

## 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 May 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.

### TABLE OF CONTENTS

|  |   |
|--|---|
| 1. Key notifiable disease trends             | 1 |
| 2. Deaths from notifiable diseases           | 2 |
| 3. Outbreaks                                 | 2 |
| 4. Trends in selected diseases to April 2018 | 3 |
| 5. Data tables                               | 5 |

#### 1. Key notifiable disease trends

##### Hepatitis A

- 10 cases (9 confirmed and 1 under investigation) were notified in April 2018 compared with 2 cases notified in April 2017. One case was hospitalised. The majority of cases were reported from Southern DHB (7 cases, 70.0%), and were linked to an outbreak at a childcare centre.

##### Measles

- 17 confirmed cases notified in April 2018 (Figure 1). All but 2 cases were linked to a measles outbreak associated with Queenstown and Christchurch airports. The genotype was reported as B3. This strain was introduced into Victoria, Australia, from Malaysia in early March 2018.

##### Meningococcal disease

- 8 confirmed cases notified in April 2018, a non-significant increase from the same month in 2017 (5 confirmed cases). The strain types were identified as group W (4 cases), group B (2 cases, including one case of B:P1.7-2,4, previously known as the 'NZ epidemic strain'), and group C (2 cases). There have been 29 confirmed cases notified for the period ending 30 April, 2018, compared with 18 confirmed cases notified for the same period in 2017, a non-significant increase. Nine of these cases were identified as group W compared with 1 group W case notified for the same period in 2017, a significant increase. A marked increase in group W cases has been reported in Australia since 2014 and in the United Kingdom since 2012. More information can be found here: [https://surv.esr.cri.nz/surveillance/NZPHSR.php?we\\_objectID=4729](https://surv.esr.cri.nz/surveillance/NZPHSR.php?we_objectID=4729).

## Mumps

- 52 cases (19 confirmed, 31 probable and 2 under investigation) were notified in April 2018 compared with 28 cases notified in April 2017. The majority were notified in the Auckland region where there has been an outbreak since September 2016. Mumps notifications have continued to decrease since the peak in October 2017 (276 cases) (Figure 2).

## Pertussis

- 171 cases (93 confirmed, 64 probable, 4 suspect and 10 under investigation) notifications in April 2018 compared with 307 in March 2018 (Figure 3). From January to April 2018 the highest rates were in the <1 year (125.5 per 100,000) and 1–4 years (79.9 per 100,000) age groups. A national outbreak is ongoing. A fortnightly pertussis report is published here: <https://surv.esr.cri.nz/surveillance/PertussisRpt.php>.

## 2. Deaths from notifiable diseases

Two deaths from a notifiable disease were reported in April 2018 (Table 1).

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

| Disease                       | District health board | Age group (years) |
|-------------------------------|-----------------------|-------------------|
| Invasive pneumococcal disease | Hutt Valley           | 50–59             |
| Listeriosis                   | Canterbury            | 70+               |

## 3. Outbreaks

During April 2018, a total of 39 outbreak reports (13 final and 26 interim) were created in EpiSurv (Table 2 and Table 3).

There were 31 outbreaks of gastroenteritis (11 finalised and 20 interim) involving 286 cases in total. Five gastroenteritis outbreaks were due to norovirus and one was due to *Cyanobacteria*. The exposure setting was recorded for 23 (74.2%) gastroenteritis outbreaks. The most commonly reported settings were childcare centres (10 outbreaks) and long term care facilities (7 outbreaks).

**Table 2. Summary of final outbreak reports in EpiSurv during April 2018**

| Organism/Toxin/Illness                   | DHB(s) where exposure occurred                        | Number of outbreaks | Total number of cases |
|--|---|---------------------|-----------------------|
| <i>Cyanobacteria</i>                     | Lakes   | 1                   | 18                    |
| Gastroenteritis (organism not specified) | Auckland, Waikato, Nelson Marlborough                 | 5                   | 51                    |
| <i>Giardia</i>                           | Waitemata   | 1                   | 4                     |
| Norovirus                                | Bay of Plenty, Taranaki, Canterbury, South Canterbury | 5                   | 147                   |
| <i>Salmonella</i> <sup>1</sup>           | Southern  | 1                   | 2                     |
| <b>Total</b>                             |   | <b>13</b>           | <b>222</b>            |

<sup>1</sup> Includes outbreak reported to PHSs prior to March 2018: *Salmonella* (1) reported in March.

