

Quarterly report

National Notifiable Diseases Surveillance System, 1 April to 30 June 2017

Office of Health Protection, Department of Health

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 75,935 notifications to the National Notifiable Diseases Surveillance System (NNDSS) between 1 April to 30 June 2017 (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
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
Paratyphoid	All jurisdictions
Shiga toxin/verotoxin-producing <i>Escherichia coli</i>	All jurisdictions
Salmonellosis	All jurisdictions
Shigellosis	All jurisdictions
Typhoid fever	All jurisdictions
Quarantinable diseases	
Avian influenza in humans	All jurisdictions
Cholera	All jurisdictions
Middle East respiratory syndrome coronavirus	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

Disease	Data received from:
Gonococcal infection	All jurisdictions
Syphilis < 2 years duration	All jurisdictions
Syphilis > 2 years or unspecified duration	All jurisdictions
Syphilis - congenital	All jurisdictions
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
Poliovirus infection	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	
Barmah Forest virus infection	All jurisdictions
Chikungunya virus infection	All jurisdictions except Australian Capital Territory
Dengue virus infection	All jurisdictions
Flavivirus infection (unspecified)	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 infection	All jurisdictions
Brucellosis	All jurisdictions
Leptospirosis	All jurisdictions
Lyssavirus infection (NEC)	All jurisdictions
Ornithosis	All jurisdictions
Q fever	All jurisdictions
Tularaemia	All jurisdictions
Other bacterial infections	
Legionellosis	All jurisdictions
Leprosy	All jurisdictions
Meningococcal infection – invasive	All jurisdictions
Tuberculosis	All jurisdictions
NEC	Not elsewhere classified.

Table 2: Notifications of diseases received by state and territory health authorities, 1 April to 30 June 2017, by date of diagnosis*

Disease	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	Total current quarter	Total last quarter	Total same period previous year	Last 5 years mean current quarter	Ratio	Year to date	Last 5 years YTD mean
Bloodborne diseases															
Hepatitis B (newly acquired) †	0	1	3	12	4	2	9	6	37	39	43	41.2	0.9	76	88.8
Hepatitis B (unspecified) †	29	614	23	202	63	11	449	127	1,518	1,544	1,860	1,638	0.9	3,060	3,207.2
Hepatitis C (newly acquired) †	3	10	4	79	7	7	17	23	150	158	184	154.2	1	307	316.2
Hepatitis C (unspecified) †	37	996	39	492	91	48	494	275	2,472	2,638	2,945	2,486.2	1	5,096	4,968
Hepatitis D	0	3	0	2	0	0	3	0	8	14	15	13.8	0.6	22	27
Gastrointestinal diseases															
Botulism	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0	1.2
Campylobacteriosis	90	NN	123	1,649	632	135	1,413	705	4,747	6,585	5,225	4,270	1.1	11,283	9,178
Cryptosporidiosis	26	266	34	328	128	11	397	89	1,279	2,282	1,499	1,035.6	1.2	3,553	2,605.8
Haemolytic uraemic syndrome (HUS)	0	1	0	1	0	0	0	1	3	7	1	3.6	0.8	10	9.2
Hepatitis A	0	5	0	2	4	0	7	2	20	51	26	35	0.6	71	103.2
Hepatitis E	0	6	0	2	0	0	2	2	12	18	5	9.8	1.2	30	22.4
Listeriosis	0	7	0	8	1	0	2	2	20	22	23	19.8	1	42	43.8
Paratyphoid	0	0	0	1	1	0	4	1	7	27	13	16.4	0.4	34	46.2
STEC ^s	0	16	1	6	52	0	2	7	84	153	57	35.2	2.4	233	73.8
Salmonellosis	68	830	171	1,043	335	47	734	622	3,850	6,324	4,505	3,631.2	1.1	10,145	8,857
Shigellosis	1	47	146	70	5	3	96	36	404	403	351	207.8	1.9	807	471.2
Typhoid Fever	0	12	0	3	1	0	6	5	27	58	21	24	1.1	85	73.8
Quarantinable diseases															
Avian influenza in humans (AIH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cholera	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	1.6
Middle East respiratory syndrome coronavirus (MERS-CoV)	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
Rabies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Severe acute respiratory syndrome (SARS)	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
Viral haemorrhagic fever (NEC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Disease	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	Total current quarter	Total last quarter	Total same period previous year	Last 5 years mean current quarter	Ratio	Year to date	Last 5 years YTD mean	
Yellow fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sexually transmissible infections																
Chlamydia infection ^{1,2}	390	6,910	645	5,941	1,527	414	6,428	2,800	25,055	27,493	24,904	22,037.4	1.1	52,486	44,781	
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	
Gonococcal infection ¹	52	2,153	429	1,294	340	24	1,839	833	6,964	8,089	5,961	4,379.6	1.6	15,023	8,780.6	
Syphilis < 2 years ¹	4	265	84	294	42	2	321	60	1,072	1,093	875	565.6	1.9	2,163	1,105.4	
Syphilis > 2 years or unspecified duration ^{1,2}	4	133	46	73	13	4	186	36	495	537	504	450.8	1.1	1,032	890.8	
Syphilis congenital	0	0	0	1	0	0	1	0	2	2	0	0.6	3.3	4	0.8	
Vaccine preventable diseases																
Diphtheria	0	0	0	2	0	0	1	0	3	1	3	0.6	5	4	1.2	
Haemophilus influenzae type b	0	2	0	0	0	0	1	0	3	3	5	4.8	0.6	6	7.8	
Influenza (laboratory confirmed)	95	4,811	83	3,295	1,928	130	2,150	521	13,013	8,339	7,326	6,297.8	2.1	21,302	9,852.4	
Measles	0	5	0	1	0	0	4	1	11	41	19	31.4	0.4	52	83	
Mumps	0	33	38	90	19	0	8	3	191	179	194	92.2	2.1	368	206	
Pertussis	61	1,334	24	262	411	7	415	299	2,813	3,455	3,869	3,622.2	0.8	6,240	8,255.2	
Pneumococcal disease (invasive)	7	165	15	71	59	7	124	50	498	254	436	437.4	1.1	752	646.6	
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rotavirus	0	197	260	581	177	10	0	237	1,462	682	525	540.6	2.7	2,136	1,210.8	
Rubella	0	2	0	0	0	0	0	0	2	5	9	6.2	0.3	7	11.8	
Rubella congenital	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2	
Tetanus	0	0	0	0	2	0	0	0	2	1	1	0.6	3.3	3	2.2	
Varicella zoster (chickenpox)	19	NN	16	73	116	18	303	120	665	725	606	510.8	1.3	1,384	993.8	
Varicella zoster (shingles)	64	NN	101	14	686	83	722	448	2,118	2,209	1,722	1,416	1.5	4,314	2,836.2	
Varicella zoster (unspecified)	52	NN	0	1,877	25	39	1,534	389	3,916	4,124	3,838	2,948	1.3	8,016	5,918.6	
Vectorborne diseases																
Barmah Forest virus infection	0	55	7	74	0	0	2	11	149	111	89	478.6	0.3	260	999	
Chikungunya virus infection	0	10	0	0	0	2	6	3	21	21	15	23.4	0.9	42	49.6	
Dengue virus infection	6	62	12	54	5	1	50	45	235	422	710	515.6	0.5	656	1,180.2	
Flavivirus infection (unspecified)	0	2	0	4	0	0	0	0	6	8	19	7	0.9	14	21.6	

