Supplementary Table 1: BA.1 Geometric Mean Titer (GMT) and mean fold drops per serum group (conv = convalescent). Mean fold drops were calculated from fold drops per study, not from GMT fold drops. Studies reporting fold drops but not GMTs result in a discrepancy between GMT based mean fold drop and individual study based mean fold drop. The 95%CI is given in parentheses, the number of data points n in the next line. WT summarizes wild-type like strains (e.g: 614D, 614G).

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| **Serum Group** | **GMT** | | | | | | **Mean Omicron fold drop from** | | | | | **Mean fold drop to WT** | | | |
| **WT** | **Alpha** | **Beta** | **Gamma** | **Delta** | **BA.1** | **WT** | **Alpha** | **Beta** | **Gamma** | **Delta** | **Alpha** | **Beta** | **Gamma** | **Delta** |
| **2x Vax** | 334 (253; 440)  n=87 | 173 (70; 426)  n=10 | 75 (53; 105)  n=40 | 153 (43; 541)  n=6 | 123 (81; 185)  n=44 | 18 (15; 22)  n=87 | 18 (14.9; 21.7)  n=108 | 14.6 (6.3; 34.2)  n=11 | 4.2 (3.3; 5.3)  n=44 | 18.2 (8.4; 39.8)  n=7 | 6.8 (5.2; 8.8)  n=51 | 1.3 (1; 1.7)  n=11 | 4.6 (3.8; 5.5)  n=44 | 2.6 (1.6; 4.2)  n=7 | 2.7 (2.3; 3.3)  n=50 |
| **3x Vax** | 1344 (1014; 1781)  n=82 | 453 (200; 1026)  n=9 | 354 (210; 598)  n=27 |  | 398 (245; 648)  n=32 | 221 (163; 300)  n=82 | 6.3 (5.6; 7.1)  n=90 | 4 (3.4; 4.6)  n=9 | 2.6 (2.1; 3.1)  n=30 |  | 2.9 (2.4; 3.5)  n=34 | 1 (0.7; 1.4)  n=9 | 2.6 (2.1; 3.3)  n=30 |  | 2.3 (1.9; 2.6)  n=33 |
| **Inf + Vax** | 2840 (1621; 4977)  n=31 | 683   n=1 | 661 (250; 1743)  n=9 | 360   n=1 | 1677 (851; 3305)  n=16 | 348 (182; 665)  n=31 | 9.4 (7; 12.8)  n=40 | 10.5   n=1 | 5.9 (3.7; 9.3)  n=12 | 5.5   n=1 | 4.7 (2.5; 8.9)  n=16 | 1.7   n=1 | 3.1 (2.2; 4.2)  n=12 | 3.3   n=1 | 1.8 (1.2; 2.8)  n=16 |
| **Vax + Inf** | 3353 (1281; 8775)  n=10 | 2223 (294; 16813)  n=2 | 1090 (34; 34774)  n=3 | 1112   n=1 | 2100 (761; 5792)  n=10 | 190 (51; 708)  n=10 | 15 (9.4; 24)  n=15 | 15.1 (0.9; 242.4)  n=2 | 3 (1.7; 5.4)  n=3 | 11   n=1 | 8.4 (4.5; 15.7)  n=12 | 1.2 (0; 504.7)  n=2 | 5 (1.3; 18.9)  n=3 | 3.2   n=1 | 1.9 (1.2; 2.9)  n=10 |
| **Vax + BA.1** | 3272 (2039; 5250)  n=31 | 807 (120; 5434)  n=5 | 1120 (427; 2942)  n=10 |  | 942 (467; 1903)  n=17 | 1505 (977; 2319)  n=31 | 2.2 (1.7; 2.8)  n=32 | 1 (0.4; 2.9)  n=5 | 1 (0.7; 1.5)  n=10 |  | 1.3 (0.8; 2.1)  n=18 | 1.1 (0.5; 2.3)  n=5 | 2.2 (1.4; 3.7)  n=10 |  | 1.8 (1.3; 2.5)  n=15 |
