

Respiratory Virus Statistics FY 17-18

Respiratory Virus Panel (BioFire)

| Virus | DEC | | | | JAN | | | | FEB | | | | MAR | | | | APR | | | | MAY | | | | Total | | | | | | | | |
|--------------------------|-----|----|-----|------|-----|-----|-----|------|-----|-----|-----|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-------|----|-----|----|-----|-----|------|------|-------|
| | ECH | GH | GSH | YH* | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | Total |
| Adenovirus | 1 | | 2 | 19 | 3 | | 1 | 16 | 1 | | | 6 | | | | | | | | | | | | | | | | | 5 | 3 | 41 | 42 | |
| Bordetella pertussis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bordetella parapertussis | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | | |
| Chlamyophila pneumo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coronavirus 229E | | | | | | | | 1 | | | | 2 | | | | | | | | | | | | | | | | | | 3 | 3 | | |
| Coronavirus HKU1 | | | | 19 | 2 | 2 | 2 | 43 | 4 | 4 | 8 | 21 | | | | | | | | | | | | | | | | 6 | 6 | 10 | 83 | 105 | |
| Coronavirus NL63 | | | 3 | 32 | | 1 | 1 | 21 | 2 | | | 5 | | | | | | | | | | | | | | | | 2 | 1 | 4 | 58 | 65 | |
| Coronavirus OC43 | 1 | | 1 | 11 | 1 | 1 | 1 | 22 | | 2 | 2 | 17 | | | | | | | | | | | | | | | | 2 | 3 | 4 | 50 | 59 | |
| Influenza A | | 1 | | 3 | | 1 | | 14 | | | 1 | 9 | | | | | | | | | | | | | | | | | 2 | 1 | 26 | 29 | |
| H1 Seasonal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H3 Seasonal | | 1 | | 60 | 4 | 9 | 5 | 224 | 5 | 6 | 3 | 77 | | | | | | | | | | | | | | | | 9 | 16 | 8 | 361 | 394 | |
| H1N1 (2009) | | | 1 | 9 | | 4 | 1 | 49 | 4 | 1 | 1 | 32 | | | | | | | | | | | | | | | | 4 | 5 | 3 | 90 | 102 | |
| Influenza B | | | | 5 | 1 | | | 12 | 2 | 1 | 10 | 36 | | | | | | | | | | | | | | | | | 3 | 1 | 10 | 53 | 67 |
| Metapneumovirus | 2 | | | 22 | 2 | 4 | 7 | 38 | 5 | 10 | 6 | 21 | | | | | | | | | | | | | | | | 9 | 14 | 13 | 81 | 117 | |
| Mycoplasma pneumo | | | | 1 | | | | 2 | | | | 3 | | | | | | | | | | | | | | | | | | | 6 | 6 | |
| Parainfluenza 1 | | | 2 | 12 | 1 | 1 | | 8 | | 1 | | | | | | | | | | | | | | | | | | 1 | 2 | 2 | 20 | 25 | |
| Parainfluenza 2 | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | |
| Parainfluenza 3 | | | | 1 | | | | 2 | | | 1 | | | | | | | | | | | | | | | | | | | 1 | 3 | 4 | |
| Parainfluenza 4 | | | | 7 | 1 | 1 | | 3 | | | | 2 | | | | | | | | | | | | | | | | 1 | 1 | | 12 | 14 | |
| Rhinovirus / Enterovirus | 3 | 3 | 6 | 71 | | 4 | 5 | 39 | 4 | 9 | 4 | 40 | | | | | | | | | | | | | | | | 7 | 16 | 15 | 150 | 188 | |
| RSV | 6 | 5 | 3 | 105 | 1 | 3 | 9 | 129 | 1 | 2 | 3 | 46 | | | | | | | | | | | | | | | | 8 | 10 | 15 | 280 | 313 | |
| Total Positive | 13 | 5 | 18 | 377 | 16 | 31 | 33 | 625 | 28 | 36 | 39 | 317 | | | | | | | | | | | | | | | | 57 | 72 | 90 | 1319 | 1538 | |
| Total Negative | 22 | 9 | 47 | 685 | 52 | 88 | 89 | 1208 | 94 | 110 | 143 | 785 | | | | | | | | | | | | | | | | | 168 | 207 | 279 | 2678 | 3332 |
| Total Tested | 35 | 14 | 65 | 1062 | 68 | 119 | 122 | 1833 | 122 | 146 | 182 | 1102 | | | | | | | | | | | | | | | | | 225 | 279 | 369 | 3997 | 4870 |

* 10% of the YH patients testing positive were infected with 2 or more respiratory viruses (see TABLE below)

Influenza A/B and RSV (Cepheid)

| Virus | DEC | | | | JAN | | | | FEB | | | | MAR | | | | APR | | | | MAY | | | | Total | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-------|----|-----|----|-------|------|------|------|------|
| | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | Total | | | | |
| Influenza A | 29 | 42 | 38 | 51 | 91 | 139 | 180 | 220 | 77 | 62 | 164 | 74 | | | | | | | | | | | | | | | | | 197 | 243 | 382 | 345 | 1167 |
| Influenza B | 6 | 5 | 3 | 5 | 43 | 18 | 40 | 14 | 65 | 24 | 209 | 25 | | | | | | | | | | | | | | | | | 114 | 47 | 252 | 44 | 457 |
| RSV | 48 | 46 | 104 | 56 | 87 | 65 | 109 | 58 | 32 | 28 | 49 | 14 | | | | | | | | | | | | | | | | | 167 | 139 | 262 | 128 | 696 |
| Total Positive | 83 | 93 | 145 | 112 | 221 | 222 | 329 | 292 | 174 | 114 | 422 | 113 | | | | | | | | | | | | | | | | | 478 | 429 | 896 | 517 | 2320 |
| Total Negative | 304 | 220 | 503 | 225 | 460 | 433 | 806 | 476 | 369 | 284 | 837 | 235 | | | | | | | | | | | | | | | | | 1133 | 937 | 2146 | 936 | 5152 |
| Total Tested | 387 | 313 | 648 | 337 | 681 | 655 | 1135 | 768 | 543 | 398 | 1259 | 348 | | | | | | | | | | | | | | | | | 1611 | 1366 | 3042 | 1453 | 7472 |

