- hepatitis B (2,949 cases notified);
- rubella (24 cases notified).

## CONTENTS

- 157 Year in Review: Communicable Disease Surveillance, 2003
- 168 A large outbreak of norovirus gastroenteritis linked to a catering company, New South Wales, October 2003
- 172 Risk factors for sporadic *Salmonella* Birkenhead infection in Queensland and Northern New South Wales: A case control study
- 178 A Review of *Salmonella* Surveillance in New South Wales, 1998–2000
- 182 Tobacco and Health Fact Sheet : Car and Home Smoke-free Zone
- 184 Communicable Diseases report, NSW, for July and August 2004
- 184 Trends
- 184 Hepatitis A in a Sydney food handler
- 184 Salmonellosis outbreak in a mid north coast residential facility

*continued on page 158*

## **Conditions with the most meaningful increases in notifications compared with previous years**

- chlamydiosis (7,562 cases, up from 5,649 in 2002) probably related to both better detection of cases through improved screening, and a real increase in disease transmission;
- foodborne illness (1,071 cases, up from 41 in 2002) probably due largely to improved detection and reporting;
- new HIV diagnoses (414 cases, up from 390 in 2002), a continuation of the increase that emerged in 2002, mainly among men who have sex with men;
- outbreaks of gastroenteritis in institutional settings (3,583 cases, up from 1,752 in 2002), probably due largely to improved detection and reporting;
- syphilis (838 cases, up from 648 in 2002), with new infections mainly among inner city men who have sex with men.

## **Conditions least frequently reported**

In 2003, there were no reported cases of botulism, cholera, chancroid, diphtheria, lymphogranuloma venereum, donovanosis, plague, polio, rabies, typhus, viral haemorrhagic fevers, or yellow fever.

## **Conditions associated with the largest numbers of reported deaths**

Deaths reported via the surveillance mechanisms for notifiable conditions may not include all deaths associated with these conditions. Public health units routinely investigate all cases of some notifiable conditions (for example: tuberculosis, measles, and meningococcal disease) in order to put control measures in place. However, there are other notifiable conditions (for example: chlamydia and gonorrhoea) where no routine investigation takes place but information is collected for surveillance purposes. Where death occurs either after an investigation of a case, or where there has been no routine investigation, these deaths may not be reported in the surveillance systems. Deaths were most frequently reported for the following notifiable conditions:

- invasive pneumococcal disease (68);
- tuberculosis (19);
- HIV infection (27, including 14 who died from AIDS, and 13 in people with HIV infection who died of causes other than AIDS);
- meningococcal disease (12).

## **OUTBREAKS AND THREATS**

In 2003, several notable disease outbreaks and threats were reported in NSW. These include:

- Severe Acute Respiratory Syndrome (SARS): 56 reports of suspected and probable cases of SARS were investigated in early 2003. Only one confirmed case

was identified in NSW: a tourist who was diagnosed in July 2003 as part of a worldwide study of people who had been exposed to a source case in a Hong Kong hotel;<sup>1</sup>

- an outbreak of *Salmonella* Typhimurium phage type 135a involving 11 of 24 attendees at a private party in the Illawarra Health Area in February, the source of which remains unclear;<sup>2</sup>
- an outbreak of *Campylobacter* infection in 19 of 96 people at a school camp in the Hunter Health Area in February, probably linked to eating take-away chicken;<sup>2</sup>
- a cluster of meningococcal disease (serogroup B) in two women whose only common exposure was travelling on the same aeroplane flight in May from Los Angeles to Sydney, sitting on the same side but in different sections of the aeroplane;<sup>3</sup>
- an outbreak of *Salmonella* Typhimurium phage type 99 in South Western Sydney Health Area in over 60 people who attended a birthday party at a restaurant in May, ultimately linked to eating contaminated pigeon meat;<sup>3</sup>
- an outbreak of pertussis, affecting 31 students at a boarding school in the Northern Sydney Health Area in May;<sup>3</sup>
- an outbreak of eight measles cases in the Wentworth Health Area beginning in June, linked to a person who was infected while travelling in Nepal;<sup>4</sup>
- an outbreak of *Salmonella* Typhimurium phage type 170 affecting over 20 people in Northern Sydney Health Area in September, associated with eating a restaurant dish made of fried tofu, prawns, and eggplant;<sup>5</sup>
- outbreaks of gastroenteritis in eight nursing homes, five childcare centres, one hospital ward, and two residential colleges in September. Most of these were likely due to norovirus infections, but one of the college outbreaks was due to *Salmonella* Typhimurium phage type 135 infection;<sup>5</sup>
- a large outbreak of gastroenteritis due to norovirus infection affecting over 70 people in the Greater Murray Area Health Service in October, linked to eating ready-to-eat food prepared by an ill food handler (see report in this issue);<sup>6</sup>
- an outbreak of *Salmonella* Typhimurium phage type 170 and one death among several diners who ate at a restaurant in the Western Sydney Health Area on different days in November;<sup>7</sup>
- a food handler with hepatitis A who served ready-to-eat foods at a restaurant in the Central Sydney Health Area while infectious. Seven-hundred-and-sixty-eight patrons received immunoglobulin at a special clinic to prevent further cases. Four secondary cases (who did not receive the recommended immunoglobulin) were subsequently identified;<sup>7</sup>

- a large outbreak of gastroenteritis due to norovirus infection among people on a cruise ship in December;<sup>7</sup>
- detection of Murray Valley encephalitis infection in a chicken during routine monitoring of a chicken flock at Menindee, Far Western NSW, in December. No associated human infections were identified.<sup>7</sup>

### **SO WHAT DOES IT ALL MEAN?**

In 2003, bloodborne viruses (notably hepatitis C, hepatitis B, and HIV), sexually transmissible diseases (notably chlamydiosis, syphilis and gonorrhoea), and enteric diseases (notably norovirus and *Salmonella* infections), were the most commonly notified diseases in NSW. Prevention of these diseases must therefore remain a priority.

It is too early to know whether the decline in people reported with newly diagnosed hepatitis C is part of a longer-term trend. The continuing increase in HIV infection among men who have sex with men is concerning, and efforts continue to promote prevention messages in those at risk.

In response to the high rates of, and deaths from, invasive pneumococcal disease the Commonwealth Department of Health and Ageing has announced funding for invasive pneumococcal disease vaccination from 2005 in children up to two years of age and adults aged 65 years and older.

### **THANKYOU**

The individual cases and numerous outbreaks reported here, as well as the SARS pandemic overseas, underscore the need for both clinicians and public health practitioners

alike to maintain vigilance for the emergence of public health threats from communicable diseases. Disease control and prevention depends on effective surveillance in the community. Thanks to all those general and specialist medical practices, laboratories, hospitals, schools, childcare centres, and others, who have notified diseases of public health significance to their local public health units for investigation and control.

