



UK Health  
Security  
Agency

## NOIDs Weekly Report

### Statutory Notification of Infectious Diseases

#### Causative Agents

2021/48

Week ending 05/12/2021

Laboratories in England have a statutory duty to notify the UK Health Security Agency of the identification of the following causative agents:

|   |                                       |  |
|---|---------------------------------------|--|
| Bacillus anthracis                                | Giardia lamblia                       | Plasmodium falciparum                  |
| Bacillus cereus                                   | Guanarito virus                       | Plasmodium Knowlesi                    |
| Bordetella pertussis                              | Haemophilus influenzae<br>(invasive)  | Plasmodium Malariae                    |
| Borrelia spp                                      | Hanta virus                           | Plasmodium Ovale                       |
| Brucella spp                                      | Hepatitis A                           | Plasmodium Vivax                       |
| Burkholderia mallei                               | Hepatitis B                           | Polio virus                            |
| Burkholderia pseudomallei                         | Hepatitis C                           | Rabies virus                           |
| Campylobacter spp                                 | Hepatitis D                           | Rickettsia spp                         |
| Carbapenemase-producing<br>Gram-negative bacteria | Hepatitis E                           | Rift Valley fever virus                |
| Chikungunya virus                                 | Influenza virus                       | Rubella virus                          |
| Chlamydomphila psittaci                           | Junin virus                           | Sabia virus                            |
| Clostridium botulinum                             | Kyasanur Forest disease<br>virus      | Salmonella spp                         |
| Clostridium perfringens                           | Lassa virus                           | SARS Coronavirus                       |
| Clostridium tetani                                | Legionella spp                        | Shigella spp                           |
| Corynebacterium<br>diphtheriae                    | Leptospira interrogans                | Streptococcus group A<br>(invasive)    |
| Corynebacterium ulcerans                          | Listeria monocytogenes                | Streptococcus pneumoniae<br>(invasive) |
| Coxiella burnetii                                 | Machupo virus                         | Varicella zoster virus                 |
| Crimean-Congo<br>haemorrhagic fever virus         | Marburg virus                         | Variola virus                          |
| Cryptosporidium spp                               | Measles virus                         | Vibrio cholerae                        |
| Dengue virus                                      | Mumps virus                           | West Nile Virus                        |
| Ebola virus                                       | Mycobacterium<br>tuberculosis complex | Yellow fever virus                     |
| Entamoeba histolytica                             | Neisseria meningitidis                | Yersinia pestis                        |
| Escherichia coli O 157                            | Omsk haemorrhagic fever<br>virus      |  |
| Francisella tularensis                            |                                       |  |

Statutory Notifications of causative agents, grouped by root organism, with totals for the current week compared to the previous five.

| Week notification received                           | 2021/43 | 2021/44 | 2021/45 | 2021/46 | 2021/47 | 2021/48 |
|--|---------|---------|---------|---------|---------|---------|
| <b>Arboviruses</b>                                   |         |         |         |         |         |         |
| West Nile virus                                      | -       | -       | -       | -       | -       | 1       |
| <b>Bacillus</b>                                      |         |         |         |         |         |         |
| Bacillus cereus                                      | 24      | 19      | 17      | 11      | 27      | 17      |
| <b>Bordetella</b>                                    |         |         |         |         |         |         |
| Bordetella pertussis                                 | 1       | 1       | 1       | 2       | 2       | 2       |
| <b>Borrelia</b>                                      |         |         |         |         |         |         |
| Borrelia burgdorferi                                 | 17      | 22      | 21      | 11      | 17      | 25      |
| Borrelia tillae                                      | -       | 1       | 1       | -       | 1       | 1       |
| <b>Campylobacter</b>                                 |         |         |         |         |         |         |
| Campylobacter coli                                   | 33      | 39      | 29      | 20      | 29      | 14      |
| Campylobacter fetus                                  | 1       | -       | -       | 1       | -       | 1       |
| Campylobacter hyointestinalis                        | -       | -       | -       | 1       | -       | -       |
| Campylobacter jejuni                                 | 222     | 249     | 266     | 259     | 240     | 215     |
| Campylobacter other named                            | 1       | -       | -       | -       | -       | -       |
| Campylobacter sp                                     | 807     | 818     | 800     | 762     | 749     | 755     |
| Campylobacter sputorum                               | -       | -       | 1       | -       | -       | -       |
| Campylobacter upsaliensis                            | 2       | 1       | -       | -       | 1       | 2       |
| Campylobacter ureolyticus<br>(bacteroides corrodens) | -       | 1       | -       | -       | -       | -       |
| <b>Chikungunya virus</b>                             |         |         |         |         |         |         |
| Chikungunya virus                                    | -       | -       | -       | 2       | 1       | 1       |
| <b>Clostridium</b>                                   |         |         |         |         |         |         |
| Clostridium perfringens                              | 28      | 19      | 22      | 27      | 36      | 17      |
| <b>Coronavirus</b>                                   |         |         |         |         |         |         |
| Coronavirus  | 108     | 87      | 94      | 121     | 120     | 121     |
| Human coronavirus 229e                               | -       | -       | -       | 1       | -       | -       |
| SARS coronavirus                                     | 15      | 1       | -       | -       | -       | -       |
| SARS-CoV-2 antibody indeterminate                    | 126     | 118     | 131     | 255     | 220     | 305     |
| SARS-CoV-2 antibody void                             | 104     | 5263    | 111     | 61      | 126     | 62      |
| SARS-CoV-2 coronavirus (covid-19)                    | 236718  | 193828  | 218149  | 240039  | 253594  | 280469  |
| SARS-CoV-2 coronavirus (covid-19) indeterminate      | 7060    | 7154    | 4723    | 4809    | 4567    | 4308    |

