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| **Supplemental Table 1. 2018-19 HAI antibody response stratified by vaccine type received in 2017-18**  |
| **2018-19 HAI antibody response** | **2017-18 high dose vaccine recipients n=57** | **2017-18 standard dose vaccine recipients n=32** | **p-value** |
| **A/H1NI/Michigan** |
| Day 0 GMT | 43 (31-59) | 29 (19-44) | 0.15 |
| Day 28 GMT | 86 (60-123) | 118 (81-172) | 0.25 |
| Day 28 GMFR | 2.0 (1.6-2.5) | 4.1 (2.8-5.9) | **<0.001** |
| Day 0 seropositivity rate, N (%) | 34 (59.7) | 13 (40.6) | 0.08 |
| Day 28 seropositivity rate, N (%) | 43 (75.4) | 29 (90.6) | 0.08 |
| Seroconversion, N (%) | 13 (22.8) | 16 (50.0) | **0.009** |
| **A(H3N2)/Singapore** |
| Day 0 GMT | 89 (72-112) | 83 (69-101) | 0.62 |
| Day 28 GMT | 142 (110-184) | 186 (144-241) | 0.17 |
| Day 28 GMFR | 1.6 (1.3-1.9) | 2.2 (1.7-2.9) | **0.02** |
| Day 0 seropositivity rate, N (%) | 52 (91.2) | 32 (100) | 0.10 |
| Day 28 seropositivity rate, N (%) | 57 (100) | 32 (100) | -- |
| Seroconversion, N (%) | 6 (10.5) | 9 (28.1) | **0.03** |
| **B/Colorado-Victoria lineage** |
| Day 0 GMT | 52 (39-69) | 38 (26-54) | 0.16 |
| Day 28 GMT | 84 (63-113) | 68 (45-102) | 0.38 |
| Day 28 GMFR | 1.6 (1.3-2.0) | 1.8 (1.2-2.7) | 0.62 |
| Day 0 seropositivity rate, N (%) | 39 (68.4) | 16 (50.0) | 0.09 |
| Day 28 seropositivity rate, N (%) | 46 (80.7) | 23 (71.9) | 0.34 |
| Seroconversion, N (%) | 10 (17.5) | 4 (12.5) | 0.53 |
| **B/Phuket-Yamagata lineage** |
| Day 0 GMT | 30 (23-40) | 34 (25-48) | 0.57 |
| Day 28 GMT | 62 (46-85) | 70 (47-103) | 0.66 |
| Day 28 GMFR | 2.1 (1.7-2.5) | 2.0 (1.5-2.8) | 0.92 |
| Day 0 seropositivity rate, N (%) | 26 (45.6) | 17 (53.1) | 0.50 |
| Day 28 seropositivity rate, N (%) | 40 (70.2) | 27 (84.4) | 0.14 |
| Seroconversion, N (%) | 15 (26.3) | 8 (25.0) | 0.89 |

GMT = Geometric mean titer. GMFR is GMTD28/GMTD0 HAI titer.
Seropositivity = HAI titer ≥40.
Seroconversion=4-fold rise in postvaccination titer given Day 0 titer ≥10