Disease	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	Total current quarter	Total last quarter	Total same period previous year	Last 5 years mean current quarter	Ratio	Year to date	Last 5 years YTD mean
Japanese encephalitis virus infection	0	0	0	0	0	0	1	0	1	0	0	0.4	2.5	1	1
Malaria	6	19	3	19	2	0	7	17	73	122	74	73.2	1	195	161.8
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.6
Ross River virus infection	2	404	35	861	65	18	134	332	1,851	3,941	1,038	1,371	1.4	5,773	3,806.4
West Nile/Kunjin virus infection	0	0	0	0	0	0	0	4	4	0	0	0.2	20	4	0.2
Zoonoses															
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australian bat lyssavirus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Brucellosis	0	3	0	3	0	0	0	0	6	1	4	4	1.5	7	8.8
Leptospirosis	0	5	2	23	1	0	0	1	32	60	36	30.8	1	92	62.6
Lyssavirus infection (NEC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ornithosis	0	0	0	0	0	0	5	0	5	6	2	8.2	0.6	10	15
Q fever	0	53	0	53	5	1	6	2	120	135	124	121.8	1	254	252.6
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other bacterial infections															
Legionellosis	0	39	0	25	9	2	34	10	119	87	102	103.4	1.2	202	194.8
Leprosy	0	1	0	0	0	0	0	0	1	2	4	3.6	0.3	3	5.8
Meningococcal disease (invasive)**	0	16	0	13	9	3	18	6	65	74	46	45.6	1.4	138	79.4
Tuberculosis	7	127	3	47	15	4	102	19	324	326	296	292	1.1	649	604.4
	1,023	19,620	2,347	18,945	6,780	1,033	18,037	8,150	75,935	82,871	70,129			158,446	

* 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 began reporting hepatitis C newly acquired from 1 September 2016. Previous notifications are reported 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.

¶ The national case definitions for chlamydia, 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).