| **Vax + BA.2** | 1626 (699; 3782)  n=6 | 1486 (1302; 1697)  n=2 | 547 (377; 793)  n=2 |  | 668 (265; 1683)  n=3 | 658 (193; 2240)  n=6 | 2.5 (1; 6)  n=6 | 3.8 (0.8; 17.4)  n=2 | 1.4 (0.5; 3.9)  n=2 |  | 1.8 (0.7; 4.1)  n=3 | 0.7 (0.7; 0.7)  n=2 | 1.7 (1.7; 1.7)  n=2 |  | 2.1 (0.1; 30)  n=3 |
| **WT conv** | 405 (246; 667)  n=29 | 176 (30; 1044)  n=6 | 56 (17; 184)  n=7 | 37 (2; 565)  n=3 | 183 (89; 376)  n=16 | 18 (13; 27)  n=29 | 19.5 (14.6; 26.1)  n=33 | 13.1 (7.3; 23.6)  n=7 | 4.1 (2; 8.1)  n=9 | 6.8 (2.5; 18.8)  n=4 | 10.6 (5.7; 19.7)  n=18 | 2.1 (1.5; 3)  n=7 | 6.1 (3.7; 10)  n=9 | 3.5 (1.2; 10.1)  n=4 | 2.2 (1.7; 2.8)  n=18 |
| **Alpha conv** | 668 (65; 6815)  n=6 | 699 (58; 8501)  n=5 | 142 (12; 1679)  n=5 | 66 (0; 29728)  n=3 | 328 (23; 4763)  n=6 | 23 (7; 84)  n=6 | 27.4 (13; 57.7)  n=8 | 43.2 (21.1; 88.3)  n=7 | 10.2 (7.6; 13.8)  n=6 | 9.7 (4.2; 22.4)  n=4 | 14.9 (7.3; 30.6)  n=8 | 0.6 (0.3; 1)  n=7 | 2.7 (1; 7.4)  n=6 | 2.6 (0.4; 15.4)  n=4 | 1.8 (1.2; 2.8)  n=8 |
| **Beta conv** | 110 (9; 1290)  n=5 | 133 (2; 10303)  n=4 | 298 (11; 7976)  n=4 | 158 (0; 596407)  n=3 | 75 (10; 589)  n=5 | 27 (3; 215)  n=5 | 6.8 (3.5; 13.4)  n=6 | 11 (3.9; 31.5)  n=5 | 24.7 (15.2; 40.3)  n=5 | 18.1 (2.5; 131.8)  n=4 | 4.4 (1.4; 13.8)  n=6 | 0.8 (0.3; 2.3)  n=5 | 0.3 (0.2; 0.8)  n=5 | 0.4 (0.1; 3.2)  n=4 | 1.5 (0.6; 3.9)  n=6 |
| **Gamma conv** | 67 (4; 1086)  n=3 | 77 (2; 3341)  n=3 | 103 (2; 5508)  n=3 | 275 (0; 179386178094)  n=2 | 26 (0; 1470)  n=3 | 20 (1; 466)  n=3 | 3.7 (1.2; 11.3)  n=4 | 4.2 (1.9; 9.2)  n=4 | 6.1 (3.6; 10.3)  n=4 | 15.1 (2; 112.7)  n=3 | 1.4 (0.9; 2.3)  n=4 | 0.9 (0.5; 1.6)  n=4 | 0.6 (0.3; 1.2)  n=4 | 0.3 (0.1; 0.9)  n=3 | 2.6 (0.9; 7.6)  n=4 |
| **Delta conv** | 437 (81; 2371)  n=8 | 195 (14; 2706)  n=5 | 72 (5; 1090)  n=5 | 70 (3; 1939)  n=3 | 2294 (451; 11673)  n=8 | 50 (14; 185)  n=8 | 6.3 (2.8; 14.1)  n=10 | 6 (2; 18.1)  n=6 | 2.5 (0.5; 11.8)  n=6 | 3.2 (0.4; 28.9)  n=4 | 36.7 (19.4; 69.4)  n=10 | 1.1 (0.7; 1.7)  n=6 | 2.7 (1.4; 5)  n=6 | 1.6 (0.3; 7.8)  n=4 | 0.2 (0.1; 0.3)  n=10 |
| **BA.1 conv** | 71 (26; 194)  n=12 | 40 (3; 460)  n=4 | 62 (19; 205)  n=7 | 16 (0; 31041577)  n=2 | 53 (17; 167)  n=10 | 456 (144; 1438)  n=12 | 0.2 (0.1; 0.5)  n=12 | 0.1 (0; 0.9)  n=4 | 0.2 (0; 0.6)  n=7 | 0.1 (0; 0.7)  n=2 | 0.2 (0.1; 0.5)  n=10 | 1.7 (1.1; 2.5)  n=4 | 1.5 (0.8; 2.7)  n=7 | 1 (0; 70)  n=2 | 1.1 (0.8; 1.7)  n=9 |
| **BA.2 conv** | 37 (0; 6933)  n=3 | 11   n=1 | 11   n=1 | 5   n=1 | 15 (0; 3013)  n=2 | 26 (1; 840)  n=3 | 1.4 (0.2; 8.5)  n=3 | 0.8   n=1 | 0.8   n=1 | 0.4   n=1 | 1.3 (0.1; 30)  n=2 | 1.1   n=1 | 1.1   n=1 | 2.4   n=1 | 0.7 (0; 45.1)  n=2 |