Statutory Notifications of causative agents, grouped by root organism, with totals for the current week compared to the previous five.

| Week notification received         | 2021/43 | 2021/44 | 2021/45 | 2021/46 | 2021/47 | 2021/48 |
|------------------------------------|---------|---------|---------|---------|---------|---------|
| SARS-CoV-2 IgA antibody negative   | -       | 1       | -       | 1       | -       | -       |
| SARS-CoV-2 IgA antibody positive   | -       | 1       | 1       | -       | -       | -       |
| SARS-CoV-2 IgG antibody negative   | 1783    | 1928    | 4940    | 2137    | 2219    | 2503    |
| SARS-CoV-2 IgG antibody positive   | 3752    | 4263    | 4058    | 7811    | 4409    | 5019    |
| SARS-CoV-2 IgM antibody negative   | 25      | 8       | 13      | 59      | 59      | 44      |
| SARS-CoV-2 IgM antibody positive   | 4       | 4       | 2       | -       | 3       | 3       |
| SARS-CoV-2 total antibody negative | 4546    | 38627   | 3171    | 6772    | 4733    | 3410    |
| SARS-CoV-2 total antibody positive | 6019    | 31016   | 5873    | 8221    | 9158    | 6491    |
| <b>Corynebacterium</b>             |         |         |         |         |         |         |
| Corynebacterium diphtheriae        | -       | -       | -       | -       | 1       | 2       |
| Corynebacterium ulcerans           | 1       | -       | 1       | -       | -       | -       |
| <b>Coxiella</b>                    |         |         |         |         |         |         |
| Coxiella burnetii                  | -       | 1       | -       | 1       | -       | -       |
| <b>Cryptosporidium</b>             |         |         |         |         |         |         |
| Cryptosporidium hominis            | -       | 1       | 3       | 3       | -       | -       |
| Cryptosporidium parvum             | 44      | 47      | 61      | 72      | 36      | 21      |
| Cryptosporidium sp                 | 34      | 46      | 54      | 35      | 47      | 44      |
| <b>Entamoeba</b>                   |         |         |         |         |         |         |
| Entamoeba histolytica              | -       | -       | 2       | -       | 3       | 1       |
| <b>Escherichia</b>                 |         |         |         |         |         |         |
| Escherichia coli O 157             | 8       | 6       | 5       | 7       | 9       | 7       |
| <b>Flaviviruses</b>                |         |         |         |         |         |         |
| Dengue virus                       | -       | 2       | 1       | 2       | 3       | 2       |
| <b>Haemophilus</b>                 |         |         |         |         |         |         |
| Haemophilus influenzae             | 38      | 53      | 38      | 34      | 53      | 36      |

Statutory Notifications of causative agents, grouped by root organism, with totals for the current week compared to the previous five.

