

# 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 55,105 notifications to the National Notifiable Diseases Surveillance System (NNDSS) with a notification received date between 1 October and 31 December 2011 (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:
<b>Bloodborne diseases</b>	
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
<b>Gastrointestinal diseases</b>	
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
<b>Quarantinable diseases</b>	
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
<b>Sexually transmissible infections</b>	
Chlamydial infection	All jurisdictions
Donovanosis	All jurisdictions
Gonococcal infection	All jurisdictions
Syphilis - congenital	All jurisdictions
Syphilis <2 years duration	All jurisdictions
Syphilis >2 years or unspecified duration	All jurisdictions except South Australia

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

Disease	Data received from:
<b>Vaccine preventable diseases</b>	
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
<b>Vectorborne diseases</b>	
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
<b>Zoonoses</b>	
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
<b>Other bacterial infections</b>	
Legionellosis	All jurisdictions
Leprosy	All jurisdictions
Meningococcal infection	All jurisdictions
Tuberculosis	All jurisdictions

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

NEC Not elsewhere classified.

Table 2: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2011, by date of diagnosis

Disease	State or territory							Total 4th quarter 2011	Total 3rd quarter 2011	Total 4th quarter 2010	Last 5 years mean 4th quarter	Ratio	Year to date 2011	Last 5 years YTD mean	
	ACT	NSW	NT	Qld	SA	Tas	Vic								WA
<b>Bloodborne diseases</b>															
Hepatitis (NEC)	0	0	0	0	0	0	0	0	0	0	0.2	0.0	0	0	0.4
Hepatitis B (newly acquired)*	0	4	1	14	4	1	25	3	46	38	62.0	0.8	189	263.0	263.0
Hepatitis B (unspecified)†	23	602	38	182	98	6	463	174	1,743	1,624	1,645.2	1.0	6,662	6,708.2	6,708.2
Hepatitis C (newly acquired)*:‡	3	8	2	NN	5	4	0	22	58	82	95.6	0.5	280	385.8	385.8
Hepatitis C (unspecified)†	41	759	61	584	102	41	554	222	2,586	2,646	2,740.0	0.9	9,986	11,301.6	11,301.6
Hepatitis D	0	1	0	2	0	0	1	0	10	10	7.0	0.6	35	34.8	34.8
<b>Gastrointestinal diseases</b>															
Botulism	0	0	0	0	0	0	0	0	1	0	0.2	0.0	2	0.6	0.6
Campylobacteriosis§	126	NN	24	1,187	550	282	1,664	536	4,447	5,394	4,568.0	1.0	17,725	16,201.6	16,201.6
Cryptosporidiosis	3	83	43	158	8	8	63	45	288	308	471.8	0.9	1,807	2,823.4	2,823.4
Haemolytic uraemic syndrome	0	0	0	0	1	0	3	0	4	1	6.4	0.6	13	17.4	17.4
Hepatitis A	2	14	0	5	2	2	9	6	28	52	86.4	0.5	144	311.0	311.0
Hepatitis E	0	2	0	2	0	0	2	3	6	6	5.0	1.8	40	31.2	31.2
Listeriosis	0	6	0	4	1	1	8	2	10	17	15.4	1.4	70	68.4	68.4
STEC, VTEC	5	4	0	6	18	1	2	0	27	17	31.8	1.1	98	98.6	98.6
Salmonellosis	65	720	113	726	271	54	638	332	2,012	2,920	2,348.6	1.2	12,286	9,502.4	9,502.4
Shigellosis	4	42	36	11	13	0	21	14	95	129	145.4	1.0	496	627.6	627.6
Typhoid	1	6	1	6	2	1	10	4	22	17	21.8	1.4	134	96.4	96.4
<b>Quarantinable diseases</b>															
Cholera	0	0	0	0	0	0	0	0	1	0	1.8	0.0	6	3.8	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	0.0
Plague	0	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	0.0
Severe acute respiratory syndrome	0	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	0.0
Viral haemorrhagic fever	0	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	2	0.0	0.0

