

Communicable diseases surveillance

Tables

National Notifiable Diseases Surveillance System

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 43,344 notifications to the National Notifiable Diseases Surveillance System (NNDSS) with a notification received date between 1 October to 31 December 2009 (Table 2). The notification rate of diseases per 100,000 population for each state or territory is presented in Table 3.

Table 1: Reporting of notifiable diseases by jurisdiction

Disease	Data received from:
Bloodborne diseases	
Hepatitis (NEC)	All jurisdictions
Hepatitis B (newly acquired)	All jurisdictions
Hepatitis B (unspecified)	All jurisdictions
Hepatitis C (newly acquired)	All jurisdictions except Queensland
Hepatitis C (unspecified)	All jurisdictions
Hepatitis D	All jurisdictions
Gastrointestinal diseases	
Botulism	All jurisdictions
Campylobacteriosis	All jurisdictions except New South Wales
Cryptosporidiosis	All jurisdictions
Haemolytic uraemic syndrome	All jurisdictions
Hepatitis A	All jurisdictions
Hepatitis E	All jurisdictions
Listeriosis	All jurisdictions
STEC, VTEC	All jurisdictions
Salmonellosis	All jurisdictions
Shigellosis	All jurisdictions
Typhoid	All jurisdictions
Quarantinable diseases	
Cholera	All jurisdictions
Highly pathogenic avian influenza in humans	All jurisdictions
Plague	All jurisdictions
Rabies	All jurisdictions
Severe acute respiratory syndrome	All jurisdictions
Smallpox	All jurisdictions
Viral haemorrhagic fever	All jurisdictions
Yellow fever	All jurisdictions
Sexually transmissible infections	
Chlamydial infection	All jurisdictions
Donovanosis	All jurisdictions
Gonococcal infection	All jurisdictions
Syphilis (all)	
Syphilis <2 years duration	All jurisdictions
Syphilis >2 years or unspecified duration	All jurisdictions except South Australia
Syphilis - congenital	All jurisdictions

Table 1: Reporting of notifiable diseases by jurisdiction, *continued*

Disease	Data received from:
Vaccine preventable diseases	
Diphtheria	All jurisdictions
<i>Haemophilus influenzae</i> type b	All jurisdictions
Influenza (laboratory confirmed)*	All jurisdictions
Measles	All jurisdictions
Mumps	All jurisdictions
Pertussis	All jurisdictions
Pneumococcal disease (invasive)	All jurisdictions
Poliomyelitis	All jurisdictions
Rubella	All jurisdictions
Rubella - congenital	All jurisdictions
Tetanus	All jurisdictions
Varicella zoster (chickenpox)	All jurisdictions except New South Wales
Varicella zoster (shingles)	All jurisdictions except New South Wales
Varicella zoster (unspecified)	All jurisdictions except New South Wales
Vectorborne diseases	
Arbovirus infection (NEC) [†]	All jurisdictions
Barmah Forest virus infection	All jurisdictions
Dengue virus infection	All jurisdictions
Japanese encephalitis virus infection	All jurisdictions
Kunjin virus infection	All jurisdictions
Malaria	All jurisdictions
Murray Valley encephalitis virus infection	All jurisdictions
Ross River virus infection	All jurisdictions
Zoonoses	
Anthrax	All jurisdictions
Australian bat lyssavirus	All jurisdictions
Brucellosis	All jurisdictions
Leptospirosis	All jurisdictions
Lyssavirus (NEC)	All jurisdictions
Ornithosis	All jurisdictions
Q fever	All jurisdictions
Tularaemia	All jurisdictions
Other bacterial infections	
Legionellosis	All jurisdictions
Leprosy	All jurisdictions
Meningococcal infection	All jurisdictions
Tuberculosis	All jurisdictions

* Notifiable in South Australia as of 1 May 2008.

† Flavivirus (NEC) replaced Arbovirus (NEC) from 1 January 2004. Arbovirus (NEC) replaced Flavivirus (NEC) from 2008.

NEC Not elsewhere classified.

Table 2: Notifications of diseases received by state and territory health authorities in the period 1 October to 31 December 2009, by date of diagnosis*

