

Quarterly report

NATIONAL NOTIFIABLE DISEASES SURVEILLANCE SYSTEM, 1 OCTOBER TO 31 DECEMBER 2014

A summary of diseases currently being reported by each jurisdiction is provided in Table 1. There were 57,995 notifications to the National Notifiable Diseases Surveillance System with a notification received date between 1 October to 31 December 2014 (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
STEC, VTEC*	All jurisdictions
Salmonellosis	All jurisdictions
Shigellosis	All jurisdictions
Typhoid	All jurisdictions
Quarantinable diseases	
Cholera	All jurisdictions
Highly pathogenic avian influenza in humans	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 - 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
Poliomyelitis	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	
Arbovirus infection (NEC)	All jurisdictions
Barmah Forest virus infection	All jurisdictions
Dengue virus infection	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	All jurisdictions
Brucellosis	All jurisdictions
Leptospirosis	All jurisdictions
Lyssavirus (NEC)	All jurisdictions
Ornithosis	All jurisdictions
Q fever	All jurisdictions
Tularaemia	All jurisdictions
Other bacterial infections	
Legionellosis	All jurisdictions
Leprosy	All jurisdictions
Meningococcal infection	All jurisdictions
Tuberculosis	All jurisdictions

* Infections with Shiga-like toxin (verotoxin) producing *Escherichia coli* (STEC/VTEC).

NEC Not elsewhere classified.

Table 2: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2014, by date of diagnosis*

Disease	State or territory							Total 4th quarter 2014	Total 3rd quarter 2014	Total 4th quarter 2013	Last 5 years mean 4th quarter	Ratio	Year to date 2014	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	5	1	12	0	0	9	6	33	36	50.2	208.8	173	208.8
Hepatitis B (unspecified) [†]	24	593	31	251	94	15	432	151	1,591	1,708	1,657.0	6,815.4	6,562	6,815.4
Hepatitis C (newly acquired) [†]	0	4	0	0	7	2	40	31	84	97	106.0	424.8	387	424.8
Hepatitis C (unspecified) [†]	38	847	48	642	115	56	513	279	2,538	2,666	2,526.6	10,387.4	10,259	10,387.4
Hepatitis D	0	7	1	1	0	0	0	2	11	12	9.2	38.8	50	38.8
Gastrointestinal diseases														
Botulism	0	0	0	0	0	0	0	0	0	0	0.0	1.4	1	1.4
Campylobacteriosis	125	NN	84	1,785	540	265	2,015	883	5,697	4,758	4,486.8	16,235.4	19,898	16,235.4
Cryptosporidiosis	2	123	18	87	54	6	107	69	466	414	417.2	2,981.0	2,403	2,981.0
Haemolytic uraemic syndrome	0	2	0	0	0	0	1	0	3	4	3.8	14.0	20	14.0
Hepatitis A	0	25	0	6	2	0	14	4	51	51	82.6	266.0	227	266.0
Hepatitis E	0	4	0	3	0	0	5	0	12	9	7.2	35.4	53	35.4
Listeriosis	1	5	2	4	0	2	4	2	20	18	20.6	80.4	80	80.4
STEC, VTEC [§]	0	3	0	6	9	0	2	0	20	22	31.0	118.6	116	118.6
Salmonellosis	59	1,092	113	1,323	294	71	948	303	4,203	2,745	3,390	11,545.8	16,370	11,545.8
Shigellosis	0	39	28	68	11	1	110	33	290	249	135.6	549.6	1,063	549.6
Typhoid	1	13	0	2	3	1	5	4	29	22	30.6	124.6	120	124.6
Quarantinable diseases														
Cholera	0	0	0	0	0	0	0	0	0	0	0.4	4.2	2	4.2
Highly pathogenic avian influenza in humans	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	0.7	0	0.7

