

**National Communicable Diseases Surveillance Report**  
**Fortnight 15, 2017 Summary Notes for Selected Diseases**  
**15 July to 28 July 2017**

**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.

*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, following a steady decline at a national level in remote communities. Subsequent increases in infectious syphilis notifications were reported in the Northern Territory in 2013, Western Australia in 2014 and South Australia in 2016, following sustained periods of low notification rates. 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>

*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 and New South Wales.

**Invasive Meningococcal Disease (IMD)**

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 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>).

**Influenza (laboratory confirmed)**

Influenza activity at the national level continued to increase this reporting fortnight indicating that the season is underway in a majority of regions across Australia. This increase in activity has occurred approximately one month earlier than in 2016. The Australian Government Department of Health continues to monitor influenza activity and a detailed analysis of influenza activity is available on the [Department's website](#).

**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.*

<sup>1</sup>*The past quarter (90 day) surveillance period includes the date range (30/4/2017 to 28/7/2017).*

<sup>2</sup>*The quarterly (90 day) five year rolling mean is the average of 5 intervals of 90 days up to 28/7/2017. The ratio is the notification activity in the past quarter (90 days) compared with the five year rolling mean for the same period.*

<sup>3</sup>*The past year (365 day) surveillance period includes the date range (29/7/2016 to 28/7/2017).*

<sup>4</sup>*The yearly (365 day) five year rolling mean is the average of 5 intervals of 365 days up to 28/7/2017. 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 FN15 Notification Received Date 15/07/2017 to 28/07/2017																				
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
<b>Bloodborne diseases</b>																				
Hepatitis B (newly acquired)	0	1	0	4	1	0	0	0	6	7	3	88	39	40.0	1.0	-	147	172.8	0.9	-
Hepatitis B (unspecified)	0	61	0	44	3	0	56	31	195	197	232	3,471	1,463	1,665.6	0.9	-	5,977	6,489.6	0.9	-
Hepatitis C (newly acquired)	0	1	0	4	0	0	1	0	6	18	30	338	116	155.0	0.7	-	626	597.0	1.0	-
Hepatitis C (unspecified)	4	147	5	102	1	3	70	54	386	400	384	5,863	2,519	2,473.4	1.0	-	10,516	9,937.4	1.1	-
Hepatitis D	0	1	0	0	1	0	0	0	2	0	4	24	7	13.2	0.5	-	49	48.8	1.0	-
<b>Gastrointestinal diseases</b>																				
Botulism	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.0	-	0	2.0	0.0	-
Campylobacteriosis	15	NN	18	262	127	31	44	120	617	750	901	12,928	4,729	4,354.6	1.1	-	23,977	18,624.0	1.3	-
Cryptosporidiosis	0	18	2	22	12	1	39	7	101	94	128	3,795	998	803.2	1.2	-	5,093	3,620.2	1.4	-
Haemolytic uraemic syndrome (HUS)	0	0	0	0	0	0	0	0	0	0	2	9	3	4.2	0.7	-	17	18.2	0.9	-
Hepatitis A	0	3	0	1	2	0	1	0	7	3	3	86	25	32.2	0.8	-	141	183.0	0.8	-
Hepatitis E	0	2	0	0	0	0	0	1	3	2	0	38	13	9.2	1.4	-	51	40.4	1.3	-
Listeriosis	0	0	0	0	0	0	0	1	1	3	1	45	19	15.4	1.2	-	77	79.8	1.0	-
Paratyphoid	0	1	0	0	1	0	1	0	3	0	2	37	9	15.4	0.6	-	64	75.4	0.8	-
STEC	0	1	0	0	14	0	1	2	18	19	10	279	90	33.4	2.7	23.6	482	144.0	3.3	261.5
Salmonellosis	8	81	11	104	28	7	98	83	420	436	542	11,200	3,313	3,165.8	1.0	-	17,026	14,685.4	1.2	-
Shigellosis	0	15	22	11	2	0	26	7	83	75	38	961	473	211.8	2.2	71.8	1,566	824.8	1.9	119.5
Typhoid Fever	0	0	0	0	0	0	1	1	2	4	2	92	25	22.8	1.1	-	133	122.4	1.1	-
<b>Quarantinable diseases</b>																				
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	1.2	0.0	-	1	2.6	0.4	-
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	-
<b>Sexually transmissible infections</b>																				
Chlamydial infection	45	882	53	938	177	27	0	348	2,470	2,821	3,104	48,488	20,175	20,688.8	1.0	-	82,329	83,287.4	1.0	-
Donovanosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-	0	0.4	0.0	-
Gonococcal infection	9	276	36	161	45	3	221	118	869	1,023	867	16,896	6,783	4,333.0	1.6	490.9	27,451	16,363.8	1.7	5,101.0
Syphilis < 2 years	1	15	15	26	8		19	12	96	156	119	2,286	994	571.0	1.7	44.3	3,735	2,105.4	1.8	192.0
Syphilis > 2 years or unspecified duration	0	5	5	9	2	2	51	4	78	86	87	1,256	515	451.2	1.1	-	2,085	1,720.8	1.2	-
Syphilis congenital	0	0	0	0	0	0	0	0	0	0	0	4	2	0.4	5.0	0.5	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

Dates used are:

Past Quarter (90d prior surveillance period): 30/04/2017 to 28/07/2017

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

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 1: 30/04/2016 to 28/07/2016

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 2: 30/04/2015 to 28/07/2015

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 3: 30/04/2014 to 28/07/2014

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 4: 30/04/2013 to 28/07/2013

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 5: 30/04/2012 to 28/07/2012

