

NATIONAL NOTIFIABLE DISEASES SURVEILLANCE SYSTEM, 1 JANUARY TO 31 MARCH 2016

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 67,031 notifications to the National Notifiable Diseases Surveillance System (NNDSS) between 1 January to 31 March 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 except Queensland
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	
Chlamydia	All jurisdictions
Donovanosis	All jurisdictions
Gonococcal infection	All jurisdictions
Syphilis - congenital	All jurisdictions
Syphilis <2 years duration	All jurisdictions

Table 1 continued: Reporting of notifiable diseases by jurisdiction

Disease	Data received from:
Syphilis >2 years or unspecified duration	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
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 January to 31 March 2016, by date of diagnosis*

Disease	State or territory							Total 1st quarter 2016	Total 4th quarter 2015	Total 1st quarter 2015	Last 5 years mean 1st 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) [†]	1	5	0	14	2	1	14	6	28	40	49.2	43	43	49.2
Hepatitis B (unspecified) [‡]	20	610	20	241	81	5	490	124	1,512	1,583	1,588.4	1,591	1,591	1,588.4
Hepatitis C (newly acquired) [†]	4	7	0	0	11	8	25	30	100	108	114.4	85	85	114.4
Hepatitis C (unspecified) [‡]	50	954	63	757	134	51	690	248	2,741	2,569	2,485.2	2,947	2,947	2,485.2
Hepatitis D	0	4	0	4	3	0	4	0	3	11	12.4	15	15	12.4
Gastrointestinal diseases														
Botulism	0	0	0	0	0	0	0	0	1	1	0.6	0	0	0.6
Campylobacteriosis	154	NN	123	1,957	521	361	2,071	730	6,411	5,540	4,702.2	5,917	5,917	4,702.2
Cryptosporidiosis	11	399	126	1,195	237	7	241	89	1,092	1,504	1,235.4	2,305	2,305	1,235.4
Haemolytic uraemic syndrome	0	2	0	1	0	0	1	0	4	4	5.6	4	4	5.6
Hepatitis A	1	16	0	16	2	0	14	6	33	88	66.2	55	55	66.2
Hepatitis E	1	6	0	2	2	0	4	0	16	11	12.8	15	15	12.8
Listeriosis	0	12	0	3	1	0	10	1	22	16	22.4	27	27	22.4
Paratyphoid	0	8	1	4	2	1	10	8	22	26	28.0	34	34	28.0
STEC ^s	0	11	0	13	24	0	6	6	51	30	33.4	60	60	33.4
Salmonellosis	83	1,643	153	1,959	478	109	1,469	638	3,833	6,413	4,866.4	6,532	6,532	4,866.4
Shigellosis	2	76	76	42	35	1	127	29	231	333	227.2	388	388	227.2
Typhoid fever	0	17	1	5	2	1	9	2	24	43	54.0	37	37	54.0
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	0	0	1	0	0.4	0	0	0.4
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	0.0