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2014, by date of diagnosis*

Disease	State or territory										Ratio	Year to date 2014	Last 5 years YTD mean		
	ACT	NSW	NT	Qld	SA	Tas	Vic	WA	Total 4th quarter 2014	Total 3rd quarter 2014				Total 4th quarter 2013	Last 5 years mean 4th quarter
Sexually transmissible infections															
Chlamydia infection ^{††}	284	5,483	761	4,736	1,156	417	4,508	2,732	20,077	20,651	20,287	18,603.4	1.1	85,662	76,758.6
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.6
Gonococcal infection [†]	28	1,167	380	621	147	20	885	511	3,759	3,653	3,622	2,998.0	1.3	15,703	11,900.4
Syphilis – congenital	0	0	1	0	0	0	0	0	1	4	1	0.6	1.7	5	4.2
Syphilis < 2 years duration [†]	3	152	27	76	10	6	180	22	476	538	440	336.4	1.4	1,975	1,417.4
Syphilis > 2 years or unspecified duration ^{††}	9	124	34	57	23	6	161	18	432	453	404	337.6	1.3	1,822	1,422.8
Vaccine preventable diseases															
Diphtheria	0	0	0	1	0	0	0	0	1	1	1	0.2	5.0	2	1.2
<i>Haemophilus influenzae</i> type b	0	1	0	3	0	0	2	0	6	6	4	3.6	1.7	21	18.2
Influenza (laboratory confirmed)	113	1,124	112	1,742	1,396	59	1,123	620	6,289	53,141	6,457	3,465.6	1.8	67,854	34,522.8
Measles	0	1	4	18	1	0	8	4	36	57	87	37.2	1.0	340	145.0
Mumps	0	15	0	7	11	0	1	5	39	46	40	36.8	1.1	187	167.4
Pertussis	56	1,421	16	215	146	10	1,844	530	4,238	3,137	3,203	8,257.6	0.5	11,830	28,029.6
Pneumococcal disease (invasive)	3	123	9	41	23	11	88	53	351	589	341	360.0	1.0	1,562	1,690.6
Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0
Rubella	0	3	0	0	0	0	2	0	5	3	6	5.4	0.9	17	38.2
Rubella – congenital	0	0	0	0	0	0	0	0	0	0	1	0.2	0.0	0	0.6
Tetanus	0	0	0	1	0	0	0	1	2	0	0	0.8	2.5	3	3.8
Varicella zoster (chickenpox)	12	NN	13	70	91	15	251	114	566	540	689	570.4	1.0	2,082	1,959.4
Varicella zoster (shingles)	38	NN	67	11	504	69	344	385	1,418	1,328	1,403	1,034.4	1.4	5,531	3,877.8
Varicella zoster (unspecified)	34	NN	3	1,416	59	36	977	300	2,825	2,703	2,710	2,175.2	1.3	10,778	7,997.6
Vectorborne diseases															
Arbovirus infection (NEC)	1	22	7	56	0	0	7	8	101	90	459	432.4	0.2	739	2,154.8
Barmah Forest virus infection	0	10	0	18	2	0	13	5	48	17	11	14.2	3.4	106	56.6
Dengue virus infection	0	0	0	3	0	0	0	0	3	2	4	3.2	0.9	29	13.6
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	1	0	0.0	0.0	1	1.0
Kunjin virus infection**	0	0	0	0	0	0	0	0	0	0	2	0.6	0.0	1	1.6
Malaria	1	11	3	22	1	1	13	11	63	81	88	98.6	0.6	318	418.4
Murray Valley encephalitis virus infection**	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	0	4.4
Ross River virus infection	3	218	65	796	23	2	80	332	1,519	879	966	849.6	1.8	5,329	4,800.6

Table 2 continued: Notifications of diseases received by state and territory health authorities, 1 October to 31 December 2014, by date of diagnosis

Disease	State or territory										Total 4th quarter 2014	Total 3rd quarter 2014	Total 4th quarter 2013	Last 5 years mean 4th quarter	Ratio	Year to date 2014	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	0.2
Australian bat lyssavirus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Brucellosis	0	0	0	3	0	0	0	0	0	0	0	3	5	6	17	0.4	27.0
Leptospirosis	0	4	1	3	0	0	1	1	1	1	10	17	20	20.6	85	0.5	137.8
Lyssavirus (NEC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
Ornithosis	0	5	0	2	0	0	6	0	0	13	9	15	23.8	0.5	39	0.5	66.6
Q fever	1	50	0	36	1	0	9	1	1	98	117	124	94.0	1.0	459	1.0	373.2
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.7
Other bacterial infections																	
Legionellosis	2	20	0	22	9	1	15	44	113	111	124	95.8	1.2	425	1.2	370.4	
Leprosy	0	0	0	0	1	0	0	1	2	0	4	2.8	0.7	9	0.7	9.4	
Meningococcal infection††	0	14	0	7	10	0	10	5	46	57	34	48.4	1.0	169	1.0	220.4	
Tuberculosis	10	120	9	47	13	4	133	31	367	351	325	378.6	1.0	1,337	1.0	1,326.8	
Total	848	12,850	1,838	14,220	4,756	1,076	14,866	7,501	57,955	101,398	55,127			272,221			

* 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. From 1 July 2013 case definition changed to exclude all ocular infections.

†† 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).

** In the Australian Capital Territory, Murray Valley encephalitis virus infection and Kunjin virus infection are combined under Murray Valley encephalitis virus infection.