### **REFERENCES**

1. Jauncey ME, Armstrong PK, Morgan EL, McAnulty JM. Australia was indeed the 'lucky country' in the recent worldwide SARS epidemic [letter]. *Med J Aust* 2004; 181: 229–230.
2. NSW Department of Health. Communicable Diseases Report, NSW, for April–May 2003. *N SW Public Health Bull* 2003; 14: 96–103.
3. NSW Department of Health. Communicable Diseases Report, NSW, for May 2003. *N SW Public Health Bull* 2003; 14: 151–158.
4. NSW Department of Health. Communicable Diseases Report, NSW, for July 2003. *N SW Public Health Bull* 2003; 14: 207–210.
5. NSW Department of Health. Communicable Diseases Report, NSW, for August–September 2003. *N SW Public Health Bull* 2003; 14: 232–238.
6. NSW Department of Health. Communicable Diseases Report, NSW, for October–November 2003. *N SW Public Health Bull* 2004; 15: 25–30.
7. NSW Department of Health. Communicable Diseases Report, NSW, for December–January 2003. *N SW Public Health Bull* 2004; 15: 44–53. ■■■

TABLE 1

DISEASE NOTIFICATIONS BY YEAR OF ONSET OF ILLNESS,<sup>#</sup> NSW, 1991 TO 2003

Conditions	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
AIDS	442	432	482	554	475	371	205	178	122	133	93	95	116	
Adverse event after immunisation	9	31	23	40	28	56	70	95	16	42	111	177	217	
Arbovirus infection: total*	409	341	656	380	534	1225	1804	780	1217	974	1187	657	1022	
Barra Forest virus infection*	6	6	25	39	271	172	185	134	249	195	402	393	451	
Ross River virus infection*	297	324	599	331	236	1031	1598	583	952	749	716	181	494	
Arboviral: other*	106	11	32	10	27	22	21	63	16	30	69	83	77	
Blood lead level ≥ 15 µg/dl*							not notifiable until December 1996	710	873	691	988	513	517	298
Botulism	0	0	0	0	0	0	0	0	1	0	0	0	0	
Brucellosis*	2	2	4	4	2	1	3	3	2	1	1	2	2	
Chancroid*							not notifiable until December 1998		1	0	0	0	0	
Chlamydia*							not notifiable until August 1998		2467	3499	4494	5658	7562	
Cholera*	1	0	1	0	1	3	1	1	2	0	1	1	0	
Cryptosporidiosis*							not notifiable until December 1996	157	1130	121	133	195	306	202
Foodborne illness: NOS*	2765	253	106	213	270	211	255	201	151	147	56	41	1071	
Gastroenteritis: institutional	158	406	443	296	1359	554	939	738	673	697	775	1752	3583	
Giardiasis*							not notifiable until August 1998		1091	978	967	863	1026	
Gonorrhoea*	392	491	382	357	428	522	636	1054	1291	1060	1358	1468	1196	
<i>H. influenzae</i> type b: total*	212	217	124	61	29	13	17	11	13	8	7	10	6	
<i>H. influenzae</i> type b epiglottitis*	15	57	32	21	6	2	5	1	2	2	1	1	0	
<i>H. influenzae</i> type b meningitis*	48	103	53	17	11	4	3	3	3	1	1	1	0	
<i>H. influenzae</i> type b septicaemia*	11	26	24	12	8	3	1	4	6	4	2	3	1	
<i>H. influenzae</i> type b infection: NOS*	138	31	15	11	4	4	8	3	2	1	3	5	5	
Hepatitis A*	1119	901	579	585	614	958	1426	927	421	201	197	149	124	
Hepatitis B: total*	1492	3171	3604	3983	4008	3511	3171	2959	3515	3984	4575	3552	2949	
Hepatitis B: acute viral*	409	113	95	74	61	43	53	58	77	99	94	87	70	
Hepatitis B: other*	1083	3058	3509	3909	3947	3468	3118	2901	3438	3885	4481	3465	2879	
Hepatitis C: total*	853	3896	5899	7824	6887	7008	6930	7216	8608	8302	8706	6713	5277	
Hepatitis C: acute viral*	22	26	22	16	32	18	19	112	112	222	295	153	127	
Hepatitis C: other*	831	3870	5877	7808	6855	6990	6911	7104	8496	8080	8411	6560	5150	
Hepatitis D*	0	8	12	19	19	9	11	3	14	12	11	9	12	
Hepatitis E*	0	0	1	2	0	3	6	4	7	9	6	6	6	
HIV infection*	822	695	587	501	533	446	423	401	373	352	338	390	414	
Haemolytic uraemic syndrome							not notifiable until December 1996	3	6	11	9	2	7	5
Influenza: total*							not notifiable until December 2000				244	1012	861	
Influenza: type A*							not notifiable until December 2000				216	770	767	
Influenza: type B*							not notifiable until December 2000				27	241	55	
Influenza: NOS*							not notifiable until December 2000				1	1	39	
Legionnaires' disease: total*	37	104	66	60	75	74	33	46	41	41	68	44	60	
Legionnaires' disease: <i>L. longbeachae</i> *	0	14	13	8	16	30	9	19	12	12	29	21	37	
Legionnaires' disease: <i>L. pneumophila</i> *	16	80	34	30	35	34	18	22	22	26	38	22	23	
Legionnaires' disease: other*	21	10	19	22	24	10	6	5	7	3	1	1	0	
Leprosy	1	7	5	3	3	2	0	0	1	2	3	0	1	
Leptospirosis*	28	21	16	14	6	33	33	50	56	54	66	39	37	
Listeriosis*	11	13	12	10	14	22	23	28	22	18	12	11	28	
Malaria*	171	110	174	184	96	203	173	158	174	232	157	105	144	
Measles: total	496	805	2348	1484	596	191	273	119	32	36	31	8	18	
Measles: laboratory confirmed*	20	76	460	302	138	35	98	19	13	22	18	6	14	
Measles: other	476	729	1888	1182	458	156	175	100	19	14	13	2	4	
Meningococcal disease (invasive): total	128	121	153	142	113	161	219	186	221	253	234	216	203	
Meningococcal disease: type B*	0	3	7	7	23	36	54	55	95	93	92	105	100	
Meningococcal disease: type C*	0	4	6	9	8	35	55	55	60	64	38	54	46	
Meningococcal disease: type W135*	0	0	0	0	1	0	2	4	4	4	2	2	2	
Meningococcal disease: type Y*	0	0	1	1	0	1	0	7	1	7	2	2	5	
Meningococcal disease: other	128	114	139	125	81	89	108	65	61	85	100	53	50	
Mumps*	8	23	13	11	14	27	29	39	33	92	28	29	35	
Paratyphoid*	20	8	9	11	12	15	5	9	5	14	11	13	22	
Pertussis	49	217	1533	1405	1369	1156	4246	2309	1415	3686	4438	2012	2768	
Pneumococcal disease: invasive*							not notifiable until December 2000				442	863	785	
Psittacosis*							not notifiable until December 2000				38	155	87	
Q fever*	167	213	403	267	201	287	258	236	164	131	143	309	280	
Rubella: total*	60	324	1186	233	2376	636	153	78	46	191	58	35	24	
Rubella*	59	324	1184	229	2375	631	153	78	45	191	58	35	23	
Rubella: congenital*	1	0	2	4	1	5	0	0	1	0	0	0	1	
Salmonellosis*	1171	802	980	1101	1366	1224	1698	1813	1438	1396	1644	2104	1843	
Shigellosis*							not notifiable until December 2000				134	85	59	
Syphilis: total	579	873	732	967	834	661	512	612	585	581	545	648	838	
Syphilis: infectious* +	1	3	6	29	132	72	57	45	88	82	67	128	242	
Syphilis: congenital	1	1	0	2	6	3	3	0	3	2	1	1	2	
Syphilis: other*	577	869	726	936	696	586	452	567	494	497	477	519	594	
Tetanus	5	2	5	4	0	1	3	3	1	2	0	0	1	
Tuberculosis*	429	394	389	393	443	410	422	382	484	447	416	447	381	
Typhoid*	38	20	28	25	27	30	28	18	32	28	32	22	11	
Verotoxigenic <i>Escherichia coli</i> infections*							not notifiable until December 1996	0	2	0	1	1	2	

# onset = the earlier of patient reported onset date, specimen date, or notification date; \* laboratory-confirmed cases only;

NOS = not otherwise specified; \* includes syphilis primary, syphilis secondary, and syphilis &lt;1 year duration.

