

Patient	Group	Sex	Age	1. vaccination	Vaccine	2. vaccination	Vaccine	3. vaccination	Vaccine	Positive PCR	Omicron subvariant	Sample collection
1	O-Inf+Vacc	female	51-60	Mar-21	Spikevax	Jun-21	Spikevax	Dec-21	Spikevax	Feb-22	BA.1	May-22
2	O-Inf+Vacc	female	41-50	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	Mar-22	BA.2	May-22
3	O-Inf+Vacc	female	61-70	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	Mar-22	BA.2	May-22
4	O-Inf+Vacc	male	71-80	Mar-21	Spikevax	Jun-21	Spikevax	Nov-21	Spikevax	Apr-22	BA.2	May-22
5	O-Inf+Vacc	male	51-60	Jan-21	Spikevax	Feb-21	Spikevax	Oct-21	Spikevax	Mar-22	BA.2	May-22
6	O-Inf+Vacc	female	41-50	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	Apr-22	BA.2	May-22
7	O-Inf+Vacc	female	61-70	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Spikevax	Mar-22	BA.2	May-22
8	O-Inf+Vacc	female	11-20	Jan-22	Spikevax	Feb-22	Spikevax	Dec-21	Spikevax	Feb-22	BA.1	May-22
9	O-Inf+Vacc	female	41-50	Apr-21	Spikevax	Jun-21	Spikevax	Dec-21	Spikevax	Feb-22	BA.1	May-22
10	O-Inf+Vacc	male	31-40	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Spikevax	Mar-22	BA.2	Jun-22
11	O-Inf+Vacc	male	21-30	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	Feb-22	BA.1	May-22
12	O-Inf+Vacc	female	21-30	Mar-21	Comirnaty	May-21	Comirnaty	Dec-21	Comirnaty	Feb-22	BA.1	May-22
13	O-Inf+Vacc	female	31-40	Apr-21	Spikevax	Apr-21	Spikevax	Nov-21	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
14	O-Inf+Vacc	female	21-30	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Comirnaty	Nov-22	BA.2	Jan-23
15	O-Inf+Vacc	male	61-70	Jan-21	Spikevax	Feb-21	Spikevax	Apr-21	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
16	O-Inf+Vacc	male	41-50	Jan-21	Spikevax	Feb-21	Spikevax	May-21	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
17	O-Inf+Vacc	female	51-60	Mar-21	Spikevax	Jun-21	Spikevax	Dec-21	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
18	O-Inf+Vacc	female	21-30	Apr-21	Spikevax	May-21	Spikevax	Mar-21	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
19	O-Inf+Vacc	female	21-30	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	Nov-22	BA.2	Jan-23
20	O-Inf+Vacc	female	21-30	Jan-21	Spikevax	Oct-21	Spikevax	Oct-21	Spikevax	Nov-22	BA.2	Jan-23
21	O-Inf+Vacc	male	31-40	Jul-21	Spikevax	Jul-21	Spikevax	Oct-21	Spikevax	Nov-22	BA.2	Jan-23
22	O-Inf+Vacc	male	21-30	Mar-21	Spikevax	Feb-21	Spikevax	Oct-21	Spikevax	Jan-23	BA.5/BQ.1	Jan-23
23	O-Inf+Vacc	female	31-40	May-21	Spikevax	Feb-21	Spikevax	Oct-21	Spikevax	Jan-23	BA.5/BQ.1	Jan-23
24	O-Inf+Vacc	male	31-40	Aug-21	Comirnaty	Feb-21	Comirnaty	Oct-21	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
25	O-Inf+Vacc	female	21-30	Feb-21	Spikevax	Feb-21	Spikevax	Oct-21	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
26	O-Inf+Vacc	female	21-30	Sep-21	Comirnaty	Nov-21	Comirnaty	Oct-22	Comirnaty	Oct-22	BA.2	Jan-23
27	O-Inf+Vacc	female	21-30	Mar-21	Spikevax	Apr-21	Spikevax	Oct-22	Comirnaty	Oct-22	BA.2	Jan-23
28	O-Inf+Vacc	male	21-30	Apr-21	Spikevax	May-21	Spikevax	Dec-21	Spikevax	Nov-22	BA.2	Jan-23
29	O-Inf+Vacc	female	21-30	Mar-22	Spikevax	Aug-22	Spikevax	Feb-22	Spikevax	Nov-22	BA.2	Jan-23
30	O-Inf+Vacc	female	11-20	Apr-21	Spikevax	Oct-21	Spikevax	Mar-22	Spikevax	Nov-22	BA.2	Jan-23
