

## Quarterly reports

# NATIONAL NOTIFIABLE DISEASES SURVEILLANCE SYSTEM, 1 APRIL TO 30 JUNE 2014

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 54,644 notifications to the National Notifiable Diseases Surveillance System (NNDSS) with a notification received date between 1 April to 30 June 2014 (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

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 April to 30 June 2014, by date of diagnosis\*

Disease	State or territory										Total 2nd quarter 2014	Total 1st quarter 2013	Total 2nd quarter 2013	Last 5 years mean 2nd quarter	Ratio	Year to date 2014	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	0	0	0	0	0	0.0
Hepatitis B (newly acquired) <sup>†</sup>	1	11	2	9	0	0	14	7			44	58	43	50.6	102	106.2	
Hepatitis B (unspecified) <sup>†</sup>	26	631	46	239	97	20	458	137			1,654	1,644	1,765	1,669.4	3,283	3,374.6	
Hepatitis C (newly acquired) <sup>†</sup>	6	5	1	0	11	4	30	44			101	98	78	105.6	199	216.8	
Hepatitis C (unspecified) <sup>†</sup>	44	890	47	663	99	61	518	256			2,578	2,515	2,494	2,553.0	5,066	5,168.0	
Hepatitis D	0	5	0	4	0	0	4	0			13	10	17	11.4	23	21.2	
<b>Gastrointestinal diseases</b>																	
Botulism	0	0	0	1	0	0	0	0			1	0	1	0.4	1	1.0	
Campylobacteriosis	134	NN	70	1,492	413	194	1,624	722			4,649	4,816	3,202	3,546.6	9,415	7,849.8	
Cryptosporidiosis	4	91	22	210	68	10	173	87			665	869	1,124	813.2	1,523	2,253.2	
Haemolytic uraemic syndrome	0	1	1	1	0	0	1	0			4	9	3	3.4	13	7.8	
Hepatitis A	1	13	0	8	0	0	16	2			40	86	42	65.2	125	130.6	
Hepatitis E	1	17	0	1	0	0	1	0			20	10	5	8.6	30	22.4	
Listeriosis	0	8	0	2	2	0	8	0			20	22	17	18.0	42	45.2	
STEC, VTEC <sup>§</sup>	0	9	0	9	11	0	3	0			32	41	29	20.2	73	56.0	
Salmonellosis	71	1,063	145	1,311	327	42	890	353			4,202	5,260	3,016	2,633.6	9,403	6,685.2	
Shigellosis	1	31	24	35	3	0	110	15			219	324	114	124.8	538	299.2	
Typhoid	0	10	1	1	1	0	4	4			21	45	29	24.4	65	74.0	
<b>Quarantinable diseases</b>																	
Cholera	0	0	0	0	0	0	1	0			1	1	1	2.0	2	2.6	
Highly pathogenic avian influenza in humans	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	
Rabies	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	
Smallpox	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	
Yellow fever	0	0	0	0	0	0	0	0			0	0	0	0.7	0	0.7	

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 April to 30 June 2014, by date of diagnosis\*

