|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Vaccine** | **Serum Group** | **GMT** | | | | | | **Mean Omicron fold drop from** | | | | | **Mean fold drop to WT** | | | |
| **WT** | **Alpha** | **Beta** | **Gamma** | **Delta** | **Omicron** | **WT** | **Alpha** | **Beta** | **Gamma** | **Delta** | **Alpha** | **Beta** | **Gamma** | **Delta** |
| **Pfizer** | 3x Vax | 2227 (1206; 4112) | 4017 (NA; NA) | 396 (97; 1622) | NA (NA; NA) | 710 (276; 1825) | 312 (170; 572) | 7.4 (5.4; 10.1) | 2.2 (0.1; 49) | 3.8 (1.9; 7.7) | 4.8 (NA; NA) | 4.3 (2.4; 7.8) | 1.5 (NA; NA) | 2.8 (1.1; 7) | NA (NA; NA) | 2.5 (1.6; 4) |
| 2x Vax | 274 (186; 404) | 269 (123; 590) | 65 (36; 117) | 67 (12; 376) | 139 (85; 228) | 15 (11; 20) | 17.5 (13.8; 22.1) | 11.8 (5.5; 25.3) | 4.4 (3.1; 6.1) | 4.1 (2.9; 5.9) | 6.8 (5.1; 9.1) | 1 (0.5; 1.9) | 5.3 (3.6; 7.7) | 2.3 (0.2; 26) | 2.7 (1.9; 3.7) |
| **Moderna** | 3x Vax | 2806 (1975; 3985) | 2267 (NA; NA) | 1119 (679; 1846) |  | 954 (360; 2529) | 545 (297; 1000) | 5.3 (3.4; 8) | 3.3 (NA; NA) | 2 (1.1; 3.9) |  | 3.4 (0.4; 27.9) | 1.5 (NA; NA) | 2.7 (2.2; 3.3) |  | 2.5 (1.1; 5.8) |
| 2x Vax | 881 (520; 1492) | 909 (272; 3041) | 123 (68; 221) |  | 154 (57; 418) | 35 (21; 57) | 25.7 (17.2; 38.4) | 47.4 (45.2; 49.8) | 6.1 (3.3; 11.3) |  | 9.6 (3.7; 24.9) | 1.3 (NA; NA) | 6.6 (4.6; 9.4) |  | 3.3 (2.2; 4.8) |
| **mRNA** | 3x Vax | 1066 (556; 2045) |  | 215 (104; 442) |  | 208 (116; 373) | 112 (57; 220) | 9.5 (6.4; 14.1) |  | 2.7 (1.5; 4.8) |  | 4.4 (2.4; 8.1) |  | 4.3 (2.4; 7.8) |  | 2.3 (1.5; 3.5) |
| 2x Vax | 455 (151; 1368) | 177 (60; 524) | 24 (6; 87) | 81 (25; 268) | 85 (23; 315) | 17 (6; 45) | 25.9 (12.1; 55.4) | 17.3 (1.6; 184.3) | 3.1 (1.2; 8.1) | 7.9 (0.5; 130.3) | 10.3 (3.8; 27.7) | 1.8 (0.7; 4.8) | 8.1 (4.6; 14.3) | 4 (1.6; 10.2) | 2.3 (1.3; 4.1) |
| **AZ** | 3x Vax | 726 (NA; NA) |  |  |  | 206 (NA; NA) | 57 (NA; NA) | 12.7 (NA; NA) |  |  |  | 3.6 (NA; NA) |  |  |  | 3.5 (NA; NA) |
| 2x Vax | 229 (170; 309) | 190 (NA; NA) | 60 (37; 96) |  | 92 (68; 124) | 18 (10; 31) | 12.8 (5; 32.4) | 23.8 (NA; NA) | 5.7 (0.8; 38.5) |  | 6.8 (4.6; 10.1) | NA (NA; NA) | 3.6 (0.8; 16.2) |  | 3 (1.9; 4.7) |
| **J&J** | 3x Vax | 123 (NA; NA) |  |  |  |  | 41 (NA; NA) | 3 (NA; NA) |  |  |  |  |  |  |  |  |
| 2x Vax | 130 (61; 277) |  | 39 (15; 101) |  | 48 (36; 65) | 14 (7; 31) | 9.1 (3.5; 24) |  | 2 (0; 11236.4) |  | 2.4 (0.2; 37.3) |  | 5.7 (0; 386074.4) |  | 4.6 (0; 855.3) |
| **Other** | 3x Vax | 289 (282; 297) | 226 (NA; NA) | 131 (NA; NA) |  | 171 (NA; NA) | 29 (11; 73) | 10.1 (0; 61582.2) | 4 (NA; NA) | 2.3 (NA; NA) |  | 3.1 (NA; NA) | 1.3 (NA; NA) | 2.2 (NA; NA) |  | 1.7 (NA; NA) |
| 2x Vax | 68 (31; 149) |  |  |  | 46 (7; 291) | 8 (6; 11) | 8.9 (3.2; 24.9) |  |  |  | 3.9 (0; 10882399.5) |  |  |  | 1.7 (0; 61.5) |
| **Het** | 3x Vax | 628 (247; 1597) |  |  |  | 289 (35; 2395) | 122 (45; 328) | 5.2 (1.9; 14.3) |  |  |  | 6.4 (0.3; 143.4) |  |  |  | 1.6 (NA; NA) |
| 2x Vax | 1260 (945; 1682) | 786 (NA; NA) | 306 (193; 487) |  | 165 (27; 1028) | 85 (59; 121) | 15.1 (10.9; 21) | 18.3 (NA; NA) | 5.2 (1; 26.6) |  | 6.9 (3.1; 15.7) | NA (NA; NA) | 4.3 (0.4; 45.2) |  | 2.8 (0.6; 14.2) |