No case of the following diseases have been notified since 1991: diphtheria, granuloma inguinale, lymphogranuloma venereum, plague, poliomyelitis, rabies, typhus, viral haemorrhagic fever, and yellow fever.

TABLE 2

## DISEASE NOTIFICATIONS BY MONTH OF ONSET OF ILLNESS, # NSW, 2003

Conditions	Month of Onset												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
AIDS	11	7	4	14	13	9	11	9	7	10	13	8	116
Adverse event after immunisation	16	9	24	28	16	18	15	20	22	16	22	11	217
Arbovirus infection: total*	37	59	70	191	340	116	47	27	26	43	30	36	1022
Barmah Forest virus infection*	20	26	28	74	139	48	26	16	16	25	15	18	451
Ross River virus infection*	7	15	37	107	193	62	18	7	7	12	13	16	494
Arboviral: other*	10	18	5	10	8	6	3	4	3	6	2	2	77
Blood lead level ≥ 15 µg/dl*	39	44	23	16	21	21	38	25	25	9	24	13	298
Brucellosis*	1	0	0	0	0	0	0	1	0	0	0	0	2
Chlamydia*	570	597	616	491	626	607	704	673	599	759	699	621	7562
Cryptosporidiosis*	24	22	20	22	17	9	15	6	4	6	21	36	202
Foodborne illness: NOS	25	30	17	2	344	114	0	115	0	107	66	251	1071
Gastroenteritis: institutional	10	103	162	45	359	431	392	304	236	387	592	562	3583
Giardiasis*	71	97	111	79	83	86	87	72	90	70	92	88	1026
Gonorrhoea*	121	109	101	109	112	89	102	90	91	101	85	86	1196
<i>H. influenzae</i> type b: total*	0	1	0	2	1	0	0	0	1	0	1	0	6
<i>H. influenzae</i> type b septicaemia*	0	0	0	1	0	0	0	0	0	0	0	0	1
<i>H. influenzae</i> type b infection: NOS*	0	1	0	1	1	0	0	0	1	0	1	0	5
Hepatitis A*	11	9	21	7	4	6	5	8	7	17	9	20	124
Hepatitis B: total*	255	238	263	220	261	241	239	191	274	259	284	224	2949
Hepatitis B: acute viral*	8	5	8	8	6	1	4	5	8	7	3	7	70
Hepatitis B: other*	247	233	255	212	255	240	235	186	266	252	281	217	2879
Hepatitis C: total*	471	495	496	382	435	365	453	466	395	438	462	419	5277
Hepatitis C: acute viral*	5	13	12	13	5	9	17	19	5	11	12	6	127
Hepatitis C: other*	466	482	484	369	430	356	436	447	390	427	450	413	5150
Hepatitis D*	0	1	1	0	1	2	1	2	1	1	2	0	12
Hepatitis E*	0	1	1	0	0	0	1	1	2	0	0	0	6
HIV infection*	43	40	36	42	31	39	29	36	33	31	31	23	414
Haemolytic uraemic syndrome	1	1	0	0	1	0	0	0	0	0	1	1	5
Influenza: total*	21	7	23	23	10	11	78	469	166	31	11	11	861
Influenza: type A*	19	6	18	19	8	11	71	439	147	17	6	6	767
Influenza: type B*	1	1	1	3	2	0	2	11	10	14	5	5	55
Influenza: NOS*	1	0	4	1	0	0	5	19	9	0	0	0	39
Legionnaires' disease: total*	5	5	12	4	9	6	3	3	2	3	2	6	60
Legionnaires' disease: <i>L. longbeachae</i> *	4	4	7	4	2	3	3	2	2	3	1	2	37
Legionnaires' disease: <i>L. pneumophila</i> *	1	1	5	0	7	3	0	1	0	0	1	4	23
Leprosy	1	0	0	0	0	0	0	0	0	0	0	0	1
Leptospirosis*	3	9	7	1	3	2	3	4	2	2	0	1	37
Listeriosis*	1	3	2	4	3	3	4	1	1	2	2	2	28
Malaria*	25	12	13	8	9	12	5	13	14	7	14	12	144
Measles: total	0	0	0	2	0	4	8	1	1	1	0	1	18
Measles: laboratory confirmed*	0	0	0	2	0	2	6	1	1	1	0	1	14
Measles: other	0	0	0	0	0	2	2	0	0	0	0	0	4
Meningococcal disease (invasive): total	11	13	8	13	14	15	27	25	27	17	17	16	203
Meningococcal disease: type B*	7	6	3	5	5	9	14	8	18	10	9	6	100
Meningococcal disease: type C*	1	3	3	2	1	3	6	10	5	4	4	4	46
Meningococcal disease: type W135*	0	0	0	1	0	0	1	0	0	0	0	0	2
Meningococcal disease: type Y*	1	0	1	0	1	0	0	1	0	0	0	1	5
Meningococcal disease: other	2	4	1	5	7	3	6	6	4	3	4	5	50
Mumps*	5	5	3	2	2	0	1	0	5	2	7	3	35
Paratyphoid*	2	3	4	2	0	3	0	0	2	1	1	4	22
Pertussis	172	113	133	114	159	158	258	285	331	338	375	332	2768
Pneumococcal disease: invasive*	23	19	54	43	57	100	92	135	80	69	69	44	785
Psittacosis*	3	2	6	3	8	12	10	9	7	11	10	6	87
Q fever*	38	39	33	28	16	19	14	21	18	24	21	9	280
Rubella: total*	4	1	6	4	3	0	2	2	0	1	1	0	24
Rubella*	4	1	6	4	3	0	2	2	0	0	1	0	23
Rubella: congenital*	0	0	0	0	0	0	0	0	0	1	0	0	1
Salmonellosis*	262	262	226	139	172	98	83	86	78	115	133	189	1843
Shigellosis*	4	8	10	4	2	5	1	3	6	5	6	5	59
Syphilis: total	60	68	76	57	74	65	68	57	60	95	77	81	838
Syphilis: infectious* +	27	19	19	11	23	18	23	16	18	27	26	15	242
Syphilis: congenital	0	0	0	0	1	0	0	1	0	0	0	0	2
Syphilis: other*	33	49	57	46	50	47	45	40	42	68	51	66	594
Tetanus	0	1	0	0	0	0	0	0	0	0	0	0	1
Tuberculosis*	46	34	20	27	29	32	34	21	31	48	30	29	381
Typhoid*	1	0	1	0	0	0	2	0	1	3	3	0	11
Verotoxigenic <i>Escherichia coli</i> infections*	0	0	0	0	0	0	0	0	0	0	2	0	2

# onset = the earlier of patient reported onset date, specimen date or date of notification; \* = laboratory-confirmed cases only;  
NOS = not otherwise specified; + includes syphilis primary, syphilis secondary and syphilis <1 years duration.

