

Isolation/detection of gastrointestinal viruses from human sources, by season, 2007/08-2017/18

(Infectious Agents Surveillance Report: Data based on the reports received before February 23, 2018 from public health institutes)



Infectious Agents Surveillance Report

Gastrointestinal pathogens

| | 2007/08 | 2008/09 | 2009/10 | 2010/11 | 2011/12 | 2012/13 | 2013/14 | 2014/15 | 2015/16 | 2016/17 | 2017/18 |
|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Reovirus NT | 7 | 5 | 1 | - | - | 1 | - | 1 | 1 | 5 | 1 |
| Reovirus 2 | 1 | - | - | 1 | - | 1 | 5 | 7 | - | - | - |
| Rotavirus group unknown | 1 | - | 6 | 4 | - | 1 | 1 | 3 | - | - | - |
| Rotavirus group A NT | 561 | 458 | 485 | 455 | 419 | 447 | 257 | 295 | 320 | 275 | 15 |
| Rotavirus group A G1 | 30 | 57 | 83 | 108 | 255 | 412 | 124 | 137 | 18 | 38 | 1 |
| Rotavirus group A G2 | 2 | 4 | 5 | 30 | 23 | 32 | 73 | 81 | 339 | 189 | 10 |
| Rotavirus group A G3 | 52 | 138 | 138 | 318 | 144 | 13 | 13 | 33 | 11 | 162 | 2 |
| Rotavirus group A G4 | - | - | - | 4 | 1 | - | 1 | - | 5 | - | - |
| Rotavirus group A G8 | - | - | - | - | - | - | 2 | 1 | 9 | 33 | - |
| Rotavirus group A G9 | 119 | 4 | 7 | 15 | 47 | 15 | 61 | 72 | 85 | 130 | 1 |
| Rotavirus group A G12 | - | - | - | - | 1 | - | - | 1 | - | 2 | - |
| Rotavirus group C | 7 | 44 | 1 | 6 | 19 | 1 | 1 | 1 | 1 | - | 2 |
| Astrovirus NT | 31 | 46 | 19 | 70 | 58 | 61 | 110 | 83 | 47 | 76 | 2 |
| Astrovirus 1 | 5 | 28 | 8 | 48 | 51 | 32 | 42 | 4 | 76 | 114 | - |
| Astrovirus 2 | - | - | - | - | - | - | 4 | 9 | 2 | - | - |
| Astrovirus 3 | - | 1 | 3 | - | 3 | - | - | 1 | 2 | 2 | - |
| Astrovirus 4 | - | - | 5 | 6 | 7 | 11 | - | 2 | 3 | 13 | 2 |
| Astrovirus 5 | - | - | - | - | 1 | - | - | - | - | - | - |
| Astrovirus 6 | - | - | - | - | - | - | 1 | - | - | - | - |
| Astrovirus 8 | 3 | - | 1 | 2 | - | 4 | - | - | 1 | - | - |
| Small round structured virus | 9 | 8 | 3 | 1 | - | - | 1 | 1 | - | - | - |
| Norovirus genogroup unknown | 121 | 287 | 276 | 178 | 93 | 18 | 9 | 1 | 3 | 1 | - |
| Norovirus GI NT | 184 | 130 | 185 | 57 | 155 | 137 | 106 | 384 | 75 | 70 | 2 |
| Norovirus GI.1 | - | - | - | - | - | - | - | - | - | 1 | - |
| Norovirus GI.2 | - | - | - | - | - | - | - | - | 50 | 6 | - |
| Norovirus GI.3 | - | - | - | - | - | - | - | - | 55 | 4 | 2 |
| Norovirus GI.4 | - | - | - | - | - | - | - | - | 7 | 11 | 1 |
| Norovirus GI.5 | - | - | - | - | - | - | - | - | 4 | - | 1 |
| Norovirus GI.6 | - | - | - | - | - | - | - | - | 5 | 20 | - |
| Norovirus GI.7 | - | - | - | - | - | - | - | - | - | 9 | 2 |
| Norovirus GI.9 | - | - | - | - | - | - | - | - | - | 1 | - |
| Norovirus GII NT | 1953 | 1767 | 1776 | 1936 | 1645 | 2011 | 2015 | 1581 | 1031 | 1100 | 191 |
| Norovirus GII.1 | - | - | - | - | - | - | - | - | 1 | - | - |

