

## Questionnaire for all vaccine recipients

### Instructions

Please fill in this form regardless of whether you have experienced any side effects.

If you have previously submitted this form for the same dose, and you have no new side effects, you do not need to submit this form again.

All data submitted will be kept strictly confidential.

Information submitted via this form does not substitute for a medical consultation. Please seek medical attention if necessary.

1. Your NRIC
2. Have you experienced any side effects after receiving the most recent dose?  
*Examples of side effects include injection site pain / redness / swelling, fatigue, headache, fever, etc.*
  - No
  - Yes

### End of survey if respondent answered “No” for Q2

3. Where did you receive your most recent dose?
4. Please list the new side effect(s) that you have experienced (up to 10).  
*Onset date: date when you first experienced the side effect*  
*Resolved date: date when the side effect resolved*

Side Effect	Severity	Onset Date (e.g. 25/12/2020)	Resolved Date (e.g. 28/12/2020)
<input type="checkbox"/> Abnormal sensation of heartbeat <input type="checkbox"/> Body aches <input type="checkbox"/> Chest discomfort <input type="checkbox"/> Diarrhoea <input type="checkbox"/> Difficulty breathing <input type="checkbox"/> Fatigue <input type="checkbox"/> Fever and/or chills <input type="checkbox"/> Headache <input type="checkbox"/> Joint aches <input type="checkbox"/> Muscle aches <input type="checkbox"/> Pain at injection site <input type="checkbox"/> Redness at injection site <input type="checkbox"/> Skin reaction elsewhere (e.g. rash, hives) <input type="checkbox"/> Stomach discomfort <input type="checkbox"/> Swelling at injection site <input type="checkbox"/> Swelling(s) in neck, groin, and/or armpit <input type="checkbox"/> Vomiting <input type="checkbox"/> Weakness <input type="checkbox"/> Others	<input type="checkbox"/> Does not interfere with activity <input type="checkbox"/> Interferes with activity <input type="checkbox"/> Prevents daily activity	<i>Free text</i>	<i>Free text</i>

5. If you listed "Others" as a side effect above, please describe it/them here.  
*Please include as much detail as possible, and describe each different side effect on a new line.*
6. Did you visit a doctor for this/these side effect(s)?
- No
  - Yes, an SAF medical officer
  - Yes, a polyclinic doctor/GP
  - Yes, a doctor from the emergency department

**End of survey if respondent answered "No" for Q6**

7. Were you hospitalised for any of the above side effects?
- No
  - Yes
8. Any other comments?

**End of survey**

Supplementary Table S1. Adverse reactions for dose 1 and dose 2, adjusted for vaccine type, age, sex and ethnic group

	<b>Dose 1 (n = 39,154)</b>	<b>Dose 2 (n = 31,751)</b>	<b>Unadjusted RR<sup>a</sup></b>	<b>Adjusted RR<sup>a</sup></b>	<b>Adjusted P value</b>
At least one side effect	17,383 (44.4%)	18,871 (59.4%)	1.34 (1.32-1.36)	1.34 (1.32-1.36)	<0.001
Abnormal sensation of heartbeat	40 (0.1%)	76 (0.2%)	2.34 (1.60-3.43)	2.31 (1.56-3.42)	<0.001
Body aches	4,259 (10.9%)	6,622 (20.9%)	1.92 (1.85-1.99)	1.91 (1.85-1.99)	<0.001
Chest discomfort	63 (0.2%)	157 (0.5%)	3.07 (2.30-4.11)	3.05 (2.27-4.11)	<0.001
Diarrhoea	414 (1.1%)	509 (1.6%)	1.52 (1.33-1.72)	1.51 (1.33-1.72)	<0.001
Difficulty breathing	48 (0.1%)	110 (0.4%)	2.83 (2.01-3.97)	2.82 (1.98-4.02)	<0.001
Fatigue	4,246 (10.8%)	4,488 (14.1%)	1.30 (1.25-1.36)	1.30 (1.25-1.36)	<0.001
Fever and/or chills	2,040 (5.2%)	10,348 (32.6%)	6.26 (5.99-6.53)	6.26 (6.00-6.54)	<0.001
Headache	2,373 (6.1%)	4,237 (13.3%)	2.20 (2.10-2.31)	2.21 (2.11-2.32)	<0.001
Injection site pain <sup>b</sup>	7,201 (18.4%)	3,333 (10.5%)	0.57 (0.55-0.59)	0.57 (0.55-0.59)	<0.001
Injection site redness	279 (0.7%)	330 (1.0%)	1.46 (1.24-1.71)	1.44 (1.23-1.68)	<0.001
Injection site swelling	957 (2.4%)	696 (2.2%)	0.90 (0.81-0.99)	0.89 (0.81-0.98)	0.017
Joint aches	248 (0.6%)	536 (1.7%)	2.67 (2.29-3.10)	2.65 (2.28-3.08)	<0.001
Muscle aches	1,899 (4.9%)	1,023 (3.2%)	0.66 (0.62-0.72)	0.67 (0.62-0.72)	<0.001
Skin reaction elsewhere (e.g. rash, hives)	349 (0.9%)	261 (0.8%)	0.92 (0.79-1.08)	0.92 (0.78-1.08)	0.29
Stomach discomfort	155 (0.4%)	227 (0.7%)	1.81 (1.47-2.21)	1.80 (1.47-2.21)	<0.001
Swellings in neck, groin and/or armpit	199 (0.5%)	261 (0.8%)	1.62 (1.35-1.94)	1.63 (1.35-1.96)	<0.001
Vomiting and/or nausea	144 (0.4%)	289 (0.9%)	2.47 (2.03-3.02)	2.50 (2.04-3.05)	<0.001
Weakness	488 (1.3%)	782 (2.5%)	1.98 (1.77-2.21)	1.99 (1.78-2.23)	<0.001

