

National Communicable Diseases Surveillance Report
Fortnight 14, 2014 Summary Notes for Selected Diseases
28 June to 11 July 2014

Measles

There were 15 cases notified in this reporting period including Qld (6), Vic (5), WA (3) and NSW (1).

Of the 258 cases notified year to date:

- The majority were either imported from overseas 39% (n=101) or import related 31% (n=80). These cases were associated with travel to the Philippines, Singapore and more recently Papua New Guinea.
- Although 30% of cases were reported as being acquired in Australia, with the link to an imported case either not established or currently under investigation, it is likely these are all import related.
- Cases continue to be highest in the 15-19 and 30-34 years age groups, representing over a third of cases. Additionally, 9% of cases (n=24) were less than 12 months of age.
- Of those cases aged over 12 months (n=234) and eligible for vaccination, 39% (n=91) were reported as not vaccinated and a further 42% (n=99) had an unknown vaccination status. The remaining 19% of cases (n=44) were reported as being vaccinated, of which 37 had received one dose and seven had received two doses of a measles containing vaccine.
- Vaccination is the best protection against measles. All travellers should ensure that they are up to date with routinely recommended vaccinations, including measles, prior to travel. More information is available on vaccination from the [National Immunisation Programme](#).

Influenza (laboratory confirmed)

Notifications of laboratory confirmed influenza continued to increase during this reporting period signalling the start of the 2014 influenza season.

During the season, a comprehensive analysis of influenza surveillance data is available in The Australian Influenza Surveillance Report which is published fortnightly on the Department of Health website at www.health.gov.au/internet/main/publishing.nsf/content/cda-surveil-ozflu-flucurr.htm

Hepatitis E

There were 4 notifications of hepatitis E during this reporting period, 3 from NSW and 1 from the ACT. In the past quarter there were 14 notifications of hepatitis E, a ratio of 1.8 compared with the quarterly 5 year rolling mean of 8. NSW Health continues to investigate a cluster of 10 cases who all reported eating at the same restaurant.

Shiga toxin-producing *Escherichia coli* (STEC)

There were 5 notifications of STEC during this reporting period, 2 from SA and 1 each from NSW, QLD and WA. In the past quarter there were 36 notifications, a ratio of 1.8 compared with the quarterly 5 year rolling mean of 20.4. SA Health is continuing to investigate a cluster of 8 cases of STEC O157 with an onset from mid-May.

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.

¹*The past quarter (90 day) surveillance period includes the date range 13/04/2014 to 11/07/2014.*

²*The quarterly (90 day) five year rolling mean is the average of 5 intervals of 90 days up to 11/07/2014. The ratio is the notification activity in the past quarter (90 days) compared with the five year rolling mean for the same period.*

³*The past year (365 day) surveillance period includes the date range 12/07/2013 to 11/07/2014.*

⁴*The yearly (365 day) five year rolling mean is the average of 5 intervals of 365 days up to 11/07/2014. 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 FN14 Notification Received Date 28/06/2014 to 11/07/2014

