

S7 Appendix. Balancing and manipulation check

Survey Experiment

Participants were assigned to treatment groups randomly. Despite random assignment differences between groups may occur. We test for this possibility to see for which variables we should control in the estimations. As we do find differences in age, education, past vaccine denial, risk perception, and emotional response to COVID-19 across treatments we control for these variables in all estimations.

Table S4. *Balancing across treatments: Survey experiment*

Variable	(1) Control Mean/SE	(2) Debunk Mean/SE	(3) Benefits Mean/SE	t-test Difference	
				(1)-(2)	(1)-(3)
<i>Socio-economics</i>					
Female (=1)	0.520 [0.019]	0.503 [0.028]	0.502 [0.028]	0.017	0.019
Age: 32-44 (=1)	0.200 [0.015]	0.215 [0.023]	0.196 [0.022]	-0.015	0.004
Age: 32-44 (=1)	0.128 [0.013]	0.123 [0.018]	0.131 [0.019]	0.005	-0.003
Age: 45-52 (=1)	0.215 [0.016]	0.193 [0.022]	0.251 [0.024]	0.021	-0.036
Age: 53-58 (=1)	0.380 [0.019]	0.356 [0.027]	0.367 [0.027]	0.024	0.013
Age: 59-81 (=1)	0.077 [0.010]	0.113 [0.018]	0.055 [0.013]	-0.036*	0.022
Secondary school: 'Hauptschulabschluss' (=1)	0.133 [0.013]	0.098 [0.017]	0.089 [0.016]	0.034	0.044**
Secondary school: 'Realschuleabschluss' (=1)	0.343 [0.018]	0.377 [0.027]	0.324 [0.026]	-0.035	0.019
High school (=1)	0.273 [0.017]	0.282 [0.025]	0.309 [0.026]	-0.009	-0.036
University degree (=1)	0.252 [0.017]	0.242 [0.024]	0.278 [0.025]	0.010	-0.026
Adjusted HH income	3.951 [0.069]	4.098 [0.100]	4.054 [0.100]	-0.147	-0.102
Married (=1)	0.434 [0.019]	0.390 [0.027]	0.388 [0.027]	0.044	0.045
<i>Explanatory variables</i>					
Baseline: Vaccination inaction (=1)	0.516 [0.019]	0.537 [0.028]	0.532 [0.028]	-0.021	-0.016
Denied other vaccine (=1)	0.154 [0.014]	0.113 [0.018]	0.144 [0.019]	0.040*	0.010
Index: COVID-19 risk perception	41.171 [0.900]	37.523 [1.202]	37.674 [1.171]	3.648**	3.497**
Index: Emotional response	3.719 [0.059]	3.499 [0.079]	3.504 [0.078]	0.220**	0.215**
Net anticipated regret (no vaccination – vaccination)	0.817 [0.151]	1.104 [0.227]	1.073 [0.225]	-0.288	-0.257
Index: Dogmatism	3.934 [0.037]	4.002 [0.053]	3.948 [0.053]	-0.068	-0.014
Observations	671	326	327		
F-test of joint significance (F-stat)				1.804**	1.437
F-test, number of observations				997	998

Note: The value displayed for t-tests are the differences in the means across the groups. ***, **, and * indicate significance at the 1, 5, and 10 percent critical level.

