

National Communicable Diseases Surveillance Report
Fortnight 8, 2018 Summary Notes for Selected Diseases
14 April to 27 April 2018

Infectious syphilis

Increases in infectious syphilis notifications are attributed to an on-going outbreak occurring in young Aboriginal and Torres Strait Islander people residing in northern and central Australia and continued increases among men who have sex with men (MSM) in urban areas of Victoria and New South Wales (NSW).

Outbreak in remote Australia

In January 2011, an increase of infectious syphilis notifications among young Aboriginal and Torres Strait Islander people was identified in the North West region of Queensland (QLD), following a steady decline at a national level in remote communities. Subsequent increases in infectious syphilis notifications were reported in the Northern Territory (NT) in 2013, Western Australia (WA) in 2014 and South Australia (SA) in 2016, following sustained periods of low notification rates. The outbreak is of significant public health concern given the: elevated rates of infectious syphilis among women of child-bearing age, increasing the risk of congenital syphilis; and the concomitant risk of HIV transmission.

For the latest information on the infectious syphilis outbreak, refer to the [Department's website](http://www.health.gov.au/internet/main/publishing.nsf/Content/ohp-infectious-syphilis-outbreak.htm) (<http://www.health.gov.au/internet/main/publishing.nsf/Content/ohp-infectious-syphilis-outbreak.htm>).

Increases among MSM

Since 2010, increases in notifications of infectious syphilis have been reported in MSM, predominately 20-39 years of age, residing in urban areas of Victoria (VIC) and NSW.

Invasive Meningococcal Disease (IMD)

The number of cases of IMD due to serogroup W and serogroup Y has been increasing across most jurisdictions in Australia. The Australian Government Department of Health, in collaboration with the states and territories, is closely monitoring the incidence of IMD 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) (<http://www.health.gov.au/internet/main/publishing.nsf/Content/ohp-meningococcal-W.htm>).

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 (13/01/2018 to 29/04/2018).*

²*The quarterly (90 day) five year rolling mean is the average of 5 intervals of 90 days up to 30/03/2017. The ratio is the notification activity in the past quarter (90 days) compared with the five year rolling mean for the same period.*

³*The past year (365 day) surveillance period includes the date range (31/03/2017 to 30/03/2018).*