RR: rate ratio

<sup>a</sup> Rate ratio: dose 2 vs dose 1

<sup>b</sup> Includes those described as “injection site soreness” under “Others”. CI denotes confidence interval, RR denotes rate ratio.

Supplementary Table S2. Adverse reactions for Pfizer-BioNTech and Moderna vaccines, adjusted for dose number, age, sex and ethnic group

	<b>Pfizer-BioNTech (n = 44,273)</b>	<b>Moderna (n = 26,632)</b>	<b>Unadjusted RR<sup>a</sup></b>	<b>Adjusted RR<sup>a</sup></b>	<b>Adjusted P value</b>
At least one side effect	20,043 (45.3%)	16,211 (60.9%)	1.34 (1.33-1.36)	1.36 (1.34-1.39)	<0.001
Abnormal sensation of heartbeat	21 (0.1%)	95 (0.4%)	7.52 (4.69-12.06)	9.13 (5.45-15.29)	<0.001
Body aches	6,008 (13.6%)	4,873 (18.3%)	1.35 (1.30-1.40)	1.41 (1.36-1.46)	<0.001
Chest discomfort	57 (0.1%)	163 (0.6%)	4.75 (3.52-6.42)	5.07 (3.64-7.04)	<0.001
Diarrhoea	553 (1.3%)	370 (1.4%)	1.11 (0.98-1.27)	1.18 (1.03-1.36)	0.018
Difficulty breathing	44 (0.1%)	114 (0.4%)	4.31 (3.04-6.10)	4.18 (2.84-6.15)	<0.001
Fatigue	5,617 (12.7%)	3,117 (11.7%)	0.92 (0.89-0.96)	0.96 (0.92-1.00)	0.040
Fever and/or chills	4,967 (11.2%)	7,421 (27.9%)	2.48 (2.40-2.57)	2.41 (2.33-2.50)	<0.001
Headache	3,567 (8.1%)	3,043 (11.4%)	1.42 (1.35-1.49)	1.34 (1.28-1.41)	<0.001
Injection site pain <sup>b</sup>	5,885 (13.3%)	4,649 (17.5%)	1.31 (1.27-1.36)	1.44 (1.38-1.49)	<0.001
Injection site redness	196 (0.4%)	413 (1.6%)	3.50 (2.96-4.15)	4.47 (3.73-5.35)	<0.001
Injection site swelling	764 (1.7%)	889 (3.3%)	1.93 (1.76-2.13)	2.23 (2.01-2.48)	<0.001
Joint aches	399 (0.9%)	385 (1.5%)	1.60 (1.40-1.84)	1.78 (1.53-2.07)	<0.001
Muscle aches	1,430 (3.2%)	1,492 (5.6%)	1.73 (1.62-1.86)	1.56 (1.45-1.69)	<0.001
Skin reaction elsewhere (e.g. rash, hives)	314 (0.7%)	296 (1.1%)	1.57 (1.34-1.84)	1.75 (1.47-2.08)	<0.001
Stomach discomfort	212 (0.5%)	170 (0.6%)	1.33 (1.09-1.63)	1.41 (1.14-1.75)	0.002
Swellings in neck, groin and/or armpit	315 (0.7%)	145 (0.5%)	0.77 (0.63-0.93)	0.80 (0.65-0.99)	0.037
Vomiting and/or nausea	232 (0.5%)	201 (0.8%)	1.44 (1.19-1.74)	1.25 (1.02-1.52)	0.030
Weakness	637 (1.4%)	633 (2.4%)	1.65 (1.48-1.84)	1.47 (1.31-1.65)	<0.001

