NSW HEALTH

Vol. 19(5–6) • May–June 2008
State Health Publication PH 080116
ISSN 1034 7674

NSW PUBLIC HEALTH BULLETIN

Year in Review 2007

Year in review: communicable disease surveillance, NSW, 2007

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In this issue, we present our annual review of notifiable diseases among New South Wales (NSW) residents. Readers interested in the details of notifications for specific diseases are referred to in Tables 2–6 where diseases are reported by: year of onset; month of onset; Area Health Service (AHS); and age group and sex.

Trends

Among the 46706 notifications of medical conditions by doctors, hospital staff and laboratory staff in NSW residents in 2007, highlights included:

Conditions most frequently reported

- *Chlamydia trachomatis* infections: 12447 cases (181 per 100000 population) with the highest crude rates by geographical area in the South Eastern Sydney Illawarra (Randwick region), Sydney South West (Camperdown region), Hunter New England (Tamworth region) and Greater West (Broken Hill region) AHSs.
- Hepatitis C: 4259 cases (62 per 100000 population) with the highest crude rates in the Greater Western (Broken Hill region), North Coast (Lismore region) and Sydney South West (Camperdown region) AHSs.
- Hepatitis B: 2656 cases (39 per 100000 population) with the highest crude rates in the Sydney South West (Camperdown and Liverpool regions) and Sydney West (Parramatta region) AHSs.
- *Salmonella* infections: 2564 cases (37 per 100000 population) with the highest crude rates in the North Coast (Lismore region), Northern Sydney Central Coast (Gosford region) and Sydney South West (Camperdown region) AHSs.
- Pertussis: 2093 cases (30 per 100000 population) with the highest crude rates in Greater Western (Dubbo region), Sydney West (Parramatta region) and South Eastern Sydney Illawarra (Randwick region) AHSs.

Conditions with the most meaningful declines in the number of notifications compared with previous years

- Measles: four cases in 2007, the lowest annual count to date and a striking decrease compared with 2348 cases notified in 1993. No local measles transmission occurred in 2007 with all four cases resulting from exposure overseas.
- Meningococcal serogroup C disease: 10 cases reported for 2007, the lowest number of notifications since laboratory reporting began in 1991, largely due to the introduction of meningococcal C vaccination in late 2003.
- Gonorrhoea: 1384 cases in 2007 compared with 1736 cases in 2006, a decrease of 20%.
- Hepatitis A: a record low number of 65 cases, decreased from 1119 in 1991, perhaps in part due to the introduction of a commercially based vaccination in the 1990s. Travel to endemic countries was the most commonly reported risk factor for disease acquisition in 2007.
- Psittacosis: 34 cases, a 64% decrease compared with 2006.
- Leptospirosis: eight cases, down from 66 in 2001.

Conditions with the most meaningful increases in the number of notifications compared with previous years

- *Salmonella* infections: 2564 cases, the highest annual count to date.[1] This increase is mainly due to a large point-source outbreak affecting 319 people who ate Vietnamese-style pork or chicken rolls from a bakery.
- Infectious syphilis, primarily affecting homosexual men residing in metropolitan Sydney.
- Mumps: 323 cases, a steady increase from 28 cases in 2001. This increase occurred mainly in the second half of the year in young adults in South East Sydney Illawarra (Randwick region) AHS.

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10.1071/NB08013

- Legionnaire disease: 73 reported *Legionella pneumophila* infections in part due to an outbreak in Sydney central business district in January.
- Influenza with high rates of disease reported in July and August. There were 25 reported influenza (influenza A) outbreaks in 2007: 21 in aged-care facilities, three in military facilities and one in a boarding school.
- Verotoxigenic *Escherichia coli* (VTEC) infections: 23 cases reported, compared with 10 cases reported in 2006. All cases were investigated and no epidemiological links were identified.
- Giardiasis: 1940 cases reported compared with 1725 reported in 2006.

Table 1. The five most commonly reported notifiable diseases by age group, NSW, 2007

Age group	Rate/100 000
Children under 5 years	
1. *Salmonella* infection	146
2. Giardiasis	129
3. Influenza	97
4. Cryptosporidiosis	44
5. Pertussis	41
Children (5 to 15 years)	
1. *Salmonella* infection	37
2. Giardiasis	27
3. Chlamydia*#	24
4. Pertussis	21
5. Influenza	19
Young adults (16 to 24 years)	
1. Chlamydia*	818
2. Hepatitis C	53
3. Hepatitis B	48
4. Gonorrhoea	40
5. Salmonella infection	40
Adults (25 to 44 years)	
1. Chlamydia*	241
2. Hepatitis C	124
3. Hepatitis B	74
4. Gonorrhoea	41
5. Giardiasis	32
Adults (45 to 64 years)	
1. Hepatitis C	70
2. Pertussis	39
3. Hepatitis B	37
4. Arboviral infection	34
5. Chlamydia*	30
Older Adults (65 years)	
1. Influenza	36
2. Pertussis	33
3. *Salmonella* infection	24
4. Arboviral infection	21
5. Invasive pneumococcal disease	19

* refers to *Chlamydia trachomatis* infection.

two-thirds of the notifications reported in this age group were in 15 year olds. Where a case is reported in a child under16 years old, the relevant public health unit contacts the treating doctor outlining his/her obligation to notify the Department of Community Services.

Source: NSW Notifiable Diseases Database.

Conditions least frequently reported

There were no reported cases of anthrax, avian influenza, botulism, chancroid, diphtheria, granuloma inguinale, lyssavirus, plague, polio, rabies, severe acute respiratory syndrome (SARS), smallpox, tularaemia, typhus, viral haemorrhagic fever or yellow fever in NSW in 2007.

Top five notifiable diseases

Rates for the most commonly reported notifiable diseases for each age group and geographical area of residence at the time of notification are presented in Fig. 1 and Table 1. These lists indicate the relative importance of notifiable diseases only and should not be used to indicate the spread of all infectious diseases in NSW. It should also be noted that these rates are heavily influenced by testing practices and, in many instances, do not necessarily indicate the true or relative incidence in the community. Finally, these lists do not include the institutional gastrointestinal outbreaks as comprehensive demographic data are not collected for such outbreaks.

Geographical distribution of notifiable diseases

- *Chlamydia trachomatis* infection was the most commonly reported infection across NSW with highest rates observed in regional areas followed by rural and metropolitan areas.
- Rates of hepatitis C infection were comparable across rural, regional and metropolitan areas. Most of these cases will represent chronic infection rather than acute hepatitis C acquisition and as such may not accurately reflect the recent spread of the hepatitis C epidemic.
- Arboviral infections are more commonly reported in people residing in rural and regional areas than in metropolitan areas, relating to the distribution of infected mosquitoes.
- Higher rates of disease are reported for Justice Health compared with the rest of NSW, likely related to higher testing rates for bloodborne viruses and sexually transmitted infections on entry into correctional facilities. Within this population, hepatitis C was the most commonly reported infection, attributable to high rates of injecting drug use.

Age distribution of notifiable diseases

- Gastrointestinal and respiratory diseases are most commonly reported in children aged under 5 years. This is influenced by the higher testing rates in this age group.

