

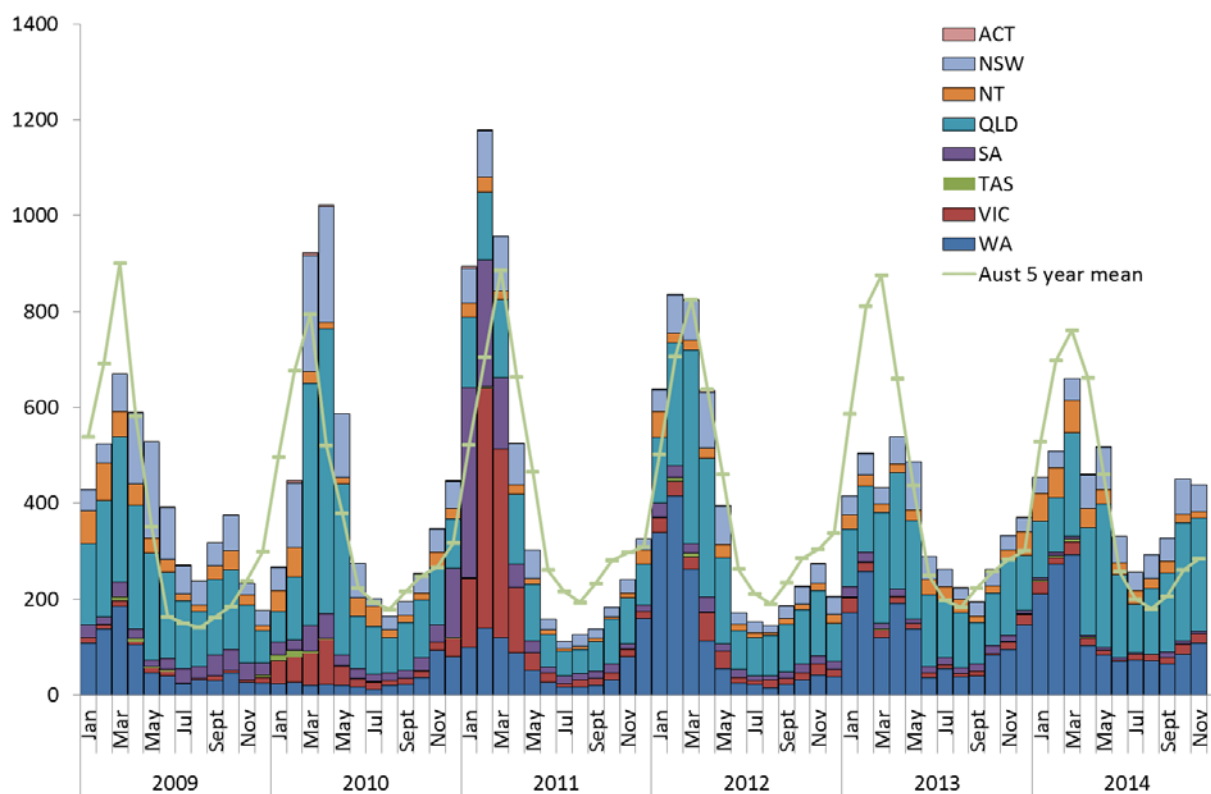
National Communicable Diseases Surveillance Report
Fortnight 24, 2014 Summary Notes for Selected Diseases
15 to 28 November 2014

Ross River Virus notifications

Between 15 and 28 November 2014, there were 260 notifications of Ross River virus (RRV) infection, compared with 240 during the previous period and 145 during the same period of last year. During the past quarter there were 1,245 notifications, 1.8 times the quarterly rolling mean of 705.8 notifications (Figure 1).

The national surveillance case definitions for RRV (as for the other alphaviruses Barmah Forest Virus (BFV) and Chikungunya virus) require laboratory definitive evidence. One option for laboratory definitive evidence is virus-specific IgM alone, in the absence of IgM to other alphaviruses. These case definitions may introduce the possibility of false positive diagnoses, where the pre-test probability of infection is low (i.e. where the infection is rare, such as RRV or BFV in metropolitan areas). This has been particularly recognised as a problem for BFV notifications in recent years, with an epidemic of false positive IgM diagnoses.

