

Supplementary S1. Comparing COVID-19 vaccination uptake and independent variables of interest before and after the fifth wave of COVID-19 outbreak in Hong Kong.

Table S1. Comparing COVID-19 vaccination uptake and other independent variables of interest between participants recruited before and after the fifth wave of COVID-19 outbreak in Hong Kong.

	Before the 5 th wave of outbreak (n=409) n (%)	After the 5 th wave of outbreak (n=31) n (%)	P values
COVID-19 vaccination uptake			
Number of doses of COVID-19 vaccination received by the participants			
0	167 (40.8)	6 (19.4)	0.03
1	10 (2.4)	0 (0.0)	
2	232 (56.7)	25 (80.6)	
Perceived impacts of incentives provided by the government in increasing one's motivation to receive COVID-19 vaccination			
Lottery for winning prizes			
Almost none	352 (92.1)	30 (96.8)	0.35
Small	18 (4.4)	0 (0.0)	
Moderate	21 (5.1)	1 (3.2)	
Large	18 (4.4)	0 (0.0)	
Item score, mean (SD)	1.3 (0.7)	1.1 (0.4)	0.01
Visiting mainland China or other places without quarantine			
Almost none	229 (56.0)	19 (61.3)	0.01
Small	42 (10.3)	8 (25.8)	
Moderate	56 (13.7)	3 (9.7)	
Large	82 (20.0)	1 (3.2)	
Item score, mean (SD)	2.0 (1.3)	1.6 (0.8)	0.01
Allowing visit of elderly homes and hospitals without COVID-19 testing			
Almost none	288 (70.4)	20 (64.5)	0.19
Small	39 (9.5)	6 (19.4)	
Moderate	39 (9.5)	4 (12.9)	
Large	43 (10.5)	1 (3.2)	
Item score, mean (SD)	1.6 (1.0)	1.6 (0.9)	0.78
Entering bars or clubs			
Almost none	367 (89.7)	28 (90.3)	0.76
Small	24 (5.9)	1 (3.2)	
Moderate	15 (3.7)	2 (6.5)	
Large	3 (0.7)	0 (0.0)	

Item score, mean (SD)	1.2 (0.5)	1.2 (0.5)	0.94
Walk-in vaccination services for older adults without prior booking			
Almost none	307 (75.1)	29 (93.5)	
Small	20 (4.9)	1 (3.2)	
Moderate	34 (8.3)	0 (0.0)	
Large	48 (11.7)	1 (3.2)	0.12
Item score, mean (SD)	1.7 (1.1)	1.1 (0.6)	<0.001
Satisfaction of COVID-19 vaccination health promotion materials (e.g., advertisement, poster, and others) produced by the government			
Whether the information are easy to understand			
No/uncertain	46 (11.2)	3 (9.7)	
Yes	363 (88.8)	28 (90.3)	0.79
Whether the materials can address your concerns related to COVID-19 vaccination			
No/uncertain	243 (59.4)	14 (45.2)	
Yes	166 (40.6)	17 (54.8)	0.12
Whether the materials are helpful for you to make decision to receive a COVID-19 vaccine			
No/uncertain	214 (52.3)	14 (45.2)	
Yes	195 (47.7)	17 (54.8)	0.44
Perceptions related to COVID-19 vaccination			
Attitudes toward COVID-19 vaccination, agree			
The protection offered by the COVID-19 vaccination is weaker among people with older age	70 (17.1)	5 (16.1)	0.89
The level of side effects of COVID-19 vaccination is severer among people with older age	122 (29.8)	3 (9.7)	0.02
Presence of chronic diseases would decrease the protection of COVID-19 vaccination	128 (31.3)	7 (22.6)	0.31
COVID-19 vaccination would negatively affect the control of existing chronic conditions	114 (27.9)	5 (16.1)	0.16
Attitudes Scale ¹ , mean (SD)	7.7 (2.5)	6.9 (2.4)	0.09
Subjective norm related to COVID-19 vaccination, agree			
Your family doctors would not support you to take up COVID-19 vaccination	31 (7.6)	3 (9.7)	0.67

Your children or other family members would not support you to take up COVID-19 vaccination	78 (19.1)	8 (25.8)	0.36
Subjective Norm Scale ² , mean (SD)	3.4 (1.1)	3.2 (1.3)	0.34
Perceived behavioral control to take up COVID-19 vaccination, agree			
You are confident to receive COVID-19 vaccination if you want to	384 (92.8)	30 (96.8)	0.51
Item score, mean (SD)	2.9 (0.4)	3.0 (0.2)	0.39
Decisional conflicts, agree			
You are sure about which type of COVID-19 vaccine is suitable for you	277 (67.7)	25 (80.6)	0.14
You are sure about which type of COVID-19 vaccine you should choose	282 (68.9)	25 (80.6)	0.17
Decisional Conflict Scale ³ , mean (SD)	5.3 (1.1)	5.5 (1.0)	0.17

P values were obtained by using Chi-square tests (for categorical variables) and independent sample t-tests (for continuous variables)

¹ Attitudes Scale: 4 items, Cronbach's alpha: 0.84, one factor was identified by exploratory factor analysis, explaining for 56.1% of total variance

² Subjective Norm Scale: 2 items, Cronbach's alpha: 0.72, one factor was identified by exploratory factor analysis, explaining for 67.8% of total variance

³ Decisional Conflict Scale, 2 items, Cronbach's alpha: 0.94, one factor was identified by exploratory factor analysis, explaining for 94.6% of total variance