| Week notification received | 2021/43 | 2021/44 | 2021/45 | 2021/46 | 2021/47 | 2021/48 |
|----------------------------|---------|---------|---------|---------|---------|---------|
| <b>Hepatitis viruses</b>   |         |         |         |         |         |         |
| Hepatitis A                | 4       | 2       | 7       | 12      | 8       | 7       |
| Hepatitis B                | 150     | 152     | 148     | 164     | 125     | 149     |
| Hepatitis C                | 375     | 340     | 346     | 348     | 365     | 222     |
| Hepatitis D                | -       | 2       | 1       | 2       | 2       | 1       |
| Hepatitis E                | 20      | 22      | 24      | 14      | 23      | 16      |
| <b>Influenza virus</b>     |         |         |         |         |         |         |
| Influenza A                | 110     | 97      | 101     | 122     | 151     | 222     |
| Influenza B                | 89      | 74      | 98      | 95      | 99      | 83      |
| Influenza indeterminate    | -       | 1       | 1       | -       | 3       | 2       |
| Influenza ungrouped        | 4       | 5       | 3       | 8       | 5       | 6       |
| <b>Legionella</b>          |         |         |         |         |         |         |
| Legionella pneumophila     | 2       | 4       | 4       | 6       | 3       | 5       |
| Legionella sp              | -       | 1       | 3       | 3       | 3       | -       |
| <b>Listeria</b>            |         |         |         |         |         |         |
| Listeria monocytogenes     | 7       | 7       | 4       | 3       | 1       | 2       |
| <b>Mycobacterium</b>       |         |         |         |         |         |         |
| Mycobacterium tuberculosis | 57      | 43      | 68      | 65      | 41      | 54      |
| <b>Neisseria</b>           |         |         |         |         |         |         |
| Neisseria meningitidis     | 16      | 14      | 9       | 12      | 10      | 10      |
| <b>Paramyxoviruses</b>     |         |         |         |         |         |         |
| Measles virus              | 2       | -       | -       | 4       | -       | -       |
| Mumps virus                | -       | -       | -       | 1       | -       | 2       |
| <b>Plasmodium</b>          |         |         |         |         |         |         |
| Plasmodium falciparum      | 1       | 3       | 13      | 2       | 3       | 2       |
| <b>Polyomavirus</b>        |         |         |         |         |         |         |
| Polyomavirus BK            | 28      | 34      | 30      | 30      | 27      | 33      |
| Polyomavirus JC            | 6       | -       | -       | 5       | 1       | 5       |
| <b>Rickettsia</b>          |         |         |         |         |         |         |
| Rickettsia sp              | -       | -       | -       | 1       | -       | 1       |
| <b>Rubella virus</b>       |         |         |         |         |         |         |
| Rubella virus              | -       | 1       | 1       | 1       | 3       | 1       |

Statutory Notifications of causative agents, grouped by root organism, with totals for the current week compared to the previous five.

| Week notification received     | 2021/43 | 2021/44 | 2021/45 | 2021/46 | 2021/47 | 2021/48 |
|--------------------------------|---------|---------|---------|---------|---------|---------|
| <b>Salmonella</b>              |         |         |         |         |         |         |
| Other salmonellas              | 37      | 37      | 24      | 37      | 28      | 19      |
| Salmonella enteritidis         | 21      | 24      | 28      | 30      | 20      | 9       |
| Salmonella infantis            | 8       | 7       | 5       | 6       | -       | -       |
| Salmonella mbandaka            | -       | -       | -       | 6       | -       | -       |
| Salmonella newport             | 10      | -       | 5       | -       | -       | -       |
| Salmonella sp                  | 11      | 17      | 17      | 33      | 37      | 63      |
| Salmonella typhi and paratyphi | -       | 5       | 6       | 5       | 8       | -       |
| Salmonella typhimurium         | 30      | 17      | 38      | 33      | 28      | 6       |
| Salmonella enterica            | 6       | -       | -       | -       | -       | -       |
| <b>Shigella</b>                |         |         |         |         |         |         |
| Shigella boydii                | 1       | 1       | -       | -       | -       | -       |
| Shigella dysenteriae           | -       | 1       | -       | -       | -       | -       |
| Shigella flexneri              | 11      | 10      | 13      | 12      | 6       | 6       |
| Shigella sonnei                | 6       | 7       | 6       | 19      | 10      | 8       |
| Shigella sp                    | 16      | 19      | 20      | 22      | 19      | 38      |
| <b>Streptococcus</b>           |         |         |         |         |         |         |
| Streptococcus group A          | 27      | 13      | 22      | 25      | 15      | 23      |
| Streptococcus pneumoniae       | 90      | 109     | 116     | 94      | 77      | 108     |

Statutory Notifications of causative agents, grouped by root organism, with totals for the current week compared to the previous five.

### Carbapenemase-producing Enterobacterales (CPE)\*

Please note: The numbers presented here do not include specimens that have been referred to the AMRHAI Reference Unit