Table 2. Disease notifications by year of onset of illness [a], NSW, 1991–2007

Condition	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Adverse event after immunisation	9	31	23	40	28	56	70	95	16	42	111	178	219	186	107	70	224
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arboviral infection	408	343	656	381	539	1227	1806	783	1220	980	1191	665	1024	1148	1088	1917	1498
Barmah Forest virus[b]	6	6	25	39	271	172	185	134	249	197	401	396	451	403	448	644	573
Ross River virus[b]	297	324	599	331	236	1031	1598	583	952	750	717	183	494	701	584	1221	841
Other[b]	105	13	32	11	32	24	23	66	19	33	73	86	79	44	56	52	84
Blood lead level ≥ 15ug/dL[b]	Not notifiable until December 1996						710	874	691	985	513	516	338	304	234	298	263
Botulism	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
Brucellosis[b]	2	2	4	4	2	1	3	3	2	1	1	2	3	7	3	10	3
Chancroid[b]	Not notifiable until December 1998								1	0	0	0	0	0	0	0	0
Chlamydia trachomatis infection									2469	3509	4500	5823	7788	10030	11285	12057	12447
Congenital chlamydia[b]	Not notifiable until August 1998								14	18	16	15	23	28	46	39	31
Chlamydia – other[b]	Not notifiable until August 1998								2455	3491	4484	5808	7765	10002	11239	12018	12416
Cholera[b]	1	0	1	0	1	3	1	1	2	0	1	1	0	1	0	3	2
Creutzfeldt–Jakob disease[b]	Not notifiable until April 2004													6	8	10	7
Cryptosporidiosis[b]	Not notifiable until December 1996						157	1130	121	134	195	306	203	357	849	778	544
Foodborne illness (NOS)[e]	2765	253	106	213	270	211	255	201	151	147	56	41	1071	550	309	507	763
Gastroenteritis (institutional)	158	406	443	296	1359	554	939	738	673	697	775	1752	3583	12784	1395	10641	10488
Giardiasis[b]	Not notifiable until August 1998								1091	978	967	863	1028	1234	1448	1725	1940
Gonorrhoea[b]	392	491	382	357	428	522	636	1054	1291	1060	1364	1527	1328	1442	1579	1736	1384
Haemolytic uraemic syndrome	Not notifiable until December 1996						3	6	11	9	2	7	5	9	11	11	13
Haemophilus influenzae serotype [b]	212	217	124	61	29	13	17	11	13	8	7	10	6	5	7	11	7
Hib epiglottitis[b]	15	57	32	21	6	2	5	1	2	2	1	1	0	3	0	1	1
Hib meningitis[b]	48	103	53	17	11	4	3	3	3	1	1	1	0	0	2	0	2
Hib septicaemia[b]	11	26	24	12	8	3	1	4	6	4	2	3	1	2	4	6	2
Hib infection NOS[b]	138	31	15	11	4	4	8	3	2	1	3	5	5	0	1	4	2
Hepatitis A[b]	1119	901	579	585	614	958	1426	927	421	201	197	149	124	137	83	95	65
Hepatitis B	1492	3169	3603	3983	4007	3504	3167	2957	3508	3972	4556	3546	2845	2812	2742	2518	2656
Hepatitis B – acute viral[b]	409	112	95	74	61	43	53	58	77	100	94	88	74	53	56	53	56
Hepatitis B – other[b]	1083	3057	3508	3909	3946	3461	3114	2899	3431	3872	4462	3458	2771	2759	2686	2465	2600
Hepatitis C	851	3895	5896	7820	6878	7000	6926	7206	8598	8297	8654	6694	5249	4915	4364	4392	4259
Hepatitis C – acute viral[b]	22	26	22	16	32	18	19	112	112	222	295	152	127	59	43	55	53
Hepatitis C – other[b]	829	3869	5874	7804	6846	6982	6907	7094	8486	8075	8359	6542	5122	4856	4321	4337	4206
Hepatitis D[b]	0	8	12	19	19	9	11	3	14	12	11	9	12	14	15	15	11
Hepatitis E[b]	0	0	1	2	0	3	6	4	7	9	6	6	6	8	7	10	8
HIV infection[b]	823	693	589	502	536	447	423	402	377	352	340	393	413	407	391	369	404
Influenza	Not notifiable until December 2000										244	1012	861	1011	1414	617	1918
Influenza – Type A[b]	Not notifiable until December 2000										216	770	767	797	1055	421	1487
Influenza – Type B[b]	Not notifiable until December 2000										27	241	55	161	280	150	180
Influenza – Type A & B[b]	Not notifiable until December 2003													26	65	37	43
Influenza – Type NOS[b]	Not notifiable until December 2000										1	1	39	27	14	9	208
Legionellosis	37	104	66	60	75	74	33	46	41	41	68	44	60	80	89	78	105
Legionella longbeachae[b]	0	14	13	8	16	30	9	19	12	12	29	21	37	27	24	22	29
L. pneumophila[b]	16	80	34	30	35	34	18	22	22	26	38	22	23	51	64	55	73
Legionnaire disease other	21	10	19	22	24	10	6	5	7	3	1	1	0	2	1	1	3
Leprosy	1	7	5	3	3	2	0	0	1	2	4	0	2	5	1	1	4
Leptospirosis[b]	28	21	16	14	6	33	33	50	56	54	66	39	39	40	35	18	8
Listeriosis[b]	11	13	12	10	14	22	23	28	22	18	12	11	28	30	25	26	22
Lymphogranuloma venereum (LGV)[b]	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0
Malaria[b]	171	110	174	184	96	204	173	158	174	232	157	105	120	101	206	140	98
Measles	495	805	2348	1484	596	191	273	119	32	36	31	8	18	12	5	60	4
Measles laboratory confirmed	19	76	460	302	138	35	98	19	13	22	18	6	14	11	4	48	4
Measles – other	476	729	1888	1182	458	156	175	100	19	14	13	2	4	1	1	12	0
Meningococcal disease	128	121	153	142	113	161	218	186	221	253	234	216	202	149	140	107	112
Meningococcal – serogroup B[b]	0	3	7	7	23	36	53	55	95	93	90	105	100	81	73	54	76
Meningococcal – serogroup C[b]	0	4	6	9	8	35	55	55	60	64	38	54	45	24	16	13	10
Meningococcal – serogroup W135[b]	0	0	0	0	1	0	2	4	4	4	2	2	2	5	8	5	2
Meningococcal – serogroup Y[b]	0	0	1	1	0	1	0	7	1	7	2	2	5	3	3	1	5
Meningococcal – other	128	114	139	125	81	89	108	65	61	85	102	53	50	36	40	34	19
Mumps[b]	8	23	13	11	14	27	29	39	33	92	28	29	35	65	111	155	323
Paratyphoid[b,d]	20	8	9	11	12	15	5	9	5	14	11	13	22	10	0	0	0
Pertussis	49	217	1533	1405	1369	1156	4246	2309	1415	3691	4437	2012	2772	3569	5809	4918	2093
Pneumococcal disease (invasive)[b]	Not notifiable until December 2000										444	862	802	906	641	565	522
Psittacosis[b]	Not notifiable until December 2000										38	155	87	81	121	94	34
Q fever[b]	167	213	403	267	201	287	258	236	164	132	144	310	288	223	143	175	215
Rubella	60	324	1186	233	2376	636	153	78	46	191	58	35	24	18	10	37	9
Congenital rubella[b]	1	0	2	4	1	5	0	0	1	0	0	0	1	1	0	0	1
Rubella – other[b]	59	324	1184	229	2375	631	153	78	45	191	58	35	23	17	10	37	8
Salmonella infection[b,d]	1115	819	1001	1125	1393	1250	1721	1826	1470	1426	1671	2112	1842	2145	2184	2071	2564
Shigellosis[b]	Not notifiable until December 2000										134	85	59	96	135	75	71
Syphilis	580	873	730	963	835	662	510	611	584	580	547	646	842	1042	841	892	1115
Congenital syphilis	1	1	0	2	6	3	3	0	3	2	1	1	3	1	5	4	4
Infectious syphilis [b,c]	1	3	6	29	132	72	57	45	86	81	67	128	244	302	242	232	434
Syphilis – other[b]	578	869	724	932	697	587	450	566	495	497	479	517	595	739	594	656	677
Tetanus	5	2	5	4	0	1	3	3	1	3	0	0	1	1	1	2	2
Tuberculosis[b]	429	394	389	394	443	410	422	382	483	448	416	447	386	431	452	463	452
Typhoid[b]	11	3	7	1	0	3	5	1	0	3	5	14	13	35	25	31	26
Verotoxin-producing *Escherichia coli* infections[b]	Not notifiable until December 1996						0	2	0	1	1	6	3	5	16	10	23

[a]Year of onset: the earlier of patient reported onset date, specimen date or date of notification. [b]Laboratory-confirmed cases only. [c]Includes Syphilis primary, Syphilis secondary, Syphilis < 1 year duration and Syphilis newly acquired. [d]From 2005, all paratyphoid recorded as salmonellosis. [e]Foodborne illness cases are only those notified as part of an outbreak.

NOS: not otherwise specified. No case of the following diseases have been notified since 1991: Plague[b], Diphtheria[b], Granuloma inguinale[b], Lyssavirus[b], Poliomyelitis[b], Rabies, Smallpox, Typhus[b], Viral haemorrhagic fever, Yellow fever. Due to data delay AIDS notifications will be reported in a later edition.