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

Disease	State or territory								Total 1st quarter 2016	Total 4th quarter 2015	Total 1st quarter 2015	Last 5 years mean 1st quarter	Ratio	Year to date 2016	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas.	Vic.	WA							
Sexually transmissible infections															
Chlamydia [§]	390	6,444	716	5,897	1,451	482	138	3,088	18,606	16,230	22,574	22,065.6	0.8	18,606	22,065.6
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2
Gonococcal infection [¶]	49	1,592	510	854	300	15	1,520	752	5,592	4,639	4,708	3,874.4	1.4	5,592	3,874.4
Syphilis – congenital	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0.8
Syphilis <2 years duration [¶]	4	177	43	188	17	0	231	84	744	680	619	446.2	1.7	744	446.2
Syphilis >2 years or unspecified duration [¶]	9	143	16	77	14	1	208	13	481	467	500	404.4	1.2	481	404.4
Vaccine preventable diseases															
Diphtheria	0	0	0	1	0	0	0	0	1	0	1	0.4	2.5	1	0.4
<i>Haemophilus influenzae</i> type b	0	1	1	1	0	0	0	1	4	2	2	2.8	1.4	4	2.8
Influenza (laboratory confirmed)	60	1,648	76	2,280	430	48	676	517	5,735	5,945	4,561	2,929.4	2	5,735	2,929.4
Measles	0	8	0	4	0	0	25	0	37	9	27	60.0	0.6	37	60.0
Mumps	0	5	9	11	2	2	15	284	328	280	60	54.6	6	328	54.6
Pertussis	77	3,425	12	790	274	7	827	419	5,831	8,413	4,097	5,596.8	1	5,831	5,596.8
Pneumococcal disease – invasive	2	65	7	28	12	6	45	20	185	301	194	216.8	0.9	185	216.8
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0
Rubella	0	1	0	1	0	0	2	0	4	5	5	9.4	0.4	4	9.4
Rubella – congenital	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0
Tetanus	0	0	0	1	0	0	1	1	3	2	0	1.2	2.5	3	1.2
Varicella zoster (chickenpox)	23	NN	63	62	98	20	215	108	589	706	536	438.4	1.3	589	438.4
Varicella zoster (shingles)	50	NN	88	14	515	70	593	423	1,753	1,633	1,636	1,273.0	1.4	1,753	1,273.0
Varicella zoster (unspecified)	40	NN	2	1,823	61	40	1,443	410	3,819	3,543	3,070	2,582.0	1.5	3,819	2,582.0
Vectorborne diseases															
Barmah Forest virus infection	0	9	7	118	2	0	0	4	140	86	269	663.0	0.2	140	663.0
Chikungunya virus infection	0	5	0	2	1	1	7	1	17	10	55	25.4	0.7	17	25.4
Dengue virus infection	13	147	31	149	42	3	136	195	716	282	732	588.8	1.2	716	588.8
Flavivirus infection (unspecified)	0	13	0	17	2	0	6	7	45	3	4	4.2	10.7	45	4.2
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	1	2	0.6	0	0	0.6
Kunjin virus infection	0	0	0	0	0	0	0	0	0	1	0	0.0	0	0	0.0
Malaria	5	8	5	22	4	1	9	17	71	59	65	97.6	0.7	71	97.6
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	1	2.0	0	0	2.0
Ross River virus infection	4	181	94	1,163	34	3	40	117	1,636	1,030	5,682	2,796.4	0.6	1,636	2,796.4

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

Disease	State or territory							Total 1st quarter 2016	Total 4th quarter 2015	Total 1st quarter 2015	Last 5 years mean 1st quarter	Ratio	Year to date 2016	Last 5 years YTD mean
	ACT	NSW	NT	Qld	SA	Tas.	Vic.							
Zoonoses														
Anthrax	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	0.2	0	0	0.2
Brucellosis	0	1	0	1	0	0	0	0	2	4	6.6	0.3	2	6.6
Leptospirosis	0	3	0	43	0	0	3	1	17	23	46.4	1.1	50	46.4
Lyssavirus infection (NEC)	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0
Ornithosis	0	2	0	0	0	0	1	0	9	2	11.0	0.3	3	11.0
Q fever	0	60	0	64	7	0	5	4	131	161	118.2	1.2	140	118.2
Tularaemia	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.2
Other bacterial infections														
Legionellosis	0	33	0	14	5	2	18	8	84	92	91.0	0.9	80	91.0
Leprosy	0	1	1	0	0	1	0	1	4	1	1.4	2.9	4	1.4
Meningococcal infection – invasive**	0	13	0	11	7	2	10	2	39	27	36.6	1.2	45	36.6
Tuberculosis	8	123	3	45	23	3	76	34	341	285	313.0	1	315	313.0
Total	1,061	17,878	2,247	19,894	4,836	1,252	11,435	8,428	61,079	68,315			67,031	60,263

* 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.