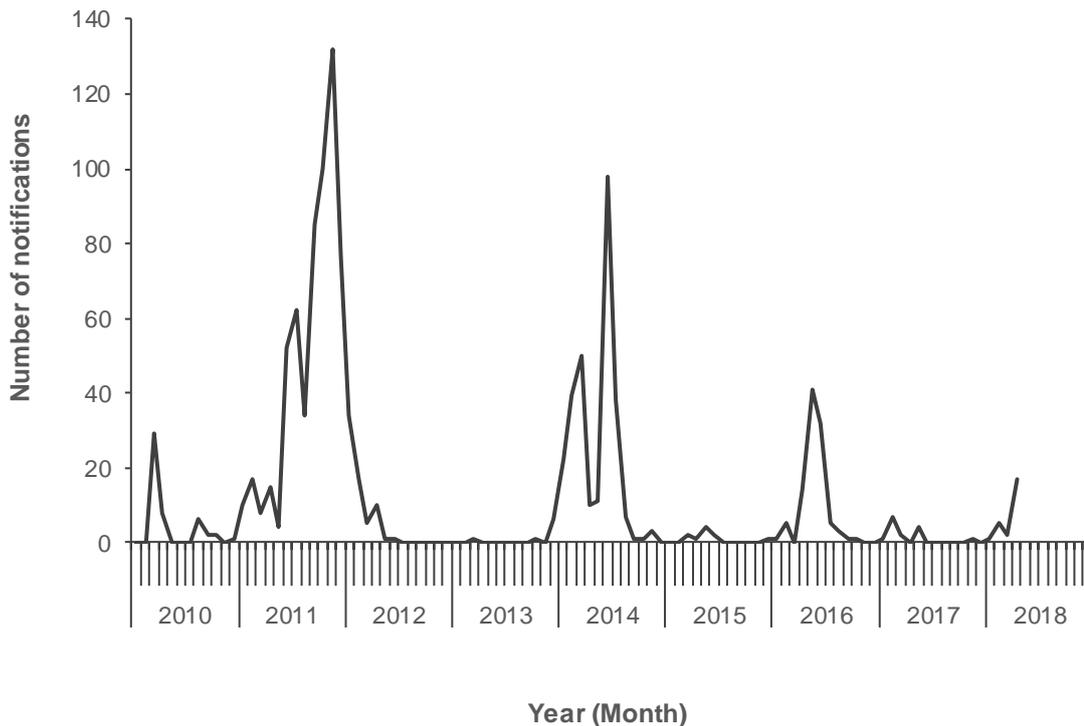
**Table 3. Summary of interim outbreak reports in EpiSurv during April 2018**

| Organism/Toxin/Illness                   | DHB(s) where exposure occurred  | Number of outbreaks | Total number of cases <sup>1</sup> |
|--|---|---------------------|------------------------------------|
| <i>Cryptosporidium</i>                   | Hutt Valley   | 1                   | 3                                  |
| Gastroenteritis (organism not specified) | Waitemata, Auckland, Counties Manukau, Waikato, Taranaki, Hutt Valley, Capital & Coast, Wairarapa, Nelson Marlborough, Canterbury, Southern | 20                  | 70                                 |
| <i>Giardia</i>                           | Capital & Coast   | 1                   | 2                                  |
| Hepatitis A virus                        | Southern  | 1                   | 9                                  |
| Measles virus                            | Canterbury  | 1                   | 3                                  |
| Mumps virus                              | Canterbury  | 1                   | 3                                  |
| VTEC/STEC infection                      | Wairarapa   | 1                   | 2                                  |
| <b>Total</b>                             |   | <b>26</b>           | <b>92</b>                          |

