

NATIONAL NOTIFIABLE DISEASES SURVEILLANCE SYSTEM, 1 JANUARY TO 31 MARCH 2017

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 74,389 notifications to the National Notifiable Diseases Surveillance System (NNDSS) between 1 January and 31 March 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
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
Rotavirus	All jurisdictions except ACT and Victoria
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 January to 31 March 2017, by date of diagnosis*

Disease	State or territory							Total 1st quarter 2017	Total 4th quarter 2016	Total 1st quarter 2016	Last 5 years mean 4th quarter	Ratio	Year to date 2017	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	0.0
Hepatitis B (newly acquired) [†]	0	3	2	13	3	0	18	2	36	43	47.4	0.9	41	47.4
Hepatitis B (unspecified) [†]	23	597	18	257	48	9	429	147	1,406	1,563	1,578.6	1.0	1,528	1,578.6
Hepatitis C (newly acquired) [†]	1	8	0	64	11	2	24	36	176	201	161.2	0.9	146	161.2
Hepatitis C (unspecified) [†]	36	1,046	53	548	103	50	471	290	2,806	2,886	2,506.2	1.0	2,597	2,506.2
Hepatitis D	0	3	0	2	3	0	2	3	15	17	13.0	1.0	13	13.0
Gastrointestinal diseases														
Botulism	0	0	0	0	0	0	0	0	0	0	0.6	0.0	0	0.6
Campylobacteriosis	157	NN	91	2,132	941	217	2,078	893	6,992	5,931	4,909.2	1.3	6,509	4,909.2
Cryptosporidiosis	50	738	30	715	126	5	348	242	944	2,318	1,571.6	1.4	2,254	1,571.6
Haemolytic uraemic syndrome	0	1	0	1	0	0	2	2	5	4	5.6	1.1	6	5.6
Hepatitis A	1	7	0	10	1	0	26	6	41	55	68.2	0.7	51	68.2
Hepatitis E	0	6	0	2	1	1	6	1	13	15	12.6	1.3	17	12.6
Listeriosis	2	4	0	5	0	1	9	1	21	27	24.0	0.9	22	24.0
Paratyphoid	1	7	0	4	0	0	9	3	17	34	29.4	0.8	24	29.4
STEC ^s	0	12	0	8	94	3	10	18	144	44	38.6	3.8	145	38.6
Salmonellosis	206	1,497	148	1,777	514	108	1,115	918	3,919	6,545	5,228.6	1.2	6,283	5,228.6
Shigellosis	0	56	52	91	6	5	157	43	358	367	263.8	1.6	410	263.8
Typhoid fever	0	24	1	9	3	0	20	1	25	37	49.8	1.2	58	49.8
Quarantinable diseases														
Avian influenza in humans	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	1	0	0.2	0.0	0	0.2
Middle East respiratory syndrome coronavirus	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
Rabies	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
Smallpox	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
Yellow fever	0	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 2017, by date of diagnosis*