Disease	State or territory							Total 2nd quarter 2014	Total 1st quarter 2013	Total 2nd quarter 2013	Last 5 years mean 2nd quarter	Ratio	Year to date 2014	Last 5 years YTD mean	
	ACT	NSW	NT	Qld	SA	Tas	Vic								WA
<b>Sexually transmissible infections</b>															
Chlamydia infection <sup>††</sup>	305	5,661	792	5,089	1,410	483	4,827	2,832	21,399	22,686	20,771	19,414.2	1.1	43,946	39,218.2
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	0	0.2
Gonococcal infection <sup>†</sup>	28	1,219	494	743	220	11	698	552	3,965	4,293	3,868	3,069.2	1.3	8,206	6,094.4
Syphilis – congenital	0	0	0	0	0	0	0	0	0	0	2	0.8	0.0	0	2.2
Syphilis <2 years duration <sup>†</sup>	5	146	13	96	5	3	145	32	445	446	411	353.6	1.3	885	715.6
Syphilis >2 years or unspecified duration <sup>††</sup>	9	95	10	60	30	3	226	12	445	480	459	374.0	1.2	919	713.0
<b>Vaccine preventable diseases</b>															
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0.8	0.0	0	1.0
<i>Haemophilus influenzae</i> type b	0	2	0	2	0	0	1	1	6	3	5	5.8	1.0	9	9.6
Influenza (laboratory confirmed)	68	1,023	48	1,480	507	81	880	480	4,567	3,867	2,505	5,980.4	0.8	8,391	7,421.6
Measles	0	7	1	32	5	0	17	10	72	175	17	20.8	3.5	247	58.8
Mumps	1	16	0	15	1	1	3	2	39	64	62	48.0	0.8	102	93.0
Pertussis	45	418	18	327	104	15	769	372	2,068	2,357	2,545	5,829.0	0.4	4,396	12,998.4
Pneumococcal disease (invasive)	4	129	7	57	29	12	107	52	397	217	439	463.2	0.9	611	679.4
Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Rubella	0	2	0	1	0	0	0	0	3	6	7	9.8	0.3	9	22.0
Rubella – congenital	0	0	0	0	0	0	0	0	0	0	1	0.2	0.0	0	0.2
Tetanus	0	0	0	0	0	0	0	0	0	1	1	0.6	0.0	1	2.4
Varicella zoster (chickenpox)	7	NN	23	35	77	6	194	119	461	484	434	430.6	1.1	940	803.4
Varicella zoster (shingles)	15	NN	58	11	470	67	377	330	1,328	1,414	1,277	958.8	1.4	2,726	1,926.6
Varicella zoster (unspecified)	64	NN	1	1,280	61	28	845	289	2,568	2,783	2,224	1,882.6	1.4	5,326	3,795.8
<b>Vectorborne diseases</b>															
Arbovirus infection (NEC)	0	2	0	7	0	0	1	0	10	14	5	3.0	3.3	24	6.4
Barmah Forest virus infection	0	59	12	126	0	0	3	14	214	335	1,561	605.4	0.4	545	1,351.8
Dengue virus infection	8	119	18	103	21	6	5	135	415	656	503	302.4	1.4	1,069	847.4
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	2	0.4	0.0	0	0.6
Kunjin virus infection**	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0	0	1.0
Malaria	3	29	1	21	2	1	3	15	75	91	86	96.0	0.8	166	206.8
Murray Valley encephalitis virus infection**	0	0	0	0	0	0	0	0	0	0	0	1.8	0.0	0	4.0
Ross River virus infection	2	211	97	691	15	4	25	254	1,299	1,639	1,314	1,378.6	0.9	2,925	3,366.0

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 April to 30 June 2014, by date of diagnosis

Disease	State or territory										Total 2nd quarter 2014	Total 1st quarter 2013	Total 2nd quarter 2013	Last 5 years mean 2nd quarter	Ratio	Year to date 2014	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	0.2
Australian bat lyssavirus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Brucellosis	0	2	0	0	0	0	1	0	0	0	3	6	3	5.8	9	12.8	
Leptospirosis	0	1	0	28	0	0	0	1	0	0	30	27	33	43.6	57	97.8	
Lyssavirus (NEC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0.0	
Ornithosis	0	2	0	0	0	0	3	0	0	5	11	16	16	15.4	16	29.4	
Q fever	0	34	0	66	5	0	3	2	110	129	138	138	96.0	1.1	237	191.2	
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0.3	
<b>Other bacterial infections</b>																	
Legionellosis	0	19	1	19	11	2	34	22	108	90	111	97.4	1.1	195	178.8		
Leprosy	0	0	0	1	0	0	1	2	4	3	4	2.8	1.4	7	4.0		
Meningococcal infection††	1	13	0	11	4	0	6	6	41	26	27	53.8	0.8	67	98.2		
Tuberculosis	5	101	6	34	10	0	117	30	303	321	289	281.2	1.1	619	598.6		
<b>Total</b>	<b>859</b>	<b>12,095</b>	<b>1,959</b>	<b>14,321</b>	<b>4,019</b>	<b>1,054</b>	<b>13,146</b>	<b>7,191</b>	<b>54,644</b>	<b>58,432</b>	<b>51,100</b>			<b>112,553</b>			

