

Quarterly report

National Notifiable Diseases Surveillance System, 1 July to 30 September 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 267,220 notifications to the National Notifiable Diseases Surveillance System (NNDSS) between 1 July to 30 September 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 July to 30 September 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	4	1	11	2	1	10	4	33	37	35	39.6	0.8	109	128.4
Hepatitis B (unspecified) †	16	562	19	217	74	12	437	145	1,482	1,541	1,569	1,695	0.9	4,542	4,902.2
Hepatitis C (newly acquired) †	3	13	2	73	3	8	9	36	147	151	164	151.6	1	454	467.8
Hepatitis C (unspecified) †	25	1,069	27	518	92	60	500	242	2,533	2,509	2,626	2,538	1	7,629	7,506.2
Hepatitis D	0	9	0	5	3	0	9	0	26	8	14	11.4	2.3	48	38.4
Gastrointestinal diseases															
Botulism	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	1.4
Campylobacteriosis	83	NN	101	1,541	751	158	1,514	851	4,999	4,790	6,021	4,687.2	1.1	16,282	13,865.2
Cryptosporidiosis	4	103	9	87	63	16	195	39	516	1,294	656	462.6	1.1	4,069	3,068.4
Haemolytic uraemic syndrome	0	0	0	1	0	0	0	0	1	4	5	4	0.3	11	13.2
Hepatitis A	1	36	0	6	2	0	12	3	60	21	23	37.2	1.6	131	140.4
Hepatitis E	0	2	0	5	0	0	2	1	10	12	8	6	1.7	40	28.4
Listeriosis	0	3	0	3	3	0	2	2	13	20	13	15.6	0.8	55	59.4
Paratyphoid	0	3	0	1	1	0	4	0	9	7	13	10	0.9	43	56.2
STEC ^s	0	8	1	5	79	1	9	13	116	86	94	46.8	2.5	349	120.6
Salmonellosis	43	548	84	553	199	54	604	484	2,569	3,917	3,155	2,557.8	1	12,714	11,414.8
Shigellosis	4	61	112	40	31	8	121	52	429	406	329	212.4	2	1,236	683.6
Typhoid Fever	1	10	0	2	0	0	6	4	23	27	21	18.4	1.3	108	92.2
Quarantinable diseases															
Avian Influenza in Humans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cholera	0	0	0	0	0	0	0	1	1	0	0	0.2	5	1	1.8
Middle East respiratory syndrome coronavirus	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	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	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 ^{1,4}	321	6,913	723	5,605	1,450	407	4,674	2,705	22,798	25,406	23,195	21,244.4	1.1	75,284	66,025.4	
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.4	
Gonococcal infection ⁴	54	2,193	474	1,158	326	28	1,673	807	6,713	7,046	6,105	4,235	1.6	21,736	1,3015.6	
Syphilis < 2 years ⁴	7	305	95	254	47	4	343	72	1,127	1,083	922	627	1.8	3,290	1,732.4	
Syphilis > 2 years or unspecified duration ^{4,5}	4	118	25	88	12	6	215	43	511	501	541	459.2	1.1	1,543	1,350	
Syphilis congenital	0	0	0	1	0	0	1	0	2	2	2	2	1	6	2.8	
Vaccine preventable diseases																
Diphtheria	0	0	0	0	0	0	1	0	1	3	1	0.8	1.3	5	2	
Haemophilus influenzae type b	0	1	0	1	0	0	1	0	3	3	5	6.6	0.5	9	14.4	
Influenza (laboratory confirmed)	2,663	91,800	678	44,697	20,526	2,957	40,330	3,612	207,263	13,107	62,686	49,048.6	4.2	228,565	58,901	
Measles	0	3	0	0	1	0	11	5	20	12	14	52.6	0.4	72	135.6	
Mumps	3	22	61	103	13	1	9	7	219	196	164	101	2.2	587	307	
Pertussis	45	1,241	13	399	420	11	480	490	3,099	2,848	4,775	4,407.4	0.7	9,339	12,662.6	
Pneumococcal disease (invasive)	5	296	32	139	82	21	209	86	870	502	648	622.2	1.4	1,622	1,268.8	
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rotavirus	0	1,225	47	927	545	32	0	74	2,850	1,467	550	994.6	2.9	4,986	2,205.4	
Rubella	0	3	0	0	0	0	0	0	3	2	2	5.6	0.5	10	17.4	
Rubella congenital	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	0.6	
Tetanus	0	0	0	0	0	0	0	0	0	2	2	0.8	0	3	3	
Varicella zoster (chickenpox)	27	NN	22	168	113	12	282	230	854	672	823	653	1.3	2,238	1,646.8	
Varicella zoster (shingles)	57	NN	116	18	712	85	639	515	2,142	2,139	1,849	1,377	1.6	6,456	4,213.2	
Varicella zoster (unspecified)	64	NN	1	2,009	68	37	1,513	396	4,088	3,965	3,950	3,131.2	1.3	12,104	9,049.8	
Vectorborne diseases																
Barmah Forest virus infection	0	24	2	46	0	0	3	6	81	150	45	259.2	0.3	341	1,258.2	
Chikungunya virus infection	0	21	0	1	0	0	7	2	31	21	34	22.2	1.4	73	71.8	
Dengue virus infection	7	60	2	21	9	1	57	33	190	240	439	339.8	0.6	846	1,520	
Flavivirus infection (unspecified)	0	0	0	0	0	0	0	0	0	6	29	7.8	0	14	29.4	