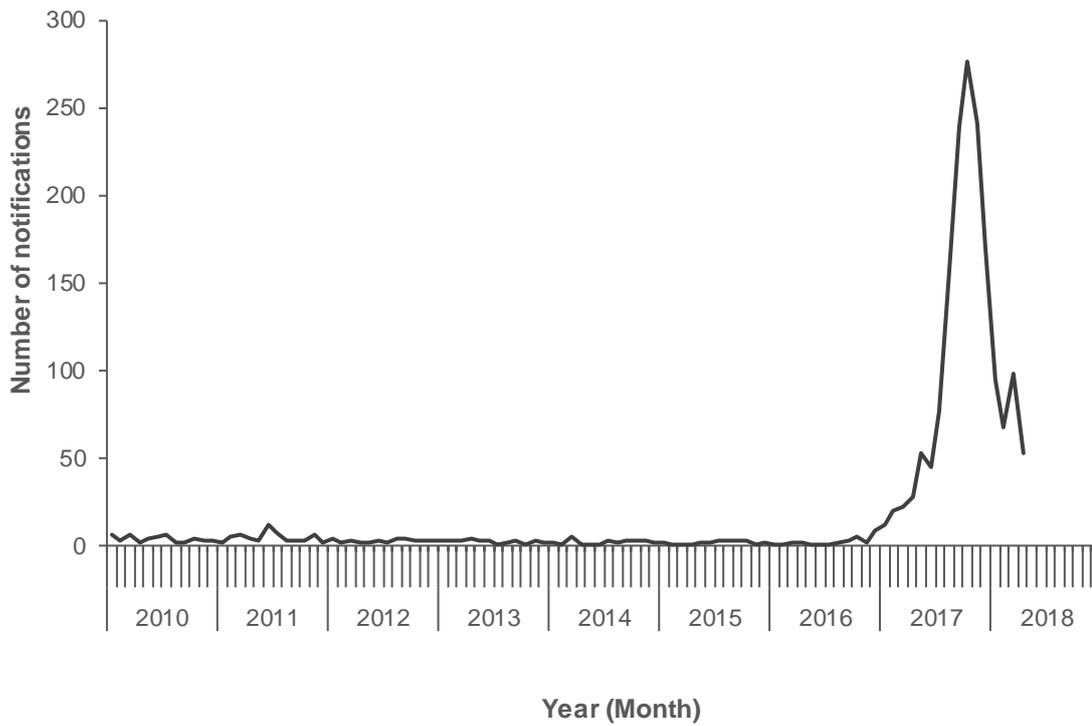
<sup>1</sup> Interim outbreak(s) where total number of cases had not been completed.

#### 4. Trends in selected diseases to April 2018

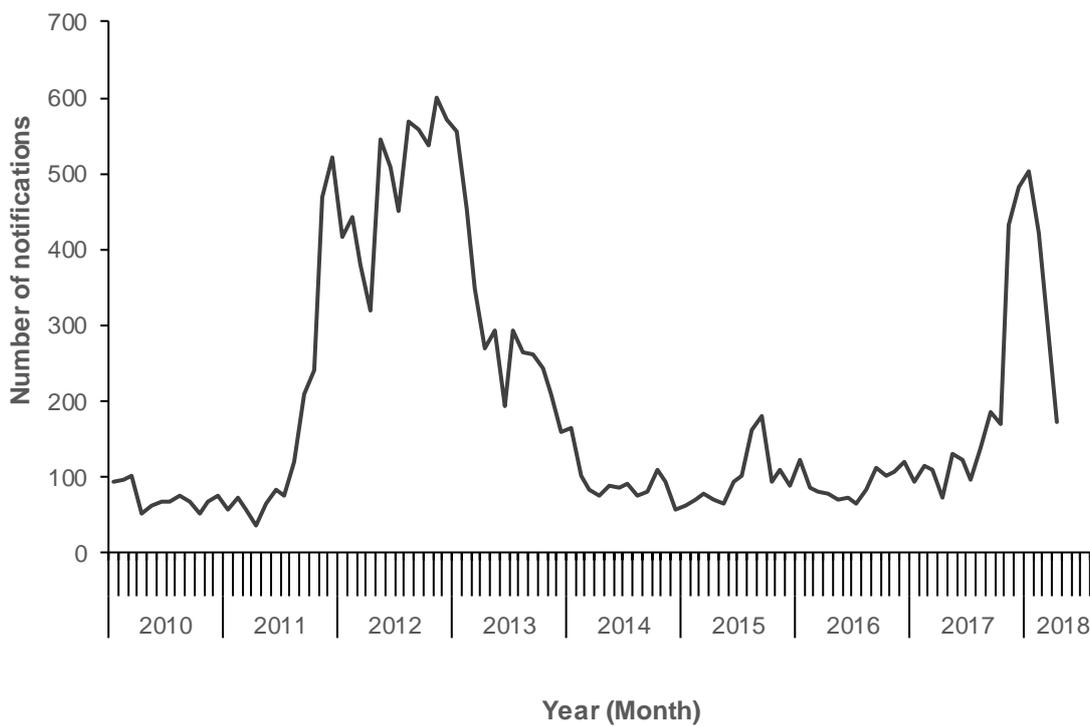
**Figure 1. Measles notifications by month, January 2010–April 2018**



