**Supplemental Digital Content 5.** Likelihood of having each of detected respiratory pathogens in infants with severe bronchiolitis, by hospitalization year

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **2014** | **P-value** |
| Detected pathogens | n=153 (5.3%) | n=566 (19.4%) | n=651 (22.4%) | n=526 (18.1%) | n=25(0.9%) | n=326 (11.2%) | n=501 (17.2%) | n=164 (5.6%) |   |
| **Five most commonly detected pathogens** |  |  |  |  |  |  |
| RSV | 111 (72.5) | 406 (71.7) | 484 (74.3) | 406 (77.2) | 20 (80.0) | 283 (86.8) | 386 (77.0) | 132 (80.5) | <0.001 |
|  RSV-A | 72 (47.1) | 230 (40.6) | 255 (39.2) | 274 (52.1) | 17 (68.0) | 236 (72.4) | 294 (58.7) | 37 (22.6) | <0.001 |
|  RSV-B | 41 (26.8) | 179 (31.6) | 230 (35.3) | 138 (26.2) | 3 (12.0) | 48 (14.7) | 95 (19.0) | 95 (57.9) | <0.001 |
| Rhinovirus | 47 (30.7) | 149 (26.3) | 161 (24.7) | 122 (23.2) | 6 (24.0) | 75 (23.0) | 104 (20.8) | 29 (17.7) | 0.09 |
| Coronavirus | 7 (4.6) | 35 (6.2) | 57 (8.8) | 36 (6.8) | 1 (4.0) | 18 (5.5) | 29 (5.8) | 17 (10.4) | 0.16 |
| NL63 | 0 (0) | 13 (2.3) | 15 (2.3) | 2 (0.4) | 1 (4.0) | 6 (1.8) | 14 (2.8) | 5 (3.0) | 0.047 |
| OC43 | 1 (0.7) | 13 (2.3) | 29 (4.5) | 8 (1.5) | 0 (0) | 7 (2.1) | 7 (1.4) | 3 (1.8) | 0.008 |
| HKU1 | 6 (3.9) | 8 (1.4) | 5 (0.8) | 12 (2.3) | 0 (0) | 2 (0.6) | 8 (1.6) | 8 (4.9) | 0.002 |
| 229E | 0 (0) | 1 (0.2) | 9 (1.4) | 14 (2.7) | 0 (0) | 5 (1.5) | 3 (0.6) | 2 (1.2) | 0.008 |
| Adenovirus | 11 (7.2) | 37 (6.5) | 46 (7.1) | 42 (8.0) | 1 (4.0) | 17 (5.2) | 25 (5.0) | 6 (3.7) | 0.37 |
| hMPV | 3 (2.0) | 25 (4.4) | 36 (5.5) | 54 (10.3) | 1 (4.0) | 19 (5.8) | 23 (4.6) | 13 (7.9) | <0.001 |
|  |  |  |  |  |  |  |  |  |  |
| **Less commonly-detected pathogens** |  |  |  |  |  |  |  |
| PIV | 9 (5.9) | 15 (2.7) | 12 (1.8) | 9 (1.7) | 0 (0) | 9 (2.8) | 18 (3.6) | 2 (1.2) | 0.06 |
| Type 1 | 6 (3.9) | 2 (0.4) | 2 (0.3) | 2 (0.4) | 0 (0) | 2 (0.6) | 3 (0.6) | 0 (0) | <0.001 |
| Type 2 | 3 (2.0) | 5 (0.9) | 1 (0.2) | 1 (0.2) | 0 (0) | 2 (0.6) | 1 (0.2) | 0 (0) | 0.049 |
| Type 3 | 0 (0) | 8 (1.4) | 9 (1.4) | 6 (1.1) | 0 (0) | 5 (1.5) | 15 (3.0) | 2 (1.2) | 0.159 |
| Enterovirus | 2 (1.3) | 19 (3.4) | 26 (4.0) | 16 (3.0) | 0 (0) | 2 (0.6) | 0 (0) | 2 (1.2) | <0.001 |
| Human  bocavirus 1\* | - | - | - | - | 1 (4.0) | 22 (6.7) | 19 (3.8) | 9 (5.5) | <0.001\* |
| Influenza virus | 1 (0.7) | 12 (2.1) | 10 (1.5) | 1 (0.2) | 0 (0) | 2 (0.6) | 10 (2.0) | 4 (2.4) | 0.07 |
| A | 1 (0.7) | 9 (1.6) | 4 (0.6) | 0 (0.0) | 0 (0) | 2 (0.6) | 4 (0.8) | 4 (2.4) | 0.044 |
| B | 0 (0) | 3 (0.5) | 2 (0.3) | 0 (0) | 0 (0) | 0 (0) | 6 (1.2) | 0 (0) | 0.053 |
| 2009 novel  H1N1 | 0 (0) | 0 (0) | 4 (0.6) | 1 (0.2) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0.17 |
| *Mycoplasma*  *pneumoniae* | 1 (0.7) | 5 (0.9) | 5 (0.8) | 4 (0.8) | 1 (4.0) | 6 (1.8) | 6 (1.2) | 0 (0) | 0.35 |
| *Bordetella*  *pertussis* | 0 (0) | 1 (0.2) | 2 (0.3) | 1 (0.2) | 0 (0) | 2 (0.6) | 0 (0) | 0 (0) | 0.71 |
| Data are no. (%) of infants. Percentages may not equal 100 because of coinfections. |
| Abbreviations: hMPV, human metapneumovirus; PIV, parainfluenza virus; RSV, respiratory syncytial virus |
| \* Measured in 2011-2014 |