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	0	0	0	1	0	0.6	0	1	1.6
Malaria	3	16	4	25	1	0	33	13	95	75	84	87.4	1.1	290	249.2
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
Ross River virus infection	0	118	25	275	12	2	25	121	578	1,888	281	625.2	0.9	6,351	4,431.6
West Nile/Kunjin virus infection	0	0	0	0	0	0	1	1	2	4	0	0	0	6	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	0	0	1	1	0	1	0	3	6	7	6.4	0.5	10	15.2
Leptospirosis	0	3	0	18	0	0	10	1	32	32	19	16.8	1.9	124	79.4
Lyssavirus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ornithosis	0	3	0	1	0	0	0	1	5	5	6	9	0.6	15	24
Q fever	0	45	0	41	5	0	6	1	98	121	136	124.6	0.8	352	377.2
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other bacterial infections															
Legionellosis	0	34	0	15	6	2	8	6	71	119	86	110.8	0.6	273	305.6
Leprosy	0	0	0	1	0	0	0	1	2	1	7	3.8	0.5	5	9.6
Meningococcal disease (invasive)**	2	40	19	17	17	3	31	12	141	65	79	66.4	2.1	279	145.8
Tuberculosis	7	135	4	50	17	3	108	37	361	327	365	339.6	1.1	1,010	944
	3,449	107,050	2,699	59,147	25,686	3,930	54,105	11,154	267,220	76,847	122,597			409,275	

* 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.

