



## Department of Health

### STATEWIDE NOTIFIABLE DISEASES WEEKLY REPORT

Epidemiology & Surveillance Program  
Communicable Disease Control Directorate

Report for eight week period 27-NOV-19 to 21-JAN-20

#### **GENERAL NOTES**

1. Data are extracted on a weekly basis from the Western Australian Notifiable Infectious Diseases Database (WANIDD).
2. Data are provisional only and are subject to change.
3. For enquiries please contact the Communicable Disease Control Directorate (9222 0255) or a regional Public Health Unit.

#### **SPECIFIC NOTES (numbers below refer to numbers in square brackets in tables)**

1. If a disease is not listed it indicates that no notifications have been received in the preceding 12 months.
2. "Date of Onset" is a composite of the "true" date of onset provided by the notifying doctor, the date of specimen collection for laboratory notified cases, and when neither of these dates are available, the date of notification by the doctor or laboratory, or the date of receipt of the notification, whichever is earliest.  
  
For blood-borne viruses (whether newly acquired or unspecified), leprosy, syphilis (non-infectious) and tuberculosis, data are provided by date of receipt at the PHU/CDCD.
3. Defined as mean of previous, comparable and subsequent 4-week periods for the past five years. For example, if the current 4-week period is April 2nd - 29th 2017, then this period is compared to the mean number of cases for fifteen 4-week intervals made up of March 5th - April 1st 2016, April 2nd - 29th 2016, and April 30th - May 27th 2016, and the corresponding periods for 2015, 2014, 2013 and 2012. That is, the comparison figure should represent an average expectation of the number of cases for a similar 4-week period of the year. For diseases that have been notifiable for less than 5 years, the mean figure for periods prior to the disease becoming notifiable will be 0.
4. Ratio = ratio of last 4 weeks total to mean of 15 four-week periods, as described in specific note 3.
5. Figures in parentheses are numbers of cases in corresponding period last year. If no figure appears, this indicates there were no cases.
6. Cumulative year-to-date rate. That is, total cases in the current year, divided by relevant population, expressed as cases per 100,000 population (crude notification rate). Population data are estimates based on Australian Bureau of Statistics population projection series 'B' for Western Australia using the Department of Health's Rates Calculator to derive regional populations.

Weekly surveillance reports can be accessed at:

[http://ww2.health.wa.gov.au/Articles/F\\_I/Infectious-disease-data/Statewide-notifiable-diseases-weekly-report](http://ww2.health.wa.gov.au/Articles/F_I/Infectious-disease-data/Statewide-notifiable-diseases-weekly-report)