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2011, by date of diagnosis

Disease	State or territory							Total 4th quarter 2011	Total 3rd quarter 2011	Total 4th quarter 2010	Last 5 years mean 4th quarter	Ratio	Year to date 2011	Last 5 years YTD mean	
	ACT	NSW	NT	Qld	SA	Tas	Vic								WA
<b>Sexually transmissible infections</b>															
Chlamydia infection <sup>l**</sup>	297	5,002	636	4,521	1,205	453	4,837	2,651	19,602	20,254	17,963	14,425.0	1.4	80,827	59,012.0
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	0	2.6
Gonococcal infection <sup>**</sup>	20	890	482	751	115	6	444	504	3,212	2,867	2,565	2,002.2	1.6	12,124	8,390.6
Syphilis – congenital <sup>**</sup>	0	0	0	1	0	0	0	0	1	2	0	1.4	0.7	7	6.0
Syphilis <2 years duration <sup>**</sup>	2	101	3	70	12	1	71	29	289	301	275	291.4	1.0	1,259	1,218.6
Syphilis >2 years or unspecified duration <sup>**</sup>	5	83	16	58	NDP	9	111	31	313	317	268	319.4	1.0	1,252	1,338.6
<b>Vaccine preventable diseases</b>															
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	4	0.0
<i>Haemophilus influenzae</i> type b	0	0	0	1	0	0	0	1	2	3	8	5.4	0.4	13	21.4
Influenza (laboratory confirmed)	34	583	59	640	510	28	594	451	2,899	17,375	4,048	1,514.8	1.9	27,018	19,119.6
Measles	19	11	2	1	1	0	8	8	50	34	10	6.4	7.8	193	75.2
Mumps	0	21	0	12	0	1	5	2	41	35	30	87.0	0.5	153	280.6
Pertussis	105	3,270	140	2,473	292	204	1,829	1,999	10,312	9,572	14,568	6,322.8	1.6	38,579	18,698.0
Pneumococcal disease (invasive)	6	121	27	62	24	17	83	43	383	724	391	330.2	1.2	1,879	1,547.4
Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.3
Rubella	1	3	0	1	1	0	2	0	8	14	4	6.6	1.2	58	40.0
Rubella – congenital	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.4
Tetanus	0	0	0	0	0	0	0	0	0	0	0	0.6	0.0	3	3.0
Varicella zoster (chickenpox) <sup>††</sup>	3	NN	44	89	164	5	218	128	651	658	564	608.6	1.1	2,092	1,717.6
Varicella zoster (shingles) <sup>††</sup>	10	NN	48	20	396	64	265	261	1,064	1,008	831	618.0	1.7	3,986	2,153.6
Varicella zoster (unspecified) <sup>††</sup>	30	NN	1	1,075	65	28	723	257	2,179	2,004	1,893	1,457.4	1.5	7,732	5,278.0
<b>Vectorborne diseases</b>															
Arbovirus infection (NEC)	0	0	1	4	0	0	3	0	8	6	15	4.4	1.8	24	18.2
Barmah Forest virus infection	0	68	12	208	16	0	4	38	346	289	409	374.0	0.9	1,867	1,773.0
Dengue virus infection	3	46	7	38	7	1	27	84	213	118	467	181.2	1.2	820	738.4
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.2
Kunjin virus infection <sup>††</sup>	0	1	0	0	0	0	0	0	1	0	0	0.2	5.0	2	1.8
Malaria	0	18	11	36	3	3	22	17	110	95	103	121.0	0.9	413	552.0
Murray Valley encephalitis virus infection <sup>††</sup>	0	1	0	0	0	0	0	0	1	0	0	0.0	0.0	16	1.4
Ross River virus infection	0	68	46	273	41	2	44	274	748	378	1,051	895.6	0.8	5,161	5,058.6

