

Quarterly reports

NATIONAL NOTIFIABLE DISEASES SURVEILLANCE SYSTEM, 1 OCTOBER TO 31 DECEMBER 2015

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 59,081 notifications to the National Notifiable Diseases Surveillance System (NNDSS) between 1 October to 31 December 2015 (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
Shiga toxin-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
Syphilis >2 years or unspecified duration	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
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 2015, by date of diagnosis*

Disease	State or territory								Total 4th quarter 2015	Total 3rd quarter 2015	Total 4th quarter 2014	Last 5 years mean 4th quarter	Ratio	Year to date 2015	Last 5 years YTD mean
	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
Hepatitis B (newly acquired) [†]	0	4	1	8	2	0	5	4	24	38	33	44.6	0.5	141	192.4
Hepatitis B (unspecified) [‡]	25	554	17	283	72	12	136	148	1,247	1,814	1,567	1,599.8	0.8	6,187	6,601.2
Hepatitis C (newly acquired) [†]	3	4	2	0	8	5	28	66	116	119	95	99.0	1.2	449	421.8
Hepatitis C (unspecified) [‡]	50	934	54	669	126	66	219	271	2,389	2,389	2,533	2,516.0	0.9	9,811	10,224.0
Hepatitis D	0	0	0	1	1	0	1	0	3	12	15	13.2	0.2	38	49.2
Gastrointestinal diseases															
Botulism	0	0	0	0	0	0	0	1	1	0	0	0.0	0	3	1.4
Campylobacteriosis	198	NN	88	2,105	518	322	2,464	889	6,584	4,971	5,711	4,777.0	1.4	21,385	17,002.6
Cryptosporidiosis	11	350	54	222	83	5	312	65	1,102	480	466	440.8	2.5	4,051	2,538.2
Haemolytic uraemic syndrome	0	2	0	0	0	0	1	0	3	6	3	3.8	0.8	17	15.6
Hepatitis A	0	9	1	7	2	0	6	7	32	28	53	45.0	0.7	176	199.8
Hepatitis E	0	9	0	1	0	0	3	0	13	7	13	9.6	1.4	37	40.2
Listeriosis	1	10	0	1	1	0	8	1	22	14	20	20.4	1.1	70	78.0
STEC ^s	0	16	0	3	16	0	10	0	45	19	21	27.4	1.6	129	116.4
Salmonellosis	73	1,006	136	1,030	294	69	833	474	3,915	2,670	4,187	3,225.6	1.2	17,053	12,837.6
Shigellosis	6	38	36	26	22	1	85	15	229	274	286	169.2	1.4	1,174	636.0
Typhoid fever	1	9	0	6	3	0	4	0	23	19	29	29.6	0.8	114	125.0
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	1	0	0	0	0	0	0	1	0	0	0.4	2.5	2	3.8
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	0.5