†† 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 2014, 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	0.3	1.7	1.0	0.0	0.0	0.6	1.0	0.6
Hepatitis B (unspecified)§	25.2	32.0	51.4	21.6	22.5	11.7	30.1	24.0	27.5
Hepatitis C (newly acquired)‡	0.0	0.2	0.0	0.0	1.7	1.6	2.8	4.9	1.5
Hepatitis C (unspecified)§	39.8	45.7	79.6	55.2	27.5	43.7	35.8	44.3	43.9
Hepatitis D	0.0	0.4	1.7	0.1	0.0	0.0	0.0	0.3	0.2
Gastrointestinal diseases									
Botulism	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Campylobacteriosis	131.1	NN	139.3	153.4	129.3	206.6	140.4	140.1	144.9
Cryptosporidiosis	2.1	6.6	29.9	7.5	12.9	4.7	7.5	10.9	8.1
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	1.3	0.0	0.5	0.5	0.0	1.0	0.6	0.9
Hepatitis E	0.0	0.2	0.0	0.3	0.0	0.0	0.3	0.0	0.2
Listeriosis	1.0	0.3	3.3	0.3	0.0	1.6	0.3	0.3	0.3
STEC,VTEC¶	0.0	0.2	0.0	0.5	2.2	0.0	0.1	0.0	0.3
Salmonellosis	61.9	59.0	187.4	113.7	70.4	55.3	66.1	48.1	72.7
Shigellosis	0.0	2.1	46.4	5.8	2.6	0.8	7.7	5.2	5.0
Typhoid fever	1.0	0.7	0.0	0.2	0.7	0.8	0.3	0.6	0.5
Quarantinable diseases									
Cholera	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Human pathogenic avian influenza in humans	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¶,***	297.8	296.0	1,262.0	407.0	276.8	325.1	314.2	433.6	347.1
Donovanosis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gonococcal infection**	29.4	63.0	630.2	53.4	35.2	15.6	61.7	81.1	65.0
Syphilis – congenital	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Syphilis < 2 years duration**	3.1	8.2	44.8	6.5	2.4	4.7	12.5	3.5	8.2
Syphilis > 2 years or unspecified duration§,***	9.4	6.7	56.4	4.9	5.5	4.7	11.2	2.9	7.5
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	0.0	0.3	0.0	0.0	0.1	0.0	0.1
Influenza (laboratory confirmed)	118.5	60.7	185.7	149.7	334.2	46.0	78.3	98.4	108.7
Measles	0.0	0.1	6.6	1.5	0.2	0.0	0.6	0.6	0.6
Mumps	0.0	0.8	0.0	0.6	2.6	0.0	0.1	0.8	0.7
Pertussis	58.7	76.7	26.5	18.5	35.0	7.8	128.5	84.1	73.3
Pneumococcal disease (invasive)	3.1	6.6	14.9	3.5	5.5	8.6	6.1	8.4	6.1
Poliomyelitis	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	0.0	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	0.0	0.2	0.0

Table 3 continued: Notification rates of diseases, 1 October to 31 December 2014, 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									
Varicella zoster (chickenpox)	12.6	NN	21.6	6.0	21.8	11.7	17.5	18.1	14.4
Varicella zoster (shingles)	39.8	NN	111.1	0.9	120.7	53.8	24.0	61.1	36.1
Varicella zoster (unspecified)	35.7	NN	5.0	121.7	14.1	28.1	68.1	47.6	71.9
Vectorborne diseases									
Arbovirus infection (NEC)	1.0	1.2	11.6	4.8	0.0	0.0	0.5	1.3	1.7
Barmah Forest virus infection	0.0	0.5	0.0	1.5	0.5	0.0	0.9	0.8	0.8
Dengue virus infection	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1
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	1.0	0.6	5.0	1.9	0.2	0.8	0.9	1.7	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	3.1	11.8	107.8	68.4	5.5	1.6	5.6	52.7	26.3
Zoonoses									
Anthrax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Australia bat lyssavirus	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	0.3	0.0	0.0	0.0	0.0	0.1
Leptospirosis	0.0	0.2	1.7	0.3	0.0	0.0	0.1	0.2	0.2
Lyssavirus (NEC)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ornithosis	0.0	0.3	0.0	0.2	0.0	0.0	0.4	0.0	0.2
Q fever	1.0	2.7	0.0	3.1	0.2	0.0	0.6	0.2	1.7
Tularaemia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other bacterial diseases									
Legionellosis	2.1	1.1	0.0	1.9	2.2	0.8	1.0	7.0	2.0
Leprosy	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0
Meningococcal infection‡‡	0.0	0.8	0.0	0.6	2.4	0.0	0.7	0.8	0.8
Tuberculosis	10.5	6.5	14.9	4.0	3.1	3.1	9.3	4.9	6.3

* 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. From 1 July 2013 case definition changed to exclude all ocular infections.

** 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).

†† In the Australian Capital Territory, Murray Valley encephalitis virus infection and Kunjin virus infection are combined under Murray Valley encephalitis virus infection.

‡‡ 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.