Past year (365d prior surveillance period): 29/07/2016 to 28/07/2017

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

Yearly rolling 5Yr Mean (365d 5Yr Mean) 1: 30/07/2015 to 28/07/2016

Yearly rolling 5Yr Mean (365d 5Yr Mean) 2: 29/07/2014 to 28/07/2015

Yearly rolling 5Yr Mean (365d 5Yr Mean) 3: 29/07/2013 to 28/07/2014

Yearly rolling 5Yr Mean (365d 5Yr Mean) 4: 29/07/2012 to 28/07/2013

Yearly rolling 5Yr Mean (365d 5Yr Mean) 5: 30/07/2011 to 28/07/2012

ADT FN15 Notification Received Date 15/07/2017 to 28/07/2017																				
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
<b>Vaccine preventable diseases</b>																				
Diphtheria	0	0	0	0	0	0	0	0	0	0	0	3	1	0.2	5.0	-	9	1.8	5.0	4.2
Haemophilus influenzae type b	0	1	0	0	0	0	0	0	1	0	1	7	4	5.8	0.7	-	14	17.4	0.8	-
Influenza (laboratory confirmed)	174	7,182	24	2,973	1,363	194	1,959	283	14,152	8,175	4,441	42,521	32,237	11,809.2	2.7	9,245.8	113,630	55,191.6	2.1	-
Measles	0	1	0	1	0	0	0	1	3	0	4	60	8	35.0	0.2	-	92	181.2	0.5	-
Mumps	0	4	5	15	0	0	0	0	24	37	25	429	187	86.0	2.2	-	657	375.0	1.8	-
Pertussis	9	221	3	77	34	1	53	60	458	445	588	7,279	2,891	3,653.2	0.8	-	16,393	19,950.8	0.8	-
Pneumococcal disease (invasive)	1	45	6	14	14	3	30	11	124	112	97	959	602	513.2	1.2	-	1,821	1,623.6	1.1	-
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	79	10	140	49	2	NN	9	NN	NN	NN	2,667	1,767	N/A	N/A	915.0	3,863	N/A	N/A	-
Rubella	0	2	0	0	0	0	0	0	2	1	2	10	4	6.6	0.6	-	14	25.0	0.6	-
Rubella congenital	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	-	0	0.8	0.0	-
Tetanus	0	0	0	0	1	0	0	0	1	0	0	4	1	0.6	1.7	-	6	4.0	1.5	-
Varicella zoster (chickenpox)**	5	NN	5	9	12	0	2	25	58	69	130	1,477	579	550.4	1.1	-	3,023	2,249.0	1.3	264.6
Varicella zoster (shingles)**	10	NN	11	0	54	0	7	57	139	171	267	4,440	1,705	1,403.6	1.2	-	7,765	5,425.8	1.4	431.3
Varicella zoster (unspecified)**	10	NN	0	449	1,032	19	2	97	1,609	297	605	10,258	4,828	2,920.2	1.7	732.5	16,785	11,645.8	1.4	790.8
<b>Vectorborne diseases</b>																				
Barmah Forest virus infection	0	4	0	9	0	0	0	2	15	18	10	276	148	402.2	0.4	-	369	1,626.6	0.2	-
Chikungunya virus infection	0	0	0	1	0	0	0	1	2	1	1	35	11	22.0	0.5	-	111	84.4	1.3	-
Dengue virus infection	1	9	2	2	0	0	0	9	23	19	89	704	196	476.6	0.4	-	1,319	1,738.0	0.8	-
Flavivirus infection (unspecified)	0	0	0	0	0	0	0	0	0	0	3	13	4	7.4	0.5	-	56	26.2	2.1	-
Japanese encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	2.5	-	1	1.8	0.6	-
Malaria	0	5	0	3	0	0	1	2	11	12	17	221	72	77.8	0.9	-	350	335.4	1.0	-
Murray Valley encephalitis virus infection	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	-	0	0.8	0.0	-
Ross River virus infection	0	14	4	71	2	2	5	11	109	108	46	6,348	1,551	1,027.0	1.5	-	7,190	5,449.4	1.3	-
West Nile/Kunjin virus infection	0	0	0	0	0	0	0	0	0	0	0	4	2	0.0	0.0	-	4	1.0	4.0	1.6
<b>Zoonoses</b>																				
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	0.0	0.0	-	0	0.2	0.0	-
Brucellosis	0	0	0	0	0	0	0	0	0	0	0	10	6	4.4	1.4	-	20	20.4	1.0	-
Leptospirosis	0	1	0	5	0	0	0	1	7	4	5	96	33	32.0	1.0	-	137	99.2	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	1	1	0	0	11	2	8.6	0.2	-	25	46.4	0.5	-
Q fever	0	4	0	3	0	0	0	0	7	18	19	290	105	118.8	0.9	-	532	478.0	1.1	-
Tularaemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-	0	0.2	0.0	-
<b>Other bacterial infections</b>																				
Legionellosis	0	3	0	2	0	1	1	1	8	7	15	230	103	105.6	1.0	-	375	408.4	0.9	-
Leprosy	0	0	0	0	0	0	0	0	0	1	0	4	2	3.4	0.6	-	15	12.2	1.2	-
Meningococcal disease (invasive)	0	3	0	0	3	0	2	1	9	22	10	168	74	47.4	1.6	-	309	186.2	1.7	63.4
Tuberculosis	1	12	0	8	0	0	7	7	35	48	52	722	301	292.4	1.0	-	1,381	1,307.8	1.1	23.2
	293	9,100	237	5,470	2,988	296	2,698	1,368	22,161	15,659	12,886	187,431	89,735				357,815			

**Footnotes:**

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\*\*SA notified a retrospective varicella dataset including data with diagnosis dates from 2012-2017 this fortnight.

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