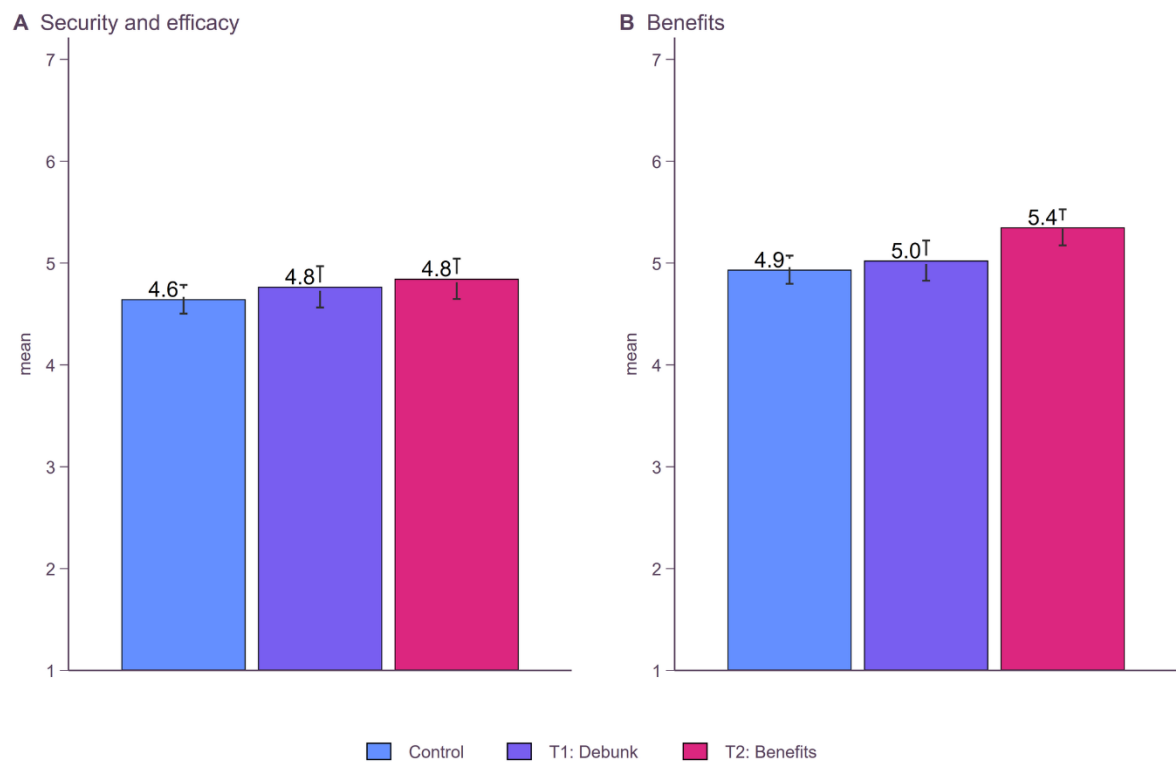


Fig S4. Priming check: Variation in feeling informed. Bars show mean values for each treatment group and 95% confidence intervals are indicated by lines. Panel A and B show the means towards the question “How informed do you feel about the safety and effectiveness of Corona vaccines?” and “How informed do you feel about the benefits for fully vaccinated individuals?” respectively. Answers were given on a 7-point Likert scale from 1 (not informed at all) to 7 (fully informed).

Balanced Panel

Table S5. *Balancing across treatments: Returners*

Variable	(1)	(2)	(3)	(4)	T-Test Differences		
	Control Mean/SE	T1: Debunk Mean/SE	T2: Benefits Mean/SE	T3: Facilitation Mean/SE	(1)-(2)	(1)-(3)	(1)-(4)
Female (=1)	0.482 [0.034]	0.473 [0.035]	0.527 [0.035]	0.513 [0.036]	0.009	-0.045	-0.031
Age: 32-44 (=1)	0.105 [0.021]	0.146 [0.025]	0.140 [0.024]	0.090 [0.021]	-0.042	-0.036	0.015
Age: 32-44 (=1)	0.109 [0.021]	0.107 [0.022]	0.097 [0.021]	0.122 [0.024]	0.002	0.012	-0.013
Age: 45-52 (=1)	0.236 [0.029]	0.166 [0.026]	0.271 [0.031]	0.185 [0.028]	0.071*	-0.034	0.051
Age: 53-58 (=1)	0.432 [0.033]	0.449 [0.035]	0.430 [0.034]	0.513 [0.036]	-0.017	0.002	-0.081
Age: 59-81 (=1)	0.118 [0.022]	0.132 [0.024]	0.063 [0.017]	0.090 [0.021]	-0.014	0.055**	0.028
Secondary school: 'Hauptschulabschluss' (=1)	0.127 [0.023]	0.112 [0.022]	0.077 [0.019]	0.169 [0.027]	0.015	0.050*	-0.042
Secondary school: 'Realschuleabschluss' (=1)	0.345 [0.032]	0.390 [0.034]	0.362 [0.033]	0.386 [0.036]	-0.045	-0.017	-0.041
High school (=1)	0.250 [0.029]	0.254 [0.030]	0.290 [0.032]	0.233 [0.031]	-0.004	-0.040	0.017
University degree (=1)	0.277 [0.030]	0.244 [0.030]	0.271 [0.031]	0.212 [0.030]	0.033	0.007	0.066
Adjusted HH income	3.972 [0.120]	4.015 [0.119]	4.109 [0.120]	4.034 [0.137]	-0.042	-0.137	-0.062
Married (=1)	0.500 [0.034]	0.434 [0.035]	0.440 [0.035]	0.460 [0.036]	0.066	0.060	0.040
Baseline: Vaccination inaction (=1)	0.532 [0.034]	0.522 [0.035]	0.517 [0.035]	0.582 [0.036]	0.010	0.015	-0.050
Denied other vaccine (=1)	0.155 [0.024]	0.122 [0.023]	0.130 [0.023]	0.148 [0.026]	0.033	0.024	0.006
Index: COVID-19 risk perception	40.827 [1.645]	36.324 [1.592]	37.493 [1.456]	38.558 [1.712]	4.503*	3.335	2.269
Index: Emotional response	3.599 [0.109]	3.460 [0.104]	3.524 [0.101]	3.617 [0.114]	0.139	0.075	-0.018
Net anticipated regret (no vaccination – vaccination)	0.586 [0.271]	1.141 [0.310]	1.111 [0.279]	0.566 [0.300]	-0.555	-0.525	0.020
Index: Dogmatism	3.912 [0.066]	4.068 [0.072]	3.989 [0.067]	4.051 [0.072]	-0.157	-0.078	-0.140
Observations	220	205	207	189			
F-test of joint significance (F-stat)					1.329	1.336	0.869
F-test, number of observations					425	427	409

Notes: The dependent variable took the value of one when the participant was assigned to one of the treatments and zero when in control for each of the joint F-test of orthogonality.