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	2014 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 (NEC)	0	0	0	0	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	0	0	0	1	1	2	7	12	105	44	51.4	0.9		179	220.4	0.8	
Hepatitis B (unspecified)	3	112	0	40	12	0	65	31	263	255	280	3,508	1,652	1,677.6	1.0		6,884	6,746.8	1.0	
Hepatitis C (newly acquired)	2	0	0	0	1	0	6	2	11	22	8	238	111	109.2	1.0		434	415.2	1.0	
Hepatitis C (unspecified)	5	112	3	132	15	8	82	50	407	368	380	5,432	2,543	2,544.0	1.0		10,481	10,397.6	1.0	
Hepatitis D	0	0	0	3	0	0	1	0	4	3	5	26	15	11.6	1.3		50	37.6	1.3	
Gastrointestinal diseases																				
Botulism	0	0	0	0	0	0	0	0	0	0	0	1	1	0.2	5.0		2	1.2	1.7	
Campylobacteriosis	19	NN	9	225	78	18	255	89	693	802	441	10,096	4,699	3,500.8	1.3	496.4	17,588	16,109.2	1.1	
Cryptosporidiosis	0	12	2	16	8	1	25	11	75	98	73	1,610	637	780.2	0.8		2,541	2,936.8	0.9	
Haemolytic uraemic syndrome (HUS)	0	0	0	0	0	0	0	1	1	0	1	16	5	3.4	1.5		22	16.0	1.4	
Hepatitis A	0	2	0	1	0	0	1	0	4	5	10	129	35	60.4	0.6		204	270.2	0.8	
Hepatitis E	1	3	0	0	0	0	0	0	4	2	24	14	8.0	1.8	4.6	36	37.2	1.0		
Listeriosis	0	1	0	2	0	0	1	0	4	1	0	44	21	17.2	1.2		73	79.4	0.9	
STEC, VTEC	0	1	0	1	2	0	0	1	5	5	3	82	36	20.4	1.8	2.4	183	107.4	1.7	26.6
Salmonellosis	6	86	19	121	33	4	101	30	400	533	323	9,873	4,017	2,555.8	1.6	891.2	15,104	11,115.0	1.4	1,334.0
Shigellosis	1	9	4	5	0	0	11	3	33	34	16	587	224	122.6	1.8	53.6	843	574.4	1.5	29.7
Typhoid Fever	0	0	0	0	0	0	0	1	1	5	2	68	20	24.2	0.8		117	122.2	1.0	
Quarantinable diseases																				
Cholera	0	0	0	0	0	0	0	0	0	1	0	3	2	2.0	1.0		5	4.6	1.1	
HPAIIH	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	0.7	0.0		0	0.0	0.0	
Sexually transmissible infections																				
Chlamydial infection	47	796	76	788	187	65	617	455	3,031	3,284	2,857	46,063	20,749	19,301.6	1.1		84,923	74,349.2	1.1	
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	1	0	0.2	0.0		1	0.8	1.3	
Gonococcal infection	2	124	52	101	23	3	101	108	514	656	588	8,606	3,872	2,998.4	1.3		15,839	11,076.4	1.4	
Syphilis - congenital	0	0	0	0	0	0	0	0	0	0	0	1	0	1.0	0.0		5	4.2	1.2	
Syphilis < 2 years	0	1	2	10	0	0	8	5	26	58	73	931	404	353.0	1.1		1,804	1,358.8	1.3	67.3
Syphilis > 2 years or unspecified duration	0	7	0	11	5	0	27	0	50	59	86	884	375	369.8	1.0		1,682	1,389.4	1.2	84.8

Footnotes:

* Ratio of the 90 day prior surveillance period to the past 90 day 5 year rolling mean, or ratio of the 365 day prior surveillance period to the 365 day 5 year rolling mean.

NN = Not Notifiable, NDP = No Data Provided, NEC = Not Elsewhere Classified

Past Quarter (90d prior surveillance period): 13/04/2014 to 11/07/2014

Quarterly rolling 5Yr Mean (90d 5Yr Mean):

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 1: 13/04/2013 to 11/07/2013

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 2: 13/04/2012 to 11/07/2012

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 3: 13/04/2011 to 11/07/2011

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 4: 13/04/2010 to 11/07/2010

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 5: 13/04/2009 to 11/07/2009

Past year (365d prior surveillance period): 12/07/2013 to 11/07/2014

Yearly rolling 5Yr Mean (365d 5Yr Mean):

