

National Communicable Diseases Surveillance Report
Fortnight 06, 2017 Summary Notes for Selected Diseases
11 to 24 March 2017

Cryptosporidiosis

Notifications for cryptosporidiosis decreased this fortnight but remain high nationally with 426 notified in the period (compared to 458 in the previous period) and 2,067 for the past quarter which is 1.5 times the quarterly rolling mean of 1,385.4. A hot end to summer is thought to be a factor in this increase. Commercial pools and water parks have been linked to cryptosporidiosis clusters in several states.

Influenza (laboratory confirmed)

While notifications for influenza remain above expected interseasonal levels, the number of cases nationally has been decreasing in most jurisdictions since the beginning of March. The number of notifications for this reporting period (n=1,168) has decreased by over 13% compared to the previous reporting period (n=1,336). For the year to 24 March 2017, 87% of notifications of laboratory confirmed influenza to the NNDSS were influenza A (74% A(untsubtyped), 1% influenza A(H1N1)pdm09 and 12% influenza A (H3N2)), 13% were influenza B and less than 1% were influenza C, influenza A&B co-infections or untyped.

Invasive Meningococcal Disease

The number of cases of IMD due to serogroup W (MenW) has been increasing across most jurisdictions in Australia since 2013. The Commonwealth Department of Health, in collaboration with the states and territories, is closely monitoring the incidence of MenW in Australia. For the latest information on IMD, refer to the Department's website (<http://www.health.gov.au/internet/main/publishing.nsf/Content/ohp-meningococcal-W.htm>).

Measles

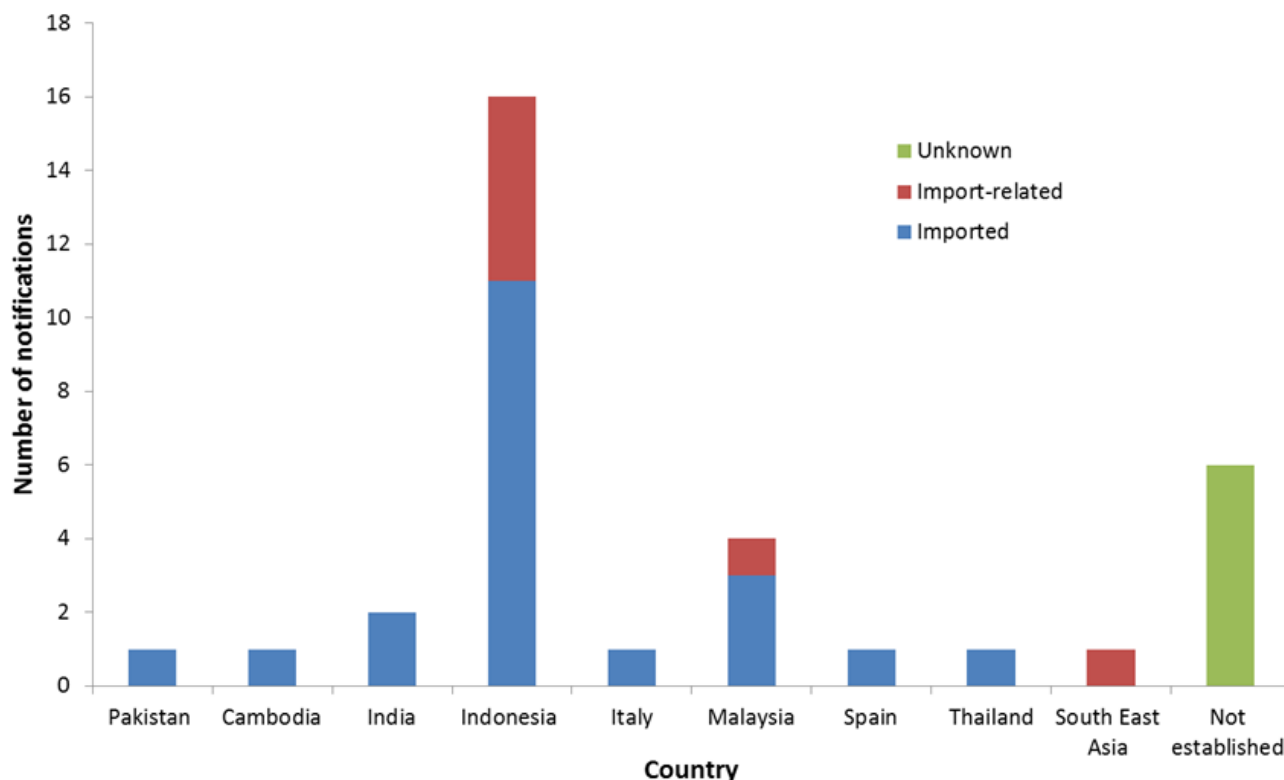
There have been 34 cases of measles notified in 2017 as at 24 March, including 12 cases from Western Australia, 11 cases from New South Wales, 6 cases from Queensland, 4 cases from Victoria and 1 case from the Northern Territory. The median age of cases is 20 years with a range of 0 years to 43 years. Eighty two per cent of cases notified this year (n=28) were either imported (n=21) or import-related (=7). For the remaining 18% of cases (n=6) a link to the primary imported case could not be established.