Disease	State or territory										Ratio	Year to date 2017	Last 5 years YTD mean		
	ACT	NSW	NT	Qld	SA	Tas.	Vic.	WA	Total 1st quarter 2017	Total 4th quarter 2016				Total 1st quarter 2016	Last 5 years mean 4th quarter
Sexually transmissible infections															
Chlamydia infection ^{††}	384	7,962	641	6,233	1,575	144	832	3,257	21,028	17,506	18,667	21,639.4	1.0	21,028	21,639.4
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	0	0.2
Gonococcal infection [†]	71	2,657	420	1,440	293	40	2,072	1,037	8,030	6,181	5,640	4,410.0	1.8	8,030	4,410.0
Syphilis <2 years duration [†]	13	207	65	271	29	2	205	95	887	779	815	536.2	1.7	887	536.2
Syphilis >2 years or unspecified duration ^{††}	2	104	19	71	18	0	389	33	636	484	506	441.0	1.4	636	441.0
Syphilis – congenital	0	0	0	0	1	0	0	0	1	0	0	0.2	5.0	1	0.2
Vaccine preventable diseases															
Diphtheria	0	0	0	0	0	0	0	0	0	2	1	0.6	0.0	0	0.6
<i>Haemophilus influenzae</i> type b	0	2	0	1	0	0	0	0	3	4	4	3.0	1.0	3	3.0
Influenza (laboratory confirmed)	56	2,312	476	2,949	911	108	1,027	410	8,249	14,524	5,809	3,555.4	2.3	8,249	3,555.4
Measles	0	18	2	7	0	0	3	11	41	29	37	51.6	0.8	41	51.6
Mumps	0	34	22	69	27	0	16	8	176	106	338	114.0	1.5	176	114.0
Pertussis	119	1,603	41	300	474	6	533	279	3,355	5,471	5,892	4,634.0	0.7	3,355	4,634.0
Pneumococcal disease – invasive	2	79	5	41	27	7	58	27	246	385	183	208.8	1.2	246	208.8
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Rotavirus	NN	153	15	298	77	6	NN	113	662	838	795	662.0	668.8	669	1.0
Rubella	0	0	0	3	0	0	0	2	5	2	3	5.6	0.9	5	5.6
Rubella – congenital	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Tetanus	0	1	0	0	0	0	0	0	1	1	3	1.6	0.6	1	1.6
Varicella zoster (chickenpox)	17	NN	24	48	100	12	17	167	385	728	591	480.8	0.8	385	480.8
Varicella zoster (shingles)	70	NN	95	19	567	95	11	461	1,318	1,704	1,794	1,421.0	0.9	1,318	1,421.0
Varicella zoster (unspecified)	43	NN	0	1,959	217	47	1,484	455	4,205	4,292	3,788	2,938.8	1.4	4,205	2,938.8
Vectorborne diseases															
Barmah Forest virus infection	0	17	7	64	1	0	10	11	110	68	127	520.4	0.2	110	520.4
Chikungunya virus infection	0	3	0	2	1	1	6	4	17	43	18	26.2	0.6	17	26.2
Dengue virus infection	11	95	12	124	21	2	60	68	393	317	747	664.0	0.6	393	664.0
Flavivirus infection (unspecified)	0	2	0	4	0	0	1	1	8	14	53	14.8	0.5	8	14.8
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.6	0.0	0	0.6
Malaria	1	21	7	43	2	0	25	22	121	74	71	88.2	1.4	121	88.2
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0	0	0.4
Ross River virus infection	11	840	81	517	355	24	1,422	477	3,727	1,135	1,232	2,436.2	1.5	3,727	2,436.2
West Nile/Kunjin virus infection	0	0	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 2017, by date of diagnosis

Disease	State or territory							Ratio	Year to date 2017	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
Australian bat lyssavirus infection	0	0	0	0	0	0	0	0	0	0.2	0	0.2
Brucellosis	0	0	0	1	0	0	0	0	1	4.8	1	4.8
Leptospirosis	0	5	9	40	0	0	1	0	55	32.2	55	32.2
Lyssavirus infection (NEC)	0	0	0	0	0	0	0	0	0	0.0	0	0.0
Ornithosis	0	0	0	0	1	0	0	1	2	6.8	2	6.8
Q fever	0	48	0	65	3	0	2	4	122	130.8	122	130.8
Tularaemia	0	0	0	0	0	0	0	0	0	0.0	0	0.0
Other bacterial infections												
Legionellosis	0	27	1	5	14	2	21	9	79	91.4	83	91.4
Leprosy	0	0	0	2	0	0	0	1	3	2.2	4	2.2
Meningococcal infection – invasive**	0	16	2	22	5	4	16	8	73	33.8	45	33.8
Tuberculosis	6	115	7	81	10	0	97	30	346	313.4	323	313.4
Total	1,283	20,330	2,346	20,317	6,583	901	13,032	9,597	74,389	72,360	67,860	67,846