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



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



## 5. Data tables

### National Notifiable Disease Surveillance Data April 2018

| Disease                       | Current Year - 2018 <sup>1</sup> |                                  |                                    | Previous Year - 2017 |                                  |                                    |
|-------------------------------|----------------------------------|----------------------------------|------------------------------------|----------------------|----------------------------------|------------------------------------|
|                               | April 2018 Cases                 | Cumulative total since 1 January | Current 12 Month Rate <sup>2</sup> | April 2017 Cases     | Cumulative total since 1 January | Current 12 Month Rate <sup>2</sup> |
| Campylobacteriosis            | 395                              | 2121                             | 138.4                              | 370                  | 1967                             | 159.1                              |
| Cryptosporidiosis             | 133                              | 595                              | 33.1                               | 58                   | 199                              | 22.6                               |
| Dengue fever                  | 12                               | 212                              | 7.0                                | 8                    | 37                               | 3.0                                |
| Gastroenteritis <sup>3</sup>  | 22                               | 96                               | 6.4                                | 22                   | 109                              | 9.6                                |
| Giardiasis                    | 167                              | 662                              | 36.8                               | 125                  | 546                              | 32.4                               |
| Haemophilus influenzae type b | 3                                | 4                                | 0.2                                | 0                    | 0                                | 0.0                                |
| Hepatitis A                   | 10                               | 36                               | 1.5                                | 2                    | 21                               | 1.0                                |
| Hepatitis B <sup>4</sup>      | 8                                | 19                               | 0.8                                | 2                    | 9                                | 0.7                                |
| Hepatitis C <sup>4</sup>      | 4                                | 21                               | 0.7                                | 3                    | 10                               | 0.6                                |
| Invasive pneumococcal disease | 33                               | 130                              | 11.3                               | 31                   | 108                              | 10.7                               |
| Legionellosis                 | 23                               | 103                              | 5.1                                | 10                   | 81                               | 4.7                                |
| Leptospirosis                 | 12                               | 39                               | 2.9                                | 10                   | 39                               | 2.2                                |
| Listeriosis                   | 6                                | 11                               | 0.6                                | 1                    | 4                                | 0.5                                |
| Malaria                       | 4                                | 14                               | 0.9                                | 2                    | 14                               | 0.6                                |
| Measles                       | 17                               | 25                               | 0.6                                | 0                    | 10                               | 2.0                                |
| Meningococcal disease         | 8                                | 29                               | 2.6                                | 5                    | 18                               | 1.7                                |
| Mumps                         | 52                               | 307                              | 32.6                               | 28                   | 81                               | 2.1                                |
| Paratyphoid fever             | 2                                | 11                               | 1.0                                | 1                    | 11                               | 0.6                                |
| Pertussis                     | 171                              | 1404                             | 65.9                               | 72                   | 387                              | 23.8                               |
| Rheumatic fever <sup>5</sup>  | 14                               | 64                               | 3.6                                | 9                    | 49                               | 3.0                                |
| Rickettsial disease           | 0                                | 0                                | 0.1                                | 0                    | 1                                | 0.1                                |
| Rubella                       | 0                                | 0                                | 0.0                                | 0                    | 1                                | 0.0                                |
| Salmonellosis                 | 70                               | 401                              | 22.8                               | 106                  | 424                              | 22.6                               |
| Shigellosis                   | 23                               | 100                              | 5.7                                | 15                   | 69                               | 4.1                                |
| Tuberculosis disease          | 22                               | 85                               | 6.2                                | 21                   | 97                               | 6.3                                |
| Typhoid fever                 | 4                                | 25                               | 0.9                                | 16                   | 39                               | 1.2                                |
| VTEC/STEC infection           | 78                               | 402                              | 15.1                               | 68                   | 226                              | 9.1                                |
| Yersiniosis                   | 79                               | 426                              | 22.5                               | 50                   | 267                              | 19.2                               |