⁴*The yearly (365 day) five year rolling mean is the average of 5 intervals of 365 days up to 31/03/2017. 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 FN08 Notification Received Date 14/04/2018 to 27/04/2018																				
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	2018 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	1	0	0	0	0	0	1	2	1	2	24	19	45.6	0.4	-	127	164.6	0.8	-
Hepatitis B (unspecified)	7	89	0	27	4	0	15	19	161	217	185	1,807	1,454	1,606.0	0.9	-	5,819	6,436.8	0.9	-
Hepatitis C (newly acquired)	0	0	0	13	2	0	1	3	19	14	21	177	128	165.2	0.8	-	608	637.8	1.0	-
Hepatitis C (unspecified)	7	125	6	85	2	4	6	30	265	287	302	2,874	2,242	2,590.0	0.9	-	9,634	10,062.8	1.0	-
Hepatitis D	1	0	0	2	0	0	0	0	3	4	2	19	15	13.8	1.1	-	66	52.0	1.3	-
Gastrointestinal diseases																				
Botulism	0	0	0	0	0	0	0	0	0	0	0	2	0	0.6	0.0	-	2	1.6	1.3	-
Campylobacteriosis	10	207	16	277	69	15	16	83	693	904	671	10,561	6,874	4,906.0	1.4	-	24,972	19,800.8	1.3	-
Cryptosporidiosis	1	31	9	69	11	1	54	6	182	178	223	1,508	1,222	1,849.8	0.7	-	3,476	3,953.6	0.9	-
Haemolytic uraemic syndrome (HUS)	0	0	0	0	0	0	0	0	0	1	0	4	3	4.2	0.7	-	13	18.0	0.7	-
Hepatitis A	0	5	1	1	0	0	11	1	19	21	2	178	154	66.2	2.3	52.8	330	183.2	1.8	68.7
Hepatitis E	0	1	0	0	0	0	1	0	2	4	1	13	11	12.6	0.9	-	42	42.0	1.0	-
Listeriosis	0	0	0	0	0	0	0	0	0	2	1	43	34	23.8	1.4	1.3	89	79.4	1.1	-
Paratyphoid	0	0	0	1	0	0	0	1	2	4	1	40	26	28.2	0.9	-	72	74.4	1.0	-
STEC	0	4	1	1	13	0	1	7	27	22	13	209	164	57.2	2.9	17.9	509	201.4	2.5	20.8
Salmonellosis	6	135	37	167	54	5	114	71	589	695	660	6,175	4,741	5,551.6	0.9	-	14,870	15,604.4	1.0	-
Shigellosis	0	5	29	9	3	1	14	9	70	77	34	699	525	271.6	1.9	89.7	1,962	959.0	2.0	274.2
Typhoid Fever	0	2	0	3	0	0	2	0	7	8	4	83	72	46.2	1.6	7.7	158	122.0	1.3	18.3
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	0.2	0.0	-	3	2.4	1.3	-
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	0.0	0.0	-
Sexually transmissible infections																				
Chlamydial infection	58	1,180	45	877	181	37	1	376	2,755	2,836	3,161	27,734	21,578	23,934.8	0.9	-	90,567	88,128.2	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	10	423	62	150	41	3	203	104	996	1,250	961	10,008	7,693	5,198.6	1.5	-	28,357	18,515.2	1.5	-
Syphilis < 2 years	1	20	13	27	4	0	14	11	90	154	116	1,391	1,020	679.0	1.5	-	4,426	2,476.2	1.8	200.6
Syphilis > 2 years or unspecified duration	0	4	2	8	2	1	35	2	54	72	53	657	492	490.4	1.0	-	2,064	1,827.0	1.1	-
Syphilis congenital	0	0	0	0	0	0	0	0	0	0	0	1	0	0.8	0.0	-	6	3.8	1.6	-

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, NEC = Not Elsewhere Classified

Past Quarter (90d prior surveillance period): 28/01/2018 to 27/04/2018

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

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 1: 28/01/2017 to 27/04/2017

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 2: 29/01/2016 to 27/04/2016

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 3: 28/01/2015 to 27/04/2015

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 4: 28/01/2014 to 27/04/2014

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 5: 28/01/2013 to 27/04/2013

