

MONTHLY NOTIFIABLE DISEASE SURVEILLANCE REPORT

Data contained within this monthly report is based on information recorded on EpiSurv by Public Health Service (PHS) staff at 11 April 2018. Changes made to EpiSurv data after this date will not be reflected in this report. The results presented may be updated and should be regarded as provisional.

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1. Key notifiable disease trends

Cryptosporidiosis

- 206 notifications in March 2018, a significant increase from the same month in 2017 (49 cases). Almost half of the cases were reported from the Auckland region (102 cases, 49.5%). No outbreaks were reported.

Dengue fever

- 40 notifications in March 2018, a significant increase from the same month in 2017 (8 cases) (Figure 1). The majority of cases had travelled to Tonga, Fiji and Samoa where there are currently outbreaks of dengue fever (Denv-2).

Invasive pneumococcal disease

- 46 notifications in March 2018, a significant increase from the same month in 2017 (21 cases). The highest number of cases were reported from the Auckland region (14 cases, 30.4%). Adults aged 70 years and over (13 cases) and 50–59 years (10 cases) had the highest number of cases. Thirty-one cases were hospitalised and one death was reported (Table 1).

Mumps

- 98 notifications in March 2018, a significant increase from the same month in 2017 (22 cases) (Figure 2). The majority of cases were aged 20–29 years (62.2%, 61 cases) and had unknown vaccination status. The highest number of cases were reported from the Auckland region (38 cases, 38.8%), Southern (30 cases, 30.6%), and Lakes (20 cases, 20.4%) where there are current outbreaks.

Pertussis

- 310 notifications in March 2018, a significant increase from the same month in 2017 (109 cases) (Figure 3).

From 1 January–31 March 2018, the highest rates were in the <1 year (105.7 per 100,000) and 1–4 years (74.2) age groups. A national outbreak is ongoing. A fortnightly pertussis report is published here: <https://surv.esr.cri.nz/surveillance/PertussisRpt.php>.

VTEC/STEC

- 127 notifications in March 2018, a significant increase from the same month in 2017 (85 cases) (Figure 4). This increase has been ongoing since early 2016 and is partly due to changes in laboratory testing practices, with increasingly sensitive assays used for the detection of STEC.

Yersiniosis

- 118 notifications in March 2018, a significant increase from the same month in 2017 (82 cases). This increase is partly due to changes in laboratory testing practices since mid-2017, with increasingly sensitive assays used for the detection of *Yersinia*, although this does not account for all of the increase.

2. Deaths from notifiable diseases

Four deaths from a notifiable disease were reported in March 2018 (Table 1).

Table 1. Summary of deaths from notifiable diseases reported during March 2018

Disease	District health board	Age group (years)
Invasive pneumococcal disease	Wairarapa	50–59
Listeriosis	Southern	70+
Meningococcal disease	Auckland	<1
Meningococcal disease	Taranaki	10–14

3. Outbreaks

During March 2018, a total of 47 outbreaks (23 final and 24 interim) were created in EpiSurv (Table 2 and Table 3).

There were 43 outbreaks of gastroenteritis (21 finalised and 22 interim) involving 532 cases in total. Thirteen gastroenteritis outbreaks were due to norovirus. The exposure setting was recorded for 31 (72.1%) gastroenteritis outbreaks. The most commonly reported settings were childcare centres and long term care facilities (12 outbreaks each).

Table 2. Summary of final outbreaks created in EpiSurv during March 2018

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases
Gastroenteritis (organism not specified)	Waikato, Bay of Plenty, Whanganui, Wairarapa, Nelson Marlborough, Canterbury	12	188
Norovirus	Waitemata, Waikato, Taranaki, MidCentral, Capital & Coast, Wairarapa	9	180
VTEC/STEC	Counties Manukau	1	2
<i>Yersinia</i>	Bay of Plenty	1	6
Total		23	376

¹ Includes outbreak reported to PHSs prior to March 2018: gastroenteritis (3) reported in February.

Table 3. Summary of interim outbreaks created in EpiSurv during March 2018

Organism/Toxin/Illness	DHB(s) where exposure occurred	Number of outbreaks	Total number of cases ¹
<i>Campylobacter</i>	MidCentral	1	3
Gastroenteritis (organism not specified)	Waitemata, Auckland, Counties Manukau, Waikato, Lakes, Taranaki, MidCentral, Capital & Coast, Nelson Marlborough, Canterbury, Southern	18	44
Mumps virus	Southern	1	4
Norovirus	Auckland, Nelson Marlborough, Canterbury	4	120
Total		24	171

¹ Interim outbreak(s) where total number of cases had not been completed.