<sup>1</sup> These data are provisional and include cases that are under investigation, some of which may become 'Not a case'.

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

<sup>3</sup> Cases of gastroenteritis from a common source or foodborne intoxication.

<sup>4</sup> Only acute cases of this disease are currently notifiable.

<sup>5</sup> 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 April: Brucellosis (3) , Chemical poisoning from the environment (2) , Chikungunya fever (1) , Cholera (1) , Hepatitis NOS (2) , Toxic shellfish poisoning (1) , Zika virus (1)

## Notifiable Disease Surveillance Data by District Health Board April 2018

| Disease                       | Cases <sup>1</sup> and current rate <sup>2</sup> for April 2018 by District Health Board <sup>3</sup> |           |           |          |                  |         |       |               |            |          |             |           |            |             |                   |         |                    |            |            |                  |          |
|-------------------------------|---|-----------|-----------|----------|------------------|---------|-------|---------------|------------|----------|-------------|-----------|------------|-------------|-------------------|---------|--------------------|------------|------------|------------------|----------|
|                               |   | Northland | Waitemata | Auckland | Counties Manukau | Waikato | Lakes | Bay of Plenty | Tairāwhiti | Taranaki | Hawke's Bay | Wairarapa | MidCentral | Hutt Valley | Capital and Coast | Waikato | Nelson Marlborough | West Coast | Canterbury | South Canterbury | Southern |
| Campylobacteriosis            | Cases   | 10        | 40        | 35       | 41               | 36      | 9     | 15            | 4          | 9        | 13          | 2         | 18         | 11          | 31                | 4       | 11                 | 6          | 45         | 6                | 49       |
|                               | Rate  | 144.8     | 132.8     | 110      | 90.2             | 140.9   | 140.1 | 97.9          | 127.8      | 198.1    | 176.9       | 138.8     | 148.4      | 110.9       | 118.3             | 184.3   | 135.8              | 209.2      | 152.3      | 248.3            | 228.8    |
| Cryptosporidiosis             | Cases   | 3         | 20        | 16       | 20               | 7       | 0     | 11            | 0          | 1        | 3           | 0         | 3          | 5           | 29                | 0       | 0                  | 2          | 11         | 0                | 2        |
|                               | Rate  | 35.3      | 26.6      | 27.9     | 39.3             | 31.8    | 21.2  | 25.9          | 47.4       | 23.7     | 25          | 25        | 45.9       | 25.7        | 42.5              | 56.2    | 54.4               | 18.5       | 25.2       | 62.1             | 44.1     |
| Dengue fever                  | Cases   | 0         | 1         | 6        | 1                | 1       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 2                 | 0       | 0                  | 0          | 1          | 0                | 0        |
|                               | Rate  | 2.9       | 8.1       | 12.8     | 20.3             | 5.4     | 0.9   | 3.9           | 2.1        | 1.7      | 1.8         | 3.1       | 1.7        | 2.7         | 4.8               | 0       | 4                  | 0          | 5.3        | 3.4              | 1.5      |
| Gastroenteritis               | Cases   | 3         | 2         | 0        | 1                | 0       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 3           | 3                 | 1       | 0                  | 0          | 8          | 0                | 1        |
|                               | Rate  | 13.7      | 3.1       | 6.7      | 2.7              | 2       | 6.5   | 3.4           | 2.1        | 0        | 1.2         | 15.6      | 16.4       | 14.2        | 17.6              | 4.5     | 2                  | 18.5       | 8.7        | 1.7              | 4        |
| Giardiasis                    | Cases   | 4         | 26        | 23       | 20               | 13      | 3     | 3             | 0          | 3        | 5           | 1         | 2          | 9           | 27                | 3       | 4                  | 0          | 10         | 2                | 9        |