Of the imported cases (n=21), 11 acquired the disease in Indonesia, 3 in Malaysia, 2 in India, and one each in Thailand, Cambodia, Spain, Italy and Pakistan.

Vaccination status was known for 19 cases. Of these, 16 were not vaccinated, including 5 infants too young for vaccination; 2 were partially vaccinated having received one dose of a measles containing vaccine, and 1 was fully vaccinated having received two doses of a measles containing vaccine.

People travelling to measles endemic regions should consider their measles immunisation status as part of their travel planning.

Figure 1. Notifications of measles, Australia, 1 January 2017 – 24 March 2017, by importation status* and country.



* Unknown = a link to the primary imported cases could not be established

Interpretative Notes

Selected diseases are chosen each fortnight based on either exceeding two standard deviations from the 90 day and/or 365 day five year rolling mean or other disease issues of significance identified during the reporting period. All diseases reported are analysed by notification receive date. Data are extracted each Monday of a CDNA week.

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.

¹The past quarter (90 day) surveillance period includes the date range 25/12/2016 to 24/03/2017.

²The quarterly (90 day) five year rolling mean is the average of 5 intervals of 90 days up to 24/03/2017. The ratio is the notification activity in the past quarter (90 days) compared with the five year rolling mean for the same period.

³The past year (365 day) surveillance period includes the date range 25/03/2016 to 24/03/2017.

⁴The yearly (365 day) five year rolling mean is the average of 5 intervals of 365 days up to 24/03/2017. The ratio is the notification activity in the past year (365 days) compared with the five year rolling mean for the same period.

The five year rolling mean and the ratio of notifications compared with the five year rolling mean should be interpreted with caution. Changes in surveillance practice, diagnostic techniques and reporting may contribute to increases or decreases in the total notifications received over a five year period. Ratios are to be taken as a crude measure of current disease activity and may reflect changes in reporting rather than changes in disease activity.