TABLE 3

**DISEASE NOTIFICATIONS BY AREA HEALTH SERVICE OF RESIDENCE,<sup>#</sup> CRUDE RATES PER 100,000  
POPULATION, NSW, 2003**

Condition	CCA	CSA	FWA	GMA	HUN	ILL	MAC	MNC	MWA
AIDS	1.0	5.8	2.1	0.4	0.5	1.1	1.0	0.4	0.0
Adverse event after immunisation	4.2	1.6	6.3	8.9	7.5	0.6	8.7	1.5	13.7
Arbovirus infection: total*	5.5	2.6	37.8	7.7	9.9	3.7	8.7	83.2	5.9
Barmah Forest virus infection*	2.3	0.4	4.2	1.2	3.7	1.1	1.0	45.1	1.8
Ross River virus infection*	2.6	0.6	31.5	5.8	5.3	1.4	7.7	36.2	3.6
Arboviral: other*	0.6	1.6	2.1	0.8	0.9	1.1	0.0	1.8	0.6
Blood lead level ≥ 15 µg/dl*	0.3	2.4	92.3	1.9	19.2	2.5	17.3	3.7	4.2
Brucellosis*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chlamydia*	85.0	158.2	180.5	115.8	124.6	86.1	132.8	103.2	139.0
Cryptosporidiosis*	0.6	2.8	4.2	4.2	2.6	1.7	4.8	7.0	1.8
Food-borne illness: NOS	46.5	11.7	44.1	30.1	15.3	3.1	0.0	39.2	0.0
Gastroenteritis: institutional	136.4	51.1	39.9	0.0	93.7	22.5	44.3	42.2	57.5
Giardiasis*	8.7	14.7	10.5	12.4	16.6	9.6	30.8	10.0	26.7
Gonorrhoea*	3.6	47.3	35.7	5.4	4.9	5.6	3.8	7.0	4.8
<i>H. influenzae</i> type b: total*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
<i>H. influenzae</i> type b: septicaemia*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
<i>H. influenzae</i> type b: NOS*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis A*	0.6	3.6	0.0	0.8	0.4	0.3	1.0	0.4	4.8
Hepatitis B: total*	15.5	104.2	44.1	5.8	11.0	12.1	16.4	5.5	5.3
Hepatitis B: acute viral*	0.3	0.8	2.1	0.4	1.5	1.7	1.9	0.4	0.6
Hepatitis B: other*	15.2	103.4	42.0	5.4	9.5	10.4	14.4	5.2	4.8
Hepatitis C: total*	74.3	104.0	96.5	52.1	54.8	74.3	89.5	88.7	80.8
Hepatitis C: acute viral*	0.0	6.2	0.0	0.0	2.9	0.0	1.9	0.4	0.0
Hepatitis C: other*	74.3	97.8	96.5	52.1	51.9	74.3	87.6	88.4	80.8
Hepatitis D*	0.0	0.0	2.1	0.0	0.0	0.3	0.0	0.0	0.0
Hepatitis E*	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0
HIV infection*	2.3	16.9	0.0	1.9	2.9	3.7	1.0	2.6	0.6
Haemolytic uraemic syndrome	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.6
Influenza: total*	3.6	9.3	4.2	2.7	3.8	12.4	17.3	4.4	9.5
Influenza: type A*	3.2	1.8	4.2	2.3	3.3	12.1	17.3	4.4	9.5
Influenza: type B*	0.0	0.6	0.0	0.4	0.5	0.3	0.0	0.0	0.0
Influenza: NOS*	0.3	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Legionnaires' disease: total*	3.2	1.4	0.0	1.9	0.0	1.4	0.0	0.0	2.4
Legionnaires' disease: <i>L. longbeachae</i> *	3.2	0.8	0.0	0.8	0.0	0.8	0.0	0.0	1.8
Legionnaires' disease: <i>L. pneumophila</i> *	0.0	0.6	0.0	1.2	0.0	0.6	0.0	0.0	0.6
Leprosy	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leptospirosis*	0.0	0.0	0.0	0.0	2.2	0.3	0.0	3.0	0.6
Listeriosis*	0.6	0.8	0.0	0.0	0.5	0.8	1.0	0.0	0.0
Malaria*	0.6	3.8	0.0	0.8	1.6	0.8	1.9	1.5	0.0
Measles: total	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Measles: laboratory confirmed*	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0
Measles: other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal disease (invasive): total	5.5	2.2	0.0	1.9	3.7	3.7	4.8	3.7	1.2
Meningococcal disease: type B*	2.6	1.0	0.0	0.8	2.0	2.0	2.9	1.8	0.6
Meningococcal disease: type C*	1.6	0.6	0.0	0.4	0.2	1.4	0.0	1.8	0.0
Meningococcal disease: type W135*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal disease: type Y*	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal disease: other	0.6	0.6	0.0	0.8	1.5	0.3	1.9	0.0	0.6
Mumps*	0.3	1.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0
Paratyphoid*	0.0	0.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0
Pertussis	20.0	40.2	8.4	47.9	41.1	34.6	20.2	37.0	45.7
Pneumococcal disease: invasive*	22.3	13.3	14.7	11.6	15.2	13.2	11.5	11.1	13.1
Psittacosis*	0.0	0.2	0.0	5.4	3.5	0.3	4.8	1.8	0.6
Q fever*	0.0	0.8	42.0	2.3	4.6	1.7	72.2	10.0	7.7
Rubella: total*	0.3	0.6	0.0	0.0	0.4	0.6	0.0	0.0	0.0
Rubella*	0.3	0.6	0.0	0.0	0.4	0.6	0.0	0.0	0.0
Rubella: congenital*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis*	20.4	27.0	25.2	21.2	20.1	20.3	31.8	28.1	27.9
Shigellosis*	0.6	1.6	0.0	0.4	0.2	0.3	0.0	0.7	1.2
Syphilis: total	5.8	31.4	46.2	1.9	2.2	4.2	11.5	6.3	4.2
Syphilis: infectious* +	1.0	8.7	0.0	1.2	0.2	2.3	1.9	2.2	0.6
Syphilis: congenital	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
Syphilis: other*	4.8	22.7	46.2	0.8	2.0	2.0	8.7	4.1	3.6
Tetanus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuberculosis*	1.0	14.5	2.1	1.5	1.6	2.3	1.0	2.6	0.6
Typhoid*	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Verotoxigenic <i>Escherichia coli</i> infections*	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

# onset = the earlier of patient reported onset date, specimen date or date of notification; \* = laboratory-confirmed cases only;  
NOS = not otherwise specified; a = includes cases with unknown public health unit; + includes syphilis primary, syphilis secondary, and syphilis <1 years duration.

Area health service population estimates 2003:

CCA = Central Coast Area (309,425); CSA = Central Sydney Area (503,030); FWA = Far West Area (47,656); CHS = Corrections Health Service (8,000); GMA = Greater Murray Area (258,985); HUN = Hunter Area (547,325); ILL = Illawarra Area (355,533); MAC = Macquarie Area (103,907); MNC = Mid North Coast Area (270,433); MWA = Mid Western Area (168,363).