CI: confidence interval; RR: rate ratio

<sup>a</sup> Rate ratio: Moderna vs Pfizer-BioNTech

<sup>b</sup> Includes those described as “injection site soreness” under “Others”

Supplementary Table S3. Adverse reactions for Pfizer-BioNTech vaccine by dose, adjusted for age, sex and ethnic group

	<b>Dose 1 (n = 24,455)</b>	<b>Dose 2 (n = 19,818)</b>	<b>Unadjusted RR<sup>a</sup></b>	<b>Adjusted RR<sup>a</sup></b>	<b>Adjusted P value</b>
At least one side effect	9,606 (39.3%)	10,437 (52.7%)	1.34 (1.31-1.37)	1.34 (1.32-1.37)	<0.001
Abnormal sensation of heartbeat	14 (0.1%)	7 (0.0%)	0.62 (0.25-1.53)	0.61 (0.26-1.44)	0.26
Body aches	2,195 (9.0%)	3,813 (19.2%)	2.14 (2.04-2.25)	2.14 (2.04-2.25)	<0.001
Chest discomfort	22 (0.1%)	35 (0.2%)	1.96 (1.15-3.35)	1.96 (1.14-3.35)	0.014
Diarrhoea	248 (1.0%)	305 (1.5%)	1.52 (1.28-1.79)	1.52 (1.29-1.79)	<0.001
Difficulty breathing	21 (0.1%)	23 (0.1%)	1.35 (0.75-2.44)	1.34 (0.74-2.41)	0.33
Fatigue	2,697 (11.0%)	2,920 (14.7%)	1.34 (1.27-1.40)	1.34 (1.28-1.41)	<0.001
Fever and/or chills	740 (3.0%)	4,227 (21.3%)	7.05 (6.55-7.59)	7.10 (6.60-7.64)	<0.001
Headache	1,377 (5.6%)	2,190 (11.1%)	1.96 (1.84-2.09)	1.99 (1.86-2.12)	<0.001
Injection site pain <sup>b</sup>	3,963 (16.2%)	1,922 (9.7%)	0.60 (0.57-0.63)	0.60 (0.57-0.63)	<0.001
Injection site redness	81 (0.3%)	115 (0.6%)	1.75 (1.32-2.33)	1.77 (1.33-2.33)	<0.001
Injection site swelling	421 (1.7%)	343 (1.7%)	1.01 (0.87-1.16)	1.01 (0.88-1.16)	0.89
Joint aches	132 (0.5%)	267 (1.4%)	2.50 (2.03-3.07)	2.50 (2.03-3.07)	<0.001
Muscle aches	926 (3.8%)	504 (2.5%)	0.67 (0.60-0.75)	0.68 (0.61-0.76)	<0.001
Skin reaction elsewhere (e.g. rash, hives)	162 (0.7%)	152 (0.8%)	1.16 (0.93-1.44)	1.16 (0.93-1.45)	0.18
Stomach discomfort	88 (0.4%)	124 (0.6%)	1.74 (1.32-2.28)	1.76 (1.34-2.31)	<0.001
Swellings in neck, groin and/or armpit	98 (0.4%)	217 (1.1%)	2.73 (2.15-3.47)	2.78 (2.19-3.52)	<0.001
Vomiting and/or nausea	85 (0.4%)	147 (0.7%)	2.13 (1.64-2.79)	2.18 (1.67-2.85)	<0.001
Weakness	247 (1.0%)	390 (2.0%)	1.95 (1.66-2.28)	1.98 (1.69-2.32)	<0.001

