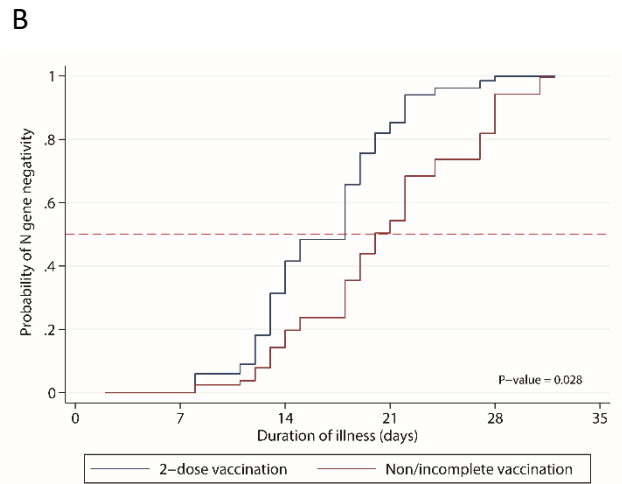
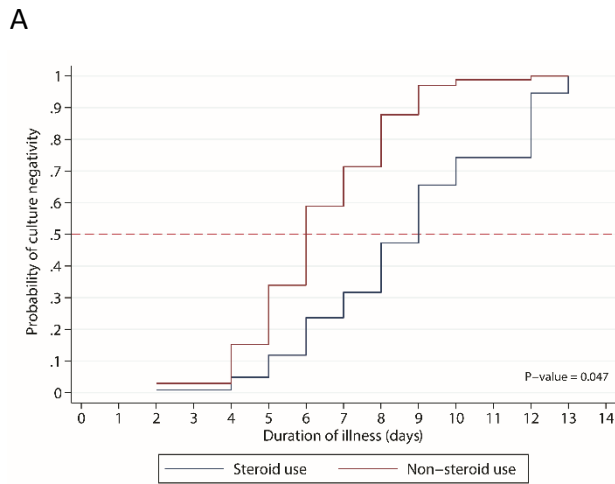
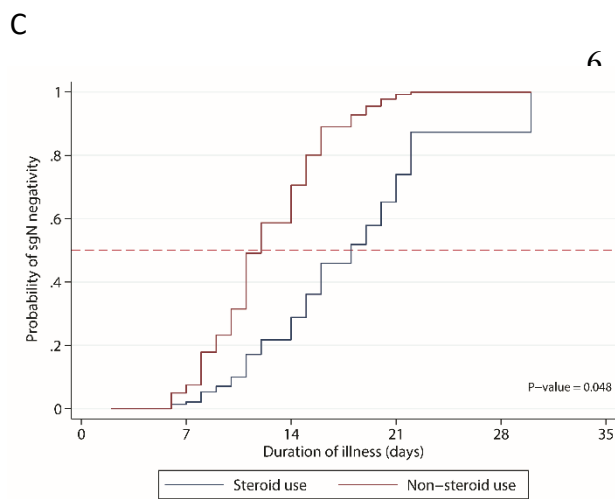


Supplementary figure

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19 **Supplementary Figure 1**

20 Time to the negativity of SARS-CoV-2 shedding; time to viral culture negativity according to
21 steroid use (A); time to N gene negativity according to receipt of 2-dose vaccination (B); and
22 time to N gene subgenomic RNA negativity according to steroid use (C).
23

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Supplementary Tables

25

26 **Table 1.** Primer-probe sequences designed for the amplification of SARS-CoV-2 sgRNAs.

Primer name	Sequences 5'-3'
Sub_F	CAAACCAACCAACTTTCGATCTCTTGTA
TRSB-S_R	TACCATTGGTCCCAGAGACATG
TRSB-S_probe (FAM)	CCCTGACAAAGTTTTTCAGATCC
TRSB-N_R	AATTGGAACGCCTTGTCCTCGAG
TRSB-N_probe (HEX)	GCTCTCACTCAACATGGCAA

27

28 **Table 2.** Details of patient characteristics and results of SARS-CoV-2 detection and virus strains

29

Patient	Vaccine	Pneumonia	Favipiravir	Steroid	Oxygen	Strain	Detection methods	Day of illness																																								
								0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
1	N	Y	Y	N	N	D614G (WT)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
							sgS RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
							sgN RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
2	N	N	N	N	N	D614G (WT)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
							sgS RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
							sgN RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
3	N	Y	Y	N	N	D614G (WT)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
							sgS RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
							sgN RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
4	N	N	Y	N	N	D614G (WT)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
							sgS RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
							sgN RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
5	N	Y	Y	N	N	Alpha (B.1.1.7)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
							sgS RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
							sgN RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

18	N	N	N	N	N	Alpha (B.1.1.7)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
							sgS RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
							sgN RT-PCR	+	+	+	+	+	-	-	-	+	-	+	-	-	-	-	-	-	-	-	-	-	
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	
19	N	N	N	N	N	Alpha (B.1.1.7)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
							sgS RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
							sgN RT-PCR	+	+	+	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	
20	N	N	N	N	N	Delta (B.1.617.2)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
							sgS RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							sgN RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	
21	Y	N	Y	N	N	Delta (B.1.617.2)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
							sgS RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							sgN RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Y	N	N	N	N	Delta (B.1.617.2)	Virus culture	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
							sgS RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							sgN RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-
23	Y	Y	Y	Y	Y	Delta (B.1.617.2)	Virus culture	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
							sgS RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
							sgN RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
24	N	Y	Y	N	N	Delta (B.1.617.2)	Virus culture	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
							sgS RT-PCR	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
							sgN RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
							RT-PCR	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-