Disease	State or territory								Total 4th quarter 2009†	Total 3rd quarter 2009	Total 4th quarter 2008	Last 5 years mean 4th quarter	Ratio†	Year to date 2009	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA							
Bloodborne diseases															
Hepatitis (NEC)	0	0	0	0	0	0	0	0	0	0	1	0.2	0.0	0	0.6
Hepatitis B (newly acquired)	3	12	3	12	1	2	20	0	53	48	45	62.2	0.9	197	272.2
Hepatitis B (unspecified)	20	803	38	246	99	21	508	197	1,932	2,040	1,418	1,510.6	1.3	7,878	6,289.8
Hepatitis C (newly acquired)	2	11	1	NN	13	4	51	0	82	69	100	89.0	0.9	297	370.8
Hepatitis C (unspecified)	38	1,261	45	649	122	65	521	302	3,003	3,270	2,491	2,831.4	1.1	12,695	11,800.2
Hepatitis D	0	1	0	2	0	0	3	0	6	5	6	5.8	1.0	32	33.4
Gastrointestinal diseases															
Botulism	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	1	1.2
Campylobacteriosis§	94	NN	29	1,059	440	174	1,699	697	4,192	3,819	4,082	4,543.8	0.9	15,851	16,008.2
Cryptosporidiosis	5	110	28	40	14	29	90	27	343	259	423	589.0	0.6	4,599	2,577.2
Haemolytic uraemic syndrome	0	1	1	0	1	0	1	0	4	0	11	8.2	0.5	12	20.0
Hepatitis A	2	29	0	17	7	5	167	13	240	86	41	52.6	4.6	562	272.4
Hepatitis E	0	1	0	0	0	0	0	0	1	8	9	5.2	0.2	35	28.8
Listeriosis	1	5	0	2	0	1	9	3	21	22	8	14.0	1.5	91	59.8
STEC, VTEC	0	6	1	25	21	0	3	2	58	23	36	27.0	2.1	160	82.8
Salmonellosis	53	724	132	504	168	40	460	326	2,407	1,501	2,054	2,149.6	1.1	9,526	8,455.4
Shigellosis	3	25	20	29	11	0	12	19	119	124	199	155.8	0.8	629	643.4
Typhoid	0	16	0	2	1	0	14	2	35	25	19	15.6	2.2	116	79.0
Quarantinable diseases															
Cholera	0	0	0	0	0	0	0	0	0	1	4	1.8	0.0	4	3.8
Highly pathogenic avian influenza in humans	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Plague	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Rabies	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Severe acute respiratory syndrome	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Smallpox	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Viral haemorrhagic fever	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Yellow fever	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0

Table 2: Notifications of diseases received by state and territory health authorities in the period 1 October to 31 December 2009, by date of diagnosis,* continued

Disease	State or territory							Total				Ratio†	Year to date 2009	Last 5 years YTD mean	
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	2009†	2009	2008				mean 4th quarter
Sexually transmissible infections															
Chlamydia infection¶	226	3,716	470	4,052	850	352	3,378	2,149	15,193	15,124	13,966	11,548.4	1.3	62,677	47,062.6
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	1.6	0.0	1	6.8
Gonococcal infection	6	496	349	381	61	1	343	278	1,915	1,699	1,807	1,856.2	1.0	8,094	7,828.6
Syphilis (all)	4	236	24	119	5	5	204	43	640	736	704	661.0	1.0	2,840	2,704.0
Syphilis <2 years duration	0	96	5	42	5	3	83	18	252	331	275	241.6	1.0	1,259	975.4
Syphilis >2 years or unspecified duration	4	140	19	77	NDP	2	121	25	388	405	429	419.4	0.9	1,581	1,728.6
Syphilis - congenital	0	0	1	0	0	0	0	0	1	1	2	2.4	0.4	4	11.2
Vaccine preventable diseases															
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
<i>Haemophilus influenzae</i> type b	0	0	1	0	0	0	1	0	2	2	5	5.0	0.4	20	19.2
Influenza (laboratory confirmed)	8	0	24	275	177	11	70	135	700	34,824	1,521	767.0	0.9	47,718	5,897.8
Measles	0	7	0	0	0	0	1	1	9	8	1	6.2	1.5	104	51.4
Mumps	0	9	2	10	2	0	0	6	29	34	35	90.4	0.3	162	297.6
Pertussis	77	1,815	25	1,710	1,888	100	1,095	205	6,915	6,454	6,777	3,145.4	2.2	29,514	10,032.4
Pneumococcal disease (invasive)	7	97	19	63	33	2	80	26	327	625	353	349.6	0.9	1,564	1,734.8
Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.2
Rubella	0	0	0	1	0	0	0	1	2	7	9	7.6	0.3	25	38.2
Rubella - congenital	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.8
Tetanus	0	0	0	0	0	0	0	0	0	0	0	1.0	0.0	3	3.4
Varicella zoster (chickenpox)	1	NN	17	4	124	8	22	68	244	328	768	500.0	0.5	1,238	1,672.0
Varicella zoster (shingles)	7	NN	26	2	263	27	225	151	701	609	756	387.5	1.8	2,828	1,241.8
Varicella zoster (unspecified)	20	NN	2	1,001	77	25	431	214	1,770	1,680	1,381	873.5	2.0	6,693	3,097.8
Vectorborne diseases															
Arbovirus infection (NEC)	0	0	0	3	0	0	0	0	3	5	10	5.6	0.5	27	33.4
Barmah Forest virus infection	0	75	19	163	8	1	4	23	293	271	414	346.8	0.8	1,493	1,672.6
Dengue virus infection	6	17	5	42	1	0	9	30	110	87	193	74.0	1.5	1,401	322.8
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.4
Kunjin virus infection	0	0	0	0	0	0	0	0	0	0	0	0.6	0.0	2	2.4
Malaria	1	12	2	35	7	1	16	21	95	151	127	141.4	0.7	533	646.2
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	4	1.2
Ross River virus infection	0	128	71	358	94	4	16	107	778	833	914	728.2	1.1	4,777	4,425.2