TABLE 3 *continued*
**DISEASE NOTIFICATIONS BY AREA HEALTH SERVICE OF RESIDENCE,<sup>#</sup> CRUDE RATES PER 100,000 POPULATION, NSW, 2003**

Condition	NEA	NRA	NSA	SA	SES	SWS	WEN	WSA	CHS	Total (a)
AIDS	1.2	1.8	0.6	0.5	4.2	0.6	1.2	0.7	0.0	1.7
Adverse event after immunisation	1.7	2.6	1.4	9.5	1.4	1.2	3.4	2.5	12.5	3.3
Arbovirus infection: total*	15.1	198.7	2.3	9.0	1.4	1.1	0.6	1.5	0.0	15.4
Barra Forest virus infection*	4.6	96.4	0.1	4.8	0.1	0.0	0.3	0.4	0.0	6.8
Ross River virus infection*	9.3	101.2	0.6	3.7	0.1	0.0	0.3	0.0	0.0	7.4
Arboviral: other*	1.2	1.1	1.5	0.5	1.1	1.1	0.0	1.1	0.0	1.2
Blood lead level ≥ 15 µg/dl*	4.6	1.1	2.2	1.1	1.1	4.1	2.4	0.8	0.0	4.5
Brucellosis*	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
Chlamydia*	149.5	108.5	99.9	99.6	179.1	65.3	72.5	90.3	737.5	114.0
Cryptosporidiosis*	12.7	4.0	2.0	1.6	3.6	1.6	3.1	3.2	0.0	3.0
Foodborne illness: NOS	0.0	8.4	9.4	7.9	43.9	7.4	1.2	6.5	0.0	16.1
Gastroenteritis: institutional	55.1	4.4	88.2	55.1	57.8	15.5	39.4	47.4	0.0	54.0
Giardiasis*	16.2	2.2	17.5	4.2	23.6	8.5	22.3	21.1	0.0	15.5
Gonorrhoea*	13.9	15.7	11.9	3.2	61.7	7.0	7.3	12.2	37.5	18.0
<i>H. influenzae</i> type b: total*	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.1
<i>H. influenzae</i> type b septicaemia*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>H. influenzae</i> type b infection: NOS*	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.1
Hepatitis A*	1.2	1.5	1.0	1.1	2.9	2.7	1.5	3.2	0.0	1.9
Hepatitis B: total*	15.1	9.5	39.2	4.8	50.2	95.5	17.1	73.1	712.5	44.4
Hepatitis B: acute viral*	0.6	0.7	0.9	0.0	2.3	1.1	0.3	0.4	37.5	1.1
Hepatitis B: other*	14.5	8.8	38.3	4.8	47.9	94.4	16.8	72.7	675.0	43.4
Hepatitis C: total*	41.7	90.6	33.0	58.8	76.2	79.9	54.7	65.1	8662.5	79.5
Hepatitis C: acute viral*	0.0	0.4	1.4	2.1	5.6	0.2	0.3	0.3	137.5	1.9
Hepatitis C: other*	41.7	90.2	31.6	56.7	70.6	79.7	54.4	64.8	8525.0	77.6
Hepatitis D*	0.0	0.0	0.1	0.0	0.1	0.2	0.3	0.1	50.0	0.2
Hepatitis E*	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.1
HIV infection*	2.3	2.6	3.2	0.5	21.0	1.9	1.8	3.1	0.0	6.2
Haemolytic uraemic syndrome	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1
Influenza: total*	9.3	9.9	8.6	2.6	23.4	22.6	15.9	18.7	75.0	13.0
Influenza: type A*	7.0	9.5	8.2	1.6	20.9	21.1	15.6	17.7	75.0	11.6
Influenza: type B*	0.6	0.4	0.4	1.1	2.5	1.5	0.3	1.0	0.0	0.8
Influenza: NOS*	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
Legionnaires' disease: total*	0.0	0.0	0.3	0.5	0.6	0.0	1.8	2.0	0.0	0.9
Legionnaires' disease: <i>L. longbeachae</i> *	0.0	0.0	0.0	0.5	0.6	0.0	0.9	0.8	0.0	0.6
Legionnaires' disease: <i>L. pneumophila</i> *	0.0	0.0	0.3	0.0	0.0	0.0	0.9	1.1	0.0	0.3
Leprosy	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Leptospirosis*	6.4	0.7	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.6
Listeriosis*	0.6	0.0	0.6	0.0	0.4	0.6	0.0	0.1	0.0	0.4
Malaria*	3.5	2.9	2.7	1.1	3.3	1.7	1.5	3.0	0.0	2.2
Measles: total	0.0	0.0	0.0	0.0	0.5	0.1	2.8	0.3	0.0	0.3
Measles: laboratory confirmed*	0.0	0.0	0.0	0.0	0.5	0.1	1.5	0.3	0.0	0.2
Measles: other	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.1
Meningococcal disease (invasive): total	3.5	3.7	1.1	3.7	3.8	2.9	2.1	3.2	0.0	3.1
Meningococcal disease: type B*	1.2	2.2	0.1	2.1	1.4	1.6	1.5	2.0	0.0	1.5
Meningococcal disease: type C*	0.6	0.7	0.5	1.1	0.9	0.6	0.6	0.3	0.0	0.7
Meningococcal disease: type W135*	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Meningococcal disease: type Y*	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.1
Meningococcal disease: other	1.2	0.7	0.5	0.5	1.3	0.5	0.0	1.0	0.0	0.8
Mumps*	0.0	0.7	1.4	0.0	0.5	0.6	0.3	0.6	0.0	0.5
Paratyphoid*	0.0	1.1	0.4	0.0	0.8	0.1	0.0	0.7	0.0	0.3
Pertussis	30.1	21.2	44.4	67.3	49.3	40.3	35.2	57.1	25.0	41.7
Pneumococcal disease: invasive*	0.6	5.5	9.1	16.4	11.0	11.7	10.1	11.1	0.0	11.8
Psittacosis*	4.6	2.2	0.6	0.5	0.0	0.1	5.5	0.3	0.0	1.3
Q fever*	33.6	10.2	0.1	4.8	0.4	0.2	0.0	0.3	12.5	4.2
Rubella: total*	0.0	0.0	0.3	0.0	0.9	0.1	0.0	0.8	0.0	0.4
Rubella*	0.0	0.0	0.1	0.0	0.9	0.1	0.0	0.8	0.0	0.3
Rubella: congenital*	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Salmonellosis*	31.3	53.7	30.6	21.2	33.1	25.6	25.1	27.0	0.0	27.8
Shigellosis*	1.2	0.4	1.1	0.5	1.8	0.5	0.6	1.0	0.0	0.9
Syphilis: total	19.7	9.1	5.3	4.2	28.9	18.5	2.4	7.6	150.0	12.6
Syphilis: infectious* +	5.8	1.1	1.6	0.0	15.7	1.0	0.3	1.5	12.5	3.6
Syphilis: congenital	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Syphilis: other*	13.3	8.0	3.7	4.2	13.2	17.5	2.1	6.0	137.5	9.0
Tetanus	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Tuberculosis*	0.6	0.4	4.7	2.1	8.7	7.9	2.1	11.1	12.5	5.7
Typhoid*	0.0	0.0	0.1	0.0	0.3	0.2	0.0	0.3	0.0	0.2
Verotoxigenic <i>Escherichia coli</i> infections*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0

# onset = the earlier of patient reported onset date, specimen date or date of notification; \* = laboratory-confirmed cases only;  
NOS = not otherwise specified; a = includes cases with unknown public health unit; + includes syphilis primary, syphilis secondary and syphilis <1 years duration.

Area health service population estimates 2003:

NEA = New England Area (172,560); NRA = Northern Rivers Area (273,731); NSA = North Sydney Area (788,117); SA = Southern Area (188,744); SES = South Eastern Sydney (785,045); SWS = South Western Sydney (823,429); WEN = Wentworth Area (327,059); WSA = Western Sydney Area (711,165); Total = Total population in NSW (6,634,507).

