

Quarterly report

National Notifiable Diseases Surveillance System, 1 October to 31 December 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 80,388 notifications to the National Notifiable Diseases Surveillance System (NNDSS) between 1 October to 31 December 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

Hepatitis (NEC)	All jurisdictions
Hepatitis B (unspecified)	All jurisdictions
Hepatitis C (unspecified)	All jurisdictions
Campylobacteriosis	All jurisdictions except New South Wales
Haemolytic uraemic syndrome	All jurisdictions
Hepatitis E	All jurisdictions
Paratyphoid	All jurisdictions
Salmonellosis	All jurisdictions
Typhoid fever	All jurisdictions
Avian influenza in humans	All jurisdictions
Middle East respiratory syndrome coronavirus	All jurisdictions
Rabies	All jurisdictions
Smallpox	All jurisdictions
Yellow fever	All jurisdictions
Chlamydial infection	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 October to 31 December 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	5	0	8	2	1	8	8	32	33	37	39	0.8	141	167.4
Hepatitis B (unspecified) ‡	17	553	29	201	72	11	416	126	1,425	1,482	1,411	1,544	0.9	5,967	6,446.2
Hepatitis C (newly acquired) †	2	13	0	85	6	5	11	34	156	147	186	157.8	1	610	625.6
Hepatitis C (unspecified) ‡	31	1,041	37	517	82	61	425	266	2,460	2,533	2,796	2,532	1	10,089	10,038.2
Hepatitis D	0	6	0	1	5	0	4	0	16	26	15	12.8	1.3	64	51.2
Gastrointestinal diseases															
Botulism	0	1	0	0	1	0	0	0	2	0	0	0.2	10	2	1.6
Campylobacteriosis	142	NN	73	2,139	789	221	1,807	932	6,103	4,999	6,993	5,545.8	1.1	22,385	19,411
Cryptosporidiosis	2	136	17	157	28	12	234	28	614	516	952	708.4	0.9	4,683	3,776.8
Haemolytic uraemic syndrome (HUS)	0	0	0	0	2	0	1	0	3	1	6	4.8	0.6	14	18
Hepatitis A	0	22	0	7	15	0	35	1	80	60	41	41.8	1.9	211	182.2
Hepatitis E	0	4	0	1	0	0	2	0	7	10	15	13.2	0.5	47	41.6
Listeriosis	1	6	0	2	1	0	5	0	15	13	21	21.2	0.7	70	80.6
Paratyphoid	2	10	0	1	2	0	8	0	23	9	17	19.2	1.2	66	75.4
STEC ^s	0	14	0	7	85	1	12	22	141	116	146	56.2	2.5	490	176.8
Salmonellosis	33	834	137	883	407	96	776	558	3,724	2,569	3,872	3,623.4	1	16,438	15,038.2
Shigellosis	2	65	137	58	20	8	162	69	521	429	362	230	2.3	1,757	913.6
Typhoid Fever	0	10	0	2	1	0	10	10	33	23	25	29.2	1.1	141	121.4
Quarantinable diseases															
Avian influenza in humans (AIH)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cholera	0	1	0	0	0	0	0	0	1	1	1	0.8	1.3	2	2.6
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}	369	7,171	678	5,497	1,368	339	2,944	2,702	21,068	22,798	22,586	20,921.8	1	96,352	86,947.2	
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	
Gonococcal infection ¹	73	2,266	457	1,139	312	24	1,758	646	6,675	6,713	6,216	4,361.8	1.5	28,411	17,377.4	
Syphilis < 2 years ¹	8	265	81	250	40	2	324	87	1,057	1,127	833	587	1.8	4,347	2,319.4	
Syphilis > 2 years or unspecified duration ^{1,2}	2	137	22	68	21	0	186	48	484	511	491	429	1.1	2,027	1,779	
Syphilis congenital	0	1	0	1	0	0	0	0	2	2	0	0.4	5	8	3.2	
Vaccine preventable diseases																
Diphtheria	0	0	0	1	0	0	1	1	3	1	3	1	3	8	3	
Haemophilus influenzae type b	0	4	1	1	0	0	0	0	6	3	3	3.6	1.7	15	18	
Influenza (laboratory confirmed)	272	4,927	223	5,195	4,248	311	4,582	1,464	21,222	207,263	15,034	7,505.8	2.8	249,787	66,406.8	
Measles	2	4	0	0	0	0	3	0	9	20	29	38.2	0.2	81	173.8	
Mumps	0	37	27	138	3	2	10	5	222	219	110	103.6	2.1	809	410.6	
Pertussis	23	1,083	32	337	360	15	517	412	2,779	3,099	5,571	5,532.6	0.5	12,118	18,195.2	
Pneumococcal disease (invasive)	9	143	14	59	43	12	106	32	418	870	396	351.4	1.2	2,040	1,620.2	
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rotavirus	0	739	7	527	558	87	0	97	2,015	2,850	855	1,110.6	1.8	7,001	3,316	
Rubella	0	1	0	0	0	0	0	0	1	3	1	4.4	0.2	11	21.8	
Rubella congenital	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.8	
Tetanus	0	0	0	1	0	0	0	0	1	0	1	1.6	0.6	4	4.6	
Varicella zoster (chickenpox)	42	NN	17	182	134	13	349	178	915	854	1,001	702.6	1.3	3,153	2,349.4	
Varicella zoster (shingles)	82	NN	95	554	662	104	667	508	2,672	2,142	2,106	1,558	1.7	9,128	5,771.2	
Varicella zoster (unspecified)	49	NN	1	1,364	93	43	1,784	401	3,735	4,088	3,983	3,303.8	1.1	15,839	12,353.6	
Vectorborne diseases																
Barmah Forest virus infection	0	22	2	64	1	0	2	16	107	81	68	275	0.4	448	1,533.2	
Chikungunya virus infection	0	10	0	3	0	0	10	2	25	31	47	25.8	1	98	97.6	
Dengue virus infection	16	87	3	36	6	4	39	33	224	190	339	290.8	0.8	1,070	1,810.8	
Flavivirus infection (unspecified)	0	0	0	1	0	0	0	0	1	0	14	4.2	0.2	15	33.6	