| Week notification received   |       | 2021/43 | 2021/44 | 2021/45 | 2021/46 | 2021/47 | 2021/48 |
|------------------------------|-------|---------|---------|---------|---------|---------|---------|
| <b>Citrobacter</b>           |       |         |         |         |         |         |         |
| Citrobacter spp              | KPC   | 1       | -       | -       | 2       | -       | -       |
|                              | NDM   | -       | -       | 1       | -       | 1       | -       |
|                              | OXA48 | 3       | -       | 1       | 2       | -       | -       |
|                              | VIM   | -       | -       | -       | 1       | -       | -       |
| <b>Enterobacter</b>          |       |         |         |         |         |         |         |
| Enterobacter cloacae complex | IMP   | -       | -       | -       | -       | 1       | -       |
|                              | KPC   | 2       | 2       | 2       | 2       | -       | -       |
|                              | NDM   | 2       | -       | 1       | 1       | -       | -       |
|                              | OXA48 | 7       | 3       | 4       | -       | 1       | 1       |
|                              | VIM   | 1       | -       | -       | -       | -       | -       |
| Other enterobacter spp       | KPC   | -       | 1       | -       | -       | -       | -       |
| <b>Escherichia</b>           |       |         |         |         |         |         |         |
| Escherichia coli             | KPC   | 2       | 2       | 2       | 1       | 2       | -       |
|                              | NDM   | 3       | 4       | 6       | 1       | 1       | 1       |
|                              | OXA48 | 7       | 6       | 8       | 3       | 4       | 4       |
|                              | VIM   | -       | 1       | -       | -       | -       | 1       |
|                              | Other | -       | -       | 1       | -       | 1       | -       |
| Escherichia hermannii        | KPC   | -       | -       | -       | -       | 1       | -       |
| Escherichia other named      | OXA48 | -       | -       | 1       | 1       | -       | -       |

Statutory Notifications of causative agents, grouped by root organism, with totals for the current week compared to the previous five.

| Week notification received |       | 2021/43 | 2021/44 | 2021/45 | 2021/46 | 2021/47 | 2021/48 |
|----------------------------|-------|---------|---------|---------|---------|---------|---------|
| <b>Klebsiella</b>          |       |         |         |         |         |         |         |
| Klebsiella oxytoca         | KPC   | -       | -       | 1       | 1       | -       | -       |
|                            | NDM   | -       | -       | -       | 1       | -       | -       |
|                            | OXA48 | 1       | -       | 1       | -       | -       | -       |
|                            | VIM   | 1       | -       | -       | -       | -       | -       |
| Klebsiella pneumoniae      | IMP   | -       | -       | 3       | -       | -       | -       |
|                            | KPC   | 4       | 2       | 2       | 3       | 3       | 1       |
|                            | NDM   | 6       | 1       | 2       | 3       | 2       | -       |
|                            | OXA48 | 5       | 7       | 7       | 6       | 4       | 2       |
|                            | Other | -       | -       | -       | 2       | -       | -       |
| Klebsiella variicola       | KPC   | 1       | -       | -       | -       | -       | -       |
|                            | OXA48 | 1       | -       | -       | -       | -       | -       |
| Other klebsiella spp       | NDM   | -       | -       | -       | -       | 1       | -       |
| <b>Leclercia</b>           |       |         |         |         |         |         |         |
| Leclercia adecarboxylata   | KPC   | -       | -       | -       | -       | 2       | -       |
| <b>Morganella</b>          |       |         |         |         |         |         |         |
| Morganella morganii        | OXA48 | -       | -       | -       | 1       | -       | -       |
|                            | Other | 1       | -       | 1       | -       | -       | -       |
| <b>Raoultella</b>          |       |         |         |         |         |         |         |
| Raoultella ornithinolytica | KPC   | -       | -       | 1       | -       | -       | -       |

Statutory Notifications of causative agents, grouped by root organism, with totals for the current week compared to the previous five.

### Other carbapenemase-producing Gram-negative organisms\*

Please note: The numbers presented here do not include specimens that have been referred to the AMRHAI Reference Unit

| Week notification received |       | 2021/43 | 2021/44 | 2021/45 | 2021/46 | 2021/47 | 2021/48 |
|----------------------------|-------|---------|---------|---------|---------|---------|---------|
| <b>Acinetobacter</b>       |       |         |         |         |         |         |         |
| Acinetobacter baumannii    | NDM   | 1       | -       | -       | -       | -       | -       |
| Other acinetobacter spp    | Other | -       | -       | -       | -       | 1       | -       |
| <b>Pseudomonas</b>         |       |         |         |         |         |         |         |
| Pseudomonas aeruginosa     | IMP   | -       | -       | -       | 3       | -       | -       |
|                            | VIM   | 1       | -       | -       | -       | -       | -       |
|                            | Other | 3       | 1       | -       | 3       | 1       | -       |
| Pseudomonas alcaligenes    | Other | -       | -       | -       | -       | 1       | -       |
| Pseudomonas taetrolens     | Other | 1       | -       | -       | -       | -       | -       |
| <b>Other</b>               |       |         |         |         |         |         |         |
|                            | OXA48 | 1       | -       | -       | -       | -       | -       |
|                            | Other | 1       | -       | -       | -       | -       | -       |

\*for all Carbapenemase-producing Gram-negative organisms, the reports are de-duplicated by first mention of organism species and resistance mechanism by person in a rolling 52-week period