Table 3. Disease notifications by month of onset of illness[a], NSW, 2007

Conditions	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Adverse event after immunisation	6	3	11	11	59	39	20	23	21	13	13	5	224
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0
Arboviral infection	97	97	163	234	196	99	83	80	89	114	127	119	1498
Barmah Forest virus[b]	43	35	76	125	77	29	32	27	27	34	38	30	573
Ross River virus[b]	45	52	76	102	113	66	42	46	61	76	84	78	841
Other[b]	9	10	11	7	6	4	9	7	1	4	5	11	84
Blood lead level ≥ 15ug/dL[b]	7	7	26	9	24	15	38	47	36	23	20	11	263
Botulism	0	0	0	0	0	0	0	0	0	0	0	0	0
Brucellosis[b]	1	1	1	0	0	0	0	0	0	0	0	0	3
Chancroid[b]	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlamydia trachomatis infection	1039	1196	1203	913	1080	958	1011	970	927	1138	1157	855	12447
Congenital chlamydia[b]	2	2	3	3	3	2	4	3	3	0	3	3	31
Chlamydia – other [b]	1037	1194	1200	910	1077	956	1007	967	924	1138	1154	852	12416
Cholera[b]	0	0	1	0	0	1	0	0	0	0	0	0	2
Creutzfeldt–Jakob disease[b]	1	0	0	3	0	2	1	0	0	0	0	0	7
Cryptosporidiosis[b]	37	42	25	32	33	16	18	15	22	35	157	112	544
Foodborne illness (NOS)[e]	77	67	395	21	38	21	30	15	34	38	27	0	763
Gastroenteritis (institutional)	154	221	423	438	562	873	1794	1471	1543	1679	935	395	10488
Giardiasis[b]	161	191	245	151	185	159	147	149	122	122	190	118	1940
Gonorrhoea[b]	144	119	133	118	132	116	87	91	96	125	98	125	1384
Haemolytic uraemic syndrome	2	1	1	1	0	0	1	0	1	1	2	3	13
Haemophilus influenzae serotype b	0	0	0	0	0	1	1	2	0	1	2	0	7
Hib epiglottitis[b]	0	0	0	0	0	0	0	0	0	0	1	0	1
Hib meningitis[b]	0	0	0	0	0	1	0	0	0	0	1	0	2
Hib septicaemia[b]	0	0	0	0	0	0	1	1	0	0	0	0	2
Hib infection NOS[b]	0	0	0	0	0	0	0	1	0	1	0	0	2
Hepatitis A[b]	9	11	3	3	4	5	8	6	2	3	5	6	65
Hepatitis B	242	204	268	224	224	219	232	215	205	210	240	173	2656
Hepatitis B – acute viral[b]	9	4	4	3	8	7	2	1	5	1	11	1	56
Hepatitis B – other[b]	233	200	264	221	216	212	230	214	200	209	229	172	2600
Hepatitis C	372	344	422	323	399	330	331	384	357	378	346	273	4259
Hepatitis C – acute viral[b]	4	9	3	4	7	3	8	7	4	2	2	0	53
Hepatitis C – other[b]	368	335	419	319	392	327	323	377	353	376	344	273	4206
Hepatitis D[b]	2	0	1	2	2	0	2	0	1	1	0	0	11
Hepatitis E[b]	0	0	4	0	0	0	1	1	0	1	0	1	8
HIV infection[b]	34	45	32	34	47	23	31	35	27	31	35	30	404
Influenza	37	33	37	51	26	90	583	754	179	66	39	23	1918
Influenza-Type A[b]	29	18	30	30	15	68	526	601	102	35	24	9	1487
Influenza-Type B[b]	3	12	5	8	5	10	27	38	29	22	13	8	180
Influenza-Type A & B[b]	3	0	2	10	3	6	4	6	5	3	1	0	43
Influenza-Type NOS[b]	2	3	0	3	3	6	26	109	43	6	1	6	208
Legionellosis	14	12	8	13	7	10	7	2	4	4	12	12	105
Legionella longbeachae[b]	3	5	3	6	1	2	3	0	1	1	2	2	29
L. pneumophila[b]	11	7	5	7	6	8	4	1	3	3	8	10	73
Legionnaire disease other	0	0	0	0	0	0	0	1	0	0	2	0	3
Leprosy	1	1	1	0	0	0	0	0	0	0	0	1	4
Leptospirosis[b]	1	1	3	0	0	0	0	1	1	0	1	0	8
Listeriosis[b]	3	2	1	3	1	1	2	2	1	0	4	2	22
Lymphogranuloma venereum (LGV)[b]	0	0	0	0	0	0	0	0	0	0	0	0	0
Malaria[b]	9	9	10	5	8	6	5	12	10	12	7	5	98
Measles	0	1	1	0	1	0	1	0	0	0	0	0	4
Measles laboratory confirmed	0	1	1	0	1	0	1	0	0	0	0	0	4
Measles – other	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	7	0	10	5	7	9	13	21	9	12	8	11	112
Meningococcal – serogroup B[b]	6	0	4	2	2	5	8	17	8	7	7	10	76
Meningococcal – serogroup C[b]	1	0	3	2	2	0	0	0	1	0	1	0	10
Meningococcal – serogroup W135[b]	0	0	1	0	0	1	0	0	0	0	0	0	2
Meningococcal – serogroup Y[b]	0	0	0	0	0	2	1	0	0	1	0	1	5
Meningococcal – other	0	0	2	1	3	1	4	4	0	4	0	0	19
Mumps[b]	15	4	5	11	29	17	15	27	38	56	59	47	323
Pertussis	122	136	100	112	167	174	211	180	177	268	255	191	2093
Pneumococcal disease (invasive)[b]	25	18	30	36	35	61	85	78	48	43	38	25	522
Psittacosis[b]	5	3	3	5	5	1	0	2	1	5	3	1	34
Q fever[b]	23	18	14	14	20	15	15	15	16	21	24	20	215
Rubella	0	2	1	0	1	4	0	0	0	0	1	0	9
Congenital rubella[b]	0	0	0	0	0	1	0	0	0	0	0	0	1
Rubella – other[b]	0	2	1	0	1	3	0	0	0	0	1	0	8
Salmonella infection[b,d]	233	314	510	317	186	126	108	114	115	155	202	184	2564
Shigellosis[b]	4	4	9	7	8	4	6	12	3	4	4	6	71
Syphilis	93	93	107	78	105	97	78	118	83	85	98	80	1115
Congenital syphilis	0	1	1	0	0	0	0	0	0	0	1	1	4
Infectious syphilis [b,c]	40	38	29	33	41	43	35	41	27	30	49	28	434
Syphilis – other[b]	53	54	77	45	64	54	43	77	56	55	48	51	677
Tetanus	0	0	0	0	0	0	1	0	0	0	0	1	2
Tuberculosis[b]	54	45	49	38	27	46	31	36	37	41	28	20	452
Typhoid[b]	2	6	3	6	2	1	3	2	0	0	1	0	26
Verotoxin - producing *Escherichia coli* infections[b]	1	1	1	1	1	0	0	0	0	5	8	5	23

[a]Year of onset: the earlier of patient reported onset date, specimen date or date of notification. [b]Laboratory-confirmed cases only. [c]Includes Syphilis primary, Syphilis secondary, Syphilis < 1 year duration and Syphilis newly acquired. [d]Includes all paratyphoid cases. [e]Foodborne illness cases are only those notified as part of an outbreak. NOS: not otherwise specified. No case of the following diseases have been notified since 1991: Plague[b], Diphtheria[b], Granuloma inguinale[b], Lyssavirusb, Poliomyelitis[b], Rabies, Smallpox, Typhus[b], Viral haemorrhagic fever, Yellow fever. Due to data delay AIDS notifications will be reported in a later edition.

Table 4. Disease notifications by Area Health Service of residence (2005 AHS boundaries), crude rates per 100 000 population, NSW, 2007