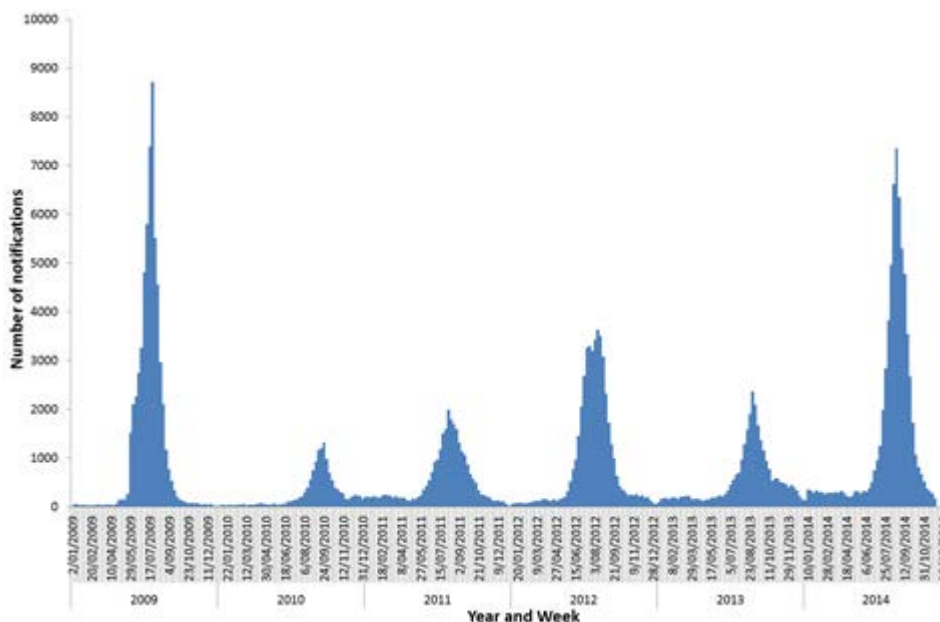
Figure 1: Notifications of Ross River Virus infection and five year mean, Australia, 2009 to November 2014, by state or territory.



Influenza (laboratory confirmed)

Across all jurisdictions, seasonal influenza activity has continued to decline towards interseasonal levels (figure 2). Nationally, influenza A remains the predominant virus type, although the proportion of influenza B infections has continued to increase in recent weeks across most jurisdictions. Of the subtyped influenza A viruses, there is currently a higher proportion of influenza A(H3N2) detections, compared with influenza A(H1N1)pdm09.

Figure 2: Notifications of laboratory confirmed influenza, Australia, 1 January 2009 to 28 November 2014



Source: National Notifiable Diseases Surveillance System, by diagnosis date

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.

¹The past quarter (90 day) surveillance period includes the date range 15/11/2014 to 28/11/2014.

²The quarterly (90 day) five year rolling mean is the average of 5 intervals of 90 days up to 28/11/2014. The ratio is the notification activity in the past quarter (90 days) compared with the five year rolling mean for the same period.

³The past year (365 day) surveillance period includes the date range 15/11/2014 to 28/11/2014.

⁴The yearly (365 day) five year rolling mean is the average of 5 intervals of 365 days up to 28/11/2014. 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 FN24 Notification Received Date 15/11/14 to 28/11/14