## STATEWIDE notifications for past 8 weeks[1] (by date of onset[2])

Disease Category/Disease	Week Ending								Cumulative Total to end of week 3			Total Last 4 Weeks	Mean of 15 x 4 week periods[3]	Ratio [4]
	03/12	10/12	17/12	24/12	31/12	07/01	14/01	21/01	2020	2019	2018			
	<b>Blood-borne diseases[2]</b>													
Hepatitis B (newly acquired)			1	1		1			0	4	1	1	2.0	0.5
Hepatitis B (unspecified)	7	8	7	13	6	6	13	9	28	27	22	34	35.5	1.0
Hepatitis C (newly acquired)	1	10	1	2	1		3		3	5	8	4	9.2	0.4
Hepatitis C (unspecified)	16	23	13	22	5	11	14	13	38	39	56	43	70.7	0.6
Hepatitis D				1					0	0	0	0	0.3	0.0
<b>Enteric diseases</b>														
Campylobacteriosis	79	79	69	58	52	85	67	41	193	210	220	245	269.6	0.9
Cryptosporidiosis	3	5	4	5	5	18	10	8	36	6	9	41	23.1	1.8
Hepatitis A		1							0	4	0	0	2.0	0.0
Hepatitis E			1				1		1	2	0	1	0.3	3.8
Listeriosis									0	3	0	0	0.9	0.0
Paratyphoid fever		1		1					0	0	1	0	1.2	0.0
Rotavirus	11	10	14	12	4	6	4	3	13	8	24	17	27.1	0.6
STEC/VTEC infection	2	4	4	4	1	3	1	1	5	8	8	6	5.9	1.0
Salmonellosis	58	42	46	38	33	41	39	22	102	127	147	135	180.8	0.7
Shigellosis	9	9	8	5	5	9	8	12	29	47	29	34	19.5	1.7
Typhoid					1				0	1	2	1	1.7	0.6
Vibrio parahaemolyticus							1		1	3	3	1	2.2	0.5
Yersiniosis		2					1	1	2	0	1	2	0.9	2.1
<b>Sexually transmissible infections</b>														
Chlamydia (genital)	206	200	252	209	105	180	208	123	511	798	724	616	888.9	0.7
Gonorrhoea	74	88	86	66	51	90	98	21	209	287	202	260	248.7	1.0
Syphilis (congenital)									0	0	0	0	0.1	0.0
Syphilis - Infectious	10	13	12	9		15	8	10	33	34	21	33	26.0	1.3
Syphilis - Non-Infectious	11	2	4	4	3	3	10	3	16	10	12	19	11.1	1.7
<b>Vaccine preventable diseases</b>														
H. influenzae type b									0	0	0	0	0.1	0.0
Influenza	55	58	63	42	67	83	95	57	235	421	172	302	220.5	1.4
Measles						1	1		2	6	1	2	2.3	0.9
Mumps	1		1					1	1	2	3	1	16.5	0.1
Pertussis	8	11	15	16	6	7	10	3	20	50	87	26	117.1	0.2
Pneumococcal infection	1	7	3	1	3	2	2	1	5	8	13	8	8.8	0.9
Rubella (non-congenital)									0	0	0	0	0.0	0.0
Varicella (chicken pox)	17	14	22	10	7	11	11	1	23	32	25	30	38.7	0.8
Varicella (shingles)	57	38	43	34	35	52	36	7	95	122	142	130	146.8	0.9
Varicella (unspecified)	23	27	27	23	27	21	38	35	94	81	94	121	117.6	1.0
<b>Vector-borne diseases</b>														
Barmah Forest virus		1							0	2	2	0	2.1	0.0
Chikungunya					1				0	0	0	1	1.1	0.9
Dengue fever	8	7	5	7	2	2	9	1	12	18	13	14	32.4	0.4
Malaria	2		1	1		1	2	2	5	0	2	5	4.8	1.0
Ross River virus	3	5	5	1	2	8		3	11	36	44	13	75.6	0.2
Typhus	1	1	2		2	2	1		3	0	1	5	1.7	2.9
<b>Zoonotic diseases</b>														
Leptospirosis			1						0	1	0	0	0.4	0.0
Q Fever				1					0	1	1	0	0.6	0.0
<b>Other diseases</b>														
Acute post-streptococcal glomerulonephritis									0	1	1	0	1.0	0.0
Creutzfeldt-Jakob disease					2				0	0	0	2	0.3	6.0
Haemolytic Uraemic Syndrome									0	0	0	0	0.2	0.0
Legionellosis	1	1		1	1		2		2	2	3	3	3.9	0.8
Leprosy				1					0	0	0	0	0.3	0.0
Melioidosis								1	1	0	0	1	0.3	3.0
Meningococcal infection				1	1	1			1	1	3	2	2.1	1.0
Tuberculosis	6	3	4	7	2	1	1	3	5	4	1	7	10.1	0.7
<b>Grand Total</b>	<b>670</b>	<b>671</b>	<b>714</b>	<b>595</b>	<b>431</b>	<b>659</b>	<b>694</b>	<b>382</b>						