ADT FN06 Notification Received Date 11/03/2017 to 24/03/2017																				
Disease	State or Territory								Totals for Australia				Historical 90 Day Period			Historical 365 Day Period				
	ACT	NSW	NT	QLD	SA	TAS	VIC	WA	This Reporting Period	Previous Reporting Period	Same Reporting Period Last Year	2017 YTD	Past Quarter	Quarterly Rolling 5 year mean	Ratio Past Quarter /5 year mean	Exceeds Quarterly rolling mean +2 SD by	Past Year	Yearly rolling 5 year mean	Ratio Past year /5 year mean	Exceeds Yearly rolling mean +2 SD by
Bloodborne diseases																				
Hepatitis B (newly acquired)	0	0	0	0	1	0	2	0	3	12	6	37	38	46.0	0.8	-	148	173.4	0.9	-
Hepatitis B (unspecified)	6	105	1	42	1	2	56	25	238	222	281	1,358	1,390	1,506.8	0.9	-	6,340	6,458.8	1.0	-
Hepatitis C (newly acquired)	0	2	0	2	2	0	2	2	10	18	31	132	140	130.0	1.1	-	649	467.8	1.4	51.7
Hepatitis C (unspecified)	4	154	2	100	0	6	37	44	347	432	555	2,307	2,377	2,423.6	1.0	-	10,918	10,093.4	1.1	34.2
Hepatitis D	0	0	0	1	2	0	0	1	4	4	4	15	15	10.0	1.5	-	59	49.2	1.2	-
Gastrointestinal diseases																				
Botulism	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.0	-	0	2.0	0.0	-
Campylobacteriosis	20	NN	24	314	138	29	271	137	933	985	805	6,328	6,702	4,906.2	1.4	-	24,752	18,295.6	1.4	-
Cryptosporidiosis	10	122	6	143	33	1	56	55	426	458	430	2,017	2,067	1,385.4	1.5	-	5,351	3,347.0	1.6	219.7
Haemolytic uraemic syndrome (HUS)	0	1	0	0	0	0	0	0	1	1	0	3	5	5.4	0.9	-	15	18.0	0.8	-
Hepatitis A	0	1	0	1	0	1	3	1	7	8	8	47	56	69.4	0.8	-	134	184.0	0.7	-
Hepatitis E	0	1	0	1	0	0	1	0	3	2	1	18	18	12.4	1.5	-	39	41.8	0.9	-
Listeriosis	0	0	0	0	0	1	1	0	2	7	5	22	24	25.4	0.9	-	84	79.2	1.1	-
Paratyphoid	0	1	0	1	0	0	2	0	4	1	3	22	25	29.4	0.9	-	69	73.8	0.9	-
STEC	0	3	0	0	10	0	0	4	17	25	5	132	137	38.0	3.6	83.2	414	132.0	3.1	225.4
Salmonellosis	18	210	25	293	85	19	187	166	1,003	888	970	5,788	6,050	5,063.6	1.2	-	17,921	14,189.4	1.3	-
Shigellosis	0	7	10	8	0	0	17	3	45	66	39	385	400	266.0	1.5	-	1,442	763.2	1.9	130.7
Typhoid Fever	0	1	0	2	1	0	4	0	8	11	4	51	53	50.2	1.1	-	117	125.8	0.9	-
Quarantinable diseases																				
Avian influenza in humans (AIH)	0	0	0	0	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	0.4	0.0	-	1	3.4	0.3	-
Middle East respiratory syndrome coronavirus (MERS-CoV)	0	0	0	0	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	0.0	0.0	-
Rabies	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-	0	0.0	0.0	-
Severe acute respiratory syndrome (SARS)	0	0	0	0	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	0.0	0.0	-
Viral haemorrhagic fever (NEC)	0	0	0	0	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	0.4	0.0	-
Sexually transmissible infections																				
Chlamydial infection	60	1,175	30	982	232	1	0	512	2,992	3,276	2,955	18,758	19,338	20,500.4	0.9	-	77,009	80,801.4	1.0	-
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	-	0	0.4	0.0	-
Gonococcal infection	6	392	25	231	50	4	65	169	942	1,158	866	6,971	7,180	4,239.6	1.7	1,195.6	24,819	15,593.8	1.6	4,165.5
Syphilis < 2 years	3	20	4	37	3	0	0	12	79	101	118	722	745	496.0	1.5	-	3,282	1,940.6	1.7	79.7
Syphilis > 2 years or unspecified duration	0	4	0	8	1	0	105	3	121	118	82	588	591	422.8	1.4	25.1	2,147	1,672.0	1.3	-
Syphilis congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.0	-	2	4.0	0.5	-

Footnotes:

