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OPEN

DATA DESCRIPTOR

Social and moral psychology of COVID-19 across 69 countries

Flavio Azevedo *et al.*[#]

The COVID-19 pandemic has affected all domains of human life, including the economic and social fabric of societies. One of the central strategies for managing public health throughout the pandemic has been through persuasive messaging and collective behaviour change. To help scholars better understand the social and moral psychology behind public health behaviour, we present a dataset comprising of 51,404 individuals from 69 countries. This dataset was collected for the International Collaboration on Social & Moral Psychology of COVID-19 project (ICSMP COVID-19). This social science survey invited participants around the world to complete a series of moral and psychological measures and public health attitudes about COVID-19 during an early phase of the COVID-19 pandemic (between April and June 2020). The survey included seven broad categories of questions: COVID-19 beliefs and compliance behaviours; identity and social attitudes; ideology; health and well-being; moral beliefs and motivation; personality traits; and demographic variables. We report both raw and cleaned data, along with all survey materials, data visualisations, and psychometric evaluations of key variables.

Background & Summary

Well over two years after the official outbreak¹, it is evident that the COVID-19 pandemic has affected all domains of human life, including the economic and social fabric of societies² as well as people's physical and mental health³. At the time of writing, the world reached 850 million confirmed infections and up to 18 million deaths⁴. The detrimental effects of the pandemic extend beyond physical health with evidence of increased stress levels⁵ and suicide rates⁶, along with deterioration of general well-being⁷. Such findings reflect the cautionary warnings by Taylor⁸ that the psychological and societal effects are "likely to be more pronounced, more widespread, and longer-lasting than the purely somatic effects of the infection"⁸, p.23.

In the early stages of the pandemic, when vaccines were not yet available, governments introduced non-pharmaceutical interventions to reduce the spread of the SARS-CoV-2 virus⁹. Various contact-restricting policies (e.g., stay-at-home recommendations, curfews, police hours, partial or complete lock-downs) were enacted, and citizens were advised to adhere to public health recommendations (e.g., hand washing, face masks, and spatial distancing). It quickly became clear that behavioural science had a major role to play¹⁰.

On April 11th, a team of researchers launched a call for international collaboration in social and moral psychology. The initiative quickly gained momentum, gathering a consortium of over 250 academics worldwide. The aim of this project was to collect data from as many countries as possible to serve as a public good for the scientific community by allowing future research to draw on this broad database collected during this early phase of the COVID-19 pandemic. The survey, developed by the initial team, was circulated among the national teams, who provided feedback, translated it into 32 languages, and disseminated it online. The project concluded with responses from a total of 51,404 participants from 69 countries, 77 samples, between April 22nd and June 3rd, 2020.

A key goal of the project was to test the hypothesis that national identity predicts support for public health measures during the COVID-19 pandemic, which has since been confirmed^{11,12}. In addition to collecting variables to test this hypothesis, we collected data on a variety of other social and moral constructs to make of our multi-country large-scale survey a rich resource for future research. The survey focused on the following areas: on a) COVID-19 beliefs and compliance behaviours (COVID-19 public health support, COVID-19 risk perception, COVID-19 conspiracy beliefs, and COVID-19 testing behaviour); b) identity and social attitudes (national identification, national narcissism, and social belonging); c) ideology (political ideology);

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Sample sizes across 69 countries

Heat map showing the number of respondents from each country

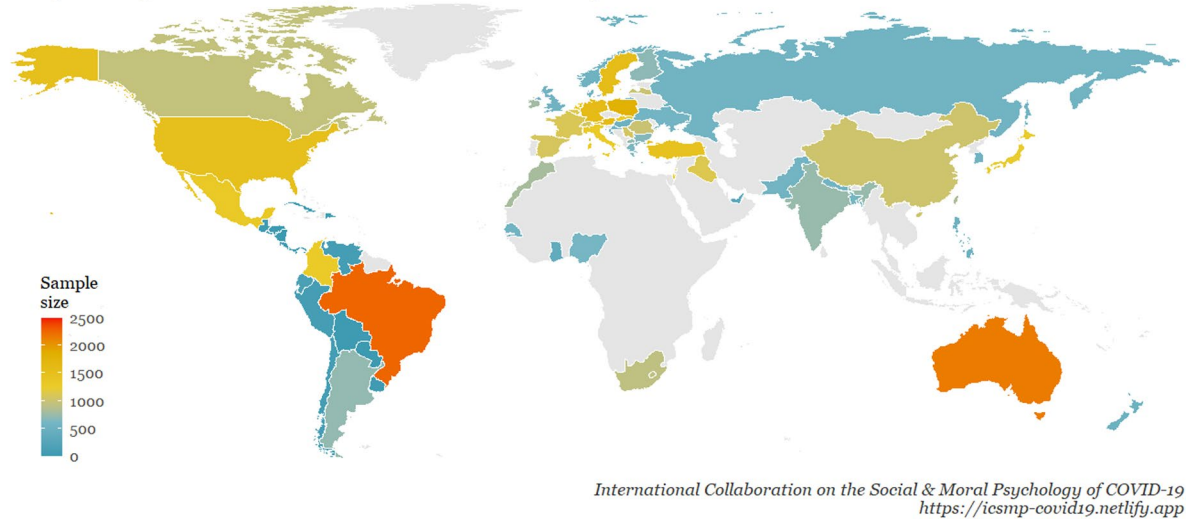


Fig. 1 A world map visualizing the number of participants in each surveyed country. **Note:** This heat map shows the number of respondents from each country. The gray areas are the countries that are not covered by the data, and the colour scale shows the size of the sample in accordance with the scale on the lower left side.

Sample proportion across 69 countries

Heat map showing the proportion of respondents (i.e., country sample/total sample) from each country