## METROPOLITAN notifications for past 8 weeks[1] (by date of onset[2])

Disease Category/Disease	Week Ending								Cumulative Total to end of week 3			Total Last 4 Weeks	Mean of 15 x 4 week periods[3]	Ratio [4]
	03/12	10/12	17/12	24/12	31/12	07/01	14/01	21/01	2020	2019	2018			
	<b>Blood-borne diseases[2]</b>													
Hepatitis B (newly acquired)			1			1			0	3	1	1	1.3	0.8
Hepatitis B (unspecified)	5	7	7	12	6	5	11	8	24	24	17	30	29.1	1.0
Hepatitis C (newly acquired)	1	9	1	2	1		3		3	5	7	4	7.3	0.6
Hepatitis C (unspecified)	12	14	9	16	5	5	9	11	25	27	35	30	51.8	0.6
Hepatitis D				1					0	0	0	0	0.3	0.0
<b>Enteric diseases</b>														
Campylobacteriosis	62	60	51	51	43	74	48	34	156	166	166	199	210.3	0.9
Cryptosporidiosis	3	1	4	5	2	15	9	8	32	2	3	34	15.5	2.2
Hepatitis A		1							0	4	0	0	1.7	0.0
Hepatitis E			1				1		1	2	0	1	0.3	3.8
Listeriosis									0	3	0	0	0.8	0.0
Paratyphoid fever		1		1					0	0	1	0	1.1	0.0
Rotavirus	10	8	11	10	4	5	4	2	11	8	19	15	23.3	0.6
STEC/VTEC infection	1	2	4	3	1	3		1	4	6	6	5	4.3	1.2
Salmonellosis	44	35	38	26	26	32	33	14	79	108	113	105	141.4	0.7
Shigellosis	6	7	5	4	2	6	6	8	20	30	6	22	8.6	2.6
Typhoid					1				0	1	2	1	1.6	0.6
Vibrio parahaemolyticus							1		1	3	3	1	2.1	0.5
Yersiniosis		2					1	1	2	0	1	2	0.9	2.3
<b>Sexually transmissible infections</b>														
Chlamydia (genital)	160	164	202	161	83	143	162	104	409	613	578	492	688.6	0.7
Gonorrhoea	48	62	66	45	38	69	64	15	148	204	135	186	166.5	1.1
Syphilis - Infectious	6	10	5	6		12	3	7	22	19	18	22	19.1	1.2
Syphilis - Non-Infectious	8	2	1	3	2	2	9	2	13	10	9	15	8.8	1.7
<b>Vaccine preventable diseases</b>														
H. influenzae type b									0	0	0	0	0.1	0.0
Influenza	50	51	47	34	57	65	82	52	199	309	144	256	168.6	1.5
Measles						1	1		2	4	1	2	1.9	1.1
Mumps	1		1					1	1	1	3	1	1.9	0.5
Pertussis	8	5	14	13	5	7	8	2	17	40	59	22	84.6	0.3
Pneumococcal infection		5	2		1	2	1		3	5	7	4	4.9	0.8
Rubella (non-congenital)									0	0	0	0	0.0	0.0
Varicella (chicken pox)	15	12	17	8	6	8	7	1	16	26	19	22	28.8	0.8
Varicella (shingles)	35	27	27	29	24	41	24	3	68	84	111	92	107.2	0.9
Varicella (unspecified)	21	26	22	22	24	20	33	31	84	78	89	108	109.9	1.0
<b>Vector-borne diseases</b>														
Barmah Forest virus									0	0	0	0	0.6	0.0
Chikungunya					1				0	0	0	1	0.9	1.2
Dengue fever	7	7	5	5	2	2	7	1	10	18	12	12	26.9	0.4
Malaria	2		1	1		1	2	2	5	0	2	5	4.2	1.2
Ross River virus	3	3	1		2	5		2	7	28	30	9	46.9	0.2
Typhus	1	1	2		1	2	1		3	0	1	4	1.1	3.7
<b>Zoonotic diseases</b>														
Leptospirosis			1						0	1	0	0	0.4	0.0
Q Fever									0	0	0	0	0.1	0.0
<b>Other diseases</b>														
Creutzfeldt-Jakob disease					2				0	0	0	2	0.2	10.0
Legionellosis	1			1			2		2	2	3	2	2.7	0.7
Leprosy				1					0	0	0	0	0.1	0.0
Melioidosis								1	1	0	0	1	0.1	7.5
Meningococcal infection				1		1			1	1	2	1	1.2	0.8
Tuberculosis	6	3	3	7	2	1	1	3	5	4	0	7	8.7	0.8
<b>Grand Total</b>	<b>516</b>	<b>526</b>	<b>548</b>	<b>468</b>	<b>342</b>	<b>527</b>	<b>533</b>	<b>314</b>						