Yearly rolling 5Yr Mean (365d 5Yr Mean) 1: 12/07/2012 to 11/07/2013

Yearly rolling 5Yr Mean (365d 5Yr Mean) 2: 13/07/2011 to 11/07/2012

Yearly rolling 5Yr Mean (365d 5Yr Mean) 3: 12/07/2010 to 11/07/2011

Yearly rolling 5Yr Mean (365d 5Yr Mean) 4: 12/07/2009 to 11/07/2010

Yearly rolling 5Yr Mean (365d 5Yr Mean) 5: 12/07/2008 to 11/07/2009

ADT FN14 Notification Received Date 28/06/2014 to 11/07/2014

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	2014 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
Vaccine preventable diseases																				
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0	0.0		1	1.0	1.0	
Haemophilus influenzae type b	0	0	0	2	1	0	0	0	3	1	1	11	8	6.0	1.3		22	17.8	1.2	
Influenza (laboratory confirmed)	26	536	7	506	198	31	285	186	1,775	1,041	781	9,642	5,254	7,320.4	0.7		32,547	31,517.6	1.0	
Measles	0	1	0	6	0	0	5	3	15	14	0	258	76	22.0	3.5	30.0	382	119.4	3.2	160.6
Mumps	1	2	0	3	0	0	0	1	7	4	0	107	38	47.0	0.8		190	167.8	1.1	
Pertussis	8	67	2	41	17	0	83	58	276	327	390	4,679	1,989	5,724.4	0.3		10,492	29,004.8	0.4	
Pneumococcal disease (invasive)	0	39	0	17	6	3	16	8	89	77	104	671	427	477.6	0.9		1,500	1,707.0	0.9	
Poliomyelitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0		0	0.0	0.0	
Rubella	0	1	0	0	0	0	0	0	1	2	1	10	3	9.8	0.3		27	39.2	0.7	
Rubella Congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0		1	0.4	2.5	
Tetanus	0	0	0	0	0	0	0	0	0	0	0	1	1	0.6	1.7		1	3.8	0.3	
Varicella zoster (Chickenpox)	1	NN	2	4	11	0	14	9	41	78	90	957	418	443.0	0.9		2,134	1,943.0	1.1	
Varicella zoster (Shingles)	1	NN	14	0	56	1	40	41	153	195	137	2,823	1,247	932.0	1.3		5,223	3,619.6	1.4	
Varicella zoster (Unspecified)	11	NN	1	180	31	5	120	53	401	421	389	5,710	2,563	1,872.0	1.4	187.7	10,789	7,451.8	1.4	981.0
Vectorborne diseases																				
Arbovirus infection (NEC)	0	0	0	1	0	0	0	0	1	1	0	27	12	2.8	4.3	6.2	39	12.0	3.3	15.0
Barmah Forest virus infection	0	8	2	9	0	0	0	3	22	27	131	574	193	576.8	0.3		1,775	2,064.6	0.9	
Dengue virus infection	1	13	0	5	1	2	0	20	42	56	71	1,114	388	296.0	1.3		1,896	1,261.6	1.5	
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0		3	0.6	5.0	1.3
Kunjin virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0		2	1.4	1.4	
Malaria	1	8	0	4	0	0	0	1	14	13	18	173	76	96.8	0.8		356	435.0	0.8	
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2	0.0		1	4.2	0.2	
Ross River virus infection	0	17	12	61	1	0	0	35	126	169	130	3,104	1,277	1,335.0	1.0		4,585	4,813.0	1.0	
Zoonoses																				
Anthrax	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0		0	0.2	0.0	
Australian bat lyssavirus	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0		0	0.2	0.0	
Brucellosis	0	0	0	0	0	0	1	0	1	0	0	8	2	6.0	0.3		18	29.6	0.6	
Leptospirosis	0	0	0	0	0	0	0	0	12	1	61	31	45.6	0.7		102	137.8	0.7		
Lyssavirus (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	1	3	16	6	15.8	0.4		41	73.6	0.6		
Q fever	0	2	0	1	0	0	1	1	5	18	21	266	95	96.8	1.0		479	359.8	1.3	36.7
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.0		0	0.5	0.0	
Other bacterial infections																				
Legionellosis	0	3	0	1	0	0	4	5	13	14	27	206	98	98.4	1.0		492	336.8	1.5	59.1
Leprosy	0	0	0	0	0	0	0	0	0	1	1	7	4	2.6	1.5		14	8.6	1.6	3.1
Meningococcal disease (invasive)	0	0	0	2	0	1	1	4	11	4	71	38	54.4	0.7		153	239.2	0.6		
Tuberculosis	3	10	0	1	1	0	20	8	43	54	50	655	287	290.2	1.0		1,268	1,323.8	1.0	
	139	1,973	207	2,298	689	141	1,892	1,221	8,560	8,735	7,508	119,479	54,007				233,533			

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Past year (365d prior surveillance period): 12/07/2013 to 11/07/2014

Yearly rolling 5Yr Mean (365d 5Yr Mean):

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