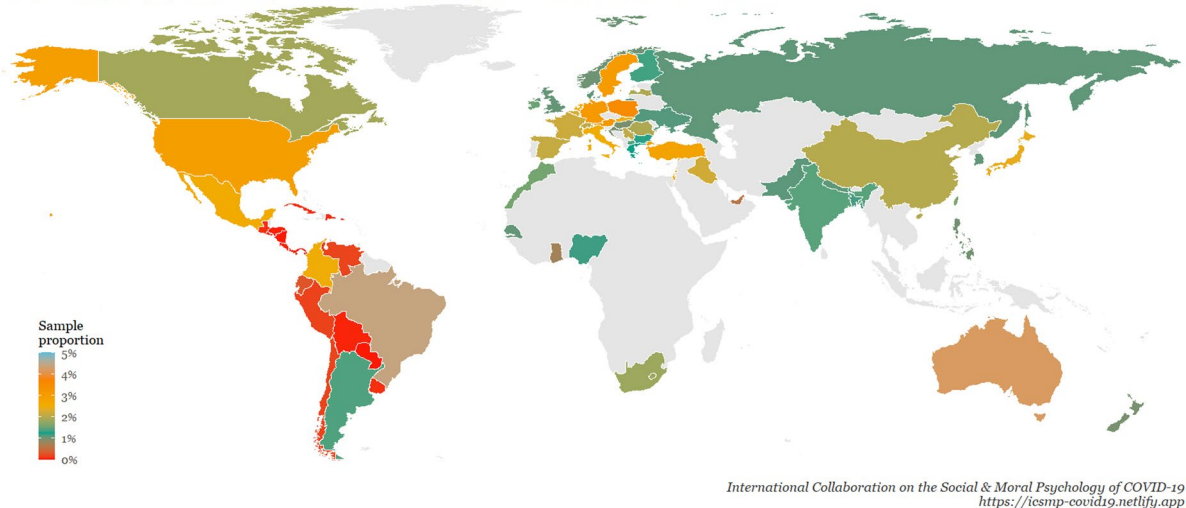
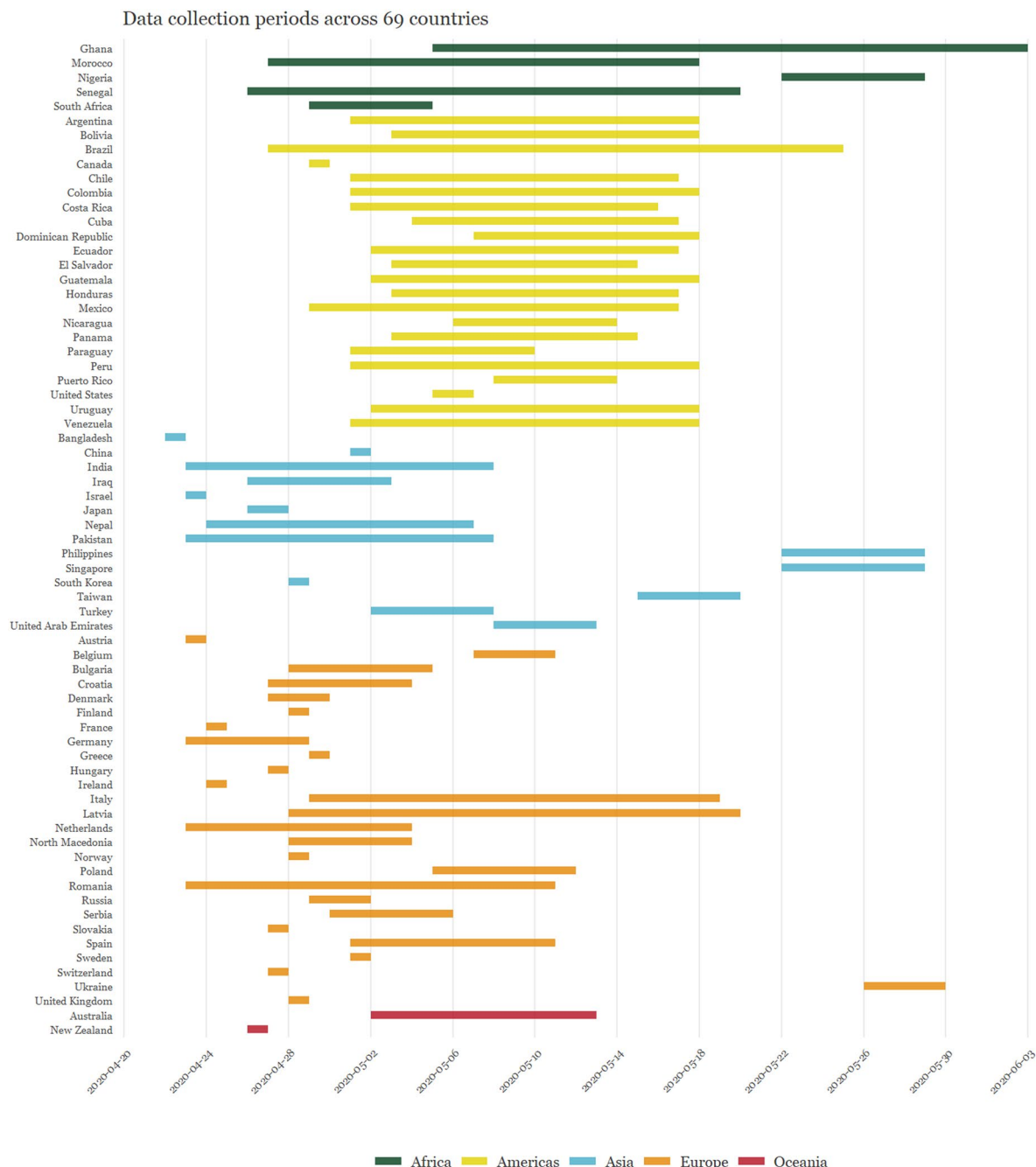


Fig. 2 International Collaboration on the Social and Moral Psychology of COVID-19: Investigated constructs, items and variables.

d) health and well-being (subjective physical health, a wealth ladder ranking, and psychological well-being); e) moral beliefs and motivation (generosity, morality as cooperation, moral identity, and moral circle); f) personality traits and dispositions (open-mindedness, self-esteem, trait optimism, trait self-control, narcissism, and cognitive reflection); and g) demographic variables (i.e., sex, age, marital status, number of children, and employment status).

Using this dataset, project team members have pre-registered a variety of secondary hypotheses (see icsmp-covid19.netlify.app/preregistration), several of which have already been published^{11–23}. In this paper, we present the complete ICSMP datasets to facilitate its findability, accessibility, interoperability, and reuse (FAIR,^{24,25}) and maximize its educational impact^{26–28}.



International Collaboration on the Social & Moral Psychology of COVID-19
<https://tesmp-covid19.netlify.app>

Fig. 3 Gantt Chart illustrating the data collection periods for each surveyed country.

Methods

When possible, we used articles published in Nature Scientific Data presenting social sciences data as blueprints^{5,29}. Given the urgent call for COVID-19 research, this study received an umbrella ethical approval from the University of Kent (see [osf.io/ce638](https://doi.org/10.1038/s41597-023-02080-8)) but also complied with local ethics, norms, and regulations in the countries where the data were collected.

Participants. A total of 51,404 individuals from 77 samples across 69 countries participated in our survey. The inclusion criteria were the following: being 18 years of age and older, and giving informed consent (although researchers were encouraged to, ideally, recruit representative samples regarding age and gender). Data were collected between April 22nd and June 3rd, 2020. Figure 1 displays *where* the data were collected, coloured according to national sample size. Figure 2 displays the proportion of respondents in relation to the full sample. Figure 3 shows *when* the data were collected in each country.

Sample	Country	N	% Valid Answers		Age		Multiple datasets per country
			<50%	<90%	μ_{Age}	sd_{Age}	
AR	Argentina	721	1.00	1.00	47.38	15.29	1
AU	Australia	2161	1.00	1.00	46.92	17.59	1
AT	Austria	1605	0.90	0.87	49.77	14.13	1
BD	Bangladesh	596	0.82	0.67	31.90	10.89	1
BE	Belgium	1159	1.00	1.00	46.29	18.67	1
BO	Bolivia	29	1.00	1.00	43.41	12.98	1
BR_1	Brazil_1	961	0.99	0.99	39.31	14.57	3
BR_2	Brazil_2	1301	0.75	0.67	34.89	13.12	3
BR_3	Brazil_3	6	1.00	1.00	40.33	13.14	3
BG	Bulgaria	666	1.00	0.96	30.69	11.13	1
CA_e	Canada_english	792	1.00	1.00	42.70	17.39	2
CA_f	Canada_french	171	1.00	1.00	46.83	16.97	2
CL	Chile	97	1.00	1.00	49.21	15.47	1
CN	China	1030	1.00	1.00	43.24	14.02	1
CO_1	Colombia_1	731	0.99	0.91	37.26	14.68	2
CO_2	Colombia_2	546	1.00	1.00	44.91	15.16	2
CR	Costa Rica	25	1.00	1.00	44.64	12.73	1
HR	Croatia	515	1.00	1.00	45.91	14.56	1
CU	Cuba	43	1.00	1.00	48.65	12.73	1
DK	Denmark	566	1.00	1.00	48.69	17.54	1
DO	Dominican Republic	36	1.00	1.00	40.39	12.46	1
EC	Ecuador	148	1.00	1.00	40.63	11.98	1
SV	El Salvador	28	1.00	1.00	46.43	11.51	1
FI	Finland	698	0.99	0.98	38.64	13.77	1
FR	France	1119	1.00	0.99	43.18	16.20	1
DE	Germany	1587	1.00	1.00	49.58	16.14	1
GH	Ghana	390	0.68	0.49	31.46	7.54	1
GR	Greece	640	1.00	1.00	29.77	11.43	1
GT	Guatemala	48	1.00	1.00	44.67	13.31	1
HN	Honduras	24	1.00	1.00	39.25	14.30	1
HU	Hungary	506	1.00	1.00	48.53	16.54	1
IN_1	India_1	312	0.87	0.81	26.94	8.49	2
IN_2	India_2	429	0.94	0.84	36.81	12.05	2
IQ	Iraq	1142	0.57	0.48	31.03	14.13	1
IE	Ireland	785	0.96	0.95	38.23	14.63	1
IL	Israel	1253	1.00	1.00	41.13	15.25	1
IT_1	Italy_1	998	0.99	0.99	46.41	16.26	2
IT_2	Italy_2	284	1.00	1.00	47.35	18.07	2
JP	Japan	1239	0.96	0.93	47.10	15.21	1
KR	Korea	555	0.92	0.89	41.83	13.90	1
LV	Latvia	1008	1.00	1.00	45.60	14.11	1
MK	Macedonia	726	0.97	0.96	38.13	11.63	1
MX_1	Mexico_1	804	0.94	0.93	47.81	13.89	2
MX_2	Mexico_2	507	1.00	1.00	47.77	13.54	2
MA	Morocco	812	0.81	0.71	31.95	12.27	1