31	O-Inf+Vacc	female	61-70	Mar-21	Spikevax	Jul-21	Spikevax	Mar-22	Spikevax	Dec-22	BA.5/BQ.1	Jan-23
32	O-Inf+Vacc	female	31-40	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	Jan-22	BA.1*	Mar-22
33	O-Inf+Vacc	female	31-40	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	Jan-22	BA.1*	Mar-22
34	O-Inf+Vacc	male	41-50	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	Jan-22	BA.1*	Feb-22
35	O-Inf+Vacc	female	31-40	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	Jan-22	BA.1*	Feb-22
36	O-Inf+Vacc	male	31-40	Jan-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	Jan-22	BA.1*	Feb-22
37	O-Inf+Vacc	male	31-40	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	Dec-21	BA.1*	Feb-22
1	Vacc	female	61-70	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	May-22
2	Vacc	male	61-70	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	May-22
3	Vacc	female	41-50	Mar-21	Spikevax	Jun-21	Spikevax	Nov-21	Comirnaty	/	/	May-22
4	Vacc	male	51-60	Feb-21	Spikevax	Mar-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
5	Vacc	female	31-40	Feb-21	Spikevax	Mar-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
6	Vacc	male	21-30	Feb-21	Spikevax	Mar-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
7	Vacc	female	21-30	Feb-21	Spikevax	Mar-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
8	Vacc	male	51-60	Jan-21	Spikevax	Feb-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
9	Vacc	female	41-50	Feb-21	Spikevax	Feb-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
10	Vacc	female	31-40	Feb-21	Spikevax	Mar-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
11	Vacc	male	41-50	Jan-21	Spikevax	Feb-21	Spikevax	Oct-21	Spikevax	/	/	Nov-21
12	Vacc	female	51-60	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
13	Vacc	female	21-30	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Comirnaty	/	/	Dec-21
14	Vacc	male	41-50	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
15	Vacc	female	51-60	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
16	Vacc	male	41-50	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
17	Vacc	female	51-60	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
18	Vacc	female	51-60	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
19	Vacc	male	61-70	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
20	Vacc	female	41-50	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
21	Vacc	female	61-70	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
22	Vacc	female	61-70	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
23	Vacc	female	21-30	Mar-21	Spikevax	Apr-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
24	Vacc	female	11-20	Mar-21	Spikevax	Apr-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
25	Vacc	male	61-70	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Dec-21
26	Vacc	male	41-50	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Feb-22
27	Vacc	female	41-50	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Feb-22
28	Vacc	male	41-50	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Spikevax	/	/	Mar-22
29	Vacc	female	31-40	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Spikevax	/	/	Feb-22
30	Vacc	female	21-30	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Comirnaty	/	/	Feb-22