CI: confidence interval; RR: rate ratio

<sup>a</sup> Rate ratio: dose 2 vs dose 1

<sup>b</sup> Includes those described as “injection site soreness” under “Others”

Supplementary Table S4. Adverse reactions for Moderna vaccine by dose, adjusted for age, sex and ethnic group

	<b>Dose 1 (n = 14,699)</b>	<b>Dose 2 (n = 11,933)</b>	<b>Unadjusted RR<sup>a</sup></b>	<b>Adjusted RR<sup>a</sup></b>	<b>Adjusted P value</b>
At least one side effect	7,777 (52.9%)	8,434 (70.7%)	1.34 (1.31-1.36)	1.33 (1.31-1.36)	<0.001
Abnormal sensation of heartbeat	26 (0.2%)	69 (0.6%)	3.27 (2.08-5.13)	3.24 (2.09-5.04)	<0.001
Body aches	2,064 (14.0%)	2,809 (23.5%)	1.68 (1.59-1.76)	1.67 (1.58-1.76)	<0.001
Chest discomfort	41 (0.3%)	122 (1.0%)	3.67 (2.58-5.22)	3.65 (2.57-5.17)	<0.001
Diarrhoea	166 (1.1%)	204 (1.7%)	1.51 (1.24-1.86)	1.50 (1.22-1.84)	<0.001
Difficulty breathing	27 (0.2%)	87 (0.7%)	3.97 (2.58-6.11)	3.99 (2.61-6.10)	<0.001
Fatigue	1,549 (10.5%)	1,568 (13.1%)	1.25 (1.17-1.33)	1.24 (1.16-1.32)	<0.001
Fever and/or chills	1,300 (8.8%)	6,121 (51.3%)	5.80 (5.51-6.10)	5.79 (5.50-6.19)	<0.001
Headache	996 (6.8%)	2,047 (17.2%)	2.53 (2.36-2.72)	2.53 (2.35-2.71)	<0.001
Injection site pain <sup>b</sup>	3,238 (22.0%)	1,411 (11.8%)	0.54 (0.51-0.57)	0.53 (0.50-0.56)	<0.001
Injection site redness	198 (1.4%)	215 (1.8%)	1.34 (1.10-1.62)	1.31 (1.08-1.59)	0.006
Injection site swelling	536 (3.7%)	353 (3.0%)	0.81 (0.71-0.93)	0.80 (0.70-0.91)	0.001
Joint aches	116 (0.8%)	269 (2.3%)	2.86 (2.30-3.55)	2.83 (2.28-3.51)	<0.001
Muscle aches	973 (6.6%)	519 (4.4%)	0.66 (0.59-0.73)	0.66 (0.59-0.73)	<0.001
Skin reaction elsewhere (e.g. rash, hives)	187 (1.3%)	109 (0.9%)	0.72 (0.57-0.91)	0.71 (0.56-0.90)	0.004
Stomach discomfort	67 (0.5%)	103 (0.9%)	1.89 (1.39-2.57)	1.87 (1.37-2.54)	<0.001
Swellings in neck, groin and/or armpit	101 (0.7%)	44 (0.4%)	0.54 (0.38-0.76)	0.53 (0.37-0.75)	<0.001
Vomiting and/or nausea	59 (0.4%)	142 (1.2%)	2.96 (2.19-4.01)	2.95 (2.18-4.00)	<0.001
Weakness	241 (1.6%)	392 (3.3%)	2.00 (1.71-2.35)	2.01 (1.71-2.35)	<0.001

CI: confidence interval; RR: rate ratio

<sup>a</sup> Rate ratio: dose 2 vs dose 1

<sup>b</sup> Includes those described as “injection site soreness” under “Others”

Supplementary Table S5. Adverse reactions by age group, with 20-29 years old as reference group, adjusted for sex, ethnic group, vaccine type and dose number