Table 1. Sample size, average proportion of valid answers, age of respondents and the number of data collections in 69 countries (A-M). **Note:** Country = country names in accordance with ISO3 codes, N = number of respondents in each country. <50% and <90% = average proportion of valid (non NA) answers that are below 0.5 and 0.9 respectively in the subject level. μ_{Age} = mean age and sd_{Age} = standard deviation of the age, Multiple datasets = whether there were multiple data collections in the country. Tables 1, 2 show the number of participants, the mean proportion of non-missing 'valid' answers, and age. When multiple samples were collected within the same country, data were split into numbered subgroups (e.g., for Brazil, which has three samples, they were flagged as Brazil_1, Brazil_2 and Brazil_3). Multiple subsamples can be observed for Brazil, Canada, Colombia, India, Italy, Mexico and Romania. Note that in all the tables, we kept country subsamples separated to highlight they were collected by different teams, often using different sampling methodologies or languages, which impact their characteristics (e.g., representativeness).

Sample	Country	N	% Valid Answers		Age		Multiple datasets per country
			<50%	<90%	μ_{Age}	sd_{Age}	
NP	Nepal	563	0.78	0.61	28.06	7.58	1
NL	Netherlands	1297	1.00	0.99	49.63	16.83	1
NZ	New Zealand	510	1.00	1.00	45.76	17.62	1
NI	Nicaragua	16	1.00	1.00	42.75	14.84	1
NG	Nigeria	608	0.93	0.87	32.08	10.81	1
NO	Norway	532	1.00	1.00	47.04	17.39	1
PK	Pakistan	565	0.90	0.85	26.94	8.38	1
PA	Panama	18	1.00	1.00	44.11	17.32	1
PY	Paraguay	16	1.00	1.00	38.94	9.33	1
PE	Peru	91	1.00	1.00	46.21	14.44	1
PH	Philippines	524	0.98	0.96	36.74	12.27	1
PL	Poland	1817	1.00	1.00	46.44	17.09	1
PR	Puerto Rico	2	1.00	1.00	64.00	16.97	1
RO_1	Romania_1	500	1.00	1.00	42.26	13.45	2
RO_2	Romania_2	505	1.00	0.99	42.53	14.50	2
RU	Russian Federation	558	1.00	1.00	45.02	15.46	1
SN	Senegal	552	0.62	0.51	34.36	12.43	1
RS	Serbia	1070	0.88	0.71	42.92	11.93	1
SG	Singapore	564	0.96	0.92	43.06	13.73	1
SK	Slovakia	1265	1.00	1.00	44.19	15.88	1
ZA	South Africa	939	0.82	0.56	39.90	13.44	1
ES	Spain	1090	1.00	0.99	46.01	13.68	1
SE	Sweden	1568	1.00	1.00	52.90	15.42	1
CH	Switzerland	1056	1.00	1.00	47.94	16.66	1
TW	Taiwan	833	1.00	1.00	43.99	13.25	1
TR	Turkey	1455	1.00	0.99	37.23	15.24	1
UA	Ukraine	577	1.00	1.00	37.45	8.03	1
AE	United Arab Emirates	313	0.71	0.59	31.77	8.59	1
GB	United Kingdom	550	1.00	1.00	45.66	15.62	1
US	United States of America	1506	1.00	0.99	44.23	16.60	1
UY	Uruguay	49	1.00	1.00	52.88	13.70	1
VE	Venezuela	96	1.00	1.00	46.53	12.97	1

Table 2. Sample size, average proportion of valid answers, age of respondents and the number of data collections in 69 countries (N-V). **Note:** Country = country names in accordance with ISO3 codes, N = number of respondents in each country. <50% and <90% = average proportion of valid (non NA) answers that are below 0.5 and 0.9 respectively in the subject level. μ_{Age} = mean age and sd_{Age} = standard deviation of the age, Multiple datasets = whether there were multiple data collections in the country. Tables 1, 2 show the number of participants, the mean proportion of non-missing 'valid' answers, and age. When multiple samples were collected within the same country, data were split into numbered subgroups (e.g., for Brazil, which has three samples, they were flagged as Brazil_1, Brazil_2 and Brazil_3). Multiple subsamples can be observed for Brazil, Canada, Colombia, India, Italy, Mexico and Romania. Note that in all the tables, we kept country subsamples separated to highlight they were collected by different teams, often using different sampling methodologies or languages, which impact their characteristics (e.g., representativeness).

Demographic variables across countries are summarised in several tables: Tables 1, 2 show the number of participants, the mean proportion of non-missing 'valid' answers, and age. Tables 3, 4 illustrate the distribution of gender; Tables 5, 6 show employment status; and Tables 7–9 show marital status and number of children. When multiple samples were collected within the same country, data were split into numbered subgroups (e.g., for Brazil, which has three samples, they were flagged as Brazil_1, Brazil_2 and Brazil_3). Note that in the tables above, we kept country subsamples separated to highlight they were collected by different teams, often using different sampling methodologies or languages, which impact their characteristics (e.g., representativeness).

For the most part, participants were recruited via professional survey research companies and were incentivised to participate. In countries that, to our knowledge, did not possess polling infrastructure³⁰, incentivising participants was not feasible. To collect data in these countries, leaders of national teams relied on online