4. Trends in selected diseases to March 2018

Figure 1. Dengue fever virus notifications by month, January 2010–March 2018

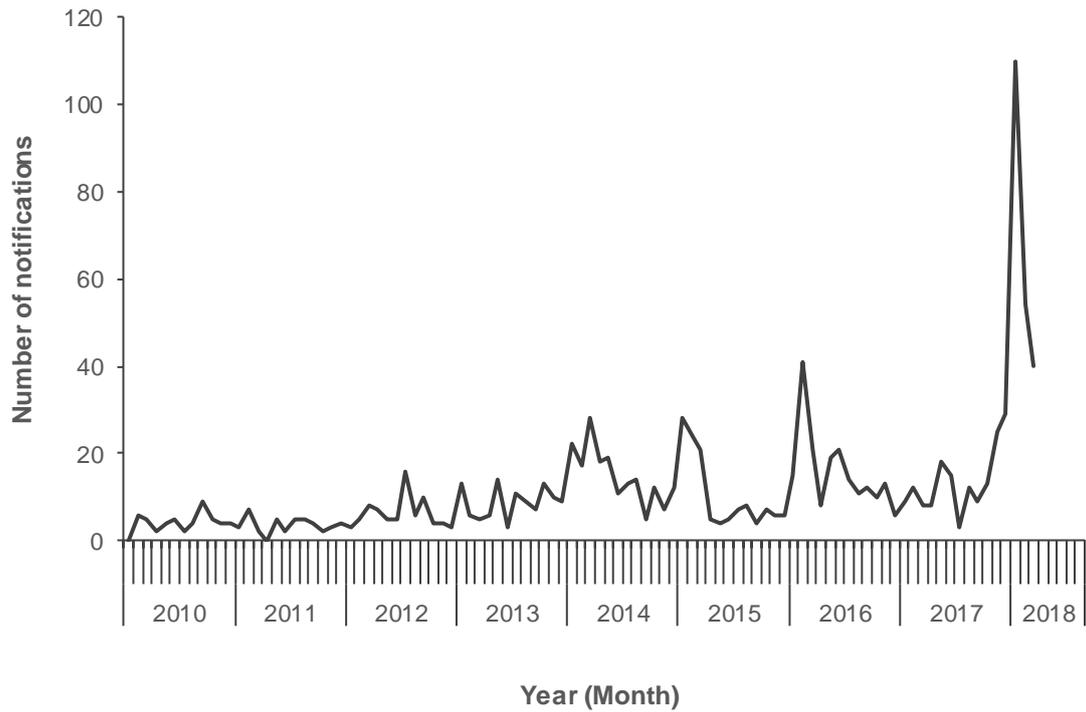


Figure 2. Mumps virus notifications by month, January 2010–March 2018