## Notifications in last week and for last 4 weeks by REGION[1] (by date of onset[2])

Disease Category/Disease	Metropolitan area (North)			Metropolitan area (South)			Metropolitan area (East)		
	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]
<b>Blood-borne diseases[2]</b>									
Hepatitis B (newly acquired)								1 (2)	
Hepatitis B (unspecified)	2	9 (10)		3	9 (6)		3	12 (11)	
Hepatitis C (newly acquired)								4 (4)	
Hepatitis C (unspecified)	5	11 (5)		1	11 (14)		5	8 (13)	
<b>Enteric diseases</b>									
Campylobacteriosis	13	73 (78)		9	63 (72)		12	63 (63)	
Cryptosporidiosis	4	15 (4)			6 (2)		4	13 (3)	
Hepatitis E		1							
Rotavirus	1	6 (2)			6 (3)		1	3 (5)	
STEC/VTEC infection		1 (5)			1		1	3 (3)	
Salmonellosis	5	34 (61)		4	44 (20)		5	27 (47)	
Shigellosis	3	7 (4)		3	9 (12)		2	6 (21)	
Typhoid					1 (1)				
Vibrio parahaemolyticus					1 (2)				
Yersiniosis	1	1			1				
<b>Sexually transmissible infections</b>									
Chlamydia (genital)	25	144 (191)		34	165 (242)		45	183 (247)	
Gonorrhoea	3	47 (68)		5	60 (79)		7	79 (90)	
Syphilis - Infectious	1	7 (6)		3	6 (7)		3	9 (7)	
Syphilis - Non-Infectious	1	6 (4)			5 (3)		1	4 (3)	
<b>Vaccine preventable diseases</b>									
Influenza	18	103 (129)		14	68 (121)		20	85 (101)	
Measles		1 (1)			1 (3)				
Mumps	1	1 (1)							
Pertussis		8 (11)		2	12 (23)			2 (13)	
Pneumococcal infection					2 (1)			2 (2)	
Varicella (chicken pox)		7 (11)		1	10 (13)			5 (11)	
Varicella (shingles)		27 (41)		1	43 (43)		2	22 (28)	
Varicella (unspecified)	16	40 (33)		8	44 (44)		7	24 (20)	
<b>Vector-borne diseases</b>									
Chikungunya								1	
Dengue fever	1	5 (9)			2 (6)			5 (4)	
Malaria	1	1		1	1 (1)			3	
Ross River virus	1	3 (9)		1	4 (16)			2 (6)	
Typhus		1			1			2	
<b>Other diseases</b>									
Creutzfeldt-Jakob disease		1			1				
Legionellosis					2 (1)				
Melioidosis							1	1	
Meningococcal infection								1	
Tuberculosis	1	3 (6)					2	4 (2)	
<b>Grand Total</b>	<b>103</b>	<b>563 (689)</b>		<b>90</b>	<b>579 (735)</b>		<b>121</b>	<b>574 (706)</b>	

## Notifications in last week and for last 4 weeks by REGION[1] (by date of onset[2])

Disease Category/Disease	Southwest			Great Southern			Coastal and Wheatbelt		
	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]
<b>Blood-borne diseases[2]</b>									
Hepatitis B (newly acquired)									
Hepatitis B (unspecified)								1	
Hepatitis C (newly acquired)									
Hepatitis C (unspecified)	1	1 (5)			1 (1)			3 (3)	
<b>Enteric diseases</b>									
Campylobacteriosis	2	22 (25)			2 (8)			4 (4)	
Cryptosporidiosis		2 (2)			1 (1)				
Hepatitis E									
Rotavirus	1	2							
STEC/VTEC infection								1	
Salmonellosis	3	8 (6)		1	2 (2)			3 (5)	
Shigellosis									
Typhoid									
Vibrio parahaemolyticus									
Yersiniosis									
<b>Sexually transmissible infections</b>									
Chlamydia (genital)	6	31 (54)		3	10 (4)		2	10 (11)	
Gonorrhoea	3	19 (18)		1	2 (1)		1	3 (1)	
Syphilis - Infectious									
Syphilis - Non-Infectious	1	1							
<b>Vaccine preventable diseases</b>									
Influenza	1	9 (20)			4 (26)			3 (6)	
Measles									
Mumps									
Pertussis		2 (4)						1 (1)	
Pneumococcal infection		1 (1)							
Varicella (chicken pox)		2 (4)						1	
Varicella (shingles)	2	19 (19)		2	7 (7)			2 (2)	
Varicella (unspecified)	1	1 (1)			2 (1)			2	
<b>Vector-borne diseases</b>									
Chikungunya									
Dengue fever		1 (1)							
Malaria									
Ross River virus	1	2 (4)			1 (2)				
Typhus									
<b>Other diseases</b>									
Creutzfeldt-Jakob disease									
Legionellosis		1							
Melioidosis									
Meningococcal infection									
Tuberculosis									
<b>Grand Total</b>	<b>22</b>	<b>124 (164)</b>		<b>7</b>	<b>32 (53)</b>		<b>3</b>	<b>34 (33)</b>	