|                               | Rate  | 41        | 36.1      | 48.9     | 30.9             | 39.9    | 35.9  | 50            | 84.5       | 21.2     | 40.3        | 25        | 21         | 25.7        | 41.6              | 83.1    | 36.3               | 12.3       | 29.7       | 52               | 26.8     |
| Haemophilus influenzae type b | Cases   | 0         | 0         | 0        | 1                | 0       | 0     | 1             | 0          | 0        | 0           | 1         | 0          | 0           | 0                 | 0       | 0                  | 0          | 0          | 0                | 0        |
|                               | Rate  | 0.6       | 0         | 0.2      | 0.2              | 0.2     | 0     | 0.9           | 0          | 0        | 0           | 1.6       | 0          | 0           | 0                 | 0       | 0                  | 0          | 0          | 0                | 0.3      |
| Hepatitis A                   | Cases   | 0         | 0         | 1        | 2                | 0       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 0                 | 0       | 0                  | 0          | 0          | 0                | 7        |
|                               | Rate  | 1.7       | 1.2       | 2.7      | 3.3              | 2       | 0     | 0             | 0          | 0        | 0           | 0         | 2.3        | 0           | 0.6               | 2.2     | 1.3                | 0          | 0.7        | 0                | 3.1      |
| Hepatitis B                   | Cases   | 0         | 4         | 1        | 1                | 2       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 0                 | 0       | 0                  | 0          | 0          | 0                | 0        |
|                               | Rate  | 0.6       | 1.2       | 0.8      | 1.1              | 0.7     | 0     | 0             | 2.1        | 0        | 0           | 0         | 0          | 0           | 0.3               | 0       | 2                  | 0          | 0.7        | 1.7              | 1.9      |
| Hepatitis C                   | Cases   | 1         | 0         | 0        | 0                | 0       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 0                 | 0       | 1                  | 0          | 1          | 0                | 1        |
|                               | Rate  | 1.7       | 0         | 0.6      | 0                | 0       | 0     | 0             | 0          | 2.5      | 0           | 0         | 0.6        | 0           | 0.3               | 0       | 3.4                | 0          | 1.5        | 1.7              | 2.2      |
| Invasive pneumococcal         | Cases   | 1         | 1         | 3        | 9                | 3       | 2     | 1             | 0          | 2        | 2           | 0         | 0          | 2           | 3                 | 0       | 1                  | 0          | 3          | 0                | 0        |
|                               | Rate  | 14.3      | 8.6       | 8        | 15               | 11.5    | 16.6  | 17.7          | 10.3       | 15.2     | 15.9        | 20.3      | 7.9        | 10.1        | 11.5              | 20.2    | 8.7                | 24.6       | 7.3        | 6.7              | 11.1     |
| Legionellosis                 | Cases   | 3         | 6         | 3        | 5                | 0       | 0     | 2             | 0          | 1        | 0           | 0         | 0          | 0           | 0                 | 0       | 0                  | 0          | 3          | 0                | 0        |
|                               | Rate  | 10.8      | 5         | 4        | 4.4              | 1.5     | 3.7   | 7.3           | 0          | 2.5      | 0.6         | 1.6       | 1.7        | 2.7         | 0.6               | 0       | 2.7                | 3.1        | 14         | 5                | 7.1      |
| Leptospirosis                 | Cases   | 1         | 0         | 0        | 0                | 2       | 1     | 1             | 0          | 0        | 1           | 0         | 3          | 0           | 0                 | 0       | 0                  | 0          | 2          | 0                | 1        |
|                               | Rate  | 5.1       | 1         | 0.2      | 0.5              | 11.7    | 3.7   | 2.2           | 4.1        | 3.4      | 8.5         | 10.9      | 5.1        | 0.7         | 0                 | 4.5     | 4.7                | 6.2        | 1.6        | 1.7              | 1.5      |