Condition	Greater Southern[f]		Greater Western[f]			Hunter New England[f]		North Coast[f]	
	Albury	Goulburn	Broken Hill	Dubbo	Bathurst	Newcastle	Tamworth	Port Macquarie	Lismore
Adverse event after immunisation	7.12	8.14	2.22	4.83	5.79	2.57	1.68	1.39	2.46
Anthrax	0	0	0	0	0	0	0	0	0
Arboviral infection	22.11	64.13	66.71	84.07	15.62	57.46	38.05	76.72	74.85
Barmah Forest virus[b]	2.62	50.25	4.45	9.66	2.31	20.24	9.51	31.24	39
Ross River virus[b]	19.12	12.92	62.26	73.44	12.73	36.88	27.42	44.09	31.98
Other[b]	0.37	0.96	0	0.97	0.58	0.34	1.12	1.39	3.87
Blood lead level ≥ 15ug/dL[b]	3	1.91	11.12	71.5	4.63	3.77	0.56	0.69	1.05
Botulism	0	0	0	0	0	0	0	0	0
Brucellosis[b]	0	0	0	0	0.58	0	0	0	0
Chancroid[b]	0	0	0	0	0	0	0	0	0
Chlamydia trachomatis infection	176.6	126.3	231.3	143	206.6	229	232.2	123.6	217.2
Congenital chlamydia[b]	0.37	0.96	2.22	0	0.58	0.34	0	0.35	0.7
Chlamydia – other [b]	176.2	125.4	229	143	206	228.7	232.2	123.2	216.5
Cholera[b]	0	0	0	0	0	0	0	0	0
Creutzfeldt–Jakob disease[b]	0	0	0	0	0	0.17	0	0	0
Cryptosporidiosis[b]	19.49	6.7	4.45	16.43	19.1	7.21	35.26	9.37	17.22
Giardiasis[b]	17.62	15.31	8.89	42.52	16.78	28.65	33.02	19.09	5.97
Gonorrhoea[b]	5.25	1.91	0	3.87	6.37	12.87	5.6	2.43	14.76
Haemolytic uraemic syndrome	0	0	0	0	0.58	0.86	0.56	0	0
H.influenzae serotype b	0.37	0	0	0	0	0.17	0	0.35	0
Hib epiglottitis[b]	0	0	0	0	0	0	0	0	0
Hib meningitis[b]	0.37	0	0	0	0	0	0	0.35	0
Hib septicaemia[b]	0	0	0	0	0	0.17	0	0	0
Hib infection NOS[b]	0	0	0	0	0	0	0	0	0
Hepatitis A[b]	0	0	0	0.97	0.58	0.17	0	0.35	1.76
Hepatitis B	13.49	11.01	22.24	9.67	1.16	8.4	10.63	5.9	12.65
Hepatitis B – acute viral[b]	0.75	1.44	0	0.97	0	1.37	0	0	0.7
Hepatitis B – other[b]	12.74	9.57	22.24	8.7	1.16	7.03	10.63	5.9	11.95
Hepatitis C	38.98	55.04	77.82	68.6	61.34	55.07	50.93	48.25	76.25
Hepatitis C – acute viral[b]	0.37	1.44	6.67	4.83	0.58	0.69	1.68	0	0
Hepatitis C – other[b]	38.61	53.6	71.15	63.77	60.76	54.38	49.25	48.25	76.25
Hepatitis D[b]	0	0	0	0	0	0	0	0	0
Hepatitis E[b]	0	0	0	0	0	0	0	0	0
HIV infection[b]	0.75	1.44	0	1.93	1.16	3.09	0.56	1.39	1.41
Influenza	14.98	35.9	22.24	19.33	37.04	37.22	45.33	15.27	58.32
Influenza-Type A[b]	13.87	33.5	22.24	16.43	34.72	32.42	40.85	14.23	21.43
Influenza-Type B[b]	0.37	1.44	0	2.9	1.74	4.8	3.36	0	1.05
Influenza-Type A & B[b]	0.37	0.96	0	0	0	0	0.56	0	1.05
Influenza-Type NOS[b]	0.37	0	0	0	0.58	0	0.56	1.04	34.79
Legionellosis	1.12	2.39	0	0	0	0.85	2.24	1.38	1.05
L. longbeachae[b]	0.37	0.48	0	0	0	0.34	1.12	0.69	0
L. pneumophila[b]	0	1.91	0	0	0	0.51	0.56	0.69	1.05
Legionnaire disease other	0.75	0	0	0	0	0	0.56	0	0
Leprosy	0	0	0	0	0	0	0	0	0
Leptospirosis[b]	0	0	0	0.97	0	0.17	0.56	0.69	1.05
Listeriosis[b]	0	0	2.22	0	0	0.86	0	0	0
Lymphogranuloma venereum (LGV)[b]	0	0	0	0	0	0	0	0	0
Malaria[b]	1.12	2.87	0	0	0.58	2.4	1.12	1.39	0.7
Measles	0	0	0	0	0	0	0	0	0
Measles laboratory confirmed	0	0	0	0	0	0	0	0	0
Measles – other	0	0	0	0	0	0	0	0	0
Meningococcal disease	1.49	2.87	0	2.9	1.16	1.54	1.68	0.69	2.1
Meningococcal – serogroup B[b]	0.75	2.39	0	2.9	1.16	1.03	1.12	0.69	1.05
Meningococcal – serogroup C[b]	0.37	0	0	0	0	0.17	0	0	0.7
Meningococcal – serogroup W135[b]	0	0.48	0	0	0	0	0	0	0
Meningococcal – serogroup Y[b]	0	0	0	0	0	0	0	0	0
Meningococcal – other	0.37	0	0	0	0	0.34	0.56	0	0.35
Mumps[b]	0.75	0	0	0	1.16	0.86	0.56	0	0
Pertussis	23.99	26.32	13.34	55.08	10.42	34.31	35.81	16.66	32.33
Pneumococcal disease (invasive)[b]	7.87	6.7	15.57	14.49	6.94	10.98	9.51	9.03	7.03
Psittacosis[b]	1.5	0.48	2.22	1.93	1.74	0.86	0	0.35	0.7
Q fever[b]	1.5	6.22	6.67	44.45	4.63	3.6	31.9	5.55	9.49
Rubella	0	0	0	2.9	0	0	0.56	0	0
Congenital rubella[b]	0	0	0	0	0	0	0	0	0
Rubella – other[b]	0	0	0	2.9	0	0	0.56	0	0
Salmonella infection[b,d]	31.86	26.8	15.57	27.06	27.2	32.59	43.65	27.08	76.6
Shigellosis[b]	0	1.44	0	0.97	0	0.51	0.56	1.04	2.81
Syphilis	3.37	3.83	31.13	15.46	9.26	4.29	4.48	9.37	4.22
Congenital syphilis	0	0	0	0	0.58	0	0	0	0
Infectious syphilis[b,c]	0.37	0.96	2.22	0	1.74	2.06	1.12	0.69	1.76
Syphilis – other[b]	3	2.87	28.91	15.46	6.94	2.23	3.36	8.68	2.46
Tetanus	0	0	0	0	0	0	0	0	0.35
Tuberculosis[b]	1.12	2.87	0	0	0.58	2.74	0.56	1.39	1.41
Typhoid[b]	0.37	0	0	0	0	0	0	0	0
Verotoxin-producing *Escherichia coli* infections[b]	1.12	0.48	0	0	0	1.54	2.24	0	0.35

[a]Year of onset: the earlier of patient reported onset date, specimen date or date of notification. [b]Laboratory-confirmed cases only. [c]Includes Syphilis primary, Syphilis secondary, Syphilis < 1 year duration and Syphilis newly acquired. [d]Includes all paratyphoid cases. [f]AHS further divided into the geographical region covered by their component Public Health Unit.

[g]Rate is based on a denominator of 8000 persons. [h]Includes cases with unknown PHU. NOS: not otherwise specified. No case of the following diseases have been notified since 1991: Plague[b], Diphtheria[b], Granuloma inguinale[b], Lyssavirus[b], Poliomyelitis[b], Rabies, Smallpox, Typhus[b], Viral haemorrhagic fever, Yellow fever.

Due to data delay AIDS notifications will be reported in a later edition.