Country	% Female	% Male	% Other	% Unreported
Argentina	0.69	0.31	0.00	0.00
Australia	0.51	0.48	0.01	0.00
Austria	0.46	0.41	0.00	0.13
Bangladesh	0.37	0.31	0.01	0.31
Belgium	0.41	0.59	0.00	0.00
Bolivia	0.59	0.41	0.00	0.00
Brazil_1	0.49	0.50	0.01	0.01
Brazil_2	0.47	0.19	0.00	0.33
Brazil_3	0.83	0.17	0.00	0.00
Bulgaria	0.65	0.34	0.00	0.01
Canada_English	0.62	0.38	0.01	0.00
Canada_French	0.54	0.46	0.00	0.00
Chile	0.65	0.35	0.00	0.00
China	0.49	0.51	0.00	0.00
Colombia_1	0.62	0.37	0.00	0.01
Colombia_2	0.63	0.37	0.00	0.00
Costa Rica	0.36	0.64	0.00	0.00
Croatia	0.52	0.48	0.00	0.01
Cuba	0.51	0.49	0.00	0.00
Denmark	0.49	0.51	0.00	0.00
Dominican Republic	0.81	0.19	0.00	0.00
Ecuador	0.55	0.45	0.00	0.00
El Salvador	0.54	0.46	0.00	0.00
Finland	0.45	0.48	0.05	0.02
France	0.55	0.45	0.00	0.00
Germany	0.50	0.50	0.00	0.00
Ghana	0.26	0.53	0.00	0.22
Greece	0.35	0.65	0.00	0.00
Guatemala	0.44	0.56	0.00	0.00
Honduras	0.71	0.29	0.00	0.00
Hungary	0.52	0.48	0.00	0.00
India_1	0.42	0.38	0.02	0.18
India_2	0.31	0.59	0.01	0.10
Iraq	0.23	0.26	0.01	0.50
Ireland	0.63	0.31	0.00	0.05
Israel	0.51	0.49	0.00	0.00
Italy_1	0.50	0.49	0.00	0.00
Italy_2	0.66	0.33	0.00	0.01
Japan	0.48	0.46	0.00	0.06
Korea	0.42	0.48	0.00	0.10
Latvia	0.63	0.37	0.00	0.00
Macedonia	0.54	0.43	0.01	0.03
Mexico_1	0.39	0.53	0.00	0.07
Mexico_2	0.61	0.38	0.00	0.00
Morocco	0.52	0.47	0.01	0.00

Table 3. Distribution of sex in 69 countries (A-M). *Note:* Country = country names in accordance with ISO3 codes, % Female = Proportion of female respondents in the country, % Male = proportion of male respondents, % Other = proportion of non-binary respondents and % NA = proportion of the unreported sex.

volunteers recruited via media appeals, mailing lists, advertisements on news aggregators, local communities and bloggers, and private messaging apps such as WhatsApp or WeChat.

Materials. The measures we used are illustrated in Figs. 4, 5 along with the specific items listed for each measure. In most cases, participants' responses were collected on a scale from 0 = 'strongly disagree' to 10 = 'strongly agree', with 5 = 'neither disagree nor agree'. In some cases, when more appropriate, we used other response scales (e.g., the generosity measure, where a 0–100% response scale was applied to hypothetical donations). In total, we

Country	% Female	% Male	% Other	% Unreported
Nepal	0.33	0.29	0.01	0.37
Netherlands	0.46	0.54	0.00	0.00
New Zealand	0.50	0.50	0.00	0.00
Nicaragua	0.62	0.38	0.00	0.00
Nigeria	0.49	0.51	0.00	0.00
Norway	0.53	0.46	0.00	0.00
Pakistan	0.46	0.40	0.00	0.14
Panama	0.67	0.33	0.00	0.00
Paraguay	0.88	0.12	0.00	0.00
Peru	0.45	0.55	0.00	0.00
Philippines	0.50	0.50	0.00	0.00
Poland	0.49	0.50	0.00	0.00
Puerto Rico	0.50	0.50	0.00	0.00
Romania_1	0.52	0.48	0.00	0.00
Romania_2	0.49	0.50	0.00	0.00
Russian Federation	0.53	0.47	0.00	0.00
Senegal	0.37	0.63	0.01	0.00
Serbia	0.53	0.19	0.00	0.28
Singapore	0.51	0.49	0.00	0.00
Slovakia	0.50	0.50	0.00	0.00
South Africa	0.51	0.17	0.00	0.31
Spain	0.33	0.67	0.00	0.00
Sweden	0.40	0.59	0.00	0.00
Switzerland	0.51	0.49	0.00	0.00
Taiwan	0.50	0.50	0.00	0.00
Turkey	0.51	0.49	0.00	0.00
Ukraine	0.52	0.47	0.00	0.00
United Arab Emirates	0.29	0.31	0.00	0.40
United Kingdom	0.51	0.49	0.00	0.00
United States of America	0.51	0.48	0.00	0.00
Uruguay	0.69	0.31	0.00	0.00
Venezuela	0.56	0.44	0.00	0.00

Table 4. Distribution of sex in 69 countries (N-V). *Note:* Country = country names in accordance with ISO3 codes, % Female = Proportion of female respondents in the country, % Male = proportion of male respondents, % Other = proportion of non-binary respondents and % NA = proportion of the unreported sex.

collected 98 unique variables and meta-data. To ensure participants' anonymity, no data that would allow their identification were collected.

COVID-19 Beliefs and compliance. Four constructs: COVID-19 public health support, COVID-19 risk perception, COVID-19 conspiracy theory beliefs, and COVID-19 testing behaviour. The public health support construct, in turn, is composed of three measures: spatial distancing, physical hygiene, and policy support. These are ad-hoc scales that we developed ourselves.

Identity and social attitudes. Three constructs: national identification³¹, national narcissism³², and social belonging³³.

Ideology. One construct: political ideology. Participants self-reported their political orientation according to a single item on a scale from 0 ("Very left-leaning") to 10 ("Very right-leaning"). This measure has been shown to account for a significant proportion of the variance in voting intentions in American presidential elections between 1972 and 2004³⁴ and 2016^{35–37}. In fact, using a single-item scale to measure political ideology has been a common practice in political psychology literature, providing substantive evidence for the validity of the measure both across national and international research^{38,39}. However, even if the symbolic ideology can be a useful and parsimonious instrument to study political attitudes, when interpreting results, users should be attentive to the political and cultural applicability, psychometric validity, and generalisability of measures of political ideology^{40–42}.

Country	% Full	% Part	% Unemp.	% Student	% Retired	% Other	% Unreported
Argentina	0.45	0.15	0.02	0.08	0.08	0.22	0.00
Australia	0.36	0.18	0.11	0.05	0.23	0.07	0.00
Austria	0.36	0.13	0.02	0.05	0.12	0.20	0.13
Bangladesh	0.18	0.15	0.08	0.21	0.02	0.04	0.32
Belgium	0.28	0.04	0.03	0.25	0.25	0.14	0.00
Bolivia	0.52	0.14	0.07	0.07	0.00	0.21	0.00
Brazil_1	0.51	0.10	0.11	0.09	0.09	0.09	0.01
Brazil_2	0.25	0.08	0.06	0.16	0.04	0.08	0.33
Brazil_3	0.50	0.00	0.00	0.33	0.00	0.17	0.00
Bulgaria	0.37	0.06	0.06	0.24	0.01	0.23	0.03
Canada_English	0.41	0.12	0.09	0.11	0.18	0.09	0.00
Canada_French	0.00	0.00	0.63	0.05	0.25	0.08	0.00
Chile	0.40	0.16	0.04	0.04	0.07	0.28	0.00
China	0.73	0.01	0.01	0.05	0.20	0.00	0.00
Colombia_1	0.42	0.07	0.09	0.26	0.05	0.11	0.02
Colombia_2	0.40	0.15	0.04	0.12	0.07	0.22	0.00
Costa Rica	0.68	0.04	0.12	0.00	0.08	0.08	0.00
Croatia	0.48	0.03	0.16	0.05	0.24	0.05	0.00
Cuba	0.74	0.07	0.09	0.02	0.02	0.05	0.00
Denmark	0.41	0.07	0.07	0.10	0.29	0.07	0.00
Dominican Republic	0.56	0.14	0.08	0.11	0.03	0.08	0.00
Ecuador	0.57	0.10	0.06	0.07	0.05	0.14	0.00
El Salvador	0.68	0.07	0.07	0.04	0.00	0.14	0.00
Finland	0.44	0.08	0.09	0.19	0.08	0.10	0.02
France	0.55	0.07	0.07	0.08	0.18	0.05	0.00
Germany	0.37	0.13	0.05	0.07	0.29	0.09	0.00
Ghana	0.31	0.08	0.11	0.22	0.01	0.05	0.22
Greece	0.33	0.10	0.14	0.37	0.03	0.03	0.00
Guatemala	0.56	0.08	0.04	0.04	0.04	0.23	0.00
Honduras	0.46	0.38	0.08	0.04	0.00	0.04	0.00
Hungary	0.44	0.07	0.07	0.05	0.29	0.07	0.00
India_1	0.31	0.05	0.06	0.33	0.01	0.05	0.18
India_2	0.37	0.11	0.09	0.10	0.05	0.19	0.10
Iraq	0.09	0.08	0.09	0.17	0.01	0.04	0.50
Ireland	0.42	0.12	0.05	0.18	0.06	0.12	0.05
Israel	0.39	0.13	0.15	0.06	0.09	0.18	0.00
Italy_1	0.42	0.12	0.13	0.08	0.17	0.08	0.00
Italy_2	0.37	0.07	0.04	0.15	0.25	0.11	0.00
Japan	0.44	0.12	0.16	0.05	0.10	0.06	0.06
Korea	0.49	0.12	0.06	0.08	0.06	0.09	0.10
Latvia	0.63	0.08	0.06	0.07	0.10	0.08	0.00
Macedonia	0.70	0.04	0.07	0.08	0.02	0.06	0.03
Mexico_1	0.45	0.12	0.08	0.03	0.10	0.16	0.07
Mexico_2	0.52	0.15	0.03	0.05	0.07	0.18	0.00
Morocco	0.38	0.09	0.12	0.29	0.03	0.09	0.01