31	Vacc	male	51-60	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Comirnaty	/	/	Feb-22
32	Vacc	female	21-30	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Comirnaty	/	/	Feb-22
33	Vacc	female	51-60	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Feb-22
34	Vacc	male	31-40	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Feb-22
35	Vacc	female	41-50	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Spikevax	/	/	Feb-22
36	Vacc	female	41-50	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Feb-22
37	Vacc	female	21-30	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Comirnaty	/	/	Feb-22
38	Vacc	male	41-50	Jan-21	Spikevax	Feb-21	Spikevax	Nov-21	Spikevax	/	/	Feb-22
39	Vacc	female	51-60	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Spikevax	/	/	Feb-22
40	Vacc	female	61-70	Feb-21	Spikevax	Mar-21	Spikevax	Dec-21	Spikevax	/	/	Feb-22
41	Vacc	female	61-70	Feb-21	Spikevax	Mar-21	Spikevax	Nov-21	Spikevax	/	/	Feb-22

1	O-Inf	female	31-40	/	/	/	/	/	/	Apr-22	BA.2	May-22
2	O-Inf	female	41-50	/	/	/	/	/	/	Apr-22	BA.2	May-22
3	O-Inf	male	21-30	/	/	/	/	/	/	Mar-22	BA.2	Jun-22
4	O-Inf	male	1-10	/	/	/	/	/	/	Apr-22	BA.2	Apr-22
5	O-Inf	female	21-30	/	/	/	/	/	/	Feb-22	BA.1	Feb-22
6	O-Inf	female	41-50	/	/	/	/	/	/	Jan-22	BA.1*	Aug-22
7	O-Inf	female	21-30	/	/	/	/	/	/	Mar-22	BA.2	Mar-22
8	O-Inf	female	51-60	/	/	/	/	/	/	Mar-22	BA.2	Sep-22
9	O-Inf	male	61-70	/	/	/	/	/	/	Aug-22	BA.5	Aug-22
10	O-Inf	male	21-30	/	/	/	/	/	/	Sep-22	BA.5	Oct-22
11	O-Inf	male	31-40	/	/	/	/	/	/	Mar-22	BA.2	Jul-22
12	O-Inf	male	81-90	/	/	/	/	/	/	Apr-22	BA.2	Jul-22
13	O-Inf	male	91-100	/	/	/	/	/	/	Aug-22	BA.5	Sep-22
14	O-Inf	female	31-40	/	/	/	/	/	/	Mar-22	BA.2	Jul-22
15	O-Inf	male	81-90	/	/	/	/	/	/	May-22	BA.2	Aug-22
16	O-Inf	female	81-90	/	/	/	/	/	/	Jun-22	BA.2/5	Aug-22
17	O-Inf	male	51-60	/	/	/	/	/	/	Aug-22	BA.5	Aug-22
18	O-Inf	female	31-40	/	/	/	/	/	/	Apr-22	BA.2	Jul-22
19	O-Inf	female	31-40	/	/	/	/	/	/	Jul-22	BA.5	Oct-22
20	O-Inf	female	21-30	/	/	/	/	/	/	Apr-22	BA.2	Jul-22
21	O-Inf	male	51-60	/	/	/	/	/	/	May-22	BA.2	Jul-22
22	O-Inf	female	61-70	/	/	/	/	/	/	Sep-22	BA.5	Oct-22
23	O-Inf	male	61-70	/	/	/	/	/	/	Mar-22	BA.2	Jul-22
24	O-Inf	male	61-70	/	/	/	/	/	/	Apr-22	BA.2	Jul-22
25	O-Inf	male	51-60	/	/	/	/	/	/	Aug-22	BA.5	Oct-22
26	O-Inf	female	51-60	/	/	/	/	/	/	Jun-22	BA.2/5	Sep-22
27	O-Inf	female	51-60	/	/	/	/	/	/	Aug-22	BA.5	Sep-22
28	O-Inf	male	51-60	/	/	/	/	/	/	Jan-22	BA.1*	May-22

Supplemental table 1) Demographic information with infection and vaccination time points. The table contains following information for each study participant (columns left to right in sequential order): pseudonym, group, age (as 10-year range), first dose vaccination date, first dose vaccine type, second dose vaccination date, second dose vaccine type, third dose vaccination date, third dose vaccine type, date of positive SARS-CoV-2 RT-PCR, the most prevalent omicron subvariant in Germany at the time of sampling (source data: <https://ourworldindata.org/>), date of sample collection. Sign “/” indicates that the information is not relevant for the individual. Asterisk* indicates that the omicron subvariant was determined by RNA sequencing.