Supplementary Table S1. Description of predictors and their coding

Initial question(s) used to create the predictor	Initial response option(s), and categories for the predictor
Perceived vaccine effectiveness I believe vaccination reduces my risk of COVID-19. I believe that being vaccinated for COVID-19 means I will not get COVID-19. I believe that the COVID-19 vaccine will reduce the severity of disease if I get COVID-19. Using the above 3 variables, one variable was created as "whether COVID-19 vaccine was effective" , which means if a participant strongly agreed with any of the above questions, the outcome was coded as "Yes"	 Strongly agree vs. Strongly disagree or somewhat disagree or somewhat agree Strongly agree vs. Strongly disagree or somewhat disagree or somewhat agree Strongly agree vs. Strongly disagree or somewhat disagree or somewhat agree Yes vs. No
Severity of COVID-19 in relation to influenza How seriously do you think COVID-19 infection affects people?	 a. Not at all b. Less severe than influenza c. Similar to influenza d. Worse than influenza e. Much worse than influenza with potential to be fatal or cause long-term illness
Participant thought whether the COVID-19 pandemic was over	 Yes vs. No
COVID-19 vaccination status	Unvaccinated, 0-2 doses, ≥ 3 doses
Participant had at least one comorbidity	Yes vs. No
Sociodemographic Age	 18-64, 65-74, ≥75 years
Sex	Male, Female, Non-binary
State/territory	Victoria vs. all other states/territories
Participant was born in Australia	Yes vs. No
Apart from English, participant spoke another language	 Yes vs. No
Employment status	Employed vs. Unemployed
Education level	Primary/secondary vs. TAFE/bachelor/postgraduate
Prior COVID-19 infection Previous COVID-19 infection was assessed through self-reported survey responses, distinguishing between test-confirmed infection, no previous infection, and suspected infection based on symptoms without testing.	 Yes (test confirmed/suspected) vs. No
Knowledge of the availability of a bivalent COVID-19 vaccine	 Yes vs. No
Source of information on COVID-19 Gov/WHO/Doctor refers to TV, online news, hard copy newspapers, radio, internet, government news, WHO news, state CMO news, state premier news, federal minister news, doctor news Social media refers to Blog, Twitter, YouTube, Facebook, TikTok, Instagram, Podcasts Friends/employer/school refers to Employer's emails/news, school emails/news, friends'/family's news	Mainstream media (Gov/WHO/Doctor), social media, friends/employer/school

Supplementary Table S2. Full model on predictors of intention to vaccinate for annual booster doses of COVID-19 vaccines.

Variable	Category	Unadjusted Odds Ratio (95% CI)	Adjusted Odds Ratio (95% CI)
Age	18 – 64 years	Ref	Ref
	65 – 74 years	***3.96 (2.93-5.34)**	***2.38 (1.61-3.50)**
	≥ 75 years	***5.89 (3.66-9.46)**	***2.85 (1.60-5.08)**
Gender	Female	Ref	Ref
	Male	***1.60 (1.36-1.89)**	1.23 (0.98-1.54)
	Non-binary	1.29 (0.37-4.41)	1.75 (0.36-8.48)
State/Territory	All other states	Ref	Ref
	Victoria	1.05 (0.84-1.33)	0.98 (0.73-1.31)
Born in Australia	No	Ref	Ref
	Yes	**0.72 (0.59-0.88)**	1.04 (0.79-1.38)
Other language spoken	No (only English)	Ref	Ref
	Yes	0.96 (0.74-1.24)	1.15 (0.80-1.65)
Employment	Unemployed	Ref	Ref
	Employed	***0.65 (0.55-0.76)**	0.92 (0.72-1.18)
Education	Primary/secondary	Ref	Ref
	TAFE/Bachelor/Postgraduate	*1.24 (1.04-1.47)**	0.94 (0.75-1.18)
Perceived severity of COVID-19 in relation to influenza	Less than influenza	Ref	Ref
	Not severe at all	*0.50 (0.26-0.97)**	1.29 (0.54-3.06)
	Similar to influenza	*1.44 (1.07-1.94)**	1.23 (0.84-1.81)
	Worse than influenza	***3.21 (2.36-4.36)**	** 1.98 (1.33-2.94)**
	Much worse than influenza	***4.05 (2.98-5.50)**	** 1.80 (1.20-2.70)**
Pandemic is over	Agree	Ref	Ref
	Disagree	***4.05 (3.32-4.95)**	***2.23 (1.71-2.91)**
Comorbidity (at least one)	No	Ref	Ref
	Yes	***1.62 (1.38-1.91)**	*1.28 (1.04-1.58)**
COVID-19 vaccination status	1-2 doses	Ref	Ref
	≥ 3 doses	***7.51 (5.98-9.42)**	***4.28 (3.31-5.52)**
	Unvaccinated	***0.21 (0.12-0.37)**	***0.28 (0.15-0.52)**
Perceived effectiveness of COVID-19 vaccine	No	Ref	Ref
	Yes	***6.34 (5.31-7.55)**	***4.25(3.46-5.22)**
Knowledge of availability of COVID-19 vaccines	No	Ref	Ref
	Yes	***7.64 (4.80-12.16)**	***4.07 (2.47-6.70)**
Prior COVID-19 infection	No	Ref	Ref
	Yes	0.98 (0.83-1.15)	1.09 (0.89-1.35)
Source of information on COVID-19	Gov/WHO/Doctor/Internet	Ref	Ref
	Social media	***0.58 (0.48-0.70)**	0.90 (0.70-1.16)
	Friends/employer	0.83 (0.68-1.02)	1.07 (0.82-1.40)

***p-value < 0.001, **p-value < 0.01, *p-value < 0.05