## Notifications in last week and for last 4 weeks by REGION[1] (by date of onset[2])

Disease Category/Disease	Midwest			Goldfields			Pilbara		
	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]
<b>Blood-borne diseases[2]</b>									
Hepatitis B (newly acquired)									
Hepatitis B (unspecified)								2	
Hepatitis C (newly acquired)									
Hepatitis C (unspecified)		2 (1)		1	3			1 (1)	
<b>Enteric diseases</b>									
Campylobacteriosis	1	5 (2)		1	3 (3)		1	4 (4)	
Cryptosporidiosis								4	
Hepatitis E									
Rotavirus									
STEC/VTEC infection									
Salmonellosis	3	5 (1)			2 (2)		1	4 (2)	
Shigellosis	1	3			1 (3)		1	1 (4)	
Typhoid									
Vibrio parahaemolyticus									
Yersiniosis									
<b>Sexually transmissible infections</b>									
Chlamydia (genital)		10 (22)		3	15 (31)			17 (28)	
Gonorrhoea		4 (3)			8 (14)			15 (23)	
Syphilis - Infectious								5 (6)	
Syphilis - Non-Infectious								1	
<b>Vaccine preventable diseases</b>									
Influenza	3	7 (16)			5 (8)			3 (11)	
Measles									
Mumps									
Pertussis				1	1				
Pneumococcal infection	1	1 (1)							
Varicella (chicken pox)		2 (1)			2 (1)				
Varicella (shingles)					4 (6)			4 (4)	
Varicella (unspecified)		1					1	3	
<b>Vector-borne diseases</b>									
Chikungunya									
Dengue fever									
Malaria									
Ross River virus		1							
Typhus									
<b>Other diseases</b>									
Creutzfeldt-Jakob disease									
Legionellosis									
Melioidosis									
Meningococcal infection		1							
Tuberculosis									
<b>Grand Total</b>	<b>9</b>	<b>42 (47)</b>		<b>6</b>	<b>44 (68)</b>		<b>4</b>	<b>64 (83)</b>	