\* The date of diagnosis is the onset date or where the date of onset was not known, the earliest of the specimen collection date, the notification date, or the notification receive date. For hepatitis B (unspecified), hepatitis C (unspecified), leprosy, syphilis (>2 years or unspecified duration) and tuberculosis, the public health unit notification receive date was used.

† Newly acquired hepatitis includes cases where the infection was determined to be acquired within 24 months prior to diagnosis. Queensland reports hepatitis C newly acquired under hepatitis unspecified.

‡ Unspecified hepatitis and syphilis includes cases where the duration of infection could not be determined or is greater than 24 months.

§ Infection with Shiga toxin/verotoxin-producing *Escherichia coli*.

|| Includes *Chlamydia trachomatis* identified from cervical, rectal, urine, urethral and throat samples, except for South Australia, which reports only cervical, urine and urethral specimens. From 1 July 2013 case definition changed to exclude all ocular infections.

¶ The national case definitions for chlamydial, gonococcal and syphilis diagnoses include infections that may be acquired through a non-sexual mode (especially in children – 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 and the Australian Capital Territory also report conjunctival cases.

NN Not notifiable

NEC Not elsewhere classified

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.

**Table 3: Notification rates of diseases, 1 April to 30 June 2014, 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)‡	1.0	0.6	3.3	0.8	0.0	0.0	1.0	1.1	0.8
Hepatitis B (unspecified)§	27.3	34.1	76.3	20.5	23.2	15.6	31.9	21.7	28.6
Hepatitis C (newly acquired)‡	6.3	0.3	1.7	0.0	2.6	3.1	2.1	7.0	1.7
Hepatitis C (unspecified)§	47.2	48.0	77.9	57.0	23.7	47.6	36.1	40.6	44.6
Hepatitis D	0.0	0.3	0.0	0.3	0.0	0.0	0.3	0.0	0.2
<b>Gastrointestinal diseases</b>									
Botulism	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis	140.5	NN	116.1	128.2	98.9	151.2	113.2	114.6	118.3
Cryptosporidiosis	4.2	4.9	36.5	18.0	16.3	7.8	12.1	13.8	11.5
Haemolytic uraemic syndrome	0.0	0.1	1.7	0.1	0.0	0.0	0.1	0.0	0.1
Hepatitis A	1.0	0.7	0.0	0.7	0.0	0.0	1.1	0.3	0.7
Hepatitis E	1.0	0.9	0.0	0.1	0.0	0.0	0.1	0.0	0.3
Listeriosis	0.0	0.4	0.0	0.2	0.5	0.0	0.6	0.0	0.3
STEC,VTEC¶	0.0	0.5	0.0	0.8	2.6	0.0	0.2	0.0	0.6
Salmonellosis	74.4	57.4	240.5	112.7	78.3	32.7	62.0	56.0	72.7
Shigellosis	1.0	1.7	39.8	3.0	0.7	0.0	7.7	2.4	3.8
Typhoid fever	0.0	0.5	1.7	0.1	0.2	0.0	0.3	0.6	0.4
<b>Quarantinable diseases</b>									
Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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¶,***	319.8	305.6	1,313.5	437.3	337.6	376.5	336.4	449.4	370.0
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection**	29.4	65.8	819.3	63.8	52.7	8.6	48.7	87.6	68.6
Syphilis – congenital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Syphilis <2 years duration**	5.2	7.9	21.6	8.2	1.2	2.3	10.1	5.1	7.7
Syphilis >2 years or unspecified duration§,***	9.4	5.1	16.6	5.2	7.2	2.3	15.8	1.9	7.7
<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	0.1	0.0	0.2	0.0	0.0	0.1	0.2	0.1
Influenza (laboratory confirmed)	71.3	55.2	79.6	127.2	121.4	63.1	61.3	76.2	79.0