Table 5. Distribution of employment status in 69 countries (A-M). *Note:* Country = country names in accordance with ISO3 codes, % Full = Proportion of full time workers, % Part = proportion of part time workers, % Unemp. = proportion of unemployed respondents, % Student = proportion of students, % Retired = proportion of retirees, % Other = proportion of respondents who do not fit in the mentioned categories and % NA = proportion of the unreported employment status.

Country	% Full	% Part	% Unemp.	% Student	% Retired	% Other	% Unreported
Nepal	0.25	0.08	0.07	0.19	0.01	0.04	0.37
Netherlands	0.31	0.17	0.04	0.08	0.20	0.19	0.00
New Zealand	0.40	0.16	0.10	0.05	0.16	0.12	0.00
Nicaragua	0.44	0.25	0.06	0.00	0.06	0.19	0.00
Nigeria	0.30	0.14	0.17	0.18	0.01	0.06	0.13
Norway	0.45	0.09	0.03	0.06	0.20	0.15	0.00
Pakistan	0.24	0.05	0.07	0.43	0.01	0.06	0.14
Panama	0.50	0.00	0.11	0.06	0.11	0.22	0.00
Paraguay	0.62	0.38	0.00	0.00	0.00	0.00	0.00
Peru	0.49	0.21	0.07	0.08	0.07	0.09	0.00
Philippines	0.47	0.12	0.15	0.09	0.03	0.11	0.03
Poland	0.37	0.07	0.13	0.07	0.26	0.10	0.00
Puerto Rico	0.50	0.00	0.00	0.00	0.00	0.50	0.00
Romania_1	0.63	0.04	0.08	0.07	0.13	0.05	0.00
Romania_2	0.58	0.05	0.08	0.08	0.14	0.08	0.00
Russian Federation	0.26	0.20	0.23	0.05	0.24	0.02	0.00
Senegal	0.51	0.05	0.06	0.23	0.01	0.13	0.00
Serbia	0.49	0.03	0.06	0.05	0.05	0.00	0.33
Singapore	0.63	0.06	0.08	0.04	0.05	0.05	0.07
Slovakia	0.48	0.05	0.08	0.07	0.24	0.08	0.00
South Africa	0.39	0.06	0.04	0.05	0.04	0.10	0.31
Spain	0.54	0.07	0.09	0.05	0.13	0.11	0.00
Sweden	0.51	0.06	0.03	0.05	0.27	0.09	0.00
Switzerland	0.37	0.18	0.06	0.07	0.20	0.11	0.00
Taiwan	0.57	0.10	0.06	0.07	0.14	0.07	0.00
Turkey	0.37	0.07	0.11	0.20	0.10	0.16	0.00
Ukraine	0.61	0.14	0.12	0.02	0.02	0.09	0.00
United Arab Emirates	0.30	0.02	0.05	0.18	0.00	0.05	0.40
United Kingdom	0.40	0.17	0.11	0.05	0.17	0.10	0.00
United States of America	0.48	0.11	0.12	0.04	0.18	0.06	0.00
Uruguay	0.53	0.14	0.00	0.06	0.12	0.14	0.00
Venezuela	0.46	0.12	0.07	0.02	0.03	0.29	0.00

Table 6. Distribution of employment status in 69 countries (N-V). *Note:* Country = country names in accordance with ISO3 codes, % Full = Proportion of full time workers, % Part = proportion of part time workers, % Unemp. = proportion of unemployed respondents, % Student = proportion of students, % Retired = proportion of retirees, % Other = proportion of respondents who do not fit in the mentioned categories and % NA = proportion of the unreported employment status.

Health and well-being. Three constructs: subjective physical health, wealth ladder, and psychological well-being. Each of these scales relied on well-validated instruments^{43–45}.

Moral beliefs and motivation. Four constructs: generosity⁴⁶, morality as cooperation⁴⁷, moral identity⁴⁸, and moral circle⁴⁹.

Personality traits. Six constructs: open-mindedness⁵⁰, self-esteem⁵¹, trait optimism⁵², trait self-control⁵³, narcissism⁵⁴, and cognitive reflection⁵⁵.

Demographics. Six questions: age, number of children, employment status, marital status, gender, and urbanicity.

Metadata and attention check. An attention check was used to mitigate negative impact on data quality from potential non-human responses and the likelihood of biasing data and subsequent analysis of low base-rate outcomes—such as endorsement of COVID-19 conspiracies. We collected typical questionnaire metadata (e.g., start, record, and end dates, duration, and language). In addition, we created an internal participant ID, added ISO2 and ISO3 country codes, and sample representativeness.

