

NATIONAL NOTIFIABLE DISEASES SURVEILLANCE SYSTEM, 1 OCTOBER TO 31 DECEMBER 2016

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 69,209 notifications to the National Notifiable Diseases Surveillance System (NNDSS) between 1 October and 31 December 2016 (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
Gonococcal infection	All jurisdictions
Syphilis <2 years duration	All jurisdictions
Syphilis >2 years or unspecified duration	All jurisdictions
Syphilis - congenital	All jurisdictions

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

Disease	Data received from:
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
Malaria	All jurisdictions
Murray Valley encephalitis virus infection	All jurisdictions
Ross River virus infection	All jurisdictions
West Nile/Kunjin 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 2016, by date of diagnosis*

Disease	State or territory							Total 4th quarter 2016	Total 3rd quarter 2016	Total 4th quarter 2015	Last 5 years mean 4th quarter	Ratio	Year to date 2016	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas.	Vic.							
Bloodborne diseases														
Hepatitis (NEC)	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0
Hepatitis B (newly acquired) [†]	0	5	0	10	2	0	13	6	36	27	41.8	151	173.6	0.9
Hepatitis B (unspecified) [†]	21	533	23	263	57	9	380	148	1,434	1,531	1,567.4	6,466	6,461.8	0.9
Hepatitis C (newly acquired) [†]	3	2	1	98	8	7	25	28	172	149	107.6	698	443.8	1.6
Hepatitis C (unspecified) [†]	27	1,121	54	569	79	69	555	276	2,750	2,757	2,519.6	11,278	10,044.8	1.1
Hepatitis D	0	5	0	4	2	0	3	0	14	5	11.0	58	48.4	1.3
Gastrointestinal diseases														
Botulism	0	0	0	0	0	0	0	0	0	1	0.2	0	0	2.0
Campylobacteriosis	168	NN	85	2,037	1,169	223	2,463	945	7,090	6,585	5,015.6	24,242	18,118.2	1.4
Cryptosporidiosis	12	358	23	295	35	8	178	33	942	645	600.6	5,412	3,055.4	1.6
Haemolytic uraemic syndrome	0	2	0	0	0	1	0	2	5	4	4.4	15	17.4	1.1
Hepatitis A	0	13	0	8	3	0	12	4	40	23	41.4	142	182.0	1
Hepatitis E	1	4	0	2	1	0	5	0	13	8	11.8	41	41.2	1.1
Listeriosis	0	6	0	4	2	0	9	0	21	13	21.4	84	77.8	1
Paratyphoid	2	4	1	2	1	0	8	0	18	13	19.4	76	72.6	0.9
STEC ^s	0	34	2	4	77	2	12	13	144	91	34.2	337	127.8	4.2
Salmonellosis	50	954	156	1,075	304	51	882	502	3,974	3,120	3,429.4	18,197	13,877.0	1.2
Shigellosis	1	78	39	71	7	4	140	21	361	324	185.6	1,398	730.0	1.9
Typhoid fever	2	8	0	3	3	0	6	3	25	24	30.6	104	127.8	0.8
Quarantinable diseases														
Avian influenza in humans	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0
Cholera	0	0	0	0	0	0	1	0	1	0	0.6	1	3.6	1.7
Middle East respiratory syndrome coronavirus	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	0	0.4	0