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	0	0	0	0	0	0.2	0	1	1.8
Malaria	2	11	0	28	1	2	18	7	69	95	76	76.6	0.9	359	325.8
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	121	27	202	13	0	34	165	562	578	1,183	1,085.2	0.5	6,913	5,516.8
West Nile/Kunjin virus infection	0	0	0	0	0	0	0	0	0	2	0	0.6	0	6	0.8
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	4	0	4	0	0	0	0	8	3	5	4.6	1.7	18	19.8
Leptospirosis	0	2	2	12	0	0	1	1	18	32	21	15.6	1.2	142	95
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	6	0	6	5	13	16.4	0.4	21	40.4
Q fever	0	41	1	43	7	2	6	2	102	98	149	121.6	0.8	454	498.8
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other bacterial infections															
Legionellosis	0	33	0	21	9	1	36	12	112	71	97	104.2	1.1	385	409.8
Leprosy	0	1	0	2	1	0	0	1	5	2	6	3.6	1.4	10	13.2
Meningococcal disease (invasive)**	0	20	13	16	5	6	24	19	103	141	82	48.6	2.1	382	194.4
Tuberculosis	3	144	7	51	12	3	136	50	406	361	389	363.2	1.1	1,416	1,307.2
	1,184	19,995	2,140	19,866	9,415	1,386	17,459	8,943	80,388	267,220	78,604			506,054	