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Vaccine preventable diseases																					
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0	-	7	2.4	2.9	1.6
Haemophilus influenzae type b	0	0	0	1	0	0	0	0	1	2	1	4	4	2.8	1.4	-	19	17.2	1.1	-	
Influenza (laboratory confirmed)	12	346	60	476	90	9	114	61	1,168	1,366	1,254	7,630	8,005	3,249.4	2.5	1,509.4	93,142	54,198.2	1.7	-	
Measles	0	3	1	3	0	0	0	4	11	6	10	34	38	52.0	0.7	-	97	184.0	0.5	-	
Mumps	0	7	3	14	1	0	0	1	26	25	63	148	156	112.6	1.4	-	638	334.2	1.9	-	
Pertussis	16	228	4	51	57	0	82	50	488	498	823	3,347	3,550	4,837.6	0.7	-	17,687	21,116.2	0.8	-	
Pneumococcal disease (invasive)	1	10	1	8	6	2	8	5	41	40	32	245	258	216.6	1.2	1.0	1,727	1,652.4	1.0	-	
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-	0	0.0	0.0	-	
Rotavirus	NN	16	0	44	10	1	NN	15	NN	NN	NN	621	655	N/A	N/A	-	2,561	N/A	N/A	-	
Rubella	0	0	0	1	0	0	0	0	1	1	0	4	4	5.8	0.7	-	18	27.6	0.7	-	
Rubella congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-	0	0.8	0.0	-	
Tetanus	0	1	0	0	0	0	0	0	1	0	1	2	2	1.6	1.3	-	6	4.2	1.4	-	
Varicella zoster (chickenpox)	1	NN	1	6	10	1	6	33	58	59	115	328	348	476.6	0.7	-	2,242	2,198.8	1.0	-	
Varicella zoster (shingles)	17	NN	12	1	42	1	2	61	136	189	292	1,132	1,206	1,392.2	0.9	-	6,013	5,212.2	1.2	-	
Varicella zoster (unspecified)	7	NN	0	320	60	20	74	104	585	457	673	3,118	3,337	2,892.0	1.2	-	15,713	11,191.8	1.4	392.8	
Vectorborne diseases																					
Barmah Forest virus infection	0	3	0	17	1	0	0	2	23	13	20	100	102	460.8	0.2	-	313	1,716.2	0.2	-	
Chikungunya virus infection	0	1	0	0	0	0	0	0	1	4	2	15	15	25.0	0.6	-	112	83.4	1.3	-	
Dengue virus infection	0	9	2	9	2	0	0	10	32	53	128	372	384	616.0	0.6	-	1,995	1,569.8	1.3	-	
Flavivirus infection (unspecified)	0	0	0	0	0	0	0	0	0	0	5	7	8	10.0	0.8	-	87	19.6	4.4	36.4	
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.0	-	0	1.8	0.0	-	
Malaria	0	2	0	7	1	0	0	0	10	27	12	113	119	91.2	1.3	-	342	341.0	1.0	-	
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0	-	0	3.8	0.0	-	
Ross River virus infection	1	67	9	95	40	1	107	85	405	710	275	3,678	3,749	2,225.6	1.7	-	5,830	5,473.8	1.1	-	
West Nile/Kunjin virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0	-	0	1.2	0.0	-	
Zoonoses																					
Anthrax	0	0	0	0	0	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	0.2	0.0	-	0	0.2	0.0	-	
Brucellosis	0	0	0	0	0	0	0	0	0	0	2	4	4	5.0	0.8	-	17	22.6	0.8	-	
Leptospirosis	0	1	1	5	0	0	0	0	7	7	8	46	46	26.0	1.8	-	150	103.8	1.4	-	
Lyssavirus infection (NEC)	0	0	0	0	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	0	0	0	4	7.6	0.5	-	20	51.4	0.4	-	
Q fever	0	4	0	13	0	0	0	0	17	23	32	132	138	125.8	1.1	-	550	467.6	1.2	-	
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-	0	0.4	0.0	-	
Other bacterial infections																					
Legionellosis	0	5	0	1	0	0	0	1	7	21	15	88	93	90.8	1.0	-	385	405.8	0.9	-	
Leprosy	0	0	0	0	0	0	0	0	0	1	0	2	2	2.2	0.9	-	20	11.4	1.8	0.8	
Meningococcal disease (invasive)	0	0	0	3	1	1	2	1	8	15	9	72	79	33.0	2.4	27.7	282	191.6	1.5	15.7	
Tuberculosis	0	14	0	17	0	0	9	6	46	52	48	296	316	300.0	1.1	-	1,371	1,309.4	1.0	-	
	182	2,916	221	3,258	880	100	1,213	1,573	10,257	11,362	10,988	67,243	69,973				327,056				

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