Table 2: Notifications of diseases received by state and territory health authorities in the period 1 October to 31 December 2009, by date of diagnosis,* continued

Disease	State or territory								Total 4th quarter 2009†	Total 3rd quarter 2009	Total 4th quarter 2008	Last 5 years mean 4th quarter	Ratio‡	Year to date 2009	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA							
Zoonoses															
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.4
Australian bat lyssavirus	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Brucellosis	0	1	0	7	0	0	0	0	8	6	12	13.6	0.6	31	43.0
Leptospirosis	0	1	0	6	0	0	7	0	14	16	22	22.8	0.6	145	134.0
Lysavirus (NEC)	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Ornithosis	0	0	0	0	0	0	10	1	11	18	17	33.6	0.3	60	152.2
Q fever	0	26	0	27	7	0	5	0	65	66	88	98.8	0.7	308	406.6
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Other bacterial infections															
Legionellosis	1	19	0	7	14	0	14	8	63	74	70	84.0	0.8	305	313.0
Leprosy	0	0	0	2	0	0	0	0	2	0	3	1.8	1.1	3	9.4
Meningococcal infection**	0	20	1	19	3	0	14	6	63	86	63	78.2	0.8	259	340.8
Tuberculosis	13	162	5	73	13	2	159	35	462	340	351	331.4	1.4	1,325	1,142.2
Total	598	9,844	1,361	11,283	4,525	887	9,663	5,183	43,344	75,744	41,794	34,612.0	1.3	228,226	139,573.3

* Date of diagnosis = true onset date, or where not available, the earliest of (i) specimen date, (ii) notification date, or (iii) notification receive date. Hepatitis B and C unspecified were analysed by the notification receive date.

† 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.

‡ Ratio = ratio of current quarter total to the mean of last 5 years for the same quarter. Note: Ratios for syphilis <2 years; syphilis >2 years or unspecified duration are based on 5 years of data. Ratios for varicella zoster (chickenpox), varicella zoster (shingles) and varicella zoster (unspecified) are based on 2 years of data

§ Not reported for New South Wales where it is only notifiable as 'foodborne disease' or 'gastroenteritis in an institution'.

|| Infections with Shiga-like toxin (verotoxin) producing *Escherichia coli* (STEC/VTEC).

¶ Includes *Chlamydia trachomatis* identified from cervical, rectal, urine, urethral, throat and eye samples, except for South Australia, which reports only genital tract specimens; the Northern Territory and Queensland, which exclude ocular specimens; and Western Australia, which excludes ocular and perinatal infections.

** Only invasive meningococcal disease is nationally notifiable. However, New South Wales, the Australian Capital Territory and South Australia also report conjunctival cases.

NN Not notifiable.

NEC Not elsewhere classified.

NDP No data provided.

Table 3: Notification rates of diseases, 1 October to 31 December 2009, by state or territory. (Annualised rate per 100,000 population)