Past year (365d prior surveillance period): 28/04/2017 to 27/04/2018

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

Yearly rolling 5Yr Mean (365d 5Yr Mean) 1: 28/04/2016 to 27/04/2017

Yearly rolling 5Yr Mean (365d 5Yr Mean) 2: 29/04/2015 to 27/04/2016

Yearly rolling 5Yr Mean (365d 5Yr Mean) 3: 28/04/2014 to 27/04/2015

Yearly rolling 5Yr Mean (365d 5Yr Mean) 4: 28/04/2013 to 27/04/2014

Yearly rolling 5Yr Mean (365d 5Yr Mean) 5: 28/04/2012 to 27/04/2013

ADT FN08 Notification Received Date 14/04/2018 to 27/04/2018																				
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	2018 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	1	5	2	1.2	1.7		10	3.4	2.9	0.8	
Haemophilus influenzae type b	0	0	0	1	0	0	0	0	1	1	0	8	8	3.0	2.7	1.3	20	18.0	1.1	
Influenza (laboratory confirmed)	3	193	2	297	68	6	123	66	758	1,144	818	12,218	9,247	5,144.4	1.8	252,297	68,030.2	3.7	123,265.5	
Measles	0	0	0	0	0	0	1	2	3	10	3	43	40	52.6	0.8	77	180.0	0.4		
Mumps	0	3	3	11	0	0	0	1	18	28	29	244	196	143.6	1.4	821	445.8	1.8		
Pertussis	7	129	3	47	22	0	34	48	290	347	345	3,133	2,365	3,530.4	0.7	11,108	17,355.0	0.6		
Pneumococcal disease (invasive)	1	10	4	11	7	0	9	4	46	49	47	348	264	236.0	1.1	2,043	1,619.6	1.3	162.3	
Poliovirus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0	0.0	
Rotavirus	NN	27	1	21	8	1	NN	5	NN	NN	NN	833	599	N/A	N/A	6,972	N/A	N/A	2,154.7	
Rubella	0	0	0	0	0	0	0	0	0	0	0	1	1	3.6	0.3	6	20.0	0.3		
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	0	0	0	0	0	0	0	0	0	1	1	1	2.0	0.5	3	4.8	0.6		
Varicella zoster (chickenpox)	4	NN	1	4	15	1	0	18	43	74	79	885	684	522.2	1.3	3,146	2,424.0	1.3		
Varicella zoster (shingles)	10	NN	10	41	57	11	4	44	177	345	277	3,917	3,021	1,626.8	1.9	689.9	10,283	6,030.6	1.7	1,685.7
Varicella zoster (unspecified)	4	NN	0	291	58	9	0	87	449	481	474	4,143	3,095	3,265.0	0.9	15,612	12,587.4	1.2		
Vectorborne diseases																				
Barmah Forest virus infection	0	2	0	15	0	0	1	2	20	16	9	142	119	490.2	0.2	461	1,448.2	0.3		
Chikungunya virus infection	0	0	0	0	0	0	0	0	0	0	0	9	6	27.4	0.2	85	100.2	0.8		
Dengue virus infection	0	4	0	3	3	0	0	1	11	24	30	263	148	595.2	0.2	887	1,746.6	0.5		
Flavivirus infection (unspecified)	0	0	0	0	0	0	0	0	0	0	1	1	1	16.0	0.1	9	35.4	0.3		
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.0	1	1.6	0.6		
Malaria	0	1	3	1	0	0	0	0	5	6	6	109	86	94.2	0.9	324	335.2	1.0		
Murray Valley encephalitis virus infection	0	0	1	0	0	0	0	0	1	0	0	1	1	0.2	5.0	1	0.4	2.5		
Ross River virus infection	0	20	4	175	1	1	2	7	210	222	317	1,280	1,082	2,845.0	0.4	3,886	5,828.2	0.7		
West Nile/Kunjin virus infection	0	0	0	0	0	0	0	0	0	0	2	0	0	0.4	0.0	4	1.2	3.3	1.1	
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	1	0	0	0	0	1	1	1	14	13	3.4	3.8	7.3	30	18.6	1.6	5.5
Leptospirosis	0	0	1	6	0	0	0	0	7	5	2	48	41	32.6	1.3	129	97.6	1.3		
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	1	0	3	3	5.0	0.6	19	39.0	0.5		
Q fever	0	1	0	7	0	0	0	0	8	12	17	139	95	139.2	0.7	439	504.4	0.9		
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0		
Other bacterial infections																				
Legionellosis	0	2	0	1	0	1	0	1	5	21	17	141	112	92.4	1.2	11.0	405	409.6	1.0	
Leprosy	0	0	0	2	0	0	0	0	2	0	0	2	2	2.6	0.8	9	13.4	0.7		
Meningococcal disease (invasive)	2	0	1	1	0	0	0	0	4	16	7	67	46	42.4	1.1	355	202.2	1.8	42.6	
Tuberculosis	0	9	0	8	0	1	9	3	30	51	37	388	307	316.2	1.0	1,401	1,309.8	1.1		
	130	2,635	254	2,661	626	98	671	1,013	8,025	9,605	8,933	92,593	70,052			499,015				

Footnotes:

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