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|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Norovirus GII.2 | - | - | - | - | - | - | - | - | 78 | 1365 | 40 |
| Norovirus GII.3 | - | - | - | - | - | - | - | - | 295 | 46 | 31 |
| Norovirus GII.4 | - | - | - | - | - | - | - | - | 826 | 361 | 425 |
| Norovirus GII.5 | - | - | - | - | - | - | - | - | 1 | 2 | - |
| Norovirus GII.6 | - | - | - | - | - | - | - | - | 43 | 114 | 1 |
| Norovirus GII.7 | - | - | - | - | - | - | - | - | 15 | 9 | - |
| Norovirus GII.8 | - | - | - | - | - | - | - | - | 1 | - | 1 |
| Norovirus GII.13 | - | - | - | - | - | - | - | - | 6 | 1 | - |
| Norovirus GII.16 | - | - | - | - | - | - | - | - | - | 1 | - |
| Norovirus GII.17 | - | - | - | - | - | - | - | - | 309 | 106 | 15 |
| Norovirus GII.others | - | - | - | - | - | - | - | - | - | 1 | - |
| Norovirus GI/1 | 4 | 1 | 3 | 1 | 7 | - | - | - | - | - | - |
| Norovirus GI/2 | - | - | 1 | 7 | 9 | 2 | 14 | 47 | - | - | - |
| Norovirus GI/3 | 2 | 10 | - | 3 | 5 | 2 | 4 | 102 | - | - | - |
| Norovirus GI/4 | 69 | 31 | 39 | - | 51 | 25 | 24 | 6 | - | - | - |
| Norovirus GI/5 | - | - | - | - | - | - | 3 | - | - | - | - |
| Norovirus GI/6 | - | - | - | 1 | 12 | 99 | 7 | 3 | - | - | - |
| Norovirus GI/7 | 1 | 3 | 12 | 4 | 4 | 2 | 7 | 1 | - | - | - |
| Norovirus GI/8 | 20 | 7 | 38 | 4 | 13 | 5 | - | - | - | - | - |
| Norovirus GI/9 | - | - | - | 2 | - | - | - | - | - | - | - |
| Norovirus GI/10 | - | - | - | 1 | - | - | - | - | - | - | - |
| Norovirus GI/11 | - | - | - | 1 | - | 4 | 1 | 1 | - | - | - |
| Norovirus GI/12 | - | - | 1 | - | 2 | 3 | 3 | - | - | - | - |
| Norovirus GI/13 | - | - | - | 1 | 1 | 1 | - | - | - | - | - |
| Norovirus GI/14 | 4 | - | - | - | 24 | - | 2 | 2 | - | - | - |
| Norovirus GI/others | - | - | - | - | - | 1 | - | - | - | - | - |
| Norovirus GII/1 | 2 | - | 2 | - | 1 | 1 | 1 | - | - | - | - |
| Norovirus GII/2 | 30 | 30 | 345 | 165 | 89 | 63 | 29 | 3 | - | - | - |
| Norovirus GII/3 | 83 | 37 | 67 | 531 | 29 | 20 | 63 | 283 | - | - | - |
| Norovirus GII/4 | 577 | 369 | 654 | 437 | 517 | 1099 | 641 | 528 | - | - | - |
| Norovirus GII/5 | 1 | - | - | - | 9 | - | - | 2 | - | - | - |
| Norovirus GII/6 | 3 | 141 | 19 | 4 | 27 | 27 | 357 | 8 | - | - | - |
| Norovirus GII/7 | 1 | - | 10 | 5 | 4 | 19 | 5 | 1 | - | - | - |

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|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Norovirus GII/8 | - | - | - | - | - | - | - | 3 | - | - | - |
| Norovirus GII/9 | 1 | - | - | - | - | - | - | - | - | - | - |
| Norovirus GII/11 | - | 1 | - | - | - | 2 | 4 | 220 | - | - | - |
| Norovirus GII/12 | - | 8 | 31 | 45 | 44 | 4 | - | 2 | - | - | - |
| Norovirus GII/13 | 40 | 1 | 26 | 66 | 97 | 53 | 56 | 7 | - | - | - |
| Norovirus GII/14 | - | - | 14 | - | 3 | 3 | 12 | 30 | - | - | - |
| Norovirus GII/16 | 1 | - | - | - | - | - | 1 | - | - | - | - |
| Norovirus GII/17 | - | - | - | - | 2 | - | - | - | - | - | - |
| Norovirus GII/others | - | - | - | - | - | 2 | - | - | - | - | - |
| Sapovirus genogroup unknown | 183 | 174 | 131 | 164 | 175 | 284 | 224 | 307 | 168 | 105 | 40 |
| Sapovirus genogroup I | 13 | 22 | 41 | 71 | 112 | 135 | 84 | 101 | 75 | 91 | 19 |
| Sapovirus genogroup II | 1 | 19 | 18 | 36 | 51 | 28 | 49 | 25 | 59 | 14 | 31 |
| Sapovirus genogroup III | - | - | - | - | 2 | 1 | - | - | - | - | - |
| Sapovirus genogroup IV | 105 | - | - | 1 | 2 | 10 | 5 | 7 | 21 | 2 | 2 |
| Sapovirus genogroup V | 1 | - | 2 | 6 | 1 | - | 4 | 26 | 1 | 2 | 2 |

NT:Not typed

*Season: From September to next August