Country	Marital Status				Number of Children						
	Single	Relation	Married	Unreported (MS)	0	1	2	3	4	≥4	Unreported (Child.)
Argentina	0.29	0.27	0.44	0.00	0.37	0.16	0.26	0.14	0.05	0.02	0.00
Australia	0.37	0.15	0.48	0.00	0.44	0.15	0.24	0.10	0.04	0.02	0.00
Austria	0.20	0.24	0.43	0.13	0.32	0.17	0.23	0.11	0.03	0.01	0.13
Bangladesh	0.33	0.04	0.31	0.32	0.36	0.07	0.10	0.03	0.00	0.01	0.43
Belgium	0.37	0.26	0.36	0.00	0.57	0.12	0.19	0.08	0.03	0.01	0.00
Bolivia	0.38	0.10	0.52	0.00	0.41	0.14	0.28	0.10	0.07	0.00	0.00
Brazil_1	0.40	0.14	0.45	0.01	0.44	0.23	0.20	0.09	0.02	0.01	0.01
Brazil_2	0.24	0.21	0.22	0.33	0.45	0.10	0.09	0.03	0.00	0.00	0.33
Brazil_3	0.17	0.33	0.50	0.00	0.67	0.33	0.00	0.00	0.00	0.00	0.00
Bulgaria	0.40	0.37	0.21	0.02	0.67	0.16	0.13	0.01	0.00	0.01	0.02
Canada_English	0.40	0.21	0.39	0.00	0.57	0.15	0.16	0.08	0.03	0.01	0.00
Canada_French	0.49	0.22	0.29	0.00	0.58	0.16	0.17	0.06	0.02	0.01	0.00
Chile	0.38	0.18	0.44	0.00	0.32	0.12	0.27	0.20	0.07	0.02	0.00
China	0.11	0.05	0.84	0.00	0.20	0.74	0.06	0.00	0.00	0.00	0.00
Colombia_1	0.40	0.29	0.30	0.01	0.55	0.16	0.18	0.07	0.02	0.01	0.02
Colombia_2	0.32	0.21	0.47	0.00	0.39	0.16	0.27	0.12	0.03	0.02	0.00
Costa Rica	0.44	0.12	0.44	0.00	0.56	0.08	0.04	0.12	0.16	0.04	0.00
Croatia	0.21	0.14	0.61	0.04	0.34	0.17	0.34	0.10	0.02	0.02	0.01
Cuba	0.23	0.21	0.56	0.00	0.19	0.40	0.23	0.12	0.05	0.02	0.00
Denmark	0.28	0.26	0.46	0.00	0.39	0.16	0.31	0.09	0.02	0.02	0.00
Dominican Republic	0.44	0.25	0.31	0.00	0.50	0.28	0.14	0.08	0.00	0.00	0.00
Ecuador	0.36	0.16	0.48	0.00	0.43	0.18	0.26	0.09	0.03	0.03	0.00
El Salvador	0.39	0.11	0.50	0.00	0.36	0.25	0.21	0.14	0.00	0.04	0.00
Finland	0.37	0.34	0.27	0.02	0.63	0.11	0.15	0.05	0.02	0.03	0.02
France	0.35	0.30	0.35	0.00	0.58	0.20	0.15	0.05	0.01	0.01	0.00
Germany	0.38	0.19	0.43	0.00	0.48	0.19	0.23	0.08	0.01	0.01	0.00
Ghana	0.36	0.11	0.32	0.21	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Greece	0.45	0.38	0.16	0.00	0.86	0.07	0.06	0.01	0.00	0.00	0.00
Guatemala	0.29	0.25	0.46	0.00	0.40	0.17	0.25	0.10	0.06	0.02	0.00
Honduras	0.38	0.17	0.46	0.00	0.58	0.12	0.00	0.04	0.17	0.08	0.00
Hungary	0.30	0.27	0.43	0.00	0.39	0.25	0.26	0.08	0.01	0.01	0.00

Table 7. Distribution of marital status and number of children in 69 countries (A-H). *Note:* Country = country names in accordance with ISO3 codes, Columns 2-5 shows the proportion of different marital status, NA(MS) = unreported marital status, Columns 6-12 shows proportion of respondents by the number of children they have and NA(Child.) = proportion of unreported number of children.

Translation. The survey instrument was drafted in English and translated into other languages using the standard forward-backward method (i.e., members of national teams were advised to split members into forward-translating the survey into the local language and back-translating it into English, and then have the two groups discuss and resolve discrepancies). In total, the survey instrument was translated into 32 languages, including adaptations of region-specific dialects or vernaculars. Specifically, from English into Arabic, Bengali, Bulgarian, Croatian, Danish, Dutch, Finnish, French, German, Greek, Hebrew, Hungary, Italian, Japanese, Korean, Kurdish, Latvian, Macedonian, Mandarin simplified, Mandarin traditional, Nepali, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish, and Ukrainian (see osf.io/tfsza at sub-folder *Translations*).

Data cleaning. We received individual data files from each national team. To merge these raw data, minor modifications were introduced, which we delineate in this section. First, we renamed columns to match across data sets, reordered variables alphabetically, and standardised variable labels. Furthermore, all missing values and values denoting the absence of a response were converted to NAs (not available). When ambiguous date formats were found (e.g., on start date, end date, and record date), we manually specified the correct format and standardised them. At the second stage, we introduced multiple modifications to clean the data for research. Some modifications were introduced to every national data set, while others were introduced to specific national data sets

Country	Marital Status				Number of Children						
	Single	Relation	Married	Unreported (MS)	0	1	2	3	4	≥4	Unreported (Child.)
India_1	0.55	0.14	0.13	0.18	0.69	0.03	0.07	0.00	0.00	0.00	0.20
India_2	0.29	0.07	0.55	0.10	0.20	0.29	0.18	0.01	0.00	0.00	0.31
Iraq	0.26	0.04	0.20	0.50	0.30	0.03	0.05	0.04	0.03	0.03	0.52
Ireland	0.32	0.28	0.34	0.05	0.52	0.10	0.17	0.09	0.05	0.02	0.06
Israel	0.24	0.11	0.55	0.09	0.38	0.12	0.20	0.18	0.06	0.05	0.00
Italy_1	0.26	0.25	0.49	0.00	0.44	0.25	0.25	0.05	0.01	0.00	0.00
Italy_2	0.23	0.30	0.46	0.00	0.49	0.20	0.25	0.06	0.00	0.00	0.00
Japan	0.35	0.05	0.54	0.06	0.46	0.14	0.23	0.08	0.02	0.00	0.07
Korea	0.35	0.07	0.49	0.10	0.44	0.16	0.25	0.03	0.01	0.00	0.10
Latvia	0.34	0.25	0.42	0.00	0.00	0.32	0.19	0.31	0.12	0.05	0.00
Macedonia	0.30	0.19	0.48	0.03	0.50	0.17	0.26	0.04	0.00	0.00	0.04
Mexico_1	0.26	0.18	0.49	0.07	0.34	0.13	0.25	0.14	0.04	0.03	0.07
Mexico_2	0.31	0.19	0.50	0.00	0.29	0.18	0.32	0.15	0.04	0.02	0.00
Morocco	0.57	0.09	0.33	0.01	0.70	0.09	0.10	0.06	0.01	0.01	0.02
Nepal	0.36	0.05	0.21	0.37	0.46	0.08	0.06	0.01	0.00	0.00	0.39
Netherlands	0.29	0.27	0.43	0.00	0.41	0.12	0.29	0.13	0.03	0.02	0.00
New Zealand	0.39	0.20	0.41	0.00	0.41	0.16	0.21	0.13	0.06	0.04	0.00
Nicaragua	0.19	0.25	0.56	0.00	0.25	0.12	0.25	0.19	0.12	0.06	0.00
Nigeria	0.42	0.11	0.34	0.13	0.51	0.10	0.12	0.08	0.03	0.02	0.13
Norway	0.32	0.26	0.42	0.00	0.41	0.15	0.24	0.16	0.03	0.01	0.00
Pakistan	0.51	0.10	0.24	0.14	0.66	0.07	0.07	0.02	0.01	0.01	0.15
Panama	0.33	0.17	0.50	0.00	0.44	0.11	0.28	0.11	0.00	0.06	0.00
Paraguay	0.56	0.31	0.12	0.00	0.44	0.06	0.31	0.06	0.12	0.00	0.00
Peru	0.40	0.14	0.46	0.00	0.35	0.20	0.29	0.13	0.01	0.02	0.00
Philippines	0.44	0.15	0.38	0.03	0.46	0.21	0.17	0.09	0.02	0.02	0.03
Poland	0.29	0.21	0.50	0.00	0.33	0.22	0.31	0.10	0.03	0.01	0.00
Puerto Rico	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00
Romania_1	0.32	0.13	0.55	0.00	0.65	0.22	0.11	0.01	0.00	0.00	0.00
Romania_2	0.27	0.19	0.54	0.00	0.40	0.32	0.22	0.04	0.01	0.01	0.00
Russian Federation	0.41	0.15	0.44	0.00	0.39	0.28	0.26	0.05	0.01	0.01	0.00

Table 8. Distribution of marital status and number of children in 69 countries (I-R). *Note:* Country = country names in accordance with ISO3 codes, Columns 2-5 shows the proportion of different marital status, NA(MS) = unreported marital status, Columns 6-12 shows proportion of respondents by the number of children they have and NA(Child.) = proportion of unreported number of children.