¶ 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 January to 31 March 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	0.0	0.0	0.0	0.0	0.0
Hepatitis B (newly acquired)‡	1.0	0.3	0.0	1.1	0.5	0.8	0.9	0.9	0.7
Hepatitis B (unspecified)§	19.7	31.7	31.6	19.4	18.8	3.8	32.5	18.0	26.1
Hepatitis C (newly acquired)‡	3.9	0.4	0.0	0.0	2.5	6.1	1.7	4.4	1.4
Hepatitis C (unspecified)§	49.3	49.6	99.6	61.1	31.0	39.1	45.7	36.0	48.4
Hepatitis D	0.0	0.2	0.0	0.3	0.7	0.0	0.3	0.0	0.2
Gastrointestinal diseases									
Botulism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis	151.8	NN	194.4	157.8	120.7	276.6	137.2	106.0	142.0
Cryptosporidiosis	10.8	20.7	199.2	96.4	54.9	5.4	16.0	12.9	37.8
Haemolytic uraemic syndrome	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.1
Hepatitis A	1.0	0.8	0.0	1.3	0.5	0.0	0.9	0.9	0.9
Hepatitis E	1.0	0.3	0.0	0.2	0.5	0.0	0.3	0.0	0.2
Listeriosis	0.0	0.6	0.0	0.2	0.2	0.0	0.7	0.1	0.4
Paratyphoid	0.0	0.4	1.6	0.3	0.5	0.8	0.7	1.2	0.6
STEC	0.0	0.6	0.0	1.0	5.6	0.0	0.4	0.9	1.0
Salmonellosis	81.8	85.4	241.8	158.0	110.7	83.5	97.3	92.6	107.3
Shigellosis	2.0	4.0	120.1	3.4	8.1	0.8	8.4	4.2	6.4
Typhoid fever	0.0	0.9	1.6	0.4	0.5	0.8	0.6	0.3	0.6
Quarantinable diseases									
Avian influenza in humans	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	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
Sexually transmitted infections									
Chlamydia ^{¶,**}	384.4	335.0	1,131.7	475.6	336.1	369.3	9.1	448.2	305.5
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection**	48.3	82.8	806.1	68.9	69.5	11.5	100.7	109.1	91.8
Syphilis – congenital	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Syphilis < 2 years duration**	3.9	9.2	68.0	15.2	3.9	0.0	15.3	12.2	12.2
Syphilis > 2 years or unspecified duration ^{§,**}	8.9	7.4	25.3	6.2	3.2	0.8	13.8	1.9	7.9
Vaccine preventable diseases									
Diphtheria	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
<i>Haemophilus influenzae</i> type b	0.0	0.1	1.6	0.1	0.0	0.0	0.0	0.1	0.1
Influenza (laboratory confirmed)	59.1	85.7	120.1	183.9	99.6	36.8	44.8	75.0	94.2
Measles	0.0	0.4	0.0	0.3	0.0	0.0	1.7	0.0	0.6
Mumps	0.0	0.3	14.2	0.9	0.5	1.5	1.0	41.2	5.4
Pertussis	75.9	178.1	19.0	63.7	63.5	5.4	54.8	60.8	95.7
Pneumococcal disease – invasive	2.0	3.4	11.1	2.3	2.8	4.6	3.0	2.9	3.0
Poliovirus infection	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 January to 31 March 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	0.1	0.0	0.1	0.0	0.0	0.1	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	0.1	0.0	0.0	0.1	0.1	0.0
Varicella zoster (chickenpox)	22.7	NN	99.6	5.0	22.7	15.3	14.2	15.7	14.1
Varicella zoster (shingles)	49.3	NN	139.1	1.1	119.3	53.6	39.3	61.4	42.1
Varicella zoster (unspecified)	39.4	NN	3.2	147.0	14.1	30.6	95.6	59.5	91.7
Vectorborne diseases									
Barmah Forest virus infection	0.0	0.5	11.1	9.5	0.5	0.0	0.0	0.6	2.3
Chikungunya virus infection	0.0	0.3	0.0	0.2	0.2	0.8	0.5	0.1	0.3
Dengue virus infection	12.8	7.6	49.0	12.0	9.7	2.3	9.0	28.3	11.8
Flavivirus infection (unspecified)	0.0	0.7	0.0	1.4	0.5	0.0	0.4	1.0	0.7
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	4.9	0.4	7.9	1.8	0.9	0.8	0.6	2.5	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	3.9	9.4	148.6	93.8	7.9	2.3	2.6	17.0	26.9
Zoonoses									
Anthrax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia bat lyssavirus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brucellosis	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Leptospirosis	0.0	0.2	0.0	3.5	0.0	0.0	0.2	0.1	0.8
Lyssavirus infection (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ornithosis	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Q fever	0.0	3.1	0.0	5.2	1.6	0.0	0.3	0.6	2.3
Tularaemia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other bacterial diseases									
Legionellosis	0.0	1.7	0.0	1.1	1.2	1.5	1.2	1.2	1.3
Leprosy	0.0	0.1	1.6	0.0	0.0	0.8	0.0	0.1	0.1
Meningococcal infection – invasive††	0.0	0.7	0.0	0.9	1.6	1.5	0.7	0.3	0.7
Tuberculosis	7.9	6.4	4.7	3.6	5.3	2.3	5.0	4.9	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.

** 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.