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2011, by date of diagnosis

Disease	State or territory										Total 4th quarter 2011	Total 3rd quarter 2011	Total 4th quarter 2010	Last 5 years mean 4th quarter	Ratio	Year to date 2011	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA									
<b>Zoonoses</b>																	
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
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	8	0	0	0	0	0	0	0	7	5	9.0	39	37.0	
Leptospirosis	0	6	1	10	0	1	2	1	21	19	36	22.2	0.9	217	127.6		
Lyssavirus (NEC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
Ornithosis	0	6	0	1	0	0	14	4	25	20	30	25.6	1.0	85	96.8		
Q fever	0	35	0	43	1	0	6	6	91	80	78	92.4	1.0	328	374.8		
Tularaemia	0	0	0	0	0	1	0	0	1	0	0	0.0	0.0	2	0.0		
<b>Other bacterial infections</b>																	
Legionellosis	0	21	1	12	8	2	26	31	101	60	83	82.2	1.2	343	305.4		
Leprosy	0	1	0	0	1	0	1	0	3	2	4	2.6	1.2	7	9.4		
Meningococcal infection <sup>§§</sup>	0	16	1	7	6	0	11	8	49	77	56	65.2	0.8	241	279.2		
Tuberculosis	9	93	8	59	22	6	108	35	340	350	382	368.0	0.9	1,263	1,236.4		
<b>Total</b>	<b>817</b>	<b>12,717</b>	<b>1,865</b>	<b>13,361</b>	<b>3,965</b>	<b>1,233</b>	<b>12,921</b>	<b>8,226</b>	<b>55,105</b>	<b>68,053</b>	<b>59,398</b>			<b>237,982</b>			

\* Newly acquired hepatitis includes cases where the infection was determined to be acquired within 24 months prior to diagnosis.

† Unspecified hepatitis and syphilis includes cases where the duration of infection could not be determined.

‡ In Queensland, includes incident hepatitis cases.

§ 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 Western Australia, exclude ocular infections.

\*\* In the national case definitions for chlamydial, gonococcal and syphilis infections the mode of transmission cannot be inferred from the site of infection. Transmission (especially in children) may be by a non-sexual mode (e.g. perinatal infections, epidemic gonococcal conjunctivitis).

†† Ratio of current quarter total to the mean of last 5 years for the same quarter. Ratios for varicella zoster (chickenpox), varicella zoster (shingles) and varicella zoster (unspecified) are based on 4 years of data.

‡‡ In the Australian Capital Territory, Murray Valley encephalitis virus infection and Kunjin virus infection are combined under Murray Valley encephalitis virus infection.

§§ 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 2011, by state or territory. (Annualised rate per 100,000 population)**

Disease	State or territory								
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	Aust
<b>Bloodborne diseases</b>									
Hepatitis (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hepatitis B (newly acquired)*	0.0	0.2	1.7	1.2	1.0	0.8	1.8	0.5	0.9
Hepatitis B (unspecified)†	25.6	33.3	66.2	16.1	23.8	4.7	33.4	30.3	28.4
Hepatitis C (newly acquired)*	3.3	0.4	3.5	NN	1.2	3.2	0.0	3.8	1.0
Hepatitis C (unspecified)†‡	45.7	41.9	106.2	51.7	24.8	32.3	39.9	38.7	42.3
Hepatitis D	0.0	0.1	0.0	0.2	0.0	0.0	0.1	0.0	0.1
<b>Gastrointestinal diseases</b>									
Botulism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis§	140.4	NN	41.8	105.1	133.8	222.2	120.0	93.4	115.7
Cryptosporidiosis	3.3	4.6	74.9	14.0	1.9	6.3	4.5	7.8	7.4
Haemolytic uraemic syndrome	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.1
Hepatitis A	2.2	0.8	0.0	0.4	0.5	1.6	0.6	1.0	0.7
Hepatitis E	0.0	0.1	0.0	0.2	0.0	0.0	0.1	0.5	0.2
Listeriosis	0.0	0.3	0.0	0.4	0.2	0.8	0.6	0.3	0.4
STEC, VTEC¶	5.6	0.2	0.0	0.5	4.4	0.8	0.1	0.0	0.6
Salmonellosis	72.4	39.8	196.8	64.3	65.9	42.6	46.0	57.8	52.3
Shigellosis	4.5	2.3	62.7	1.0	3.2	0.0	1.5	2.4	2.5
Typhoid fever	1.1	0.3	1.7	0.5	0.5	0.8	0.7	0.7	0.6
<b>Quarantinable diseases</b>									
Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Human 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
<b>Sexually transmitted infections</b>									
Chlamydial infection¶.***	331.0	276.4	1,107.7	400.4	293.1	357.0	348.8	461.8	350.9
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection**	22.3	49.2	839.4	66.5	28.0	4.7	32.0	87.8	57.5
Syphilis – congenital**	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Syphilis <2 years duration**	2.2	5.6	5.2	6.2	2.9	0.8	5.1	5.1	5.2
Syphilis >2 years or unspecified duration†.***	5.6	4.6	27.9	5.1	-	7.1	8.0	5.4	6.0
<b>Vaccine preventable diseases</b>									
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	0.0	0.1	0.0	0.0	0.0	0.2	0.0
Influenza (laboratory confirmed)	37.9	32.2	102.8	56.7	124.0	22.1	42.8	78.6	51.9
Measles	21.2	0.6	3.5	0.1	0.2	0.0	0.6	1.4	0.9
Mumps	0.0	1.2	0.0	1.1	0.0	0.8	0.4	0.3	0.7
Pertussis	117.0	180.7	243.8	219.0	71.0	160.7	131.9	348.2	184.6
Pneumococcal disease (invasive)	6.7	6.7	47.0	5.5	5.8	13.4	6.0	7.5	6.9
Poliomyelitis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	1.1	0.2	0.0	0.1	0.2	0.0	0.1	0.0	0.1
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