Table 4. ***continued***

Condition	Northern Sydney Central Coast[f]		South Eastern Sydney Illawara[f]		Sydney South West[f]		Sydney West[f]		Justice
	Gosford	Hornsby	Wollongong	Randwick	Camperdown	Liverpool	Penrith	Parramatta	Health
Adverse event after immunisation	4.84	1.73	5.08	3.07	1.14	1.93	5.98	3.63	0
Anthrax	0	0	0	0	0	0	0	0	0
Arboviral infection	21.63	4.96	26.74	5.28	3.42	1.68	4.41	3.12	12.5
Barmah Forest virus[b]	5.17	0.74	18.45	0.49	0.57	0.24	0.63	0.78	12.5
Ross River virus[b]	14.85	2.73	7.49	2.09	1.52	0.84	3.15	1.95	0
Other[b]	1.61	1.49	0.8	2.7	1.33	0.6	0.63	0.39	0
Blood lead level ≥ 15ug/dL[b]	0.97	1.24	5.61	1.59	2.66	2.77	2.52	3.89	0
Botulism	0	0	0	0	0	0	0	0	0
Brucellosis[b]	0	0	0	0.12	0	0.12	0	0	0
Chancroid[b]	0	0	0	0	0	0	0	0	0
Chlamydia trachomatis infection	186.9	133.3	154.6	280.1	253.8	99.9	128.8	135.1	1188
Congenital chlamydia[b]	0.32	0.37	0	0.12	0.19	0.36	0.63	1.17	0
Chlamydia – other [b]	186.6	132.9	154.6	279.9	253.6	99.54	128.2	134	1188
Cholera[b]	0	0.12	0	0	0.19	0	0	0	0
Creutzfeldt–Jakob disease[b]	0.32	0	0.53	0.12	0	0.12	0.31	0	0
Cryptosporidiosis[b]	7.1	5.33	4.01	4.66	4.18	5.79	6.61	4.41	0
Giardiasis[b]	26.15	38.77	22.19	40.6	38.21	14.36	26.76	34.62	25
Gonorrhoea[b]	9.36	15.48	8.56	57.53	56.46	11.58	11.97	12.45	100
Haemolytic uraemic syndrome	0	0	0.27	0.12	0.19	0.12	0	0.13	0
H.influenzae serotype b	0	0.12	0	0.12	0	0.12	0	0.13	0
Hib epiglottitis[b]	0	0.12	0	0	0	0	0	0	0
Hib meningitis[b]	0	0	0	0	0	0	0	0	0
Hib septicaemia[b]	0	0	0	0	0	0	0	0.13	0
Hib infection NOS[b]	0	0	0	0.12	0	0.12	0	0	0
Hepatitis A[b]	0	1.61	0.8	1.23	1.14	1.45	0.94	1.17	0
Hepatitis B	10.66	35.42	12.3	47.35	81.17	72.39	12.28	72.23	550
Hepatitis B – acute viral[b]	0.65	0.74	0	1.72	0.57	1.45	0.31	0.13	12.5
Hepatitis B – other[b]	10.01	34.68	12.3	45.63	80.6	70.94	11.97	72.1	537.5
Hepatitis C	60.05	25.15	49.47	48.46	75.85	59.72	50.06	49.15	7675
Hepatitis C – acute viral[b]	0	0	0	0.25	3.99	0.6	0	0.13	50
Hepatitis C – other[b]	60.05	25.15	49.47	48.21	71.86	59.12	50.06	49.02	7625
Hepatitis D[b]	0.32	0	0.53	0.37	0	0	0.31	0.52	0
Hepatitis E[b]	0.32	0.12	0	0.37	0.57	0	0	0	0
HIV infection[b]	2.58	3.84	2.41	15.7	18.44	2.9	0.94	3.89	0
Influenza	17.43	17.59	16.31	22.69	8.55	14.12	39.04	60.04	37.5
Influenza-Type A[b]	12.27	10.16	12.3	14.35	5.51	9.29	31.49	55.89	37.5
Influenza-Type B[b]	0.32	0.74	2.41	6.38	2.85	1.21	4.41	3.37	0
Influenza-Type A & B[b]	0	0.25	1.07	1.96	0	0	2.83	0.65	0
Influenza-Type NOS[b]	4.84	6.44	0.53	0	0.19	3.62	0.31	0.13	0
Legionellosis	1.3	0.99	1.6	1.6	1.52	1.57	3.15	2.47	0
L. longbeachae[b]	0.65	0.25	1.07	0.25	0	0.48	0.63	0.65	0
L. pneumophila[b]	0.65	0.74	0.53	1.35	1.52	1.09	2.52	1.82	0
Legionnaire disease other	0	0	0	0	0	0	0	0	0
Leprosy	0	0	0	0	0	0	0	0.52	0
Leptospirosis[b]	0	0	0	0	0	0	0	0	0
Listeriosis[b]	0	0.37	0.53	0.61	0.19	0.24	0.31	0.26	0
Lymphogranuloma venereum (LGV)[b]	0	0	0	0	0	0	0	0	0
Malaria[b]	0.65	1.24	1.6	0.98	1.71	0.6	1.89	2.07	0
Measles	0	0.12	0	0.12	0	0.12	0	0	0
Measles laboratory confirmed	0	0.12	0	0.12	0	0.12	0	0	0
Measles – other	0	0	0	0	0	0	0	0	0
Meningococcal disease	1.94	1.6	1.07	2.08	0.95	1.45	1.57	1.82	0
Meningococcal – serogroup B[b]	0.97	1.36	0.8	1.1	0.76	1.09	1.26	1.04	0
Meningococcal – serogroup C[b]	0.32	0	0.27	0.37	0.19	0	0	0	0
Meningococcal – serogroup W135[b]	0	0	0	0	0	0.12	0	0	0
Meningococcal – serogroup Y[b]	0.65	0.12	0	0.12	0	0	0	0.13	0
Meningococcal – other	0	0.12	0	0.49	0	0.24	0.31	0.65	0
Mumps[b]	0.32	6.32	3.21	16.68	5.89	3.26	3.15	5.19	0
Pertussis	24.54	34.81	20.86	39.13	33.65	18.46	27.39	41.11	0
Pneumococcal disease (invasive)[b]	7.1	6.94	9.63	6.13	7.79	5.31	7.87	6.22	12.5
Psittacosis[b]	0	0	0.8	0.25	0	0.24	1.57	0.39	0
Q fever[b]	0.97	0.12	3.21	0.12	0	0	0.31	0.26	0
Rubella	0	0.12	0	0	0.19	0	0	0.39	0
Congenital rubella[b]	0	0	0	0	0	0	0	0.13	0
Rubella – other[b]	0	0.12	0	0	0.19	0	0	0.26	0
Salmonella infection[b,d]	45.84	41.99	22.99	36.19	45.43	30.28	32.12	39.68	12.5
Shigellosis[b]	0	1.61	0.27	1.84	2.28	0.72	0	0.52	0
Syphilis	6.78	6.69	8.29	40.85	47.72	16.65	8.5	12.32	237.5
Congenital syphilis	0	0.12	0	0	0	0	0	0.26	0
Infectious syphilis[b,c]	0.32	2.11	1.87	29.2	17.49	1.33	1.26	3.63	25
Syphilis – other[b]	6.46	4.46	6.42	11.65	30.23	15.32	7.24	8.43	212.5
Tetanus	0	0	0.27	0	0	0	0	0	0
Tuberculosis[b]	1.29	5.33	2.67	7.73	12.93	9.77	4.09	16.6	0
Typhoid[b]	0	0.25	0	0.25	0.57	0.48	0	1.69	0
Verotoxin-producing *Escherichia coli* infections[b]	0	0.12	0	0	0	0.12	0.63	0.13	0

[a]Year of onset: the earlier of patient reported onset date, specimen date or date of notification. [b]Laboratory-confirmed cases only. [c]Includes Syphilis primary, Syphilis secondary, Syphilis < 1 year duration and Syphilis newly acquired. [d]Includes all paratyphoid cases. [f]AHS further divided into the geographical region covered by their component Public Health Unit.
[g]Rate is based on a denominator of 8000 persons. [h]Includes cases with unknown PHU. NOS: not otherwise specified. No case of the following diseases have been notified since 1991: Plague[b], Diphtheria[b], Granuloma inguinale[b], Lyssavirus[b], Poliomyelitis[b], Rabies, Smallpox, Typhus[b], Viral haemorrhagic fever, Yellow fever.
Due to data delay AIDS notifications will be reported in a later edition.

Table 5. Disease notifications by Area Health Service of residence (2005 AHS boundaries)