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2015, by date of diagnosis*

Disease	State or territory							Total 4th quarter 2015	Total 3rd quarter 2015	Total 4th quarter 2014	Last 5 years mean 4th quarter	Ratio	Year to date 2015	Last 5 years YTD mean	
	ACT	NSW	NT	Qld	SA	Tas.	Vic.								WA
Sexually transmissible infections															
Chlamydia ^{¶¶}	278	5,648	645	5,220	1,313	378	492	2,631	16,605	16,494	20,243	19,653.0	0.8	72,172	81,554.2
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.6
Gonococcal infection [¶]	29	1,284	477	763	199	12	358	605	3,727	3,594	3,762	3,339.4	1.1	16,626	13,386.2
Syphilis <2 years duration [¶]	2	164	55	132	23	0	151	47	574	735	533	387.8	1.5	2,550	1,551.2
Syphilis >2 years or unspecified duration ^{¶¶}	4	143	12	70	36	2	277	18	562	497	450	363.2	1.5	2,038	1,520.4
Syphilis – congenital	0	0	0	0	0	0	0	0	0	2	1	0.6	0	3	4.2
Vaccine preventable diseases															
Diphtheria	0	0	0	0	0	0	0	0	0	1	1	0.4	0	2	1.8
<i>Haemophilus influenzae</i> type b	0	0	1	0	0	0	0	1	2	8	6	4.6	0.4	16	18.8
Influenza (laboratory confirmed)	72	1,742	241	1,788	1,139	110	914	699	6,705	79,571	6,264	4,551.2	1.5	100,558	36,260.4
Measles	0	2	0	0	3	0	2	2	9	19	36	42.6	0.2	74	192.0
Mumps	1	20	9	12	5	1	1	234	283	197	39	38.2	7.4	642	170.8
Pertussis	133	5,358	22	913	525	6	992	639	8,588	5,637	4,274	7,687.2	1.1	22,495	24,385.4
Pneumococcal disease – invasive	2	95	12	48	31	13	80	33	314	587	352	364.8	0.9	1,496	1,691.6
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0
Rubella	0	3	0	2	0	1	0	0	6	3	5	5.8	1	18	36.2
Rubella – congenital	0	0	0	0	0	0	0	0	0	1	0	0.2	0	1	0.6
Tetanus	0	0	1	0	0	0	1	0	2	0	2	1.2	1.7	3	3.8
Varicella zoster (chickenpox)	7	NN	52	80	141	14	5	140	439	453	572	600.6	0.7	1,952	2,021.0
Varicella zoster (shingles)	55	NN	104	15	522	78	4	415	1,193	1,082	1,419	1,186.8	1	5,436	4,419.6
Varicella zoster (unspecified)	31	NN	1	1,725	83	43	2	345	2,230	2,140	3,160	2,660.6	0.8	10,660	9,839.2
Vectorborne diseases															
Barmah Forest virus infection	0	18	4	55	1	0	1	12	91	83	104	395.0	0.2	630	2,008.4
Chikungunya virus infection	0	4	0	0	1	0	5	1	11	15	50	22.4	0.5	110	72.6
Dengue virus infection	5	83	6	45	7	6	56	53	261	265	261	301.6	0.9	1,696	1,430.4
Flavivirus infection (unspecified)	0	0	0	1	0	0	1	0	2	1	1	2.4	0.8	9	13.2
Japanese encephalitis virus infection	0	0	0	1	0	0	0	0	1	0	0	0.0	0	3	1.2
Kunjin virus infection	0	1	0	0	0	0	0	0	1	0	0	0.6	1.7	1	1.4
Malaria	2	14	4	11	1	0	12	14	58	60	63	92.4	0.6	231	381.4
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0.2	0	2	3.4
Ross River virus infection	3	184	57	616	24	0	35	135	1,054	809	1,517	996.8	1.1	9,541	4,916.4

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2015, by date of diagnosis*

Disease	State or territory							Total 4th quarter 2015	Total 3rd quarter 2015	Total 4th quarter 2014	Last 5 years mean 4th quarter	Ratio	Year to date 2015	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	0.2
Australian bat lyssavirus infection	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.2
Brucellosis	0	1	0	1	0	0	0	0	5	3	6.0	18	18	24.0
Leptospirosis	0	3	3	9	0	0	1	0	17	10	19.8	73	73	126.6
Lyssavirus infection (NEC)	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0.0
Ornithosis	0	2	0	1	0	0	1	1	2	14	23.8	11	11	62.2
Q fever	0	51	0	41	2	0	17	4	115	109	101.4	576	576	405.2
Tularaemia	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0.5
Other bacterial infections														
Legionellosis	0	16	1	18	10	2	18	22	90	116	106.2	371	371	395.8
Leprosy	0	2	0	0	0	0	2	0	5	2	2.8	13	13	10.2
Meningococcal infection – invasive**	0	10	0	6	7	1	14	3	66	46	45.0	182	182	202.2
Tuberculosis	1	111	8	57	18	4	105	40	313	377	369.8	1,244	1,244	1,334.0
Total	993	17,905	2,104	15,992	5,239	1,151	7,662	8,035	59,081	125,773	58,824	312,290	312,290	

* 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-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 chlamydial, 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 2015, by state or territory. (Annualised rate per 100,000 population)*†