TABLE 4

## NUMBER OF DISEASE NOTIFICATIONS BY AREA HEALTH SERVICE OF RESIDENCE, # NSW, 2003

Conditions	CCA	CSA	FWA	GMA	HUN	ILL	MAC	MNC	MWA
AIDS	3	29	1	1	3	4	1	1	0
Adverse event after immunisation	13	8	3	23	41	2	9	4	23
Arbovirus infection: total*	17	13	18	20	54	13	9	225	10
Barra Forest virus infection*	7	2	2	3	20	4	1	122	3
Ross River virus infection*	8	3	15	15	29	5	8	98	6
Arboviral: other*	2	8	1	2	5	4	0	5	1
Blood lead level ≥ 15 µg/dl*	1	12	44	5	105	9	18	10	7
Brucellosis*	0	0	0	0	0	0	0	0	0
Chlamydia*	263	796	86	300	682	306	138	279	234
Cryptosporidiosis*	2	14	2	11	14	6	5	19	3
Foodborne illness: NOS	144	59	21	78	84	11	0	106	0
Gastroenteritis: institutional	422	257	19	0	513	80	46	114	178
Giardiasis*	27	74	5	32	91	34	32	27	45
Gonorrhoea*	11	238	17	14	27	20	4	19	8
<i>H. influenzae</i> type b: total*	0	0	0	0	0	0	0	0	1
<i>H. influenzae</i> type b septicaemia*	0	0	0	0	0	0	0	0	1
<i>H. influenzae</i> type b infection: NOS*	0	0	0	0	0	0	0	0	0
Hepatitis A*	2	18	0	2	2	1	1	1	8
Hepatitis B (total)*	48	524	21	15	60	43	17	15	9
Hepatitis B: acute viral*	1	4	1	1	8	6	2	1	1
Hepatitis B: other*	47	520	20	14	52	37	15	14	8
Hepatitis C: total*	230	523	46	135	300	264	93	240	136
Hepatitis C: acute viral*	0	31	0	0	16	0	2	1	0
Hepatitis C: other*	230	492	46	135	284	264	91	239	136
Hepatitis D*	0	0	1	0	0	1	0	0	0
Hepatitis E*	0	1	0	1	0	0	0	0	0
HIV infection*	7	85	0	5	16	13	1	7	1
Haemolytic uraemic syndrome	0	0	0	0	3	0	0	0	1
Influenza: total*	11	47	2	7	21	44	18	12	16
Influenza: type A*	10	9	2	6	18	43	18	12	16
Influenza: type B*	0	3	0	1	3	1	0	0	0
Influenza: NOS*	1	35	0	0	0	0	0	0	0
Legionnaires' disease (total)*	10	7	0	5	0	5	0	0	4
Legionnaires' disease: <i>L. longbeachae</i> *	10	4	0	2	0	3	0	0	3
Legionnaires' disease: <i>L. pneumophila</i> *	0	3	0	3	0	2	0	0	1
Leprosy	0	0	0	0	0	0	0	0	0
Leptospirosis*	0	0	0	0	12	1	0	8	1
Listeriosis*	2	4	0	0	3	3	1	0	0
Malaria*	2	19	0	2	9	3	2	4	0
Measles: total	0	1	0	0	0	1	0	0	0
Measles: laboratory confirmed*	0	1	0	0	0	1	0	0	0
Measles: other	0	0	0	0	0	0	0	0	0
Meningococcal disease (invasive): total	17	11	0	5	20	13	5	10	2
Meningococcal disease: type B*	8	5	0	2	11	7	3	5	1
Meningococcal disease: type C*	5	3	0	1	1	5	0	5	0
Meningococcal disease: type W135*	0	0	0	0	0	0	0	0	0
Meningococcal disease: type Y*	2	0	0	0	0	0	0	0	0
Meningococcal disease: other	2	3	0	2	8	1	2	0	1
Mumps*	1	5	0	1	1	0	0	0	0
Paratyphoid*	0	3	0	1	0	0	0	0	0
Pertussis	62	202	4	124	225	123	21	100	77
Pneumococcal disease: invasive*	69	67	7	30	83	47	12	30	22
Psittacosis*	0	1	0	14	19	1	5	5	1
Q fever*	0	4	20	6	25	6	75	27	13
Rubella: total*	1	3	0	0	2	2	0	0	0
Rubella*	1	3	0	0	2	2	0	0	0
Rubella: congenital*	0	0	0	0	0	0	0	0	0
Salmonellosis*	63	136	12	55	110	72	33	76	47
Shigellosis*	2	8	0	1	1	1	0	2	2
Syphilis: total	18	158	22	5	12	15	12	17	7
Syphilis: infectious* +	3	44	0	3	1	8	2	6	1
Syphilis: congenital	0	0	0	0	0	0	1	0	0
Syphilis: other*	15	114	22	2	11	7	9	11	6
Tetanus	0	0	0	0	0	0	0	0	0
Tuberculosis*	3	73	1	4	9	8	1	7	1
Typhoid*	0	3	0	0	0	0	0	0	0
Verotoxigenic <i>Escherichia coli</i> infections*	0	0	0	0	1	0	0	0	0

# onset = the earlier of patient reported onset date, specimen date or date of notification; \* = laboratory-confirmed cases only;  
NOS = not otherwise specified; + includes syphilis primary, syphilis secondary and syphilis <1 years duration.

CCA = Central Coast Area; CSA = Central Sydney Area; FWA = Far West Area; CHS = Correction Health Services;  
GMA = Greater Murray Area; HUN = Hunter Area; ILL = Illawarra Area; MAC = Macquarie Area; MNC = Mid North Coast Area;  
MWA = Mid Western Area.