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

†† Notifiable

‡‡ 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 2017, by state or territory. (Annualised rate per 100,000 population)^{*,†}

Disease	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	Australia
Bloodborne diseases									
Hepatitis B (newly acquired) ‡	0.0	0.1	4.9	1.0	0.9	1.5	0.6	0.9	0.6
Hepatitis B (unspecified) §	28.8	31.7	37.4	16.7	14.7	8.5	29.1	19.9	25.1
Hepatitis C (newly acquired) ‡	3.0	0.5	6.5	6.5	1.6	5.4	1.1	3.6	2.5
Hepatitis C (unspecified) §	36.7	51.5	63.5	40.6	21.2	37.1	32.0	43.0	40.8
Hepatitis D	0.0	0.2	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	89.2	NN	200.2	136.0	147.6	104.3	91.5	110.2	115.3
Cryptosporidiosis	25.8	13.7	55.3	27.1	29.9	8.5	25.7	13.9	21.1
Haemolytic uraemic syndrome (HUS)	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0
Hepatitis A	0.0	0.3	0.0	0.2	0.9	0.0	0.5	0.3	0.3
Hepatitis E	0.0	0.3	0.0	0.2	0.0	0.0	0.1	0.3	0.2
Listeriosis	0.0	0.4	0.0	0.7	0.2	0.0	0.1	0.3	0.3
Paratyphoid	0.0	0.0	0.0	0.1	0.2	0.0	0.3	0.2	0.1
STEC II	0.0	0.8	1.6	0.5	12.1	0.0	0.1	1.1	1.4
Salmonellosis	67.4	42.9	278.3	86.0	78.2	36.3	47.5	97.2	63.6
Shigellosis	1.0	2.4	237.6	5.8	1.2	2.3	6.2	5.6	6.7
Typhoid Fever	0.0	0.6	0.0	0.2	0.2	0.0	0.4	0.8	0.4
Quarantinable diseases									
Avian influenza in humans (AIH)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle East respiratory syndrome coronavirus (MERS-CoV)	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 (SARS)	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 (NEC)	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

Disease	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	Australia
Sexually transmissible infections									
Chlamydial infection ^{*,**}	386.6	357.1	1,049.9	490.1	356.6	319.9	416.1	437.7	413.9
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection ^{**}	51.6	111.3	698.3	106.7	79.4	18.5	119.0	130.2	115.1
Syphilis < 2 years ^{**}	4.0	13.7	136.7	24.3	9.8	1.5	20.8	9.4	17.7
Syphilis > 2 years or unspecified duration ^{*,**}	4.0	6.9	74.9	6.0	3.0	3.1	12.0	5.6	8.2
Syphilis congenital	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
Vaccine preventable diseases									
Diphtheria	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0
Haemophilus influenzae type b	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Influenza (laboratory confirmed)	94.2	248.7	135.1	271.8	450.2	100.5	139.2	81.4	215.0
Measles	0.0	0.3	0.0	0.1	0.0	0.0	0.3	0.2	0.2
Mumps	0.0	1.7	61.9	7.4	4.4	0.0	0.5	0.5	3.2
Pertussis	60.5	68.9	39.1	21.6	96.0	5.4	26.9	46.7	46.5
Pneumococcal disease (invasive)	6.9	8.5	24.4	5.9	13.8	5.4	8.0	7.8	8.2
Poliovirus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rotavirus	0.0	10.2	423.2	47.9	41.3	7.7	0.0	37.0	24.2
Rubella	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella congenital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tetanus	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
Varicella zoster (chickenpox)	18.8	NN	26.0	6.0	27.1	13.9	19.6	18.8	16.1
Varicella zoster (shingles)	63.4	NN	164.4	1.2	160.2	64.1	46.7	70.0	51.4
Varicella zoster (unspecified)	51.6	NN	0.0	154.8	5.8	30.1	99.3	60.8	95.1
Vectorborne diseases									
Barmah Forest virus infection	0.0	2.8	11.4	6.1	0.0	0.0	0.1	1.7	2.5
Chikungunya virus infection	0.0	0.5	0.0	0.0	0.0	1.5	0.4	0.5	0.3
Dengue virus infection	5.9	3.2	19.5	4.5	1.2	0.8	3.2	7.0	3.9
Flavivirus infection (unspecified)	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.1
Japanese encephalitis virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Malaria	5.9	1.0	4.9	1.6	0.5	0.0	0.5	2.7	1.2
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	2.0	20.9	57.0	71.0	15.2	13.9	8.7	51.9	30.6

Disease	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	Australia
West Nile/Kunjin virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
Zoonoses									
Anthrax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australian bat lyssavirus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brucellosis	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.1
Leptospirosis	0.0	0.3	3.3	1.9	0.2	0.0	0.0	0.2	0.5
Lyssavirus infection (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	0.3	0.0	0.1
Q fever	0.0	2.7	0.0	4.4	1.2	0.8	0.4	0.3	2.0
Tularaemia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other bacterial infections									
Legionellosis	0.0	2.0	0.0	2.1	2.1	1.5	2.2	1.6	2.0
Leprosy	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meningococcal disease (invasive) ††	0.0	0.8	0.0	1.1	2.1	2.3	1.2	0.9	1.1
Tuberculosis	6.9	6.6	4.9	3.9	3.5	3.1	6.6	3.0	5.4

* 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 began reporting hepatitis C newly acquired from 1 September 2016. Previous notifications are reported 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.
 ** The national case definitions for chlamydia, 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).
 †† 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.

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