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2016, by date of diagnosis*

Disease	State or territory										Total 4th quarter 2016	Total 3rd quarter 2016	Total 4th quarter 2015	Last 5 years mean 4th quarter	Ratio	Year to date 2016	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas.	Vic.	WA									
Sexually transmissible infections																	
Chlamydia infection ^{††}	296	6,374	657	5,223	1,304	324	700	2,727	17,605	17,916	16,647	19,432.6	0.9	74,105	81,419.6		
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.4		
Gonococcal infection [†]	56	1,791	430	1,141	235	25	1,067	895	5,640	5,634	4,703	3,766.2	1.5	23,045	15,030.0		
Syphilis <2 years duration ^{††}	2	174	76	147	23	3	231	75	731	831	712	476.4	1.5	3,188	1,874.4		
Syphilis >2 years or unspecified duration ^{††}	4	93	15	69	29	9	204	24	447	480	473	400.6	1.1	1,882	1,639.2		
Syphilis – congenital	0	0	0	0	0	0	0	0	0	2	0	0.6	0	2	4.0		
Vaccine preventable diseases																	
Diphtheria	0	0	0	3	0	0	0	0	3	1	0	0.4	7.5	8	2.2		
<i>Haemophilus influenzae</i> type b	0	1	1	2	0	0	0	0	4	5	2	3.4	1.2	18	17.2		
Influenza (laboratory confirmed)	122	3,699	218	4,078	3,097	194	2,654	999	15,061	62,513	6,691	5,077.0	3	90,868	53,675.8		
Measles	2	8	0	8	2	0	2	7	29	14	9	42.4	0.7	99	192.8		
Mumps	0	23	41	19	8	0	5	13	109	158	287	89.2	1.2	800	280.4		
Pertussis	186	2,870	114	481	778	3	710	385	5,527	4,702	8,634	6,493.4	0.9	20,037	21,925.4		
Pneumococcal disease – invasive	5	120	16	56	37	15	99	47	395	637	314	349.2	1.1	1,664	1,663.0		
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0		
Rubella	0	1	0	0	0	0	0	1	2	3	5	5.8	0.3	17	30.6		
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	2	1	1.4	0.7	7	3.8		
Varicella zoster (chickenpox)	35	NN	33	79	128	14	37	193	519	657	719	631.6	0.8	2,369	2,159.2		
Varicella zoster (shingles)	66	NN	86	24	589	84	33	468	1,350	1,499	1,654	1,351.0	1	6,388	5,080.2		
Varicella zoster (unspecified)	47	NN	0	1,849	113	33	5	400	2,447	3,480	3,640	2,963.2	0.8	13,500	10,880.2		
Vectorborne diseases																	
Barmah Forest virus infection	0	7	4	50	2	0	0	4	67	44	89	330.4	0.2	322	1,840.0		
Chikungunya virus infection	0	17	0	2	2	0	13	10	44	34	11	18.6	2.4	111	82.4		
Dengue virus infection	4	100	14	50	19	4	45	69	305	414	292	266.4	1.1	2,181	1,527.6		
Flavivirus infection (unspecified)	1	7	0	5	0	0	0	1	14	29	3	1.6	8.8	115	12.8		
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	1	0.2	0	0	1.8		
Malaria	2	17	4	15	0	2	24	9	73	82	59	83.4	0.9	301	347.2		
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	3.8		
Ross River virus infection	6	261	29	170	86	2	280	204	1,038	263	1,063	999.8	1	3,550	5,800.4		
West Nile/Kunjin virus infection	0	0	0	0	0	0	0	0	0	0	1	0.8	0	0	1.2		

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2016, by date of diagnosis

Disease	State or territory								Total 4th quarter 2016	Total 3rd quarter 2016	Total 4th quarter 2015	Last 5 years mean 4th quarter	Ratio	Year to date 2016	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas.	Vic.	WA							
Zoonoses															
Anthrax	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	0.2
Brucellosis	0	1	1	2	0	0	0	0	2	6	2	5.4	1.1	18	23.6
Leptospirosis	0	2	1	10	1	1	6	4	25	18	15	15.6	1.6	136	114.8
Lyssavirus infection (NEC)	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0
Ornithosis	0	8	0	0	0	0	2	0	10	6	9	19.4	0.5	19	53.8
Q fever	0	59	0	59	11	0	8	3	140	128	136	111.6	1.3	537	459.0
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.4
Other bacterial infections															
Legionellosis	0	32	0	11	9	1	21	23	97	90	86	106.6	0.9	372	407.4
Leprosy	0	3	0	1	0	0	0	2	6	7	4	3.0	2	21	10.8
Meningococcal infection – invasive**	0	15	1	15	7	1	35	10	84	79	41	42.2	2	254	193.2
Tuberculosis	3	160	4	55	21	3	102	42	390	367	353	362.6	1.1	1,376	1,312.2
Total	1,124	19,345	2,147	18,368	8,340	1,095	10,975	8,661	69,209	114,661	63,096			316,010	

* 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, 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 2016, by state or territory. (Annualised rate per 100,000 population)*†