Group	Total	At least one side effect				Abnormal sensation of heartbeat				Body aches			
		n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value
<20	12,499	6,656 (53.3%)	1.05 (1.03-1.07)	0.99 (0.97-1.01)	0.27	21 (0.2%)	1.04 (0.63-1.71)	0.74 (0.45-1.21)	0.23	1,902 (15.2%)	1.02 (0.98-1.08)	0.95 (0.90-0.99)	0.024
20-29	37,128	18,778 (50.6%)				60 (0.2%)				5,513 (14.8%)			
30-39	9,823	5,318 (54.1%)	1.07 (1.05-1.09)	1.09 (1.06-1.11)	<0.001	23 (0.2%)	1.45 (0.90-2.34)	1.84 (1.12-3.01)	0.016	1,712 (17.4%)	1.17 (1.12-1.23)	1.19 (1.13-1.25)	<0.001
40-49	7,537	3,906 (51.8%)	1.02 (1.00-1.05)	1.06 (1.03-1.08)	<0.001	9 (0.1%)	0.74 (0.37-1.49)	1.27 (0.62-2.61)	0.51	1,250 (16.6%)	1.12 (1.06-1.18)	1.15 (1.09-1.22)	<0.001
50-59	3,386	1,424 (42.1%)	0.83 (0.80-0.86)	0.86 (0.83-0.89)	<0.001	1 (0.0%)	0.18 (0.03-1.31)	0.37 (0.05-2.64)	0.32	451 (13.3%)	0.90 (0.82-0.98)	0.93 (0.85-1.01)	0.098
≥60	532	172 (32.3%)	0.64 (0.58-0.71)	0.62 (0.56-0.69)	<0.001	2 (0.4%)	2.33 (0.57-9.51)	4.58 (1.05-19.95)	0.043	53 (10.0%)	0.67 (0.52-0.86)	0.66 (0.51-0.85)	0.001

Age Group	Total	Chest discomfort				Diarrhoea				Difficulty breathing			
		n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value
<20	12,499	51 (0.4%)	1.31 (0.94-1.81)	1.03 (0.73-1.45)	0.87	134 (1.1%)	0.85 (0.70-1.03)	0.82 (0.68-1.00)	0.048	44 (0.4%)	1.57 (1.09-2.27)	1.25 (0.84-1.86)	0.28
20-29	37,128	116 (0.3%)				469 (1.3%)				83 (0.2%)			
30-39	9,823	27 (0.3%)	0.88 (0.58-1.34)	1.03 (0.66-1.61)	0.89	182 (1.9%)	1.47 (1.24-1.74)	1.36 (1.14-1.62)	0.001	14 (0.1%)	0.64 (0.36-1.12)	0.70 (0.37-1.31)	0.26
40-49	7,537	19 (0.3%)	0.81 (0.50-1.31)	1.14 (0.68-1.93)	0.61	99 (1.3%)	1.04 (0.84-1.29)	0.94 (0.75-1.18)	0.59	14 (0.2%)	0.83 (0.47-1.46)	1.06 (0.55-2.01)	0.87
50-59	3,386	5 (0.2%)	0.47 (0.19-1.16)	0.75 (0.29-1.92)	0.55	34 (1.0%)	0.79 (0.56-1.12)	0.71 (0.50-1.01)	0.060	1 (0.0%)	0.13 (0.02-0.94)	0.18 (0.02-1.53)	0.12
≥60	532	2 (0.4%)	1.20 (0.30-4.86)	1.69 (0.38-7.42)	0.49	5 (0.9%)	0.74 (0.31-1.79)	0.57 (0.23-1.38)	0.21	2 (0.4%)	1.68 (0.41-6.83)	1.90 (0.39-9.20)	0.42

Age Group	Total	Fatigue				Fever and/or chills				Headache			
		n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value
<20	12,499	1,272 (10.2%)	0.84 (0.79-0.89)	0.86 (0.81-0.91)	<0.001	2,611 (20.9%)	1.15 (1.10-1.19)	0.97 (0.93-1.01)	0.094	1,243 (9.9%)	1.01 (0.95-1.07)	0.96 (0.91-1.01)	0.25
20-29	37,128	4,495 (12.1%)				6,767 (18.2%)				3,655 (9.8%)			
30-39	9,823	1,526 (15.5%)	1.28 (1.22-1.35)	1.20 (1.13-1.27)	<0.001	1,607 (16.4%)	0.90 (0.85-0.94)	1.00 (0.95-1.05)	0.92	893 (9.1%)	0.92 (0.86-0.99)	0.89 (0.83-0.96)	0.002