## Notifications in last week and for last 4 weeks by REGION[1] (by date of onset[2])

Disease Category/Disease	Kimberley			STATE TOTAL		
	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]	Last Week	Last 4 Weeks[5]	Cum. YTD Rate[6]
<b>Blood-borne diseases[2]</b>						
Hepatitis B (newly acquired)				0	1 (4)	0.0
Hepatitis B (unspecified)	1	1		9	34 (30)	0.0
Hepatitis C (newly acquired)				0	4 (7)	0.0
Hepatitis C (unspecified)		1		13	43 (45)	0.0
<b>Enteric diseases</b>						
Campylobacteriosis	1	4 (6)		41	245 (272)	0.0
Cryptosporidiosis				8	41 (13)	0.0
Hepatitis E				0	1 (2)	0.0
Rotavirus				3	17 (11)	0.0
STEC/VTEC infection				1	6 (10)	0.0
Salmonellosis		3 (5)		22	135 (153)	0.0
Shigellosis	2	7 (12)		12	34 (59)	0.0
Typhoid				0	1 (1)	0.0
Vibrio parahaemolyticus				0	1 (5)	0.0
Yersiniosis				1	2 (0)	0.0
<b>Sexually transmissible infections</b>						
Chlamydia (genital)	3	20 (47)		123	616 (890)	0.0
Gonorrhoea		17 (28)		21	260 (332)	0.0
Syphilis - Infectious	2	4 (6)		10	33 (37)	0.0
Syphilis - Non-Infectious		1		3	19 (11)	0.0
<b>Vaccine preventable diseases</b>						
Influenza		3 (53)		57	302 (501)	0.0
Measles				0	2 (7)	0.0
Mumps				1	1 (2)	0.0
Pertussis				3	26 (58)	0.0
Pneumococcal infection		1 (1)		1	8 (9)	0.0
Varicella (chicken pox)				1	30 (43)	0.0
Varicella (shingles)				7	130 (161)	0.0
Varicella (unspecified)	1	1		35	121 (101)	0.0
<b>Vector-borne diseases</b>						
Chikungunya				0	1 (0)	0.0
Dengue fever				1	14 (20)	0.0
Malaria				2	5 (1)	0.0
Ross River virus				3	13 (39)	0.0
Typhus		1		0	5 (0)	0.0
<b>Other diseases</b>						
Creutzfeldt-Jakob disease				0	2 (0)	0.0
Legionellosis				0	3 (2)	0.0
Melioidosis				1	1 (0)	0.0
Meningococcal infection				0	2 (3)	0.0
Tuberculosis				3	7 (8)	0.0
<b>Grand Total</b>	<b>10</b>	<b>64 (158)</b>		<b>382</b>	<b>2166 (2848)</b>	

## Statewide Salmonella notifications for past 8 weeks (by date of onset[2])

	Week Ending								Cumulative Total to end of Week 3	
	03/12	10/12	17/12	24/12	31/12	07/01	14/01	21/01	2020	2019
	<b>Salmonella Total</b>	<b>58</b>	<b>42</b>	<b>46</b>	<b>38</b>	<b>33</b>	<b>41</b>	<b>39</b>	<b>22</b>	<b>102</b>
<b>Serotype/Phage</b>										
Salmonella Adelaide							1		1	0
Salmonella Agona	1			1					0	1
Salmonella Anatum		1		3					0	1
Salmonella Anatum var 15+	1			1					0	0
Salmonella Bareilly							1		1	0
Salmonella Bovismorbificans		1							0	1
Salmonella Chailey							1		1	0
Salmonella Chester					1	1			1	3
Salmonella Choleraesuis bv Australia			1			4			4	0
Salmonella Choleraesuis bv Decatur	1	1	1		1	1		1	2	1
Salmonella Eastbourne			1						0	0
Salmonella Enteritidis	2	3	5	1		2	3	2	7	15
Salmonella Infantis	1					1			1	0
Salmonella Javiana			1						0	1
Salmonella Johannesburg	1								0	0
Salmonella Kentucky					1				0	1
Salmonella Mbandaka	1					1			1	0
Salmonella Muenchen	1		6	3			1		1	0
Salmonella Muenster			1						0	0
Salmonella Newport	1	3	1	2	1			2	2	1
Salmonella Ohio	1								0	0
Salmonella Orientalis			1						0	0
Salmonella Paratyphi B bv Java	1	1	1	3	1	5			5	7
Salmonella Pomona					1				0	0
Salmonella Potsdam						1			1	0
Salmonella Reading	1		1	1	1		1		1	0
Salmonella Richmond					1				0	0
Salmonella Rissen	1					1			1	0
Salmonella Saintpaul	2	2			2		3	1	4	3
Salmonella Schwarzengrund					2				0	2
Salmonella Senftenberg	1	1	1						0	0
Salmonella Singapore	1			1			1		1	1
Salmonella Stanley		1		3	2		1		1	2
Salmonella Typhimurium	32	25	18	16	15	14	14	5	33	64
Salmonella Virchow	1					1	1		2	3
Salmonella Waycross							1		1	0
Salmonella Weltevreden	2					2			2	0
Salmonella species	5	3	7	3	4	7	10	11	28	6