TABLE 4 *continued*NUMBER OF DISEASE NOTIFICATIONS BY AREA HEALTH SERVICE OF RESIDENCE,<sup>#</sup> NSW, 2003

Conditions	NEA	NRA	NSA	SA	SES	SWS
AIDS	2	5	5	1	33	5
Adverse event after immunisation	3	7	11	18	11	10
Arbovirus infection: total*	26	544	18	17	11	9
Barra Forest virus infection*	8	264	1	9	1	0
Ross River virus infection*	16	277	5	7	1	0
Arboviral: other*	2	3	12	1	9	9
Blood lead level ≥ 15 µg/dl*	8	3	17	2	9	34
Brucellosis*	0	0	0	0	1	0
Chlamydia*	258	297	787	188	1406	538
Cryptosporidiosis*	22	11	16	3	28	13
Foodborne illness: NOS	0	23	74	15	345	61
Gastroenteritis: institutional	95	12	695	104	454	128
Giardiasis*	28	6	138	8	185	70
Gonorrhoea*	24	43	94	6	484	58
<i>H. influenzae</i> type b: total*	0	0	0	0	0	0
<i>H. influenzae</i> type b septicaemia*	0	0	0	0	0	0
<i>H. influenzae</i> type b infection: NOS*	0	0	0	0	0	0
Hepatitis A*	2	4	8	2	23	22
Hepatitis B: total*	26	26	309	9	394	786
Hepatitis B: acute viral*	1	2	7	0	18	9
Hepatitis B: other*	25	24	302	9	376	777
Hepatitis C: total*	72	248	260	111	598	658
Hepatitis C: acute viral*	0	1	11	4	44	2
Hepatitis C: other*	72	247	249	107	554	656
Hepatitis D*	0	0	1	0	1	2
Hepatitis E*	0	0	0	0	0	1
HIV infection*	4	7	25	1	165	16
Haemolytic uraemic syndrome	0	0	0	0	0	0
Influenza: total*	16	27	68	5	184	186
Influenza: type A*	12	26	65	3	164	174
Influenza: type B*	1	1	3	2	20	12
Influenza: NOS*	3	0	0	0	0	0
Legionnaires' disease: total*	0	0	2	1	5	0
Legionnaires' disease: <i>L. longbeachae</i> *	0	0	0	1	5	0
Legionnaires' disease: <i>L. pneumophila</i> *	0	0	2	0	0	0
Leprosy	0	0	1	0	0	0
Leptospirosis*	11	2	1	0	0	0
Listeriosis*	1	0	5	0	3	5
Malaria*	6	8	21	2	26	14
Measles: total	0	0	0	0	4	1
Measles: laboratory confirmed*	0	0	0	0	4	1
Measles: other	0	0	0	0	0	0
Meningococcal disease (invasive): total	6	10	9	7	30	24
Meningococcal disease: type B*	2	6	1	4	11	13
Meningococcal disease: type C*	1	2	4	2	7	5
Meningococcal disease: type W135*	1	0	0	0	1	0
Meningococcal disease: type Y*	0	0	0	0	1	2
Meningococcal disease: other	2	2	4	1	10	4
Mumps*	0	2	11	0	4	5
Paratyphoid*	0	3	3	0	6	1
Pertussis	52	58	350	127	387	332
Pneumococcal disease: invasive*	1	15	72	31	86	96
Psittacosis*	8	6	5	1	0	1
Q fever*	58	28	1	9	3	2
Rubella: total*	0	0	2	0	7	1
Rubella*	0	0	1	0	7	1
Rubella: congenital*	0	0	1	0	0	0
Salmonellosis*	54	147	241	40	260	211
Shigellosis*	2	1	9	1	14	4
Syphilis: total	34	25	42	8	227	152
Syphilis: infectious* +	10	3	13	0	123	8
Syphilis: congenital	1	0	0	0	0	0
Syphilis: other*	23	22	29	8	104	144
Tetanus	0	0	0	0	1	0
Tuberculosis*	1	1	37	4	68	65
Typhoid*	0	0	1	0	2	2
Verotoxigenic <i>Escherichia coli</i> infections*	0	0	0	0	0	0

# onset = the earlier of patient reported onset date, specimen date or date of notification; \* = laboratory-confirmed cases only;  
NOS = not otherwise specified; + includes syphilis primary, syphilis secondary and syphilis <1 years duration.

NEA = New England Area; NRA = Northern Rivers Area; NSA = North Sydney Area; SA = Southern Area; SES = South Eastern Sydney; SWS = South Western Sydney; WEN = Wentworth Area; WSA = Western Sydney Area; Total = Total in NSW residents.

TABLE 5

NUMBER OF DISEASE NOTIFICATIONS BY AGE GROUP AND SEX OF THE CASE,<sup>#</sup> NSW, 2003

Conditions	0–4 yrs		5–24 yrs		25–44 yrs		45–64 yrs		65 + yrs		Total <sup>a</sup>		
	M	F	M	F	M	F	M	F	M	F	M	F	Total <sup>#</sup>
AIDS	0	0	0	0	62	1	46	0	5	0	113	1	116 <sup>b</sup>
Adverse event after immunisation	52	54	30	39	1	9	5	12	6	9	94	123	217
Arbovirus infection: total*	2	3	34	46	199	188	206	228	66	49	507	514	1022
Barmah Forest virus infection*	2	1	12	17	83	83	106	99	23	24	226	224	451
Ross River virus infection*	0	2	12	23	99	87	92	116	40	23	243	251	494
Arboviral: other*	0	0	10	6	17	18	8	13	3	2	38	39	77
Blood lead level ≥ 15 µg/dl*	25	24	39	1	130	2	68	3	5	0	267	30	298
Brucellosis*	0	0	0	1	0	0	1	0	0	0	1	1	2
Chlamydia*	15	10	1343	2804	1719	1340	209	77	19	10	3306	4244	7562
Cryptosporidiosis*	41	40	33	32	16	21	7	6	3	3	100	102	202
Giardiasis*	153	133	105	92	193	149	82	72	21	25	554	471	1026
Gonorrhoea*	1	1	210	83	703	68	114	4	8	0	1036	156	1196
<i>H. influenzae</i> type b: total*	2	1	1	0	0	1	0	1	0	0	3	3	6
<i>H. influenzae</i> type b septicaemia*	1	0	0	0	0	0	0	0	0	0	1	0	1
<i>H. influenzae</i> type b infection: NOS*	1	1	1	0	0	1	0	1	0	0	2	3	5
Hepatitis A*	4	3	28	23	30	17	4	8	4	3	70	54	124
Hepatitis B: total*	6	2	227	262	940	702	410	266	69	55	1652	1288	2949
Hepatitis B: acute viral*	1	0	9	9	31	7	7	3	2	1	50	20	70
Hepatitis B: other*	5	2	218	253	909	695	403	263	67	54	1602	1268	2879
Hepatitis C: total*	16	5	499	383	2034	1128	698	336	76	79	3326	1932	5277
Hepatitis C: acute viral*	0	0	20	17	50	28	8	3	1	0	79	48	127
Hepatitis C: other*	16	5	479	366	1984	1100	690	333	75	79	3247	1884	5150
Hepatitis D*	0	0	3	0	5	0	4	0	0	0	12	0	12
Hepatitis E*	0	0	2	0	2	1	0	1	0	0	4	2	6
HIV infection*	0	0	27	13	262	15	75	4	8	0	372	32	414
Haemolytic uraemic syndrome	1	3	1	0	0	0	0	0	0	0	2	3	5
Influenza: total*	265	217	61	37	32	46	43	43	67	50	468	393	861
Influenza: type A*	249	207	53	31	29	34	29	32	59	44	419	348	767
Influenza: type B*	3	2	6	5	3	8	10	9	4	5	26	29	55
Influenza: NOS*	13	8	2	1	0	4	4	2	4	1	23	16	39
Legionnaires' disease: total*	0	0	0	0	3	2	22	8	17	8	42	18	60
Legionnaires' disease: <i>L. longbeachae</i> *	0	0	0	0	1	1	15	5	10	5	26	11	37
Legionnaires' disease: <i>L. pneumophila</i> *	0	0	0	0	2	1	7	3	7	3	16	7	23
Leprosy	0	0	0	0	1	0	0	0	0	0	1	0	1
Leptospirosis*	1	0	7	1	11	4	7	3	3	0	29	8	37
Listeriosis*	1	2	0	1	0	0	2	4	8	10	11	17	28
Malaria*	0	3	24	12	48	16	25	4	5	2	102	37	144
Measles: total	6	0	3	3	4	2	0	0	0	0	13	5	18
Measles: laboratory confirmed*	5	0	3	3	2	1	0	0	0	0	10	4	14
Measles: other	1	0	0	0	2	1	0	0	0	0	3	1	4
Meningococcal disease (invasive): total	40	26	46	35	13	8	8	12	6	9	113	90	203
Meningococcal disease: type B*	28	22	13	13	2	4	2	9	4	3	49	51	100
Meningococcal disease: type C*	3	1	18	13	4	2	2	1	1	1	28	18	46
Meningococcal disease: type W135*	0	0	1	1	0	0	0	0	0	0	1	1	2
Meningococcal disease: type Y*	0	0	0	0	0	0	0	1	0	4	0	5	5
Meningococcal disease: other	9	3	14	8	7	2	4	1	1	1	35	15	50
Mumps*	0	1	1	7	12	5	5	3	0	1	18	17	35
Paratyphoid*	0	1	6	1	8	2	3	1	0	0	17	5	22
Pertussis	120	105	574	552	277	413	228	333	72	93	1271	1497	2768
Pneumococcal disease: invasive*	137	112	32	23	61	64	63	57	124	112	417	368	785
Psittacosis*	1	1	2	4	15	14	23	16	7	4	48	39	87
Q fever*	2	0	40	13	70	27	74	27	22	4	208	71	280
Rubella: total*	2	1	5	3	7	3	1	2	0	0	15	9	24
Rubella*	2	0	5	3	7	3	1	2	0	0	15	8	23
Rubella: congenital*	0	1	0	0	0	0	0	0	0	0	0	1	1
Salmonellosis*	269	263	259	269	201	190	104	120	77	85	910	927	1843
Shigellosis*	3	3	4	6	16	13	9	2	1	2	33	26	59
Syphilis: total	0	8	20	38	311	114	192	31	73	50	596	241	838
Syphilis: infectious* +	0	0	11	8	151	13	52	4	2	1	216	26	242
Syphilis: congenital	0	2	0	0	0	0	0	0	0	0	0	2	2
Syphilis: other*	0	6	9	30	160	101	140	27	71	49	380	213	594
Tetanus	0	0	0	0	0	0	0	0	1	0	1	0	1
Tuberculosis*	6	6	26	23	80	78	34	56	40	32	186	195	381
Typhoid*	0	0	3	2	5	0	0	0	1	0	9	2	11
Verotoxigenic <i>Escherichia coli</i> infections*	0	0	0	0	0	1	0	1	0	0	0	2	2