| 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 | 2014 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 (NEC) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | - | 0 | 0.0 | 0.0 | - |
| Hepatitis B (newly acquired) | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 7 | 4 | 158 | 36 | 54.0 | 0.7 | - | 168 | 211.8 | 0.8 | - |
| Hepatitis B (unspecified) | 8 | 91 | 0 | 41 | 16 | 0 | 53 | 18 | 227 | 278 | 284 | 6,064 | 1,683 | 1,725.6 | 1.0 | - | 6,613 | 6,798.0 | 1.0 | - |
| Hepatitis C (newly acquired) | 0 | 2 | 0 | 0 | 0 | 0 | 4 | 1 | 7 | 6 | 18 | 403 | 93 | 100.0 | 0.9 | - | 443 | 419.2 | 1.1 | - |
| Hepatitis C (unspecified) | 4 | 119 | 4 | 118 | 11 | 9 | 61 | 69 | 395 | 412 | 452 | 9,454 | 2,580 | 2,642.4 | 1.0 | - | 10,257 | 10,390.6 | 1.0 | - |
| Hepatitis D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 42 | 8 | 10.2 | 0.8 | - | 48 | 38.4 | 1.3 | - |
| Gastrointestinal diseases | | | | | | | | | | | | | | | | | | | | |
| Botulism | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0.4 | 0.0 | - | 1 | 1.4 | 0.7 | - |
| Campylobacteriosis | 21 | NN | 11 | 302 | 89 | 33 | 41 | 148 | 645 | 657 | 762 | 16,653 | 4,019 | 4,204.2 | 1.0 | - | 18,271 | 16,184.0 | 1.1 | - |
| Cryptosporidiosis | 1 | 21 | 3 | 14 | 3 | 0 | 15 | 15 | 72 | 69 | 88 | 2,243 | 399 | 297.6 | 1.3 | - | 2,502 | 2,972.0 | 0.8 | - |
| Haemolytic uraemic syndrome (HUS) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 21 | 4 | 3.4 | 1.2 | - | 22 | 15.4 | 1.4 | - |
| Hepatitis A | 0 | 6 | 0 | 1 | 1 | 0 | 2 | 1 | 11 | 10 | 6 | 209 | 62 | 74.2 | 0.8 | - | 226 | 266.0 | 0.8 | - |
| Hepatitis E | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 46 | 10 | 5.8 | 1.7 | 0.4 | 52 | 34.6 | 1.5 | 7.8 |
| Listeriosis | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 73 | 20 | 15.0 | 1.3 | - | 82 | 79.0 | 1.0 | - |
| STEC, VTEC | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 3 | 3 | 7 | 114 | 20 | 32.4 | 0.6 | - | 123 | 121.4 | 1.0 | - |
| Salmonellosis | 9 | 170 | 14 | 198 | 28 | 14 | 176 | 49 | 658 | 569 | 535 | 14,646 | 3,303 | 2,327.8 | 1.4 | 350.1 | 15,877 | 11,439.2 | 1.4 | 1,878.7 |
| Shigellosis | 0 | 4 | 4 | 4 | 0 | 0 | 12 | 1 | 25 | 40 | 20 | 948 | 252 | 115.2 | 2.2 | 118.4 | 999 | 548.4 | 1.8 | 324.3 |
| Typhoid Fever | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 109 | 27 | 23.2 | 1.2 | - | 127 | 122.0 | 1.0 | - | |
| Quarantinable diseases | | | | | | | | | | | | | | | | | | | | |
| Cholera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0.6 | 0.0 | - | 2 | 4.2 | 0.5 | - |
| HPAIIH | 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 | 46 | 899 | 33 | 828 | 152 | 22 | 1 | 430 | 2,411 | 2,596 | 3,503 | 74,845 | 17,395 | 18,905.4 | 0.9 | - | 81,452 | 76,327.2 | 1.1 | - |
| Donovanosis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0.2 | 0.0 | - | 1 | 0.8 | 1.3 | - |
| Gonococcal infection | 4 | 177 | 32 | 105 | 16 | 3 | 85 | 72 | 494 | 616 | 605 | 14,331 | 3,731 | 3,028.2 | 1.2 | - | 15,577 | 11,716.6 | 1.3 | - |
| Syphilis - congenital | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 3 | 0.4 | 7.5 | 1.5 | 6 | 4.4 | 1.4 | - |
| Syphilis < 2 years | 0 | 3 | 6 | 8 | 0 | 1 | 5 | 3 | 26 | 47 | 60 | 1,593 | 379 | 347.8 | 1.1 | - | 1,761 | 1,399.6 | 1.3 | - |
| Syphilis > 2 years or unspecified duration | 2 | 15 | 11 | 9 | 3 | 1 | 34 | 1 | 76 | 81 | 59 | 1,714 | 469 | 353.2 | 1.3 | 23.5 | 1,840 | 1,414.2 | 1.3 | 103.2 |

Footnotes:

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Past Quarter (90d prior surveillance period): 31/08/2014 to 28/11/2014

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

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Quarterly rolling 5Yr Mean (90d 5Yr Mean) 2: 31/08/2012 to 28/11/2012

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 3: 31/08/2011 to 28/11/2011

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 4: 31/08/2010 to 28/11/2010

Quarterly rolling 5Yr Mean (90d 5Yr Mean) 5: 31/08/2009 to 28/11/2009

Past year (365d prior surveillance period): 29/11/2013 to 28/11/2014

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

Yearly rolling 5Yr Mean (365d 5Yr Mean) 1: 29/11/2012 to 28/11/2013

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Yearly rolling 5Yr Mean (365d 5Yr Mean) 4: 29/11/2009 to 28/11/2010