**Table 3 continued: Notification rates of diseases, 1 October to 31 December 2011, by state or territory. (Annualised rate per 100,000 population)**

Disease	State or territory								
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	Aust
<b>Vaccine preventable diseases, cont'd</b>									
Varicella zoster (chickenpox)	3.3	NN	76.6	7.9	39.9	3.9	15.7	22.3	17.2
Varicella zoster (shingles)	11.1	NN	83.6	1.8	96.3	50.4	19.1	45.5	28.2
Varicella zoster (unspecified)	33.4	NN	1.7	95.2	15.8	22.1	52.1	44.8	57.7
<b>Vectorborne diseases</b>									
Arbovirus infection (NEC)	0.0	0.0	1.7	0.4	0.0	0.0	0.2	0.0	0.1
Barmah Forest virus infection	0.0	3.8	20.9	18.4	3.9	0.0	0.3	6.6	6.2
Dengue virus infection	3.3	2.5	12.2	3.4	1.7	0.8	1.9	14.6	3.8
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 <sup>††</sup>	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	0.0	1.0	19.2	3.2	0.7	2.4	1.6	3.0	2.0
Murray Valley encephalitis virus infection <sup>††</sup>	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ross River virus infection	0.0	3.8	80.1	24.2	10.0	1.6	3.2	47.7	13.4
<b>Zoonoses</b>									
Anthrax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia 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	0.7	0.0	0.0	0.0	0.0	0.2
Leptospirosis	0.0	0.3	1.7	0.9	0.0	0.8	0.1	0.2	0.4
Lyssavirus (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ornithosis	0.0	0.3	0.0	0.1	0.0	0.0	1.0	0.7	0.4
Q fever	0.0	1.9	0.0	3.8	0.2	0.0	0.4	1.0	1.6
Tularaemia	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
<b>Other bacterial diseases</b>									
Legionellosis	0.0	1.2	1.7	1.1	1.9	1.6	1.9	5.4	1.8
Leprosy	0.0	0.1	0.0	0.0	0.2	0.0	0.1	0.0	0.1
Meningococcal infection <sup>‡‡</sup>	0.0	0.9	1.7	0.6	1.5	0.0	0.8	1.4	0.9
Tuberculosis	10.0	5.1	13.9	5.2	5.4	4.7	7.8	6.1	6.1

\* Newly acquired hepatitis includes cases where the infection was determined to be acquired within 24 months prior to diagnosis.

† Unspecified hepatitis and syphilis includes cases where the duration of infection could not be determined.

‡ In Queensland, includes incident hepatitis C cases.

§ Notified as 'foodborne disease' or 'gastroenteritis in an institution' in New South Wales.

|| Infection with Shiga 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 Western Australia exclude ocular infections.

\*\* In the national case definitions for chlamydial, gonococcal and syphilis infections the mode of transmission cannot be inferred from the site of infection. Transmission (especially in children) may be by a non-sexual mode (e.g. perinatal infections, epidemic gonococcal conjunctivitis).

†† In the Australian Capital Territory, Murray Valley encephalitis virus infection and Kunjin virus infection are combined under Murray Valley encephalitis virus infection.

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

NEC Not elsewhere classified.

NN Not notifiable.

NDP No data provided.