Condition	Greater Southern[f]		Greater Western[f]			Hunter New England[f]		North Coast[f]	
	Albury	Goulburn	Broken Hill	Dubbo	Bathurst	Newcastle	Tamworth	Port Macquarie	Lismore
Adverse event after immunisation	19	17	1	5	10	15	3	4	7
Anthrax	0	0	0	0	0	0	0	0	0
Arboviral infection	59	134	30	87	27	335	68	221	213
Barmah Forest virus[b]	7	105	2	10	4	118	17	90	111
Ross River virus[b]	51	27	28	76	22	215	49	127	91
Other[b]	1	2	0	1	1	2	2	4	11
Blood lead level ≥ 15ug/dL[b]	8	4	5	74	8	22	1	2	3
Botulism	0	0	0	0	0	0	0	0	0
Brucellosis[b]	0	0	0	0	1	0	0	0	0
Chancroid[b]	0	0	0	0	0	0	0	0	0
Chlamydia trachomatis infection	471	264	104	148	357	1335	415	356	618
Congenital chlamydia[b]	1	2	1	0	1	2	0	1	2
Chlamydia – other [b]	470	262	103	148	356	1333	415	355	616
Cholera[b]	0	0	0	0	0	0	0	0	0
Creutzfeldt–Jakob disease[b]	0	0	0	0	0	1	0	0	0
Cryptosporidiosis[b]	52	14	2	17	33	42	63	27	49
Gastroenteritis (institutional)	120	583	247	38	60	1929	167	65	583
Giardiasis[b]	47	32	4	44	29	167	59	55	17
Gonorrhoea[b]	14	4	0	4	11	75	10	7	42
Haemolytic uraemic syndrome	0	0	0	0	1	5	1	0	0
Haemophilus influenzae serotype b	1	0	0	0	0	1	0	1	0
Hib epiglottitis[b]	0	0	0	0	0	0	0	0	0
Hib meningitis[b]	1	0	0	0	0	0	0	1	0
Hib septicaemia[b]	0	0	0	0	0	1	0	0	0
Hib infection NOS[b]	0	0	0	0	0	0	0	0	0
Hepatitis A[b]	0	0	0	1	1	1	0	1	5
Hepatitis B	36	23	10	10	2	49	19	17	36
Hepatitis B – acute viral[b]	2	3	0	1	0	8	0	0	2
Hepatitis B – other[b]	34	20	10	9	2	41	19	17	34
Hepatitis C	104	115	35	71	106	321	91	139	217
Hepatitis C – acute viral[b]	1	3	3	5	1	4	3	0	0
Hepatitis C – other[b]	103	112	32	66	105	317	88	139	217
Hepatitis D[b]	0	0	0	0	0	0	0	0	0
Hepatitis E[b]	0	0	0	0	0	0	0	0	0
HIV infection[b]	2	3	0	2	2	18	1	4	4
Influenza	40	75	10	20	64	217	81	44	166
Influenza-Type A[b]	37	70	10	17	60	189	73	41	61
Influenza-Type B[b]	1	3	0	3	3	28	6	0	3
Influenza-Type A & B[b]	1	2	0	0	0	0	1	0	3
Influenza-Type NOS[b]	1	0	0	0	1	0	1	3	99
Legionellosis	3	5	0	0	0	5	4	4	3
Legionella longbeachae[b]	1	1	0	0	0	2	2	2	0
L. pneumophila[b]	0	4	0	0	0	3	1	2	3
Legionnaire disease other	2	0	0	0	0	0	1	0	0
Leprosy	0	0	0	0	0	0	0	0	0
Leptospirosis[b]	0	0	0	1	0	1	1	2	3
Listeriosis[b]	0	0	1	0	0	5	0	0	0
Lymphogranuloma venereum (LGV)[b]	0	0	0	0	0	0	0	0	0
Malaria[b]	3	6	0	0	1	14	2	4	2
Measles	0	0	0	0	0	0	0	0	0
Measles laboratory confirmed	0	0	0	0	0	0	0	0	0
Measles – other	0	0	0	0	0	0	0	0	0
Meningococcal disease	4	6	0	3	2	9	3	2	6
Meningococcal – serogroup B[b]	2	5	0	3	2	6	2	2	3
Meningococcal – serogroup C[b]	1	0	0	0	0	1	0	0	2
Meningococcal – serogroup W135[b]	0	1	0	0	0	0	0	0	0
Meningococcal – serogroup Y[b]	0	0	0	0	0	0	0	0	0
Meningococcal – other	1	0	0	0	0	2	1	0	1
Mumps[b]	2	0	0	0	2	5	1	0	0
Pertussis	64	55	6	57	18	200	64	48	92
Pneumococcal disease (invasive)[b]	21	14	7	15	12	64	17	26	20
Psittacosis[b]	4	1	1	2	3	5	0	1	2
Q fever[b]	4	13	3	46	8	21	57	16	27
Rubella	0	0	0	3	0	0	1	0	0
Congenital rubella[b]	0	0	0	0	0	0	0	0	0
Rubella – other[b]	0	0	0	3	0	0	1	0	0
Salmonella infection[b,d]	85	56	7	28	47	190	78	78	218
Shigellosis[b]	0	3	0	1	0	3	1	3	8
Syphilis	9	8	14	16	16	25	8	27	12
Congenital syphilis	0	0	0	0	1	0	0	0	0
Infectious syphilis [b,c]	1	2	1	0	3	12	2	2	5
Syphilis – other[b]	8	6	13	16	12	13	6	25	7
Tetanus	0	0	0	0	0	0	0	0	1
Tuberculosis[b]	3	6	0	0	1	16	1	4	4
Typhoid[b]	1	0	0	0	0	0	0	0	0
Verotoxin-producing *Escherichia coli* infections[b]	3	1	0	0	0	9	4	0	1

[a]Year of onset: the earlier of patient reported onset date, specimen date or date of notification. [b]Laboratory-confirmed cases only. [c]includes Syphilis primary, Syphilis secondary, Syphilis < 1 year duration and Syphilis newly acquired. [d]includes all paratyphoid cases. [f]AHS further divided into the geographical region covered by their component public health unit.
[g]Rate is based on a denominator of 8000 persons. [h]Includes cases with unknown PHU. NOS: not otherwise specified. No case of the following diseases have been notified since 1991: Plague[b], Diphtheria[b], Granuloma inguinale[b], Lyssavirusb, Poliomyelitis[b], Rabies, Smallpox, Typhus[b], Viral haemorrhagic fever, Yellow fever.
Due to data delay AIDS notifications will be reported in a later edition.

Table 5. ***continued***

Condition	Northern Sydney Central Coast[f]		South Eastern Sydney Illawara[f]		Sydney South West[f]		Sydney West[f]		Justice	Total
	Gosford	Hornsby	Wollongong	Randwick	Camperdown	Liverpool	Penrith	Parramatta	Health	
Adverse event after immunisation	15	14	19	25	6	16	19	28	0	224
Anthrax	0	0	0	0	0	0	0	0	0	0
Arboviral infection	67	40	100	43	18	14	14	24	1	1498
Barmah Forest virus[b]	16	6	69	4	3	2	2	6	1	573
Ross River virus[b]	46	22	28	17	8	7	10	15	0	841
Other[b]	5	12	3	22	7	5	2	3	0	84
Blood lead level ≥ 15ug/dL[b]	3	10	21	13	14	23	8	30	0	263
Botulism	0	0	0	0	0	0	0	0	0	0
Brucellosis[b]	0	0	0	1	0	1	0	0	0	3
Chancroid[b]	0	0	0	0	0	0	0	0	0	0
Chlamydia trachomatis infection	579	1076	578	2283	1335	828	409	1042	95	12447
Congenital chlamydia[b]	1	3	0	1	1	3	2	9	0	31
Chlamydia – other [b]	578	1073	578	2282	1334	825	407	1033	95	12416
Cholera[b]	0	1	0	0	1	0	0	0	0	2
Creutzfeldt–Jakob disease[b]	1	0	2	1	0	1	1	0	0	7
Cryptosporidiosis[b]	22	43	15	38	22	48	21	34	0	544
Gastroenteritis (institutional)	431	1908	366	878	701	770	78	1552	12	10488
Giardiasis[b]	81	313	83	331	201	119	85	267	2	1940
Gonorrhoea[b]	29	125	32	469	297	96	38	96	8	1384
Haemolytic uraemic syndrome	0	0	1	1	1	1	0	1	0	13
Haemophilus influenzae serotype b	0	1	0	1	0	1	0	1	0	7
Hib epiglottitis[b]	0	1	0	0	0	0	0	0	0	1
Hib meningitis[b]	0	0	0	0	0	0	0	0	0	2
Hib septicaemia[b]	0	0	0	0	0	0	0	1	0	2
Hib infection NOS[b]	0	0	0	1	0	1	0	0	0	2
Hepatitis A[b]	0	13	3	10	6	12	3	9	0	65
Hepatitis B	33	286	46	386	427	600	39	557	44	2656
Hepatitis B – acute viral[b]	2	6	0	14	3	12	1	1	1	56
Hepatitis B – other[b]	31	280	46	372	424	588	38	556	43	2600
Hepatitis C	186	203	185	395	399	495	159	379	614	4259
Hepatitis C – acute viral[b]	0	0	0	2	21	5	0	1	4	53
Hepatitis C – other[b]	186	203	185	393	378	490	159	378	610	4206
Hepatitis D[b]	1	0	2	3	0	0	1	4	0	11
Hepatitis E[b]	1	1	0	3	3	0	0	0	0	8
HIV infection[b]	8	31	9	128	97	24	3	30	0	404
Influenza	54	142	61	185	45	117	124	463	3	1918
Influenza-Type A[b]	38	82	46	117	29	77	100	431	3	1487
Influenza-Type B[b]	1	6	9	52	15	10	14	26	0	180
Influenza-Type A & B[b]	0	2	4	16	0	0	9	5	0	43
Influenza-Type NOS[b]	15	52	2	0	1	30	1	1	0	208
Legionellosis	4	8	6	13	8	13	10	19	0	105
Legionella longbeachae[b]	2	2	4	2	0	4	2	5	0	29
L. pneumophila[b]	2	6	2	11	8	9	8	14	0	73
Legionnaire disease other	0	0	0	0	0	0	0	0	0	3
Leprosy	0	0	0	0	0	0	0	4	0	4
Leptospirosis[b]	0	0	0	0	0	0	0	0	0	8
Listeriosis[b]	0	3	2	5	1	2	1	2	0	22
Lymphogranuloma venereum (LGV)[b]	0	0	0	0	0	0	0	0	0	0
Malaria[b]	2	10	6	8	9	5	6	16	0	98
Measles	0	1	0	1	0	1	0	0	0	4
Measles laboratory confirmed	0	1	0	1	0	1	0	0	0	4
Measles – other	0	0	0	0	0	0	0	0	0	0
Meningococcal disease	6	13	4	17	5	12	5	14	0	112
Meningococcal – serogroup B[b]	3	11	3	9	4	9	4	8	0	76
Meningococcal – serogroup C[b]	1	0	1	3	1	0	0	0	0	10
Meningococcal – serogroup W135[b]	0	0	0	0	0	1	0	0	0	2
Meningococcal – serogroup Y[b]	2	1	0	1	0	0	0	1	0	5
Meningococcal – other	0	1	0	4	0	2	1	5	0	19
Mumps[b]	1	51	12	136	31	27	10	40	0	323
Pertussis	76	281	78	319	177	153	87	317	0	2093
Pneumococcal disease (invasive)[b]	22	56	36	50	41	44	25	48	1	522
Psittacosis[b]	0	0	3	2	0	2	5	3	0	34
Q fever[b]	3	1	12	1	0	0	1	2	0	215
Rubella	0	1	0	0	1	0	0	3	0	9
Congenital rubella[b]	0	0	0	0	0	0	0	1	0	1
Rubella – other[b]	0	1	0	0	1	0	0	2	0	8
Salmonella infection[b,d]	142	339	86	295	239	251	102	306	1	2564
Shigellosis[b]	0	13	1	15	12	6	0	4	0	71
Syphilis	21	54	31	333	251	138	27	95	19	1115
Congenital syphilis	0	1	0	0	0	0	0	2	0	4
Infectious syphilis [b,c]	1	17	7	238	92	11	4	28	2	434
Syphilis – other[b]	20	36	24	95	159	127	23	65	17	677
Tetanus	0	0	1	0	0	0	0	0	0	2
Tuberculosis[b]	4	43	10	63	68	81	13	128	0	452
Typhoid[b]	0	2	0	2	3	4	0	13	0	26
Verotoxin-producing *Escherichia coli* infections[b]	0	1	0	0	0	1	2	1	0	23