Measles	0.0	0.4	1.7	2.7	1.2	0.0	1.2	1.6	1.2
Mumps	1.0	0.9	0.0	1.3	0.2	0.8	0.2	0.3	0.7
Pertussis	47.2	22.6	29.9	28.1	24.9	11.7	53.6	59.0	35.8
Pneumococcal disease (invasive)	4.2	7.0	11.6	4.9	6.9	9.4	7.5	8.3	6.9
Poliomyelitis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	0.0	0.1	0.0	0.1	0.0	0.0	0.0	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 April to 30 June 2014, 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)	7.3	NN	38.1	3.0	18.4	4.7	13.5	18.9	11.7
Varicella zoster (shingles)	15.7	NN	96.2	0.9	112.5	52.2	26.3	52.4	33.8
Varicella zoster (unspecified)	67.1	NN	1.7	110.0	14.6	21.8	58.9	45.9	65.3
<b>Vectorborne diseases</b>									
Arbovirus infection (NEC)	0.0	0.1	0.0	0.6	0.0	0.0	0.1	0.0	0.2
Barmah Forest virus infection	0.0	3.2	19.9	10.8	0.0	0.0	0.2	2.2	3.7
Dengue virus infection	8.4	6.4	29.9	8.9	5.0	4.7	0.3	21.4	7.2
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	3.1	1.6	1.7	1.8	0.5	0.8	0.2	2.4	1.3
Murray Valley encephalitis virus infection <sup>††</sup>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ross River virus infection	2.1	11.4	160.9	59.4	3.6	3.1	1.7	40.3	22.5
<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	0.0	0.0	0.0	0.1	0.0	0.1
Leptospirosis	0.0	0.1	0.0	2.4	0.0	0.0	0.0	0.2	0.5
Lyssavirus (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ornithosis	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.1
Q fever	0.0	1.8	0.0	5.7	1.2	0.0	0.2	0.3	1.9
Tularaemia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Other bacterial diseases</b>									
Legionellosis	0.0	1.0	1.7	1.6	2.6	1.6	2.4	3.5	1.9
Leprosy	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.1
Meningococcal infection <sup>‡‡</sup>	1.0	0.7	0.0	0.9	1.0	0.0	0.4	1.0	0.7
Tuberculosis	5.2	5.5	10.0	2.9	2.4	0.0	8.2	4.8	5.2

\* The date of diagnosis is the onset date or where the date of onset was not known, the earliest of the specimen collection date, the notification date, or the notification receive date. For hepatitis B (unspecified), hepatitis C (unspecified), leprosy, syphilis (> 2 years or unspecified duration) and tuberculosis, the public health unit notification receive date was used.

† Rate per 100,000 of population. Annualisation Factor was 4.0

‡ Newly acquired hepatitis includes cases where the infection was determined to be acquired within 24 months prior to diagnosis. Queensland reports hepatitis C newly acquired under hepatitis C unspecified.

§ Unspecified hepatitis and syphilis includes cases where the duration of infection could not be determined or is greater than 24 months.

|| Infection with Shiga toxin/verotoxin-producing *Escherichia coli*.

¶ Includes *Chlamydia trachomatis* identified from cervical, rectal, urine, urethral and throat samples, except for South Australia, which reports only cervical, urine and urethral specimens. From 1 July 2013 case definition changed to exclude all ocular infections.

\*\* The national case definitions for chlamydial, gonococcal and syphilis diagnoses include infections that may be acquired through a non-sexual mode (especially in children – 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 and the Australian Capital Territory also report conjunctival cases.

NEC Not elsewhere classified.

NN Not notifiable.