| Listeriosis                   | Cases   | 0         | 1         | 1        | 1                | 0       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 1                 | 0       | 0                  | 0          | 1          | 0                | 1        |
|                               | Rate  | 0.6       | 0.3       | 0.8      | 0.9              | 0.2     | 0     | 1.3           | 0          | 0        | 0.6         | 1.6       | 0.6        | 0           | 0.6               | 0       | 2                  | 0          | 0.2        | 1.7              | 0.6      |
| Malaria                       | Cases   | 0         | 2         | 1        | 0                | 1       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 0                 | 0       | 0                  | 0          | 0          | 0                | 0        |
|                               | Rate  | 1.7       | 1.2       | 1.7      | 0.5              | 1       | 0.9   | 0             | 0          | 0.8      | 0.6         | 0         | 0          | 2           | 1.6               | 0       | 0.7                | 0          | 0.5        | 0                | 0.3      |
| Measles                       | Cases   | 0         | 1         | 0        | 0                | 1       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 0                 | 0       | 1                  | 0          | 8          | 0                | 6        |
|                               | Rate  | 0         | 0.2       | 0.4      | 0                | 0.2     | 0     | 0.9           | 0          | 0        | 0           | 0         | 0.6        | 0.7         | 0.3               | 0       | 0.7                | 0          | 2.4        | 1.7              | 1.9      |
| Meningococcal disease         | Cases   | 2         | 0         | 0        | 1                | 2       | 1     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 0                 | 0       | 0                  | 0          | 2          | 0                | 0        |
|                               | Rate  | 3.4       | 2.1       | 2.1      | 3.1              | 2.4     | 3.7   | 5.2           | 0          | 1.7      | 3.1         | 4.7       | 1.1        | 1.4         | 1.9               | 2.2     | 0                  | 6.2        | 3.1        | 0                | 3.1      |
| Mumps                         | Cases   | 2         | 12        | 13       | 9                | 1       | 3     | 1             | 0          | 0        | 0           | 0         | 0          | 3           | 0                 | 0       | 1                  | 0          | 1          | 0                | 6        |
|                               | Rate  | 22.2      | 49.5      | 70.9     | 95.9             | 19.3    | 32.3  | 4.7           | 4.1        | 7.6      | 1.8         | 12.5      | 7.4        | 8.1         | 7.7               | 0       | 13.4               | 3.1        | 3.8        | 0                | 28.1     |
| Paratyphoid fever             | Cases   | 0         | 0         | 1        | 0                | 0       | 0     | 0             | 0          | 1        | 0           | 0         | 0          | 0           | 0                 | 0       | 0                  | 0          | 0          | 0                | 0        |
|                               | Rate  | 0         | 1.2       | 2.3      | 0.7              | 0.2     | 0     | 0.4           | 4.1        | 0.8      | 6.7         | 0         | 0          | 0           | 1.3               | 0       | 0.7                | 0          | 0.4        | 0                | 0.3      |
| Pertussis                     | Cases   | 9         | 21        | 5        | 7                | 8       | 7     | 24            | 1          | 1        | 7           | 3         | 5          | 5           | 10                | 2       | 26                 | 5          | 14         | 2                | 9        |
|                               | Rate  | 66.7      | 45.5      | 45.8     | 34.2             | 81.5    | 87.6  | 118.2         | 45.4       | 31.3     | 92.1        | 31.2      | 32.3       | 54.8        | 60.4              | 101.1   | 289                | 160        | 50.4       | 47               | 75.5     |
| 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 <sup>4</sup>  | Cases   | 1         | 2         | 0        | 7                | 0       | 0     | 0             | 1          | 0        | 0           | 0         | 0          | 1           | 1                 | 0       | 0                  | 0          | 1          | 0                | 0        |