* 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 January to 31 March 2017, 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)‡	0.0	0.2	3.4	1.1	0.7	0.0	1.2	0.3	0.7
Hepatitis B (unspecified)§	24.1	32.1	30.2	22.0	11.6	7.1	29.6	23.3	26.3
Hepatitis C (newly acquired)‡	1.0	0.4	0.0	5.5	2.7	1.6	1.7	5.7	2.5
Hepatitis C (unspecified)§	37.7	56.3	88.9	47.0	24.9	39.7	32.5	45.9	44.8
Hepatitis D	0.0	0.2	0.0	0.2	0.7	0.0	0.1	0.5	0.2
Gastrointestinal diseases									
Botulism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis	164.6	NN	152.6	182.8	227.1	172.2	143.4	141.3	165.1
Cryptosporidiosis	52.4	39.7	50.3	61.3	30.4	4.0	24.0	38.3	38.9
Haemolytic uraemic syndrome	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.3	0.1
Hepatitis A	1.0	0.4	0.0	0.9	0.2	0.0	1.8	0.9	0.9
Hepatitis E	0.0	0.3	0.0	0.2	0.2	0.8	0.4	0.2	0.3
Listeriosis	2.1	0.2	0.0	0.4	0.0	0.8	0.6	0.2	0.4
Paratyphoid	1.0	0.4	0.0	0.3	0.0	0.0	0.6	0.5	0.4
STEC	0.0	0.6	0.0	0.7	22.7	2.4	0.7	2.8	2.5
Salmonellosis	216.0	80.6	248.2	152.4	124.0	85.7	76.9	145.3	108.3
Shigellosis	0.0	3.0	87.2	7.8	1.4	4.0	10.8	6.8	7.1
Typhoid fever	0.0	1.3	1.7	0.8	0.7	0.0	1.4	0.2	1.0
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									
Chlamydial infection ^{¶,**}	402.6	428.4	1,074.9	534.6	380.1	114.3	57.4	515.5	362.5
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection**	74.4	143.0	704.3	123.5	70.7	31.7	143.0	164.1	138.4
Syphilis < 2 years duration**	13.6	11.1	109.0	23.2	7.0	1.6	14.1	15.0	15.3
Syphilis > 2 years or unspecified duration ^{§,**}	2.1	5.6	31.9	6.1	4.3	0.0	26.8	5.2	11.0
Syphilis – congenital	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
Vaccine preventable diseases									
Diphtheria	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Haemophilus influenzae</i> type b	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Influenza (laboratory confirmed)	58.7	124.4	798.2	252.9	219.8	85.7	70.9	64.9	142.2
Measles	0.0	1.0	3.4	0.6	0.0	0.0	0.2	1.7	0.7
Mumps	0.0	1.8	36.9	5.9	6.5	0.0	1.1	1.3	3.0
Pertussis	124.8	86.3	68.8	25.7	114.4	4.8	36.8	44.2	57.8
Pneumococcal disease – invasive	2.1	4.3	8.4	3.5	6.5	5.6	4.0	4.3	4.2
Poliovirus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rotavirus	NN	8.2	25.2	25.6	18.6	4.8	NN	17.9	11.4

Table 3 continued: Notification rates of diseases, 1 January to 31 March 2017, 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	0.0	0.0	0.3	0.0	0.0	0.0	0.3	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	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Varicella zoster (chickenpox)	17.8	NN	40.2	4.1	24.1	9.5	1.2	26.4	9.8
Varicella zoster (shingles)	73.4	NN	159.3	1.6	136.8	75.4	0.8	73.0	33.4
Varicella zoster (unspecified)	45.1	NN	0.0	168.0	52.4	37.3	102.4	72.0	106.6
Vectorborne diseases									
Barmah Forest virus infection	0.0	0.9	11.7	5.5	0.2	0.0	0.7	1.7	1.9
Chikungunya virus infection	0.0	0.2	0.0	0.2	0.2	0.8	0.4	0.6	0.3
Dengue virus infection	11.5	5.1	20.1	10.6	5.1	1.6	4.1	10.8	6.8
Flavivirus infection (unspecified)	0.0	0.1	0.0	0.3	0.0	0.0	0.1	0.2	0.1
Japanese encephalitis virus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	1.0	1.1	11.7	3.7	0.5	0.0	1.7	3.5	2.1
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	11.5	45.2	135.8	44.3	85.7	19.0	98.1	75.5	64.2
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
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	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Leptospirosis	0.0	0.3	15.1	3.4	0.0	0.0	0.1	0.0	0.9
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	0.2	0.0	0.0	0.2	0.0
Q fever	0.0	2.6	0.0	5.6	0.7	0.0	0.1	0.6	2.1
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	1.5	1.7	0.4	3.4	1.6	1.4	1.4	1.4
Leprosy	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.1
Meningococcal infection – invasive [‡]	0.0	0.9	3.4	1.9	1.2	3.2	1.1	1.3	1.3
Tuberculosis	6.3	6.2	11.7	6.9	2.4	0.0	6.7	4.7	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.