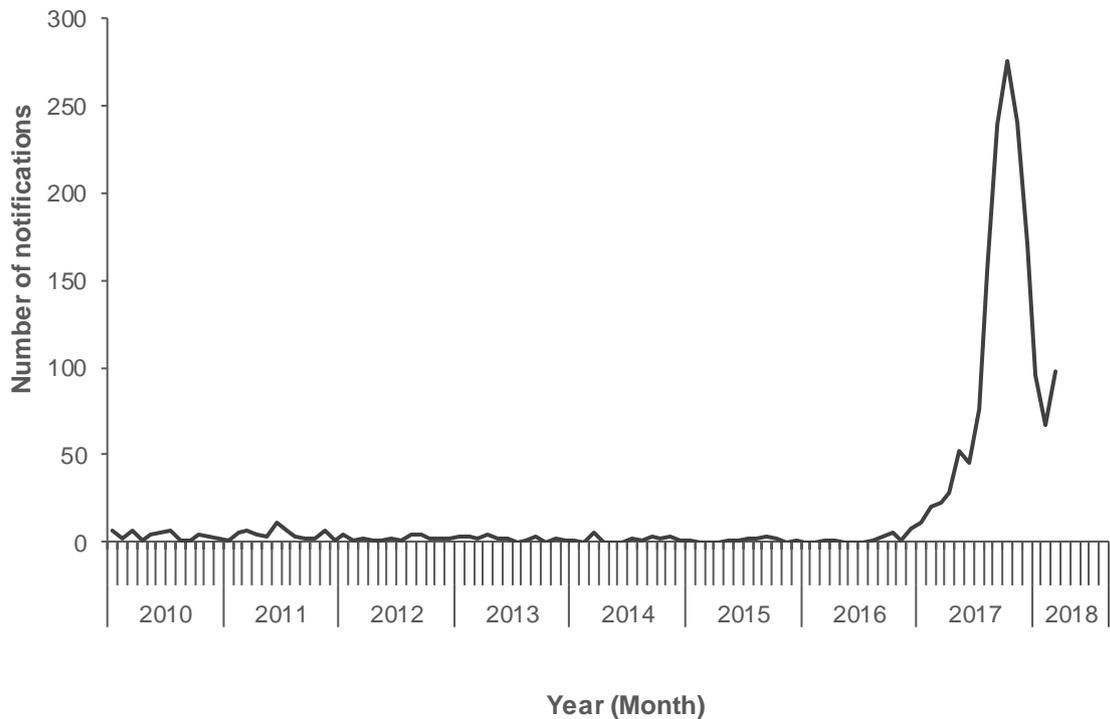


Figure 3. Pertussis notifications by month, January 2010–March 2018

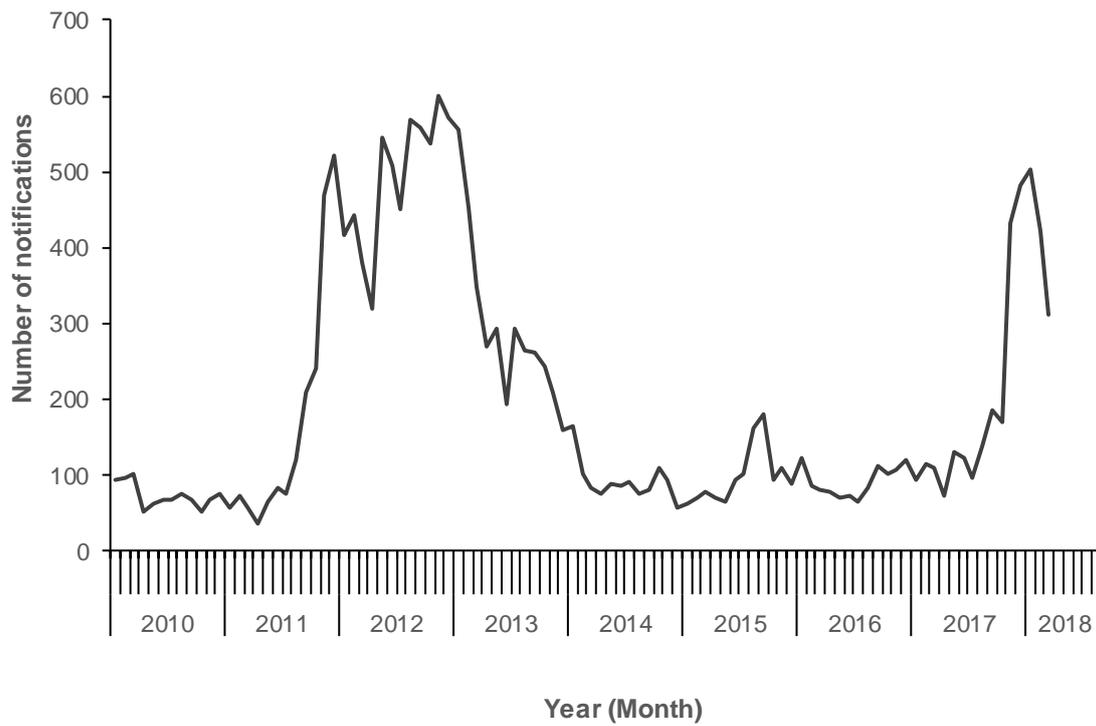
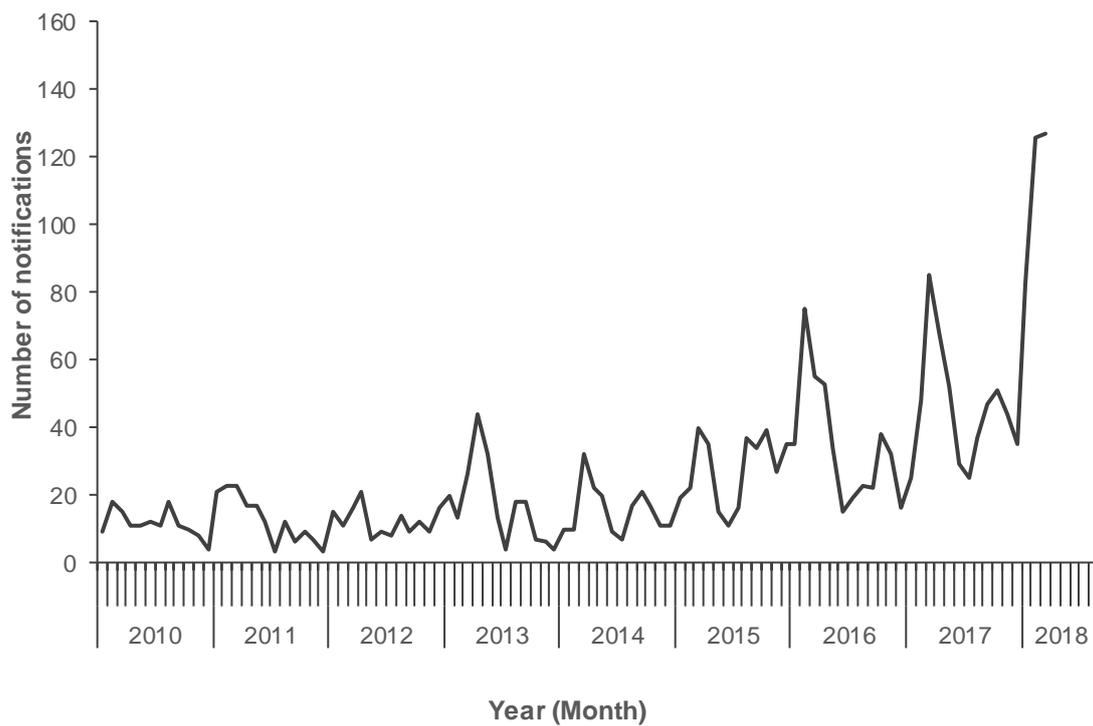