(both of which are thoroughly reported in the Data Records section). To each national data set, we recoded the attention check (attcheck) into pass (1) or fail (0); standardised generosity items (generosity1–3), recoded CRT items into intuitive (2), correct (1), and incorrect (0); converted the number of children (children) into a variable with a fixed range from zero to ten or more; recoded all participants declaring being older than 100 years old as 100; and we excluded all duplicates (i.e., in case multiple participants were recorded with identical inputs within a national database, only the first input was retained).

Data Records

All materials associated with the ICSMP COVID-19 project can be found on the project's repository (comprising five folders) hosted by the Open Science Framework (OSF, <https://doi.org/10.17605/osf.io/tfsza>)^{56,57}. The folder named *Code* includes an R Markdown document (ICSMP official data.Rmd; [osf.io/dwpng](https://doi.org/10.17605/osf.io/dwpng)) that loads multiple data files (from each national team), cleans them up, merges them into a single data file, generates a data-driven code-book, and saves all outputs. It also includes a reproducible report with all reported numbers, analyses and graphs in this article (Analyses-SciData.html; [osf.io/s5c4p](https://doi.org/10.17605/osf.io/s5c4p); Analyses SciData.Rmd; [osf.io/9suyb](https://doi.org/10.17605/osf.io/9suyb)). The folder named *Data* includes three sub-folders. The *Raw data* sub-folder contains the original and unmodified data files from each national team (country data files.zip; [osf.io/dqmut](https://doi.org/10.17605/osf.io/dqmut)). The sub-folder named *Cleaned data* contains the merged and cleaned dataset, which is provided in a non-proprietary (ICSMP_cleaned_data.csv; [osf.io/ypkrc](https://doi.org/10.17605/osf.io/ypkrc)) and a labelled (ICSMP_cleaned_data.sav; at [osf.io/8tyj9](https://doi.org/10.17605/osf.io/8tyj9)) file formats. In addition, we included in a sub-folder a dataset that removes observations failing the attention check or filled out less than 50% of the items, both in a non-proprietary (ICSMP_cleaned_data_nobots.csv; [osf.io/98fex](https://doi.org/10.17605/osf.io/98fex)) and a labelled (ICSMP_cleaned_data_nobots.sav; at [osf.io/3yjga](https://doi.org/10.17605/osf.io/3yjga)) file formats. The *Metadata* sub-folder provides a thorough itemised description

Country	Marital Status				Number of Children						
	Single	Relation	Married	Unreported (MS)	0	1	2	3	4	≥4	Unreported (Child.)
Senegal	0.48	0.08	0.44	0.00	0.50	0.13	0.11	0.12	0.06	0.07	0.01
Serbia	0.19	0.15	0.38	0.28	0.28	0.16	0.21	0.05	0.01	0.01	0.29
Singapore	0.31	0.08	0.53	0.07	0.44	0.18	0.21	0.08	0.01	0.01	0.07
Slovakia	0.28	0.25	0.47	0.00	0.37	0.18	0.31	0.11	0.03	0.01	0.00
South Africa	0.23	0.16	0.30	0.32	0.32	0.11	0.16	0.07	0.01	0.01	0.32
Spain	0.24	0.27	0.49	0.00	0.49	0.17	0.27	0.06	0.01	0.00	0.00
Sweden	0.27	0.27	0.46	0.00	0.29	0.14	0.33	0.16	0.05	0.03	0.00
Switzerland	0.31	0.28	0.41	0.00	0.46	0.19	0.25	0.08	0.03	0.01	0.00
Taiwan	0.35	0.11	0.54	0.00	0.46	0.16	0.27	0.09	0.02	0.00	0.00
Turkey	0.37	0.06	0.57	0.00	0.42	0.12	0.26	0.11	0.03	0.05	0.00
Ukraine	0.19	0.12	0.62	0.07	0.33	0.39	0.24	0.03	0.01	0.00	0.00
United Arab Emirates	0.26	0.15	0.20	0.40	0.40	0.08	0.07	0.04	0.00	0.01	0.40
United Kingdom	0.33	0.24	0.42	0.00	0.50	0.15	0.24	0.07	0.03	0.01	0.00
United States of America	0.41	0.11	0.48	0.00	0.47	0.18	0.23	0.08	0.02	0.02	0.00
Uruguay	0.29	0.14	0.57	0.00	0.27	0.22	0.37	0.08	0.06	0.00	0.00
Venezuela	0.28	0.23	0.49	0.00	0.31	0.19	0.30	0.15	0.05	0.00	0.00

Table 9. Distribution of marital status and number of children in 69 countries (S-V). *Note:* Country = country names in accordance with ISO3 codes, Columns 2-5 shows the proportion of different marital status, NA(MS) = unreported marital status, Columns 6-12 shows proportion of respondents by the number of children they have and NA(Child.) = proportion of unreported number of children.

of the data cleaning process in both text (Data Cleaning.docx; osf.io/7udpt) and human-readable change-log (human-readable change log ICSMP.xlsx; osf.io/fydx2).

We also provide a data-driven codebook detailing how each measure was collected—e.g., listing variable names, variable labels, and label values (dt.codebook.xlsx; osf.io/ecva2). The IRB folder contains both the Internal Review Board Ethics application (ICSMP Kent Ethics application full.pdf; osf.io/xt9gr) and Ethics approval (ICSMP Kent Ethics approval.pdf; osf.io/ce638). The folder *Sample Type & Representativeness* includes the documentation for an internal survey conducted with national team leaders about the employed survey methodology for the data provided (Sample Type & Representativeness.zip; osf.io/fj5xn). The folder *Survey Instrument* contains the initial English version of our survey instrument along with its Qualtrics.qsf for reproducibility (Survey Instrument.zip; osf.io/nf48q). In the sub-folder *Translations*, we archived all 32 translated survey instruments along with a report on the languages of conducted surveys per country (i.e., several countries had their surveys in multiple languages per country; Country and language.xlsx; osf.io/wj7d2).

Potential for future research. The data contains four measures of COVID-19 beliefs and compliance, 17 social and moral psychological constructs, and six sociodemographic characteristics, amounting to 27 socially-relevant variables. To quantify the potential of this dataset—and assuming a typical research paper uses between three to five key main constructs plus sociodemographics and controls—we calculated the number of combinations of 17 constructs, taken three, four, and five at a time, yielding a grand total of 9248 possible unique designs. As a demonstration of the broad scope of the ICSMP data, published studies cover a broad range of psychological disciplines, including social psychology^{13,14}, cognitive psychology^{15,17}, political psychology¹⁶, moral psychology^{16,18}, economic psychology¹⁹ and health sciences²⁰, among others. They explore different populations in reference to the COVID-19 pandemic in terms of age (e.g., older adults see²¹, marital status¹⁹ or nationality (e.g., for a study on the Spanish population, see²² for Swedish and Chinese population see²³), and other socio-demographic characteristics. These all attest to the great potential of the ICSMP data to inspire further research. In sum, the present dataset affords numerous opportunities for cross-cultural research on a plethora of hypotheses. We encourage researchers who consider reusing ICSMP data to examine the list of pre-registrations before beginning a new project so as to avoid duplication (see icsmp-covid19.netlify.app/preregistration).

