

Supplementary file

Table S1. Characteristics of all investigated close contacts by COVID-19 vaccination history (No., %)

| Age(years) | Total | 0-doses | 1-dose | | | 2-dose | | | | 3-dose | |
|------------|-------|------------|-------------|------------|----------|-----------|------------|-------------|-------------|-----------|-------------|
| | | | 0-14 days * | 15-90 days | >90 days | 0-14 days | 15-90 days | 91-180 days | >180 days | 0-6 days | ≥7 days |
| Total | 10788 | 644 | 761 | 128 | 68 | 16 | 605 | 4455 | 2168 | 388 | 1555 |
| 3-11 | 1028 | 227 (22.1) | 733 (71.3) | 68 (6.6) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) |
| 12-17 | 896 | 14 (1.6) | 25 (2.8) | 14 (1.6) | 6 (0.7) | 6 (0.7) | 163 (18.2) | 668 (74.6) | 0 (0) | 0 (0) | 0 (0) |
| 18-59 | 7740 | 248 (3.2) | 1 (0) | 39 (0.5) | 55 (0.7) | 9 (0.1) | 309 (4) | 3150 (40.7) | 2064 (26.7) | 364 (4.7) | 1501 (19.4) |
| ≥60 | 1124 | 155 (13.8) | 2 (0.2) | 7 (0.6) | 7 (0.6) | 1 (0.1) | 133 (11.8) | 637 (56.7) | 104 (9.3) | 24 (2.1) | 54 (4.8) |
| Positive | 503 | 39 | 14 | 7 | 4 | 0 | 30 | 269 | 97 | 7 | 36 |
| 3-11 | 24 | 7 (29.2) | 13 (54.2) | 4 (16.7) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) |
| 12-17 | 104 | 1 (1) | 0 (0) | 0 (0) | 1 (1) | 0 (0) | 12 (11.5) | 90 (86.5) | 0 (0) | 0 (0) | 0 (0) |
| 18-59 | 290 | 12 (4.1) | 1 (0.3) | 2 (0.7) | 3 (1) | 0 (0) | 12 (4.1) | 133 (45.9) | 85 (29.3) | 7 (2.4) | 35 (12.1%) |
| ≥60 | 85 | 19 (22.4) | 0 (0) | 1 (1.2) | 0 (0) | 0 (0) | 6 (7.1) | 46 (54.1) | 12 (14.1) | 0 (0) | 1 (1.2) |
| Negative | 10285 | 605 | 747 | 121 | 64 | 16 | 575 | 4186 | 2071 | 381 | 1519 |
| 3-11 | 1004 | 220 (21.9) | 720 (71.7) | 64 (6.4) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) | 0 (0) |
| 12-17 | 792 | 13 (1.6) | 25 (3.2) | 14 (1.8) | 5 (0.6) | 6 (0.8) | 151 (19.1) | 578 (73) | 0 (0) | 0 (0) | 0 (0) |
| 18-59 | 7450 | 236 (3.2) | 0 (0) | 37 (0.5) | 52 (0.7) | 9 (0.1) | 297 (4) | 3017 (40.5) | 1979 (26.6) | 357 (4.8) | 1466 (19.7) |
| ≥60 | 1039 | 136 (13.1) | 2 (0.2) | 6 (0.6) | 7 (0.7) | 1 (0.1) | 127 (12.2) | 591 (56.9) | 92 (8.9) | 24 (2.3) | 53 (5.1) |

* Values in this row are time in days between the last vaccine dose and exposure to SARS-CoV-2.