Figure 4. VTEC/STEC notifications by month, January 2010–March 2018



5. Data tables

National Notifiable Disease Surveillance Data March 2018

Disease	Current Year - 2018 ¹			Previous 12 month rate - 2017		
	March 2018 Cases	Cumulative total since 1 January	Current 12 Month Rate ²	March 2017 Cases	Cumulative total since 1 January	Current 12 Month Rate ²
Campylobacteriosis	488	1727	137.9	426	1597	159
Cryptosporidiosis	206	462	31.6	49	141	22.8
Dengue fever	40	205	7	8	29	3
Gastroenteritis ³	30	76	6.5	30	87	10.1
Giardiasis	184	496	35.9	162	421	32.8
Haemophilus influenzae type b	0	1	0.1	0	0	0
Hepatitis A	9	26	1.4	2	19	1
Hepatitis B ⁴	7	13	0.7	0	7	0.8
Hepatitis C ⁴	7	19	0.7	2	7	0.6
Invasive pneumococcal disease	46	97	11.3	21	77	10.6
Legionellosis	20	82	4.8	19	71	5
Leptospirosis	12	28	2.9	13	29	2.2
Listeriosis	2	5	0.5	2	3	0.6
Malaria	1	10	0.8	5	12	0.6
Measles	6	12	0.4	2	10	2.3
Meningococcal disease	12	22	2.5	7	13	1.7
Mumps	98	260	32.2	22	53	1.5
Paratyphoid fever	5	9	1	4	10	0.7
Pertussis	310	1235	63.8	109	315	23.9
Rheumatic fever ⁵	16	51	3.5	18	40	3.2
Rickettsial disease	0	0	0.1	0	1	0.1
Salmonellosis	117	333	23.6	114	319	22.6
Shigellosis	21	78	5.6	19	54	4
Tuberculosis disease	24	67	6.3	23	76	6.4
Typhoid fever	7	21	1.2	15	23	1
VTEC/STEC infection	127	336	15.1	85	158	8.7
Yersiniosis	118	349	21.9	82	217	19.8

¹ These data are provisional.