Total Influenza A/B and RSV

| Virus | DEC | | | | JAN | | | | FEB | | | | MAR | | | | APR | | | | MAY | | | | Total | | | | | | | | |
|----------------|-----|-----|-----|------|-----|-----|------|------|-----|-----|------|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-------|----|-----|----|-------|------|------|------|-------|
| | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | ECH | GH | GSH | YH | Total | | | | |
| Influenza A | 29 | 44 | 39 | 123 | 95 | 153 | 186 | 507 | 88 | 70 | 169 | 202 | | | | | | | | | | | | | | | | | 212 | 267 | 394 | 832 | 1705 |
| Influenza B | 6 | 5 | 3 | 10 | 44 | 18 | 40 | 26 | 67 | 25 | 219 | 61 | | | | | | | | | | | | | | | | | 117 | 48 | 262 | 97 | 524 |
| RSV | 54 | 46 | 107 | 161 | 88 | 68 | 118 | 187 | 33 | 30 | 52 | 60 | | | | | | | | | | | | | | | | | 175 | 144 | 277 | 408 | 1004 |
| Total Positive | 89 | 95 | 149 | 294 | 227 | 239 | 344 | 720 | 188 | 125 | 440 | 323 | | | | | | | | | | | | | | | | | 504 | 459 | 933 | 1337 | 3233 |
| Total Negative | 326 | 229 | 550 | 910 | 512 | 521 | 895 | 1684 | 463 | 394 | 980 | 1020 | | | | | | | | | | | | | | | | | 1301 | 1144 | 2425 | 3614 | 8484 |
| Total Tested | 415 | 324 | 699 | 1204 | 739 | 760 | 1239 | 2404 | 651 | 519 | 1420 | 1343 | | | | | | | | | | | | | | | | | 1805 | 1603 | 3358 | 4951 | 11717 |

Patients With Co-Infections - December 1, 2017 to February 28, 2018

| Etiology | Number | | | |
|--|------------|----------|----------|----------|
| | YH | GH | GSH | ECH |
| Influenza A (H3) + Influenza A (2009 H1N1) | 1 | | | |
| Influenza A + Influenza B | 1 | | | |
| Influenza A + Adenovirus | 2 | | | 1 |
| Influenza A + Adenovirus + Enterovirus/Rhinovirus | 1 | | | |
| Influenza A + Enterovirus/Rhinovirus | 6 | | | |
| Influenza A + Coronavirus | 14 | | | |
| Influenza A + Coronavirus + Enterovirus/Rhinovirus | 1 | | | |
| Influenza A + Coronavirus + Enterovirus/Rhinovirus + RSV | 1 | | | |
| Influenza A + Metapneumovirus | 3 | | | |
| Influenza A + RSV | 13 | 1 | 2 | 6 |
| Influenza B + RSV | | 1 | 3 | |
| Influenza B + Enterovirus/Rhinovirus + RSV | 1 | | | |
| Adenovirus + RSV | 7 | | | |
| Adenovirus + Coronavirus | 1 | | | 1 |
| Adenovirus + Coronavirus + Enterovirus/Rhinovirus | 1 | | | |
| Adenovirus + Coronavirus + RSV | 2 | | | |
| Adenovirus + Enterovirus/Rhinovirus | 7 | | | |
| Adenovirus + Enterovirus/Rhinovirus + RSV | 2 | | | |
| Adenovirus + Enterovirus/Rhinovirus + Parainfluenza Virus + RSV | 1 | | | |
| Adenovirus + Mycoplasma pneumoniae | 1 | | | |
| Coronavirus + Enterovirus/Rhinovirus | 6 | 1 | | |
| Coronavirus + Enterovirus/Rhinovirus + RSV | 1 | | | |
| Coronavirus + Enterovirus/Rhinovirus + Parainfluenza Virus | 1 | | | |
| Coronavirus + Enterovirus/Rhinovirus + Parainfluenza Virus + RSV | 1 | | | |
| Coronavirus + Influenza B | 1 | | | |
| Coronavirus + Influenza B + RSV | 1 | | | |
| Coronavirus + Metapneumovirus | 3 | 1 | 2 | |
| Coronavirus + Mycoplasma pneumoniae + RSV | 1 | | | |
| Coronavirus + Parainfluenza Virus | 3 | | | |
| Coronavirus + RSV | 20 | 1 | 1 | |
| Enterovirus/Rhinovirus + Parainfluenza Virus | 1 | | | |
| Enterovirus/Rhinovirus + RSV | 15 | | | |
| Metapneumovirus + Coronavirus | 1 | | | |
| Metapneumovirus + Enterovirus/Rhinovirus | 2 | | | |
| Metapneumovirus + Mycoplasma pneumoniae | 1 | | | |
| Metapneumovirus + RSV | 1 | | | 1 |
| Parainfluenza + RSV | 1 | | | |
| TOTAL | 126 | 5 | 8 | 9 |