|                               | Rate  | 6.8       | 2.6       | 5        | 11.9             | 3.7     | 1.8   | 1.7           | 8.2        | 0        | 2.4         | 1.6       | 0.6        | 4.1         | 2.2               | 0       | 0                  | 0          | 0.9        | 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   | 2         | 6         | 10       | 8                | 10      | 0     | 2             | 0          | 3        | 1           | 1         | 1          | 5           | 0                 | 4       | 0                  | 8          | 0          | 9                | 9        |
|                               | Rate  | 29.1      | 17.8      | 21.2     | 14.3             | 23.7    | 18.4  | 19            | 33         | 26.2     | 19.5        | 15.6      | 18.7       | 13.5        | 24.6              | 27      | 18.1               | 18.5       | 33.9       | 40.3             | 34.2     |
| Shigellosis                   | Cases   | 0         | 2         | 7        | 1                | 3       | 0     | 0             | 0          | 1        | 0           | 0         | 3          | 2           | 0                 | 1       | 0                  | 1          | 0          | 2                | 2        |
|                               | Rate  | 3.4       | 6.9       | 13.2     | 8.4              | 3.9     | 1.8   | 3             | 2.1        | 3.4      | 7.3         | 3.1       | 0.6        | 8.1         | 7                 | 0       | 2.7                | 3.1        | 2.7        | 0                | 4        |
| Tuberculosis disease          | Cases   | 0         | 5         | 4        | 2                | 0       | 0     | 1             | 0          | 1        | 0           | 1         | 2          | 2           | 0                 | 0       | 1                  | 0          | 0          | 0                | 3        |
|                               | Rate  | 1.7       | 5.8       | 9.9      | 10.2             | 7.3     | 3.7   | 5.2           | 2.1        | 2.5      | 4.3         | 3.1       | 6.2        | 7.4         | 5.8               | 9       | 5.4                | 0          | 5.4        | 1.7              | 3.1      |
| Typhoid fever                 | Cases   | 0         | 0         | 2        | 0                | 0       | 0     | 0             | 0          | 0        | 0           | 0         | 0          | 0           | 0                 | 0       | 0                  | 0          | 2          | 0                | 0        |
|                               | Rate  | 0         | 0.7       | 1.3      | 3.7              | 0.5     | 0.9   | 0             | 0          | 0        | 0           | 0         | 0.6        | 0           | 0.6               | 0       | 0.7                | 0          | 0.5        | 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   | 3         | 7         | 3        | 5                | 2       | 2     | 1             | 0          | 3        | 1           | 0         | 0          | 5           | 8                 | 4       | 8                  | 1          | 1          | 1                | 23       |
|                               | Rate  | 35.3      | 13.7      | 13       | 12.6             | 7.3     | 11.1  | 9.5           | 4.1        | 11.9     | 14          | 6.2       | 2.8        | 12.8        | 12.2              | 24.7    | 24.9               | 6.2        | 4.2        | 21.8             | 57       |
| Yersiniosis                   | Cases   | 0         | 9         | 9        | 9                | 12      | 4     | 4             | 0          | 1        | 3           | 0         | 0          | 4           | 6                 | 3       | 2                  | 1          | 10         | 1                | 1        |
|                               | Rate  | 9.7       | 21.8      | 22.2     | 14.3             | 16.4    | 27.6  | 25.9          | 10.3       | 20.3     | 25.6        | 18.7      | 10.8       | 31.8        | 29.4              | 53.9    | 18.1               | 12.3       | 35.2       | 33.6             | 20.7     |

<sup>1</sup> These data are provisional and include cases that are under investigation, some of which may become 'Not a case'.

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

<sup>3</sup> Further data are available from the local Medical Officer of Health.

<sup>4</sup> Rates 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.