40-49	7,537	1,098 (14.6%)	1.20 (1.13-1.28)	1.09 (1.02-1.16)	0.012	1,026 (13.6%)	0.75 (0.70-0.79)	0.90 (0.84-0.95)	0.001	614 (8.2%)	0.83 (0.76-0.90)	0.79 (0.73-0.86)	<0.001
50-59	3,386	313 (9.2%)	0.76 (0.69-0.85)	0.69 (0.61-0.77)	<0.001	334 (9.9%)	0.54 (0.49-0.60)	0.66 (0.60-0.74)	<0.001	193 (5.7%)	0.58 (0.50-0.66)	0.55 (0.47-0.63)	<0.001
≥60	532	30 (5.6%)	0.47 (0.33-0.65)	0.37 (0.27-0.52)	<0.001	43 (8.1%)	0.44 (0.34-0.58)	0.52 (0.39-0.68)	<0.001	12 (2.3%)	0.23 (0.13-0.39)	0.18 (0.11-0.32)	<0.001
Age Group	Total	Injection site pain				Injection site redness				Injection site swelling			
		n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value
<20	12,499	2,050 (16.4%)	1.23 (1.18-1.29)	1.15 (1.09-1.21)	<0.001	106 (0.9%)	1.03 (0.82-1.28)	0.82 (0.66-1.03)	0.084	281 (2.3%)	1.02 (0.89-1.16)	0.91 (0.80-1.05)	0.19
20-29	37,128	4,937 (13.3%)				307 (0.8%)				820 (2.2%)			
30-39	9,823	1,641 (16.7%)	1.26 (1.19-1.32)	1.25 (1.19-1.32)	<0.001	99 (1.0%)	1.22 (0.97-1.53)	1.09 (0.87-1.38)	0.45	257 (2.6%)	1.18 (1.03-1.36)	1.15 (1.00-1.33)	0.054
40-49	7,537	1,333 (17.7%)	1.33 (1.26-1.41)	1.35 (1.27-1.43)	<0.001	75 (1.0%)	1.20 (0.94-1.55)	1.23 (0.94-1.60)	0.13	209 (2.8%)	1.26 (1.08-1.46)	1.27 (1.08-1.49)	0.004
50-59	3,386	507 (15.0%)	1.13 (1.03-1.23)	1.14 (1.04-1.24)	0.004	20 (0.6%)	0.71 (0.46-1.12)	0.76 (0.48-1.20)	0.23	81 (2.4%)	1.08 (0.86-1.36)	1.05 (0.83-1.34)	0.67
≥60	532	66 (12.4%)	0.93 (0.75-1.17)	0.81 (0.64-1.02)	0.070	2 (0.4%)	0.45 (0.11-1.82)	0.34 (0.09-1.36)	0.13	5 (0.9%)	0.43 (0.18-1.01)	0.29 (0.12-0.71)	0.006

Age Group	Total	Joint aches				Muscle aches				Skin reaction elsewhere (e.g. rash, hives)			
		n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value
<20	12,499	124 (1.0%)	0.93 (0.76-1.14)	0.83 (0.68-1.02)	0.081	682 (5.5%)	1.27 (1.16-1.38)	1.16 (1.06-1.27)	0.001	98 (0.8%)	0.91 (0.73-1.14)	0.86 (0.68-1.09)	0.21
20-29	37,128	395 (1.1%)				1,600 (4.3%)				319 (0.9%)			
30-39	9,823	131 (1.3%)	1.25 (1.03-1.53)	1.26 (1.03-1.54)	0.027	353 (3.6%)	0.83 (0.74-0.93)	0.87 (0.78-0.98)	0.021	77 (0.8%)	0.91 (0.71-1.17)	0.84 (0.65-1.08)	0.18
40-49	7,537	101 (1.3%)	1.26 (1.01-1.57)	1.29 (1.03-1.63)	0.028	218 (2.9%)	0.67 (0.58-0.77)	0.73 (0.63-0.84)	<0.001	89 (1.2%)	1.37 (1.09-1.74)	1.26 (0.98-1.62)	0.071
50-59	3,386	27 (0.8%)	0.75 (0.51-1.10)	0.76 (0.51-1.14)	0.19	60 (1.8%)	0.41 (0.32-0.53)	0.47 (0.36-0.60)	<0.001	25 (0.7%)	0.86 (0.57-1.29)	0.77 (0.50-1.17)	0.22
≥60	532	6 (1.1%)	1.06 (0.48-2.36)	0.93 (0.41-2.11)	0.86	9 (1.7%)	0.39 (0.21-0.75)	0.42 (0.22-0.81)	0.009	2 (0.4%)	0.44 (0.11-1.75)	0.28 (0.07-1.14)	0.076