[a]Year of onset: the earlier of patient reported onset date, specimen date or date of notification. [b]Laboratory-confirmed cases only. [c]includes Syphilis primary, Syphilis secondary, Syphilis < 1 year duration and Syphilis newly acquired. [d]includes all paratyphoid cases. [f]AHS further divided into the geographical region covered by their component public health unit.
[g]Rate is based on a denominator of 8000 persons. [h]Includes cases with unknown PHU. NOS: not otherwise specified. No case of the following diseases have been notified since 1991: Plague[b], Diphtheria[b], Granuloma inguinale[b], Lyssavirusb, Poliomyelitis[b], Rabies, Smallpox, Typhus[b], Viral haemorrhagic fever, Yellow fever.
Due to data delay AIDS notifications will be reported in a later edition.

- *Chlamydia trachomatis* infections account for the most notifications in adults with rates peaking at 818 per 100 000 in people aged between 16 and 24 years.
- Influenza is the most commonly reported notifiable disease in adults aged 65 years and older though this rate is markedly lower than that observed in children aged less than five years of age. Children and older adults are more likely to undergo testing for influenza.

Outbreaks and threats

Several notable disease outbreaks and threats were reported in 2007 in NSW. These included:

- an outbreak of Legionnaire disease in South East Sydney Illawarra AHS related to a contaminated cooling tower in Circular Quay in Sydney (January 2007).[2]
- hepatitis C transmission linked to a general medical practice in South East Sydney Illawarra Health Service that specialised in provision of vitamin and mineral injections (March 2007).[3]
- a sushi chef who was working while infectious with hepatitis A. Sydney South West Area Health Service provided immunoglobulin to over 400 people who had eaten potentially contaminated sushi. No subsequent hepatitis A cases were reported (March 2007).[3]
- a *Salmonella* infection outbreak associated with eating pork and chicken rolls from a bakery in Sydney South West Area Health Service (March 2007).[3]

Conclusions

Controlling the spread of sexually transmitted infections, in particular, remains a priority for NSW. This is evident in the re-emergence of infectious syphilis in the gay community and the high rates of *Chlamydia trachomatis* infections in young adults.

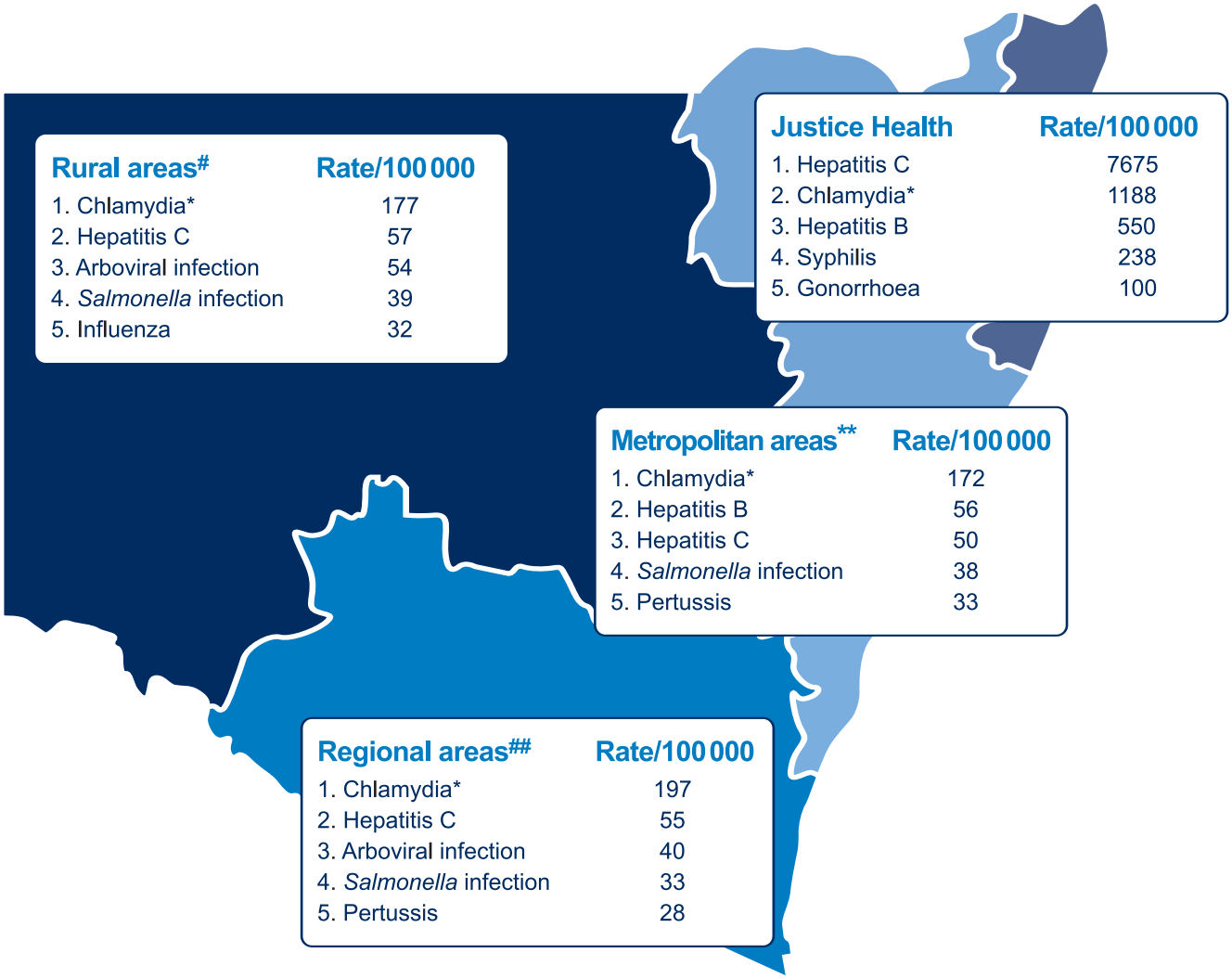

Figure 1. The five most commonly reported notifiable diseases by geographical area of residence at the time of notification in NSW, 2007. # Includes Greater Southern, Greater Western, Hunter New England (Tamworth region) and North Coast Area Health Services. ## Includes Northern Sydney Central Coast (Gosford region), South East Sydney Illawarra (Wollongong region) and Hunter New England (Newcastle region). *Refers to notifications of *Chlamydia trachomatis*. ** Includes Northern Sydney Central Coast (Hornsby region), South East Sydney Illawarra (Randwick region), Sydney South West and Sydney West Area Health Services. Source: NSW Notifiable Diseases Database.

