

## Supplementary Material\*

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\* This supplementary material was provided by the authors to give readers further details on their article. The material was not copyedited.

**Supplement Table 1: Test Us At Home RT-PCR and Rapid Antigen Testing Schedule**

Study Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Rapid Antigen Test</b>	X		X		X		X		X		X		X		X
<b>RT-PCR Test</b>	X		X		X		X		X		X		X		

**Supplement Table 2: Sequencing Results of Positive RT-PCR Samples**

Sample Collection Date	Number of Delta Sequences Reported*	Number of Omicron (BA.1 and BA.1.1) Sequences Reported
11/19/2021	1	0
11/20/2021	1	0
11/21/2021	1	0
11/22/2021	1	0
11/24/2021	1	0
11/26/2021	3	0
11/29/2021	2	0
12/1/2021	2	0
12/2/2021	1	0
12/3/2021	1	0
12/5/2021	2	0
12/6/2021	4	0
12/7/2021	1	0
12/9/2021	1	0
12/10/2021	2	0
12/11/2021	2	0
12/13/2021	1	0
12/15/2021	1	0
12/16/2021	1	0

12/17/2021	1	0
12/18/2021	2	0
12/19/2021	1	0
12/20/2021	1	1
12/21/2021	2	0
12/22/2021	1	0
12/23/2021	2	0
12/24/2021	1	1
12/27/2021	3	2
12/28/2021	2	2
1/1/2022	0	1
1/4/2022	0	6
1/5/2022	0	1
1/7/2022	0	1
1/8/2022	0	1
1/9/2022	0	1
1/10/2022	0	9
1/11/2022	0	2
1/12/2022	0	2
1/13/2022	0	2
1/14/2022	0	4
1/15/2022	0	3
1/16/2022	0	8
1/17/2022	0	3
1/18/2022	0	5
1/19/2022	0	6
1/20/2022	0	4
1/21/2022	0	2
1/22/2022	0	2
1/23/2022	0	3
1/24/2022	0	5

1/25/2022	0	4
1/26/2022	0	11
1/27/2022	0	14
1/28/2022	0	11
*Delta sequences were of the linages AY.100, AY.103, AY.111, AY.113, AY.114, AY.119, AY.25, AY.25.1, AY.3, AY.3.1, AY.33, AY.39, AY.44		

**Supplement Table 3: Distribution of RT-PCR and Ag-RDT test results for different populations used in this analysis**

<b>Supplemental Table 3: Distribution of RT-PCR and Ag-RDT test results for different populations used in this analysis</b>												
<b>Population</b>	<b>A: First RT-PCR+ observed during the study</b>			<b>B: First RT-PCR+ followed by a 2nd RT-PCR+ in 48 hours</b>			<b>C: First RT-PCR+ followed by RT-PCR- in 48 hours</b>			<b>D: Missing 2nd RT-PCR+ in 48 hours from the first RT-PCR+</b>		
<b>Variant</b>	Total	Δ	O	Total	Δ	O	Total	Δ	O	Total	Δ	O
<b>N</b>	207	58	149	109	27	82	69	22	47	29	9	20
<b>Testing days</b>	1,648	455	1,193	866	217	649	554	175	379	228	63	165
<b>Ag-RDT result in comparison to index RT-PCR+ (n, col%)</b>												
Positive same day	42 (20.3)	9 (15.5)	33 (22.2)	35 (32.1)	7 (25.9)	28 (34.2)	0 (0)	0 (0)	0 (0)	7 (24.1)	2 (22.2)	5 (25.0)
Positive w/in 48hrs	100 (48.3)	26 (44.8)	74 (49.7)	86 (78.9)	22 (81.5)	64 (78.1)	1 (1.4)	0 (0)	1 (2.1)	13 (44.8)	4 (44.4)	9 (45.0)
Positive w/in 96hrs	114 (55.1)	29 (50.0)	85 (57.1)	98 (89.9)	25 (92.6)	73 (89.0)	3 (4.3)	0 (0)	3 (6.4)	13 (44.8)	4 (44.4)	9 (45.0)
Positive w/in a week	119 (57.5)	29 (50.0)	90 (60.4)	101 (92.7)	25 (92.6)	76 (92.7)	5 (7.3)	0 (0)	5 (10.6)*	13 (44.8)	4 (44.4)	9 (45.0)
Negative	88 (42.5)	29 (50.0)	59 (39.6)	8 (7.3)	2 (7.4)	6 (7.3)	64 (92.8)	22 (100)	42 (89.4)	16 (55.2)	5 (55.6)	11 (55.0)
<b>Lowest RT-PCR+ CT count (n, col%)</b>												
10 to <15	1 (0.5)	1 (1.7)	0 (0.0)	1 (0.9)	1 (3.7)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
15 to <19	36 (17.4)	14 (24.1)	22 (14.8)	34 (31.2)	14 (51.9)	20 (24.4)	1 (1.4)	0 (0.0)	1 (2.1)	1 (3.5)	0 (0.0)	1 (5.0)
20 to <25	52 (25.1)	7 (12.1)	45 (30.2)	47 (43.1)	6 (22.2)	41 (50.0)	4 (5.8)	0 (0.0)	4 (8.5)	1 (3.5)	1 (11.1)	0 (0.0)
25 to <30	26 (12.6)	4 (6.9)	22 (14.8)	19 (17.4)	3 (11.1)	16 (19.5)	2 (2.9)	0 (0.0)	2 (4.3)	5 (17.2)	1 (11.1)	4 (20.0)
30 to <35	28 (13.5)	3 (5.2)	25 (16.8)	5 (4.6)	1 (3.7)	4 (4.9)	15 (21.7)	2 (9.1)	13 (27.7)	8 (27.6)	0 (0.0)	8 (40.0)
35+	49 (23.7)	20 (34.5)	29 (19.5)	2 (1.8)	1 (3.7)	1 (1.2)	37 (53.6)	15 (68.2)	22 (46.8)	10 (34.5)	4 (44.4)	6 (30.0)
<b>Missing</b>	15 (7.3)	9 (15.5)	6 (4.0)	1 (0.9)	1 (3.7)	0 (0.0)	10 (14.5)	5 (22.7)	5 (10.6)	4 (13.8)	3 (33.3)	1 (5.0)
Δ = Delta variant; O = Omicron variant; RT-PCR+ = positive RT-PCR test; RT-PCR- = negative RT-PCR test; Ag-RDT = Rapid Antigen Test												
*All 5 participants experienced first RT-PCR+ followed by RT-PCR- in 48 hours, but subsequently developed serial RT-PCR positivity later in the study period												

**Supplement Table 4: SARS-CoV-2 Results of Population C Participants Who Tested Positive by Rapid Antigen Test**

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Participant 1:</b>															
Rapid Antigen Test	-		-		-		-		+		+		+		+
RT-PCR Test	-		-		+		-		+		+		+		
<b>Participant 2:</b>															
Rapid Antigen Test	-		-		-		-		+		+		+		+
RT-PCR Test	-		+		-		-		+		+		+		
<b>Participant 3:</b>															
Rapid Antigen Test	-		-		-		-		+		+		+		+
RT-PCR Test	-		-		+		-		+		o		+		
<b>Participant 4:</b>															
Rapid Antigen Test	-		-		-		-		-		-		-		+
RT-PCR Test	-		-		-		+		-		+		+		
<b>Participant 5:</b>															
Rapid Antigen Test	-		-		-		-		+		+		+		+
RT-PCR Test	-		+		-		-		+		+		+		
<b>“-” = negative test; “+” = positive test; “o” = missing test</b>															