Disease	State or territory								
	ACT	NSW	NT	Qld	SA	Tas.	Vic.	WA	Aust.
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	1.6	0.7	0.5	0.0	0.3	0.6	0.4
Hepatitis B (unspecified)§	25.9	29.5	27.8	24.0	17.1	9.3	9.3	23.1	21.2
Hepatitis C (newly acquired)‡	3.1	0.2	3.3	0.0	1.9	3.9	1.9	10.3	2.0
Hepatitis C (unspecified)§	51.9	49.7	88.3	56.7	29.9	51.3	15.0	42.3	40.7
Hepatitis D	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.0	0.1
Gastrointestinal diseases									
Botulism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Campylobacteriosis	205.5	NN	143.9	178.3	122.9	250.2	168.8	138.6	165.0
Cryptosporidiosis	11.4	18.6	88.3	18.8	19.7	3.9	21.4	10.1	18.8
Haemolytic uraemic syndrome	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Hepatitis A	0.0	0.5	1.6	0.6	0.5	0.0	0.4	1.1	0.5
Hepatitis E	0.0	0.5	0.0	0.1	0.0	0.0	0.2	0.0	0.2
Listeriosis	1.0	0.5	0.0	0.1	0.2	0.0	0.5	0.2	0.4
STEC	0.0	0.9	0.0	0.3	3.8	0.0	0.7	0.0	0.8
Salmonellosis	73.7	53.1	222.4	87.2	68.8	53.6	56.4	73.8	66.2
Shigellosis	6.2	2.0	58.9	2.2	5.2	0.8	5.8	2.3	3.9
Typhoid fever	1.0	0.5	0.0	0.5	0.7	0.0	0.3	0.0	0.4
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	0.1	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 ^{¶,**}	288.5	300.6	1,054.7	442.2	311.6	293.8	33.7	410.2	282.9
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection**	30.1	68.3	780.0	64.6	47.2	9.3	24.5	94.3	63.5
Syphilis < 2 years duration**	2.1	8.7	89.9	11.2	5.5	0.0	10.3	7.3	9.8
Syphilis > 2 years or unspecified duration ^{§,**}	4.2	7.6	19.6	5.9	8.5	1.6	19.0	2.8	9.6
Syphilis – congenital	0.0	0.0	0.0	0.0	0.0	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	0.0	1.6	0.0	0.0	0.0	0.0	0.2	0.0
Influenza (laboratory confirmed)	74.7	92.7	394.1	151.5	270.3	85.5	62.6	109.0	114.2
Measles	0.0	0.1	0.0	0.0	0.7	0.0	0.1	0.3	0.2
Mumps	1.0	1.1	14.7	1.0	1.2	0.8	0.1	36.5	4.8
Pertussis	138.0	285.2	36.0	77.4	124.6	4.7	68.0	99.6	146.3
Pneumococcal disease – invasive	2.1	5.1	19.6	4.1	7.4	10.1	5.5	5.1	5.4
Poliovirus infection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rubella	0.0	0.2	0.0	0.2	0.0	0.8	0.0	0.0	0.1
Rubella – congenital	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 October to 31 December 2015, 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									
Tetanus	0.0	0.0	1.6	0.0	0.0	0.0	0.1	0.0	0.0
Varicella zoster (chickenpox)	7.3	NN	85.0	6.8	33.5	10.9	0.3	21.8	11.0
Varicella zoster (shingles)	57.1	NN	170.1	1.3	123.9	60.6	0.3	64.7	29.9
Varicella zoster (unspecified)	32.2	NN	1.6	146.1	19.7	33.4	0.1	53.8	55.9
Vectorborne diseases									
Barmah Forest virus infection	0.0	1.0	6.5	4.7	0.2	0.0	0.1	1.9	1.6
Chikungunya virus infection	0.0	0.2	0.0	0.0	0.2	0.0	0.3	0.2	0.2
Dengue virus infection	5.2	4.4	9.8	3.8	1.7	4.7	3.8	8.3	4.4
Flavivirus infection (unspecified)	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
Japanese encephalitis virus infection	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Kunjin virus infection	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Malaria	2.1	0.7	6.5	0.9	0.2	0.0	0.8	2.2	1.0
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	3.1	9.8	93.2	52.2	5.7	0.0	2.4	21.0	18.0
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	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Leptospirosis	0.0	0.2	4.9	0.8	0.0	0.0	0.1	0.0	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	0.1	0.0	0.1	0.0	0.0	0.1	0.2	0.1
Q fever	0.0	2.7	0.0	3.5	0.5	0.0	1.2	0.6	2.0
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	0.9	1.6	1.5	2.4	1.6	1.2	3.4	1.5
Leprosy	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Meningococcal infection – invasive ^{††}	0.0	0.5	0.0	0.5	1.7	0.8	1.0	0.5	0.7
Tuberculosis	1.0	5.9	13.1	4.8	4.3	3.1	7.2	6.2	5.9

* 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-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.