² Rate is based on the cumulative total for the current year (12 months up to and including March 2018) or the previous year (12 months up to and including March 2017), expressed as cases per 100 000. This includes cases still under investigation.

³ Cases of gastroenteritis from a common source or foodborne intoxication.

⁴ Only acute cases of this disease are currently notifiable.

⁵ Numbers are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.

Other notifiable infectious disease reported in March: Cholera (1), Cronobacter species (1), Hepatitis NOS (3), Zika virus (1)

Notifiable Disease Surveillance Data by District Health Board March 2018

		Cases ¹ and current rate ² for March 2018 by District Health Board ³																			
Disease		Northland	Waitemata	Auckland	Counties Manukau	Waikato	Lakes	Bay of Plenty	Tairāhiti	Taranaki	Hawke's Bay	Wairarapa	MidCentral	Hutt Valley	Capital and Coast	Wairarapa	Nelson Marlborough	West Coast	Canterbury	South Canterbury	Southern
Campylobacteriosis	Cases	14	51	60	43	32	10	17	4	18	19	5	22	13	42	6	11	4	52	13	52
	Rate	148.8	133.5	108.9	87.4	137.5	139.2	99.6	125.8	199.8	178.8	146.6	147.2	110.2	115.4	182	137.8	196.9	151.1	250	231.3
Cryptosporidiosis	Cases	5	33	29	40	8	1	7	1	4	10	0	10	16	29	1	2	0	7	0	3
	Rate	34.8	25.1	25.4	38.2	30.8	21.2	21.6	49.5	25.4	23.2	25	44.2	23.7	33.9	56.2	55.1	12.3	25.4	65.4	43.8
Dengue fever	Cases	0	6	8	11	5	0	0	0	0	0	0	0	0	1	0	2	0	5	0	2
	Rate	2.9	8.6	12.4	20.3	5.6	1.8	3.9	2.1	1.7	1.8	3.1	1.7	2.7	4.2	0	4	0	5.3	3.4	1.5
Gastroenteritis	Cases	2	1	0	0	1	0	0	0	0	0	0	1	0	6	0	1	0	17	0	1
	Rate	13.1	3.1	7.4	2.7	2.2	6.5	3.9	2.1	0	1.2	18.7	17.6	14.2	17.9	2.2	2	18.5	7.8	1.7	3.7
Giardiasis	Cases	6	23	31	19	15	6	14	6	3	6	1	2	9	11	4	4	1	16	4	3
	Rate	43.9	34.7	46.6	30.2	39.6	36.9	50.5	92.8	21.2	39.7	28.1	21	21.6	34.5	76.4	33.6	15.4	30.6	52	27.4
Haemophilus influenzae type b	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0.6	0	0.2	0	0.2	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0.3
Hepatitis A	Cases	0	1	3	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2
	Rate	1.7	1.2	2.7	2.9	2	0	0	0	0	0	0	2.3	0	0.6	2.2	1.3	0	0.7	0	1.2
Hepatitis B	Cases	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
	Rate	0.6	0.7	0.6	0.9	0.2	0	0	2.1	0	1.2	0	0	0	0.3	0	2.7	0	0.7	1.7	1.9
Hepatitis C	Cases	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	3
	Rate	1.7	0	0.8	0	0	0	0	0	2.5	0	0	0.6	0	0.3	0	4	0	1.3	1.7	2.2
Invasive pneumococcal	Cases	2	5	4	5	5	0	1	1	3	1	2	2	0	3	1	2	2	2	1	4
	Rate	14.3	8.9	7.8	14.6	11.3	15.7	18.1	10.3	13.5	14.6	20.3	9.1	9.5	11.8	20.2	8.7	24.6	7.1	8.4	11.7
Legionellosis	Cases	1	6	6	3	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	Rate	9.1	4.6	3.6	4	1.5	3.7	7.8	0	1.7	0.6	1.6	2.3	2.7	0.6	0	2.7	3.1	13.4	5	7.1
Leptospirosis	Cases	1	0	0	1	3	0	1	1	1	0	0	0	0	0	0	1	1	1	0	1
	Rate	4.6	1.2	0.2	0.5	12.2	2.8	1.7	4.1	3.4	7.9	12.5	4	0.7	0	6.7	4.7	9.2	1.6	1.7	1.2