Yearly rolling 5Yr Mean (365d 5Yr Mean) 5: 29/11/2008 to 28/11/2009

ADT FN24 Notification Received Date 15/11/14 to 28/11/14

| 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 | 2014 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 | 0 | 2 | 1 | 0.0 | 0.0 | | 3 | 1.0 | 3.0 | |
| Haemophilus influenzae type b | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 19 | 6 | 3.6 | 1.7 | | 21 | 18.4 | 1.1 | |
| Influenza (laboratory confirmed) | 13 | 99 | 4 | 126 | 160 | 5 | 105 | 79 | 591 | 838 | 976 | 66,705 | 25,268 | 8,175.0 | 3.1 | 10,201.4 | 68,330 | 34,292.4 | 2.0 | 5,205.4 |
| Measles | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 3 | 6 | 12 | 332 | 30 | 52.0 | 0.6 | | 343 | 141.0 | 2.4 | 81.7 |
| Mumps | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 5 | 11 | 166 | 32 | 36.2 | 0.9 | | 177 | 167.8 | 1.1 | |
| Pertussis | 4 | 192 | 2 | 36 | 31 | 6 | 300 | 94 | 665 | 673 | 486 | 10,225 | 3,946 | 7,961.8 | 0.5 | | 11,217 | 28,561.8 | 0.4 | |
| Pneumococcal disease (invasive) | 0 | 18 | 1 | 5 | 1 | 2 | 15 | 8 | 50 | 45 | 66 | 1,448 | 441 | 474.4 | 0.9 | | 1,559 | 1,696.8 | 0.9 | |
| Poliomyelitis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | | 0 | 0.0 | 0.0 | |
| Rubella | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 3 | 7.0 | 0.4 | | 17 | 38.4 | 0.4 | |
| Rubella Congenital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.2 | 0.0 | | 0 | 0.6 | 0.0 | |
| Tetanus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 3 | 2 | 0.8 | 2.5 | | 3 | 3.8 | 0.8 | |
| Varicella zoster (Chickenpox) | 1 | NN | 3 | 3 | 13 | 1 | 1 | 10 | 32 | 54 | 131 | 1,765 | 471 | 593.8 | 0.8 | | 2,009 | 1,971.0 | 1.0 | |
| Varicella zoster (Shingles) | 12 | NN | 7 | 0 | 43 | 7 | 0 | 44 | 113 | 146 | 214 | 4,703 | 1,095 | 991.4 | 1.1 | | 5,174 | 3,825.2 | 1.4 | |
| Varicella zoster (Unspecified) | 6 | NN | 0 | 245 | 39 | 10 | 0 | 64 | 364 | 310 | 413 | 9,569 | 2,485 | 2,123.0 | 1.2 | | 10,455 | 7,905.4 | 1.3 | 153.1 |
| Vectorborne diseases | | | | | | | | | | | | | | | | | | | | |
| Arbovirus infection (NEC) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 27 | 1 | 3.6 | 0.3 | | 27 | 13.8 | 2.0 | 3.2 |
| Barmah Forest virus infection | 0 | 4 | 0 | 13 | 0 | 0 | 0 | 2 | 19 | 11 | 61 | 720 | 98 | 409.2 | 0.2 | | 856 | 2,158.6 | 0.4 | |
| Dengue virus infection | 0 | 2 | 0 | 2 | 7 | 1 | 0 | 7 | 19 | 25 | 38 | 1,428 | 152 | 217.6 | 0.7 | | 1,548 | 1,364.2 | 1.1 | |
| Japanese encephalitis virus infection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0.2 | 5.0 | | 1 | 1.0 | 1.0 | |
| Kunjin virus infection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0.2 | 0.0 | | 2 | 1.4 | 1.4 | |
| Malaria | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 2 | 7 | 9 | 17 | 292 | 64 | 97.0 | 0.7 | | 323 | 421.6 | 0.8 | |
| Murray Valley encephalitis virus infection | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | | 0 | 4.4 | 0.0 | |
| Ross River virus infection | 0 | 35 | 6 | 143 | 3 | 0 | 17 | 56 | 260 | 240 | 145 | 4,792 | 1,245 | 705.8 | 1.8 | 206.7 | 5,166 | 4,792.8 | 1.1 | |
| Zoonoses | | | | | | | | | | | | | | | | | | | | |
| Anthrax | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | | 0 | 0.2 | 0.0 | |
| Australian bat lyssavirus | 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 | 1 | 0 | 15 | 2 | 7.4 | 0.3 | | 18 | 27.8 | 0.6 | |
| Leptospirosis | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 83 | 9 | 15.0 | 0.6 | | 87 | 138.4 | 0.6 | |
| Lyssavirus (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 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 1 | 4 | 27 | 5 | 21.6 | 0.2 | | 34 | 67.8 | 0.5 | |
| Q fever | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 7 | 18 | 23 | 432 | 93 | 87.8 | 1.1 | | 461 | 370.6 | 1.2 | |
| Tularaemia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0.0 | | 0 | 0.0 | 0.0 | |
| Other bacterial infections | | | | | | | | | | | | | | | | | | | | |
| Legionellosis | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 7 | 10 | 18 | 21 | 378 | 111 | 92.8 | 1.2 | | 411 | 368.6 | 1.1 | |
| Leprosy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 9 | 2 | 2.6 | 0.8 | | 9 | 9.8 | 0.9 | |
| Meningococcal disease (invasive) | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 4 | 9 | 6 | 150 | 57 | 56.4 | 1.0 | | 158 | 223.6 | 0.7 | |
| Tuberculosis | 0 | 17 | 0 | 12 | 0 | 0 | 13 | 2 | 44 | 48 | 47 | 1,189 | 328 | 380.0 | 0.9 | | 1,298 | 1,327.6 | 1.0 | |
| | 131 | 1,886 | 143 | 2,228 | 618 | 116 | 942 | 1,186 | 7,250 | 7,867 | 9,088 | 248,171 | 70,441 | | | | 266,157 | | | |

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