Disease	State or territory								Aust.
	ACT	NSW	NT	Qld	SA	Tas.	Vic.	WA	
Bloodborne diseases									
Hepatitis (NEC)	0	0	0	0	0	0	0	0	0
Hepatitis B (newly acquired)‡	0	0.3	0	0.8	0.5	0	0.9	0.9	0.6
Hepatitis B (unspecified)§	21.5	28	37.6	22	13.4	7	25.6	22.9	24.1
Hepatitis C (newly acquired)‡	3.1	0.1	1.6	8.2	1.9	5.4	1.7	4.3	2.9
Hepatitis C (unspecified)§	27.6	58.8	88.3	47.6	18.6	53.4	37.4	42.6	46.2
Hepatitis D	0	0.3	0	0.3	0.5	0	0.2	0	0.2
Gastrointestinal diseases									
Botulism	0	0	0	0	0	0	0	0	0
Campylobacteriosis	171.9	NN	139.1	170.4	275.2	172.6	165.8	145.9	175.4
Cryptosporidiosis	12.3	18.8	37.6	24.7	8.2	6.2	12	5.1	15.8
Haemolytic uraemic syndrome	0	0.1	0	0	0	0.8	0	0.3	0.1
Hepatitis A	0	0.7	0	0.7	0.7	0	0.8	0.6	0.7
Hepatitis E	1	0.2	0	0.2	0.2	0	0.3	0	0.2
Listeriosis	0	0.3	0	0.3	0.5	0	0.6	0	0.4
Paratyphoid	2	0.2	1.6	0.2	0.2	0	0.5	0	0.3
STEC	0	1.8	3.3	0.3	18.1	1.5	0.8	2	2.4
Salmonellosis	51.1	50.1	255.2	89.9	71.6	39.5	59.4	77.5	66.8
Shigellosis	1	4.1	63.8	5.9	1.6	3.1	9.4	3.2	6.1
Typhoid fever	2	0.4	0	0.3	0.7	0	0.4	0.5	0.4
Quarantinable diseases									
Avian influenza in humans	0	0	0	0	0	0	0	0	0
Cholera	0	0	0	0	0	0	0.1	0	0
Middle East respiratory syndrome coronavirus	0	0	0	0	0	0	0	0	0
Plague	0	0	0	0	0	0	0	0	0
Rabies	0	0	0	0	0	0	0	0	0
Severe acute respiratory syndrome	0	0	0	0	0	0	0	0	0
Smallpox	0	0	0	0	0	0	0	0	0
Viral haemorrhagic fever	0	0	0	0	0	0	0	0	0
Yellow fever	0	0	0	0	0	0	0	0	0
Sexually transmitted infections									
Chlamydial infection ^{¶**}	302.8	334.6	1074.8	437	307	250.8	47.1	421.1	296.1
Donovanosis	0	0	0	0	0	0	0	0	0
Gonococcal infection**	57.3	94	703.5	95.5	55.3	19.4	71.8	138.2	94.8
Syphilis < 2 years duration**	2	9.1	124.3	12.3	5.4	2.3	15.6	11.6	12.3
Syphilis > 2 years or unspecified duration ^{§**}	4.1	4.9	24.5	5.8	6.8	7	13.7	3.7	7.5
Syphilis – congenital	0	0	0	0	0	0	0	0	0
Vaccine preventable diseases									
Diphtheria	0	0	0	0.3	0	0	0	0	0.1
<i>Haemophilus influenzae</i> type b	0	0.1	1.6	0.2	0	0	0	0	0.1
Influenza (laboratory confirmed)	124.8	194.2	356.6	341.2	729.1	150.2	178.7	154.3	253.3
Measles	2	0.4	0	0.7	0.5	0	0.1	1.1	0.5
Mumps	0	1.2	67.1	1.6	1.9	0	0.3	2	1.8
Pertussis	190.3	150.7	186.5	40.2	183.2	2.3	47.8	59.4	92.9
Pneumococcal disease – invasive	5.1	6.3	26.2	4.7	8.7	11.6	6.7	7.3	6.6
Poliovirus infection	0	0	0	0	0	0	0	0	0

Table 3 continued: Notification rates of diseases, 1 October to 31 December 2016, by state or territory. (Annualised rate per 100,000 population)*,†

Disease	State or territory								Aust.
	ACT	NSW	NT	Qld	SA	Tas.	Vic.	WA	
Vaccine preventable diseases, cont'd									
Rubella	0	0.1	0	0	0	0	0	0.2	0
Rubella – congenital	0	0	0	0	0	0	0	0	0
Tetanus	0	0	0	0.1	0	0	0	0	0
Varicella zoster (chickenpox)	35.8	NN	54	6.6	30.1	10.8	2.5	29.8	12.8
Varicella zoster (shingles)	67.5	NN	140.7	2	138.7	65	2.2	72.3	33.4
Varicella zoster (unspecified)	48.1	NN	0	154.7	26.6	25.5	0.3	61.8	60.5
Vectorborne diseases									
Barmah Forest virus infection	0	0.4	6.5	4.2	0.5	0	0	0.6	1.1
Chikungunya virus infection	0	0.9	0	0.2	0.5	0	0.9	1.5	0.7
Dengue virus infection	4.1	5.2	22.9	4.2	4.5	3.1	3	10.7	5.1
Flavivirus infection (unspecified)	1	0.4	0	0.4	0	0	0	0.2	0.2
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0
Malaria	2	0.9	6.5	1.3	0	1.5	1.6	1.4	1.2
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0
Ross River virus infection	6.1	13.7	47.4	14.2	20.2	1.5	18.9	31.5	17.5
West Nile/Kunjin virus infection	0	0	0	0	0	0	0	0	0
Zoonoses									
Anthrax	0	0	0	0	0	0	0	0	0
Australia bat lyssavirus infection	0	0	0	0	0	0	0	0	0
Brucellosis	0	0.1	1.6	0.2	0	0	0	0.3	0.1
Leptospirosis	0	0.1	1.6	0.8	0.2	0.8	0.4	0.6	0.4
Lyssavirus infection (NEC)	0	0	0	0	0	0	0	0	0
Ornithosis	0	0.4	0	0	0	0	0.1	0	0.2
Q fever	0	3.1	0	4.9	2.6	0	0.5	0.5	2.4
Tularaemia	0	0	0	0	0	0	0	0	0
Other bacterial diseases									
Legionellosis	0	1.7	0	0.9	2.1	0.8	1.4	3.6	1.6
Leprosy	0	0.2	0	0.1	0	0	0	0.3	0.1
Meningococcal infection – invasive ^{††}	0	0.8	1.6	1.3	1.6	0.8	2.4	1.5	1.4
Tuberculosis	3.1	8.4	6.5	4.6	4.9	2.3	6.9	6.5	6.6

* 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.