Disease*	State or territory								Aust
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	
Bloodborne diseases									
Hepatitis (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis B (newly acquired)	3.4	0.7	5.3	1.1	0.2	1.6	1.5	0.0	1.0
Hepatitis B (unspecified)	22.8	45.2	67.6	22.3	24.4	16.7	37.4	35.2	35.3
Hepatitis C (newly acquired)	2.3	0.6	1.8	NN	3.2	3.2	3.8	0.0	1.5
Hepatitis C (unspecified)	43.3	71.0	80.1	58.9	30.1	51.7	38.4	54.0	54.9
Hepatitis D	0.0	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.1
Gastrointestinal diseases									
Botulism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis [†]	107.1	NN	51.6	96.1	108.5	138.5	125.2	124.6	76.7
Cryptosporidiosis	5.7	6.2	49.8	3.6	3.5	23.1	6.6	4.8	6.3
Haemolytic uraemic syndrome	0.0	0.1	1.8	0.0	0.2	0.0	0.1	0.0	0.1
Hepatitis A	2.3	1.6	0.0	1.5	1.7	4.0	12.3	2.3	4.4
Hepatitis E	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Listeriosis	1.1	0.3	0.0	0.2	0.0	0.8	0.7	0.5	0.4
STEC, VTEC [‡]	0.0	0.3	1.8	2.3	5.2	0.0	0.2	0.4	1.1
Salmonellosis	60.4	40.8	234.8	45.7	41.4	31.8	33.9	58.3	44.0
Shigellosis	3.4	1.4	35.6	2.6	2.7	0.0	0.9	3.4	2.2
Typhoid	0.0	0.9	0.0	0.2	0.2	0.0	1.0	0.4	0.6
Quarantinable diseases									
Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Highly pathogenic avian influenza in humans	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plague	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rabies	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Severe acute respiratory syndrome	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Smallpox	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viral haemorrhagic fever	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow fever	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sexually transmissible infections									
Chlamydial infection [§]	257.4	209.4	836.1	367.8	209.5	280.1	248.9	384.3	277.8
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection	6.8	27.9	620.9	34.6	15.0	0.8	25.3	49.7	35.0
Syphilis (all)	4.6	13.3	42.7	10.8	1.2	4.0	15.0	7.7	11.7
Syphilis <2 years duration	0.0	5.4	8.9	3.8	1.2	2.4	6.1	3.2	4.6
Syphilis >2 years or unspecified duration	4.6	7.9	33.8	7.0	NDP	1.6	8.9	4.5	7.1
Syphilis - congenital	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0
Vaccine preventable diseases									
Diphtheria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Haemophilus influenzae</i> type b	0.0	0.0	1.8	0.0	0.0	0.0	0.1	0.0	0.0
Influenza (laboratory confirmed)	9.1	0.0	42.7	25.0	43.6	8.8	5.2	24.1	12.8
Measles	0.0	0.4	0.0	0.0	0.0	0.0	0.1	0.2	0.2
Mumps	0.0	0.5	3.6	0.9	0.5	0.0	0.0	1.1	0.5
Pertussis	87.7	102.3	44.5	155.2	465.4	79.6	80.7	36.7	126.5
Pneumococcal disease (invasive)	8.0	5.5	33.8	5.7	8.1	1.6	5.9	4.6	6.0

Table 3: Notification rates of diseases, 1 October to 31 December 2009, by state or territory. (Annualised rate per 100,000 population), continued

Disease*	State or territory								Aust
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	
Vaccine preventable diseases, continued									
Poliomyelitis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
Rubella - congenital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tetanus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Varicella zoster (chickenpox)	1.1	NN	30.2	0.4	30.6	6.4	1.6	12.2	4.5
Varicella zoster (shingles)	8.0	NN	46.3	0.2	64.8	21.5	16.6	27.0	12.8
Varicella zoster (unspecified)	22.8	NN	3.6	90.9	19.0	19.9	31.8	38.3	32.4
Vectorborne diseases									
Arbovirus infection (NEC)	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1
Barmah Forest virus infection	0.0	4.2	33.8	14.8	2.0	0.8	0.3	4.1	5.4
Dengue virus infection	6.8	1.0	8.9	3.8	0.2	0.0	0.7	5.4	2.0
Japanese encephalitis virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kunjin virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	1.1	0.7	3.6	3.2	1.7	0.8	1.2	3.8	1.7
Murray Valley encephalitis virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ross River virus infection	0.0	7.2	126.3	32.5	23.2	3.2	1.2	19.1	14.2
Zoonoses									
Anthrax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australian bat lyssavirus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brucellosis	0.0	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.1
Leptospirosis	0.0	0.1	0.0	0.5	0.0	0.0	0.5	0.0	0.3
Lyssavirus (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ornithosis	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.2
Q fever	0.0	1.5	0.0	2.5	1.7	0.0	0.4	0.0	1.2
Tularaemia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other bacterial infections									
Legionellosis	1.1	1.1	0.0	0.6	3.5	0.0	1.0	1.4	1.2
Leprosy	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Meningococcal infection	0.0	1.1	1.8	1.7	0.7	0.0	1.0	1.1	1.2
Tuberculosis	14.8	9.1	8.9	6.6	3.2	1.6	11.7	6.3	8.4

* Rates are subject to retrospective revision.

† Not reported for New South Wales where it is only notifiable as 'foodborne disease' or 'gastroenteritis in an institution'.

‡ Infections with Shiga-like toxin (verotoxin) producing *Escherichia coli* (STEC/VTEC).

§ Includes *Chlamydia trachomatis* identified from cervical, rectal, urine, urethral, throat and eye samples, except for South Australia, which reports only genital tract specimens; the Northern Territory and Queensland, which exclude ocular specimens; and Western Australia, which excludes ocular and perinatal infections.

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