* 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 October to 31 December 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	0.3	0.0	0.7	0.5	0.8	0.5	1.3	0.5
Hepatitis B (unspecified) §	16.9	28.6	47.2	16.6	16.8	8.5	26.9	19.7	23.5
Hepatitis C (newly acquired) ‡	2.0	0.7	0.0	7.0	1.4	3.9	0.7	5.3	2.6
Hepatitis C (unspecified) §	30.7	53.8	60.2	42.6	19.1	47.1	27.5	41.6	40.6
Hepatitis D	0.0	0.3	0.0	0.1	1.2	0.0	0.3	0.0	0.3
Gastrointestinal diseases									
Botulism	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Campylobacteriosis	140.8	NN	118.8	176.5	184.2	170.8	117.0	145.7	148.2
Cryptosporidiosis	2.0	7.0	27.7	13.0	6.5	9.3	15.1	4.4	10.1
Haemolytic uraemic syndrome (HUS)	0.0	0.0	0.0	0.0	0.5	0.0	0.1	0.0	0.0
Hepatitis A	0.0	1.1	0.0	0.6	3.5	0.0	2.3	0.2	1.3
Hepatitis E	0.0	0.2	0.0	0.1	0.0	0.0	0.1	0.0	0.1
Listeriosis	1.0	0.3	0.0	0.2	0.2	0.0	0.3	0.0	0.2
Paratyphoid	2.0	0.5	0.0	0.1	0.5	0.0	0.5	0.0	0.4
STEC ‖	0.0	0.7	0.0	0.6	19.8	0.8	0.8	3.4	2.3
Salmonellosis	32.7	43.1	223.0	72.8	95.0	74.2	50.2	87.2	61.5
Shigellosis	2.0	3.4	223.0	4.8	4.7	6.2	10.5	10.8	8.6
Typhoid Fever	0.0	0.5	0.0	0.2	0.2	0.0	0.6	1.6	0.5
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	0.1	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 ^{*,**}	365.8	370.6	1,103.6	453.5	319.4	262.0	190.6	422.4	348.1
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection ^{**}	72.4	117.1	743.9	94.0	72.9	18.5	113.8	101.0	110.3
Syphilis < 2 years ^{**}	7.9	13.7	131.8	20.6	9.3	1.5	21.0	13.6	17.5
Syphilis > 2 years or unspecified duration ^{*,**}	2.0	7.1	35.8	5.6	4.9	0.0	12.0	7.5	8.0
Syphilis congenital	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Vaccine preventable diseases									
Diphtheria	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.0
Haemophilus influenzae type b	0.0	0.2	1.6	0.1	0.0	0.0	0.0	0.0	0.1
Influenza (laboratory confirmed)	269.7	254.6	363.0	428.6	991.9	240.3	296.6	228.8	350.6
Measles	2.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.1
Mumps	0.0	1.9	43.9	11.4	0.7	1.5	0.6	0.8	3.7
Pertussis	22.8	56.0	52.1	27.8	84.1	11.6	33.5	64.4	45.9
Pneumococcal disease (invasive)	8.9	7.4	22.8	4.9	10.0	9.3	6.9	5.0	6.9
Poliovirus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rotavirus	0.0	38.2	11.4	43.5	130.3	67.2	0.0	15.2	33.3
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	0.1	0.0	0.0	0.0	0.0	0.0
Varicella zoster (chickenpox)	41.6	NN	27.7	15.0	31.3	10.0	22.6	27.8	22.2
Varicella zoster (shingles)	81.3	NN	154.6	45.7	154.6	80.4	43.2	79.4	64.9
Varicella zoster (unspecified)	48.6	NN	1.6	112.5	21.7	33.2	115.5	62.7	90.7
Vectorborne diseases									
Barmah Forest virus infection	0.0	1.1	3.3	5.3	0.2	0.0	0.1	2.5	1.8
Chikungunya virus infection	0.0	0.5	0.0	0.2	0.0	0.0	0.6	0.3	0.4
Dengue virus infection	15.9	4.5	4.9	3.0	1.4	3.1	2.5	5.2	3.7
Flavivirus infection (unspecified)	0.0	0.0	0.0	0.1	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	2.0	0.6	0.0	2.3	0.2	1.5	1.2	1.1	1.1
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	6.3	43.9	16.7	3.0	0.0	2.2	25.8	9.3

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	0.0	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	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.1
Leptospirosis	0.0	0.1	3.3	1.0	0.0	0.0	0.1	0.2	0.3
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	0.4	0.0	0.1
Q fever	0.0	2.1	1.6	3.5	1.6	1.5	0.4	0.3	1.7
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	1.7	0.0	1.7	2.1	0.8	2.3	1.9	1.9
Leprosy	0.0	0.1	0.0	0.2	0.2	0.0	0.0	0.2	0.1
Meningococcal disease (invasive) ^{††}	0.0	1.0	21.2	1.3	1.2	4.6	1.6	3.0	1.7
Tuberculosis	3.0	7.4	11.4	4.2	2.8	2.3	8.8	7.8	6.7

* 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.

Submit an Article

You are invited to submit your next communicable disease related article to the Communicable Diseases Intelligence (CDI) for consideration.

More information regarding CDI can be found at:
<http://health.gov.au/cdi>.

Further enquiries should be direct to:
cdi.editor@health.gov.au.