Age Group	Total	Stomach discomfort				Swellings in neck, groin and/or armpit				Vomiting and/or nausea			
		n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value	n (%)	Unadjusted RR	Adjusted RR	Adjusted P value
<20	12,499	42 (0.3%)	0.56 (0.41-0.78)	0.54 (0.39-0.76)	<0.001	65 (0.5%)	0.82 (0.62-1.08)	0.88 (0.67-1.17)	0.39	88 (0.7%)	1.04 (0.81-1.32)	1.05 (0.82-1.35)	0.70
20-29	37,128	221 (0.6%)				236 (0.6%)				252 (0.7%)			

30-39	9,823	61 (0.6%)	1.04 (0.79-1.38)	0.87 (0.65-1.17)	0.36	77 (0.8%)	1.23 (0.95-1.59)	0.99 (0.76-1.29)	0.92	52 (0.5%)	0.78 (0.58-1.05)	0.71 (0.52-0.97)	0.031
40-49	7,537	42 (0.3%)	0.94 (0.67-1.30)	0.74 (0.52-1.05)	0.089	63 (0.8%)	1.32 (1.00-1.73)	0.95 (0.71-1.27)	0.73	27 (0.4%)	0.53 (0.36-0.78)	0.45 (0.30-0.69)	<0.001
50-59	3,386	15 (0.4%)	0.74 (0.44-1.25)	0.55 (0.32-0.94)	0.030	17 (0.5%)	0.79 (0.48-1.29)	0.54 (0.32-0.89)	0.016	12 (0.4%)	0.52 (0.29-0.93)	0.41 (0.23-0.75)	0.004
≥60	532	1 (0.2%)	0.32 (0.04-2.24)	0.16 (0.02-1.12)	0.065	2 (0.4%)	0.59 (0.15-2.37)	0.29 (0.07-1.18)	0.084	2 (0.4%)	0.55 (0.14-2.22)	0.30 (0.07-1.23)	0.094

Supplementary Table S5 (continued). Adverse reactions by age group, with 20-29 years old as reference group, adjusted for sex, ethnic group, vaccine type and dose number

Age Group	Total	Weakness			
		n (%)	Unadjusted RR	Adjusted RR	Adjusted P value
<20	12,499	273 (2.2%)	1.12 (0.98-1.29)	1.05 (0.91-1.21)	0.49
20-29	37,128	721 (1.9%)			
30-39	9,823	140 (1.4%)	0.73 (0.61-0.88)	0.78 (0.65-0.93)	0.007
40-49	7,537	100 (1.3%)	0.68 (0.56-0.84)	0.74 (0.60-0.92)	0.007
50-59	3,386	29 (0.9%)	0.44 (0.31-0.64)	0.48 (0.33-0.70)	<0.001
≥60	532	7 (1.3%)	0.68 (0.32-1.42)	0.71 (0.34-1.51)	0.38

RR: risk ratio



Supplementary Table S6. Summary of hospitalisations after mRNA COVID-19 vaccination

<b>Category</b>	<b>Count</b>
Cardiac - Arrhythmia - Chest pain with normal troponins - Perimyocarditis	1 11 3
Gastrointestinal - Appendicitis - Pancreatitis - Others	4 1 1
Haematological - Bleeding - Clotting - Others	6 1 1
Infectious disease - Abscess - Cellulitis - Gastroenteritis - Urinary tract infection - Others	3 2 1 1 3
Metabolic - Heat-related illness - Rhabdomyolysis	1 3
Musculoskeletal	1
Neurological - Non-specific giddiness - Seizure, breakthrough - Stroke - Vasovagal syncope - Others	3 2 2 3 4
Psychiatric - Depression - Others	3 6
Respiratory - Pneumothorax - Others	2 1
Skin and soft tissue - Allergic reaction, non-vaccine aetiology - Fixed drug eruption	1 1
Urological - Calculus-related - Others	3 3