

## Supplementary Material

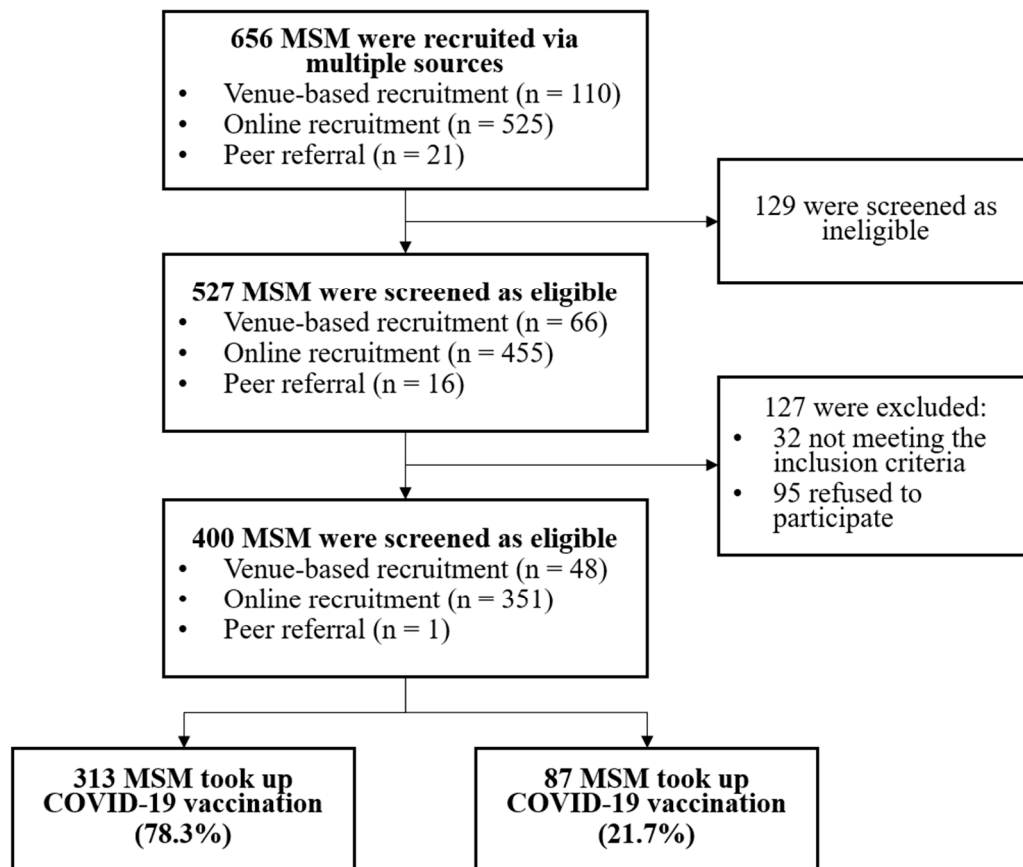


Figure S1. Flowchart of participant recruitment

Table S1 Descriptive statistics and associations between the independent variables and COVID-19 vaccination behavior

	Range	Overall Median (IQR)	COVID-19 vaccination behavior				<i>p</i>	<i>r</i>
			Yes		No			
			Median (IQR)	Mean rank	Median (IQR)	Mean rank		
<b>General HBM constructs</b>								
Perceived Severity Scale (PSEV-G)	0-10	6.0 (4.5-7.5)	5.5 (4.0-7.0)	199.3	6.0 (3.5-7.5)	204.7	0.698	0.04
Perceived benefits (PBEN-G)	1-5	4.0 (3.0-4.0)	3.0 (3.0-3.0)	222.5	3.0 (2.0-3.0)	121.5	<0.001	0.81
Perceived barriers (PBAR-G)								
Insufficient understanding about side effects (PBAR1-G)	1-5	2.0 (1.0-3.0)	2.0 (1.0-2.0)	190.0	2.0 (1.0-3.0)	238.2	<0.001	0.36
Unacceptable chance of severe side effects (PBAR2-G)	1-5	2.0 (1.0-3.0)	1.0 (1.0-2.0)	178.0	3.0 (2.0-3.0)	281.6	<0.001	0.82
Self-efficacy (SE-G)	1-5	4.0 (2.0-4.0)	4.0 (3.0-4.0)	222.8	2.0 (1.0-3.0)	120.2	<0.001	0.86
<b>General social norms (SN-G)</b>	1-5	3.0 (3.0-4.0)	2.0 (1.0-3.0)	192.7	3.0 (2.0-3.0)	228.7	0.008	0.27
<b>MSM-specific HBM constructs</b>								
Perceived susceptibility (PSUS-MSM)	1-5	1.0 (1.0-3.0)	1.0 (1.0-2.0)	205.1	1.0 (1.0-1.0)	183.9	0.096	0.17
Perceived Severity Scale (PSEV-MSM)	1-5	2.5 (2.0-3.0)	2.3 (1.8-2.8)	200.1	2.3 (1.8-2.8)	202.1	0.885	0.02
Perceived Benefit Scale (PBEN-MSM)	1-5	2.8 (2.3-3.3)	2.8 (2.2-3.2)	215.5	2.3 (1.8-2.8)	146.5	<0.001	0.51
Perceived Barriers Scale (PBAR-MSM)	1-5	1.0 (1.0-2.0)	1.0 (1.0-1.5)	189.4	1.0 (1.0-1.5)	240.3	<0.001	0.41
Cues to action (CA-MSM)	1-5	1.0 (1.0-2.0)	1.0 (1.0-1.0)	204.3	1.0 (1.0-2.0)	187.0	0.163	0.14
<b>MSM-specific social norms (SN-MSM)</b>	1-5	3.6 (3.0-4.0)	3.0 (2.0-4.0)	221.9	2.0 (1.0-2.0)	123.4	<0.001	0.78

Note. IQR = Interquartile range.  $0.1 < r < 0.3$ ,  $0.3 \leq r < 0.5$ , and  $r \geq 0.5$  representing small, medium, and large effect size, respectively.