Table 6. Disease notifications by age group and sex of the case, NSW, 2006

Condition	0–4 years		5–24 years		25–44 years		45–64 years		65+ years		Total		Total[e]
	F	M	F	M	F	M	F	M	F	M	F	M	
Adverse event after immunisation	15	18	133	5	21	2	16	2	6	6	191	33	224
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0
Arboviral infection	6	1	108	74	285	242	283	300	88	109	770	726	1498
Barmah Forest virus[b]	3	0	35	24	91	91	130	134	30	33	289	282	573
Ross River virus[b]	3	1	64	44	175	132	143	150	56	73	441	400	841
Other[b]	0	0	9	6	19	19	10	16	2	3	40	44	84
Blood lead level ≥ 15ug/dL[b]	0	9	3	46	7	109	3	71	1	14	14	249	263
Botulism													0
Brucellosis[b]	0	0	0	2	0	0	0	0	0	1	0	3	3
Chancroid[b]													0
Chlamydia trachomatis infection	22	18	4783	2299	2172	2571	111	400	9	24	7097	5313	12447
Congenital chlamydia[b]	14	13	3	0	0	0	0	0	0	0	18	13	31
Chlamydia – other [b]	8	5	4780	2299	2172	2571	111	400	9	24	7079	5300	12416
Cholera[b]	0	0	0	0	0	1	0	1	0	0	0	2	2
Creutzfeldt–Jakob disease[b]	0	0	0	0	0	0	3	1	2	1	5	2	7
Cryptosporidiosis[b]	80	108	78	122	61	50	19	17	4	4	242	301	544
Giardiasis[b]	227	329	159	202	375	259	137	121	74	51	973	963	1940
Gonorrhoea[b]	0	0	102	245	84	731	19	195	1	4	206	1175	1384
Haemolytic uraemic syndrome	2	3	1	2	2	0	1	1	1	0	7	6	13
Haemophilus influenzae serotype b	3	1	0	1	0	0	1	1	0	0	4	3	7
Hib epiglottitis[b]	0	0	0	0	0	0	0	1	0	0	0	1	1
Hib meningitis[b]	2	0	0	0	0	0	0	0	0	0	2	0	2
Hib septicaemia[b]	0	1	0	0	0	0	1	0	0	0	1	1	2
Hib infection NOS[b]	1	0	0	1	0	0	0	0	0	0	1	1	2
Hepatitis A[b]	4	3	7	12	11	15	4	5	2	2	28	37	65
Hepatitis B	6	7	232	215	694	748	242	384	45	64	1219	1418	2656
Hepatitis B – acute viral[b]	1	0	8	5	15	13	2	9	1	1	27	28	56
Hepatitis B – other[b]	5	7	224	210	679	735	240	375	44	63	1192	1390	2600
Hepatitis C	9	15	229	243	876	1543	368	820	60	71	1543	2692	4259
Hepatitis C – acute viral[b]	1	1	10	6	11	18	2	4	0	0	24	29	53
Hepatitis C – other[b]	8	14	219	237	865	1525	366	816	60	71	1519	2663	4206
Hepatitis D[b]	0	0	0	0	1	6	1	3	0	0	2	9	11
Hepatitis E[b]	0	0	1	4	0	3	0	0	0	0	1	7	8
HIV infection[b]	0	0	3	21	34	240	10	89	2	3	49	353	404
Influenza	174	244	180	200	199	197	203	180	167	170	923	991	1918
Influenza-Type A[b]	141	202	138	160	161	149	149	134	129	122	718	767	1487
Influenza-Type B[b]	10	18	17	14	13	27	21	19	18	22	79	100	180
Influenza-Type A & B[b]	0	0	5	6	3	3	6	7	4	9	18	25	43
Influenza-Type NOS[b]	23	24	20	20	22	18	27	20	16	17	108	99	208
Legionellosis	0	0	1	0	4	11	19	30	9	30	33	71	105
Legionella longbeachae[b]	0	0	1	0	1	3	8	5	2	9	12	17	29
L. pneumophila[b]	0	0	0	0	3	8	10	24	6	21	19	53	73
Legionnaire disease other	0	0	0	0	0	0	1	1	1	0	2	1	3
Leprosy	0	0	0	0	1	0	1	1	0	1	2	2	4
Leptospirosis[b]	0	0	1	1	0	3	1	1	0	1	2	6	8
Listeriosis[b]	1	0	0	0	2	1	0	2	8	8	11	11	22
Lymphogranuloma venereum (LGV)[b]													0
Malaria[b]	0	1	0	1	1	1	0	0	0	0	1	3	98
Measles	0	1	6	24	14	29	2	18	1	2	23	74	4
Measles laboratory confirmed	0	1	0	1	1	1	0	0	0	0	1	3	4
Measles – other													0
Meningococcal disease	18	25	21	14	4	10	8	4	4	4	55	57	112
Meningococcal – serogroup B[b]	15	18	12	10	2	9	4	3	3	0	36	40	76
Meningococcal – serogroup C[b]	0	1	4	0	1	1	2	1	0	0	7	3	10
Meningococcal – serogroup W135[b]	0	1	0	0	0	0	1	0	0	0	1	1	2
Meningococcal – serogroup Y[b]	0	0	1	0	0	0	0	0	1	3	2	3	5
Meningococcal – other	3	5	4	4	1	0	1	0	0	1	9	10	19
Mumps[b]	2	3	26	64	83	116	13	14	1	0	125	197	323
Pertussis	100	74	217	165	346	210	400	259	176	134	1239	842	2093
Pneumococcal disease (invasive)[b]	40	43	16	24	38	54	55	72	82	98	231	291	522
Psittacosis[b]	0	0	1	0	2	1	6	15	1	7	10	23	34
Q fever[b]	1	0	12	21	25	49	23	64	9	11	70	145	215
Rubella	1	2	0	0	4	1	0	0	0	0	5	3	9
Congenital rubella[b]	0	0	0	0	0	0	0	0	0	0	0	0	1
Rubella – other[b]	1	2	0	0	4	1	0	0	0	0	5	3	8
Salmonella infection[b,d]	310	317	328	370	264	290	208	236	128	99	1238	1313	2564
Shigellosis[b]	1	2	9	4	11	21	9	9	3	2	33	38	71
Syphilis	1	4	14	42	131	455	52	266	49	97	247	864	1115
Congenital syphilis	1	2	0	0	0	0	0	0	0	0	1	2	4
Infectious syphilis [b,c]	0	0	3	21	17	274	5	106	1	7	26	408	434
Syphilis – other[b]	0	2	11	21	114	181	47	160	48	90	220	454	677
Tetanus	0	0	0	0	0	0	0	0	1	1	1	1	2
Tuberculosis[b]	4	4	37	45	76	95	54	60	33	41	204	245	452
Typhoid[b]	3	1	7	4	7	2	1	0	0	1	18	8	26
Verotoxin-producing *Escherichia coli* infections[b]	0	2	1	2	4	3	3	0	3	5	11	12	23

[a]Year of onset: the earlier of patient reported onset date, specimen date or date of notification. [b]Laboratory-confirmed cases only.
[c]includes Syphilis primary, Syphilis secondary, Syphilis <1 year duration and Syphilis newly acquired. [d]Includes all paratyphoid cases.
[e]Includes cases with unknown-age and sex and people who identify as transgender. NOS: not otherwise specified. F: female. M: male.
Due to data delay AIDS notifications will be reported in a later edition.
Institutional gastrointestinal outbreaks and foodborne illness are excluded from the table as complete demographic data is not routinely collected.

While transmission of some vaccine preventable diseases has been limited in NSW, the challenge still remains to increase vaccination rates among adolescents and young adults to reduce their susceptibility to diseases such as mumps, measles and pertussis.

The increase in *Salmonella* infections serves as a timely reminder to all to ensure thorough cooking and safe handling of high-risk foods such as raw chicken and other meats, and undercooked, cracked or soiled eggs, while the Legionnaire disease outbreak highlights the importance of cooling tower maintenance.

We thank all those general and specialist medical practices, laboratories, hospitals, schools, child-care centres and others who have notified diseases of public health significance to their local public health units for investigation and control.

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3. NSW Department of Health Communicable Diseases Report, NSW, for March and April 2007. *N S W Public Health Bull* 2007; 18(5–6): 100–3.

Erratum. The following correction should be made in Table 5 of the 2005 Annual Report (*N S W Public Health Bull* 2006; 17(5–6): 74): the headings 'Male' and 'Female' should be interchanged on each column.