# onset = the earlier of patient reported onset date, specimen date or date of notification; \* = laboratory-confirmed cases only;  
NOS = not otherwise specified; + includes syphilis primary, syphilis secondary and syphilis <1 years duration.

a = includes cases with unknown age and sex; b = includes 2 transgender cases within the 45–64 age group.

TABLE 6

REPORTED DEATHS OF RESIDENTS BY YEAR OF ONSET OF ILLNESS,<sup>#</sup> NSW, 1991 TO 2003

Conditions	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Adverse event after immunisation	0	1	0	1	0	2	1	0	1	1	2	1	0
Arbovirus infection: total*	2	1	0	0	0	0	0	0	0	0	1	0	0
Ross River virus infections*	2	1	0	0	0	0	0	0	0	0	1	0	0
Blood lead level ≥ 15 µg/dL*								not notifiable until Dec 1996		2	0	0	0
Chlamydia trachomatis infections*	0	0	0	0	0	0	0	0	0	0	0	1	0
Foodborne illness: NOS	1	0	1	0	0	0	0	0	0	0	0	0	0
Gastroenteritis: institutional	0	1	2	0	1	0	0	1	0	2	1	15	0
Giardiasis*								not notifiable until Dec 1998			1	0	0
Gonorrhoea*	0	1	0	0	0	0	0	1	0	0	0	0	0
<i>H. influenzae</i> type b: total*	4	4	4	1	0	2	0	0	0	1	1	0	0
<i>H. influenzae</i> type b epiglottitis*	0	1	0	0	0	0	0	0	0	1	0	0	0
<i>H. influenzae</i> type b infection: NOS*	2	0	1	0	0	0	0	0	0	0	1	0	0
<i>H. influenzae</i> type b meningitis*	2	3	3	0	0	0	0	0	0	0	0	0	0
<i>H. influenzae</i> type b septicaemia*	0	0	0	1	0	2	0	0	0	0	0	0	0
Hepatitis A*	2	1	0	0	0	0	1	2	0	0	0	1	0
Hepatitis B: total*	4	5	6	1	1	1	1	1	1	1	4	1	2
Hepatitis B: acute viral*	0	0	1	0	0	0	0	0	0	0	0	0	1
Hepatitis B: other*	4	5	5	1	1	1	1	1	1	1	4	1	1
Hepatitis C: total*	4	12	6	6	8	15	23	13	17	20	18	10	8
Hepatitis C: acute viral*	0	1	0	0	0	0	0	0	0	0	2	0	0
Hepatitis C: other*	4	11	6	6	8	15	23	13	17	20	16	10	8
Hepatitis E*	0	0	0	0	0	0	0	0	0	0	1	0	0
HIV infection*£	444	455	446	424	261	137	53	45	32	31	19	22	27
AIDS	395	368	381	368	228	119	41	37	23	23	12	11	14
Haemolytic uraemic syndrome								not notifiable until Dec 1996		0	0	1	0
Influenza: total*								not notifiable until Dec 2000			0	0	1
Influenza: type A*								not notifiable until Dec 2000			0	0	1
Legionnaires' disease: total*	6	12	8	8	7	9	2	6	4	2	3	1	2
Legionnaires' disease: <i>L. longbeachae</i> *	0	1	2	0	1	1	0	5	1	1	1	1	0
Legionnaires' disease: <i>L. pneumophila</i> *	1	10	5	3	4	6	2	0	2	1	2	0	2
Legionnaires' disease: other	5	1	1	5	2	2	0	1	1	0	0	0	0
Leptospirosis*	0	0	0	0	0	0	1	0	0	0	0	1	0
Listeriosis*	0	0	2	2	2	9	1	5	4	4	3	1	6
Malaria*	0	1	0	0	0	0	0	0	0	0	0	0	0
Measles: total	3	2	0	0	0	0	0	0	0	0	0	0	0
Measles: laboratory confirmed*	1	0	0	0	0	0	0	0	0	0	0	0	0
Measles: other	2	2	0	0	0	0	0	0	0	0	0	0	0
Meningococcal disease (invasive): total	0	0	2	2	3	2	6	13	12	11	7	18	12
Meningococcal disease: type B*	0	0	1	1	3	0	4	2	7	6	2	8	6
Meningococcal disease: type C*	0	0	1	1	0	2	2	10	4	4	5	10	6
Meningococcal disease: type W135*	0	0	0	0	0	0	0	0	1	0	0	0	0
Meningococcal disease: type Y*	0	0	0	0	0	0	0	1	0	1	0	0	0
Meningococcal disease: other	3	8	9	13	4	5	1	4	2	3	0	1	2
Pertussis	0	0	0	0	2	2	3	1	1	2	0	0	1
Pneumococcal disease: invasive*								not notifiable until Dec 2000			6	96	68
Psittacosis*								not notifiable until Dec 2000			1	1	0
Q fever*	0	0	0	1	0	1	0	0	2	0	0	1	0
Salmonella infection*	3	0	0	0	4	4	4	3	3	1	2	3	0
Syphilis: total	0	0	0	1	1	0	1	0	1	2	1	1	1
Syphilis: infectious*+	0	0	0	0	0	0	0	0	0	0	0	1	0
Syphilis: congenital	0	0	0	1	1	0	0	0	0	1	0	0	0
Syphilis: other*	0	0	0	0	0	0	1	0	1	1	1	0	1
Tetanus	0	0	1	0	0	0	0	0	0	0	0	0	0
Tuberculosis*	10	26	31	25	23	16	21	25	29	40	33	39	19

# onset = the earlier of patient reported onset date, specimen date or date of notification; \* = laboratory-confirmed cases only;  
 NOS = not otherwise specified; £ = deaths in people with HIV may be reported as related to AIDS or where the cause is apparently unrelated to their HIV infection; + includes syphilis primary, syphilis secondary and syphilis <1 years duration.