Listeriosis	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	Rate	1.1	0.2	0.6	0.7	0.2	0	1.3	0	0	0.6	1.6	0.6	0	0.3	0	2	0	0	1.7	0.3
Malaria	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	1.7	0.8	1.7	0.7	0.7	0.9	0	0	0.8	0.6	0	0	2	1.6	0	0.7	0	0.5	0	0.3
Measles	Cases	1	2	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	0.6	0.3	0.4	0.2	0	0	0.9	0	0	0	0	0.6	0.7	0.3	0	0	0	0.9	1.7	0
Meningococcal disease	Cases	0	1	3	0	0	0	2	0	1	0	0	0	0	0	0	0	0	1	0	4
	Rate	2.3	2.3	2.1	3.3	2	2.8	5.6	0	1.7	3.1	4.7	1.1	1.4	2.6	2.2	0	6.2	2.7	0	3.1
Mumps	Cases	2	11	14	13	0	20	3	0	0	0	1	0	2	0	0	1	1	0	0	30
	Rate	21.1	51.2	68.8	95.3	19.3	29.5	4.3	4.1	7.6	1.8	12.5	7.4	6.8	7.7	0	12.8	3.1	3.6	0	26.5
Paratyphoid fever	Cases	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	Rate	0	1.2	2.1	0.7	0.2	0	0.9	4.1	0.8	6.1	0	0	0	1.3	0	0.7	0	0.4	0	0.3
Pertussis	Cases	16	25	18	18	27	15	32	2	0	4	0	5	3	33	13	46	26	18	6	3
	Rate	62.1	42.7	46.8	34.2	80.5	81.1	108.7	43.3	31.3	89.1	28.1	29.4	54.8	61.4	96.6	276.2	147.7	48.8	43.6	76.2
Q fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rheumatic fever ⁴	Cases	1	1	4	8	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	Rate	7.4	2.5	5	11.3	4.2	1.8	1.7	6.2	0	2.4	1.6	0.6	3.4	2.2	0	0	0	0.7	0	0.9
Rickettsial disease	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0
Rubella	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmonellosis	Cases	7	9	7	11	10	3	5	1	2	5	1	3	4	10	1	2	1	21	2	12
	Rate	31.9	18	20.6	14.6	26.4	21.2	19.8	39.2	28.8	18.9	15.6	21	14.2	24.3	29.2	16.8	18.5	35.2	41.9	34.5
Shigellosis	Cases	0	0	4	4	2	0	0	0	2	0	0	0	1	5	0	2	0	1	0	0
	Rate	3.4	6.9	12.8	9.1	3.2	1.8	3	2.1	3.4	6.7	3.1	0.6	6.8	6.7	0	2	3.1	2.9	0	3.4
Tuberculosis disease	Cases	2	3	0	3	3	1	0	0	1	0	0	0	4	0	2	0	3	0	2	2
	Rate	2.9	5.4	10.3	10.8	7.6	3.7	4.7	2.1	1.7	5.5	1.6	6.2	6.1	6.1	9	5.4	0	5.8	1.7	2.5
Typhoid fever	Cases	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1
	Rate	0	1	1.5	4.9	0.7	2.8	0	0	0	0	0	0.6	0	0.6	0	0.7	0	0.4	0	1.2
Viral Haemorrhagic Fever	Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Rate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VTEC/STEC infection	Cases	7	7	14	19	6	1	2	1	0	7	0	1	6	13	3	12	0	0	3	25
	Rate	41.6	14.7	13	13.7	8.6	9.2	10.8	4.1	10.2	14	7.8	2.8	10.1	11.8	15.7	20.8	3.1	4.9	20.1	53
Yersiniosis	Cases	2	10	14	9	6	9	8	0	2	3	0	3	5	13	1	7	0	17	2	7
	Rate	10.3	22.1	21.8	13.5	13.7	27.6	25	10.3	19.5	24.4	18.7	11.3	29.1	29.4	47.2	16.8	9.2	35	35.2	21

¹ These data are provisional.

² Current rate is based on the cumulative total for the 12 months up to and including March 2018 expressed as cases per 100 000. This includes cases still under investigation.

³ Further data are available from the local Medical Officer of Health.

⁴Rates are based on report date. This may not be a good indicator of newly incident cases as a high proportion of notifications have substantial reporting delays.