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 July to 30 September 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	0.2	1.6	0.9	0.5	0.8	0.6	0.6	0.5
Hepatitis B (unspecified) §	15.9	29.0	30.9	17.9	17.3	9.3	28.3	22.7	24.5
Hepatitis C (newly acquired) ‡	3.0	0.7	3.3	6.0	0.7	6.2	0.6	5.6	2.4
Hepatitis C (unspecified) §	24.8	55.3	43.9	42.7	21.5	46.4	32.4	37.8	41.8
Hepatitis D	0.0	0.5	0.0	0.4	0.7	0.0	0.6	0.0	0.4
Gastrointestinal diseases									
Botulism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis	82.3	NN	164.4	127.1	175.4	122.1	98.0	133.0	121.4
Cryptosporidiosis	4.0	5.3	14.6	7.2	14.7	12.4	12.6	6.1	8.5
Haemolytic uraemic syndrome (HUS)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Hepatitis A	1.0	1.9	0.0	0.5	0.5	0.0	0.8	0.5	1.0
Hepatitis E	0.0	0.1	0.0	0.4	0.0	0.0	0.1	0.2	0.2
Listeriosis	0.0	0.2	0.0	0.2	0.7	0.0	0.1	0.3	0.2
Paratyphoid	0.0	0.2	0.0	0.1	0.2	0.0	0.3	0.0	0.1
STEC II	0.0	0.4	1.6	0.4	18.4	0.8	0.6	2.0	1.9
Salmonellosis	42.6	28.3	136.7	45.6	46.5	41.7	39.1	75.7	42.4
Shigellosis	4.0	3.2	182.3	3.3	7.2	6.2	7.8	8.1	7.1
Typhoid Fever	1.0	0.5	0.0	0.2	0.0	0.0	0.4	0.6	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	0.2	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 ^{*,**}	318.2	357.3	1,176.9	462.4	338.6	314.5	302.6	422.8	376.7
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection ^{**}	53.5	113.3	771.5	95.5	76.1	21.6	108.3	126.1	110.9
Syphilis < 2 years ^{**}	6.9	15.8	154.6	21.0	11.0	3.1	22.2	11.3	18.6
Syphilis > 2 years or unspecified duration ^{*,**}	4.0	6.1	40.7	7.3	2.8	4.6	13.9	6.7	8.4
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	0.0	0.0	0.0	0.1	0.0	0.0
Haemophilus influenzae type b	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0
Influenza (laboratory confirmed)	2,640.1	4,744.6	1,103.6	3,687.2	4,792.8	2,285.2	2,610.7	564.6	3,424.3
Measles	0.0	0.2	0.0	0.0	0.2	0.0	0.7	0.8	0.3
Mumps	3.0	1.1	99.3	8.5	3.0	0.8	0.6	1.1	3.6
Pertussis	44.6	64.1	21.2	32.9	98.1	8.5	31.1	76.6	51.2
Pneumococcal disease (invasive)	5.0	15.3	52.1	11.5	19.1	16.2	13.5	13.4	14.4
Poliovirus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rotavirus	0.0	63.3	76.5	76.5	127.3	24.7	0.0	11.6	47.1
Rubella	0.0	0.2	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	0.0	0.0	0.0	0.0	0.0
Varicella zoster (chickenpox)	26.8	NN	35.8	13.9	26.4	9.3	18.3	36.0	20.7
Varicella zoster (shingles)	56.5	NN	188.8	1.5	166.3	65.7	41.4	80.5	52.0
Varicella zoster (unspecified)	63.4	NN	1.6	165.7	15.9	28.6	97.9	61.9	99.3
Vectorborne diseases									
Barmah Forest virus infection	0.0	1.2	3.3	3.8	0.0	0.0	0.2	0.9	1.3
Chikungunya virus infection	0.0	1.1	0.0	0.1	0.0	0.0	0.5	0.3	0.5
Dengue virus infection	6.9	3.1	3.3	1.7	2.1	0.8	3.7	5.2	3.1
Flavivirus infection (unspecified)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Japanese encephalitis virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	3.0	0.8	6.5	2.1	0.2	0.0	2.1	2.0	1.6
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	6.1	40.7	22.7	2.8	1.5	1.6	18.9	9.5

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	0.1	0.2	0.0
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	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.0
Leptospirosis	0.0	0.2	0.0	1.5	0.0	0.0	0.6	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	0.2	0.0	0.1	0.0	0.0	0.0	0.2	0.1
Q fever	0.0	2.3	0.0	3.4	1.2	0.0	0.4	0.2	1.6
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	1.8	0.0	1.2	1.4	1.5	0.5	0.9	1.2
Leprosy	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0
Meningococcal disease (invasive) ^{††}	2.0	2.1	30.9	1.4	4.0	2.3	2.0	1.9	2.3
Tuberculosis	6.9	7.0	6.5	4.1	4.0	2.3	7.0	5.8	6.0

* 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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