Data visualisation interface. In addition to the raw data, a dedicated Web application was developed to provide a general overview of the dataset (icsmp.shinyapps.io/icsmp_covid19). The application is based on an R shiny server (rstudio.com/products/shiny), together with the *leaflet*⁵⁸ and *ggplot2*⁵⁹ graphical libraries to generate dynamic plots. All the generated figures can be exported as .png files, and all tables can be exported as .csv files. The Web application allows easy and dynamic generation of illustrations like the figures with maps for each construct with zoomable world maps and static figures and plots for sample and country characteristics. In addition, all tables are embedded with dynamic features for sorting and filtering. To make it more accessible





SUPERORDINATE CONSTRUCT	CONSTRUCT	ITEMS
Covid-19 beliefs and compliance 	Public health support	Spatial distancing During the days of the coronavirus (Covid-19) pandemic... - I have been staying at home as much as practically possible. - Visiting friends, family or colleagues outside my home. - Keeping the number of grocery store visits at an absolute minimum. - Keeping physical distance from all other people outside my home. - Avoiding handshaking with people outside my home. Physical hygiene During the days of the coronavirus (Covid-19) pandemic... - I have been washing my hands longer than usual. - Washing my hands (with soap) more thoroughly than usual. - Washing my hands immediately after returning home. - Disinfecting frequently used objects, such as mobile phones and keys. - Sneezing and coughing into my upper sleeve. Policy support During the days of the coronavirus (Covid-19) pandemic... - In favor of closing all schools and universities. - In favor of closing all bars and restaurants. - In favor of closing all parks. - In favor of forbidding all public gatherings where many people are gathered at one place (sports and culture). - In favor of forbidding all non-necessary travel.
	COVID-19 risk perception	- By April 30, 2021: How likely do you think it is that you will get infected by the Coronavirus (Covid-19)? - By April 30, 2021: How likely do you think it is that the average person in [INSERT COUNTRY] will get infected by the Coronavirus (Covid-19)?
	COVID-19 conspiracy beliefs	- The coronavirus (Covid-19) is a bioweapon engineered by scientists. - The coronavirus (Covid-19) is a conspiracy to take away citizens rights for good and establish an authoritarian government. - The coronavirus (Covid-19) is a hoax invented by interest groups for financial gains. - The coronavirus (Covid-19) was created as a cover up for the impending global economic crash.
	COVID-19 test	- Have you tested positive for the Coronavirus (Covid-19), meaning that you (now or earlier) have had a medically confirmed case of this disease? - Has anyone you know well (friend, partner, family, colleague etc.) tested positive for the Coronavirus (Covid-19)?
Identity and social attitudes 	National identification	I identify as (nationality). Being a (nationality) is an important reflection of who I am.
	National narcissism	(My national group) deserves special treatment. Not many people seem to fully understand the importance of (my national group). Not many people seem to fully understand the importance of (my national group).
	Social belonging	- I feel connected with others. - When I am with other people, I feel included. - I feel accepted by others. - I have close bonds with family and friends.
Ideology 	Political ideology	Overall, how would you best describe yourself in terms of political ideology?
Health and well-being 	Subjective physical health	In general, how would you rate your physical health as it is today?
	Wealth ladder	Where would you place yourself on this ladder to represent where you think you stand at this time in your life, compared to other people in (country)?
	Psychological well-being	- In general, to what extent do you feel happy these days? - Please imagine a ladder, with steps numbered 0 at the bottom and 10 at the top. The top represents the best possible life for you, and the bottom represents the worst possible life for you. On which step of the ladder would you say you personally feel you stand at this time?

Fig. 4 International Collaboration on the Social and Moral Psychology of COVID-19: Investigated constructs, items and variables.

for the readers, both tables and figures are downloadable. The Shiny app has two tabs giving general information about the project and the international consortium. The first tab contains sample descriptions such as sample size, missing data, and attention checks for each country with a Gantt chart showing the dates of data collection. The second tab displays world maps of spatial distancing, policy support, national identity, conspiracy beliefs, national narcissism and morality as cooperation as well as all tables reported in dynamic formats.

Technical Validation

To support the technical quality of the dataset, we conducted an analysis to showcase its reliability (and its diverse applicability to research questions in social sciences and beyond). For completeness, in the analyses that follow, we examined all samples-including those with very few observations, such as Puerto Rico (N = 2), Brazil_3 (N = 6), and Panama (N = 12).

We evaluated the adopted survey methodology utilised by national teams by conducting an internal survey to ensure the accuracy of reported sample types. The inspection showed that 28 samples were quota-based nationally representative samples (36%), 6 used *post hoc* weights to achieve an approximate level of national representation (8%) which nonetheless should be seen as convenience samples, and 43 were convenience samples

 <p>Moral beliefs and Motivation</p>	Generosity	Proportion of the daily wage in [country] you would keep for yourself / give to a national charity / give to an international charity.
	Morality as cooperation	<p>When you decide whether something is right or wrong, to what extent are the following considerations relevant to your thinking?</p> <ul style="list-style-type: none"> - Whether or not someone helped a member of their family. - Whether or not someone worked to unite a community. - Whether or not someone kept their promise. - Whether or not someone showed courage in the face of adversity. - Whether or not someone deferred to those in authority. - Whether or not someone kept the best part for themselves. - Whether or not someone kept something that didn't belong to them.
	Moral identity	<ul style="list-style-type: none"> - It would make me feel good to be a person who has these characteristics. - Being someone who has these characteristics is an important part of who I am. - I often wear clothes that identify me as having these characteristics. - I would be ashamed to be a person who had these characteristics. - The types of things I do in my spare time (e.g. hobbies) clearly identify me as having these characteristics. - The kinds of books and magazines that I read identify me as having these characteristics. - Having these characteristics is not really important to me. - The fact that I have these characteristics is communicated to others by my membership in certain organizations. - I am actively involved in activities that communicate to others that I have these characteristics. - I strongly desire to have these characteristics.
	Moral circle	<p>Please select the number that represents the extent of your moral circle. Note that, in this scale, the number you select includes all the numbers below it as well. So, for example, if you select 10 (all mammals) you are also including number 1-9 (up to all people on all continents) in your moral circle.</p>
 <p>Personality traits</p>	Open mindedness	<ul style="list-style-type: none"> - I think that paying attention to people who disagree with me is a waste of time. - I feel no shame learning from someone who knows more than me. - If I do not know much about some topic, I don't mind being taught about it, even if I know about other topics. - Even when I have high status, I don't mind learning from others who have lower status. - Only winners admit that they've made mistakes. - I don't take people seriously if they're very different from me.
	Self-esteem	I have high self-esteem.
	Trait optimism	<ul style="list-style-type: none"> - As a person, I am optimistic for my future. - Overall, I expect more good things to happen to me than bad.
	Trait self-control	<ul style="list-style-type: none"> - I am good at resisting temptation. - I am able to work effectively toward long-term goals. - I have a hard time breaking bad habits. - I am lazy.
	Narcissism	<ul style="list-style-type: none"> - I react annoyed if another person steals the show from me. - I deserve to be seen as a great personality. - I want my rivals to fail. - Being a very special person gives me a lot of strength. - I manage to be the center of attention with my outstanding contributions. - Most people are somehow losers.
Cognitive reflection test	<ul style="list-style-type: none"> - A postcard and a pen cost 150 cents in total. The postcard costs 100 cents more than the pen. How many cents does the pen cost? - If it takes 3 nurses 3 minutes to measure the blood pressure of 3 patients, how long would it take 300 nurses to measure the blood pressure of 300 patients? - Sally is making some tea. Every hour, the concentration of the tea doubles. If it takes 8 hours for the tea to be ready, how many hours would it take for the tea to reach half of the final concentration? 	
 <p>Demographics</p>	Demographics	<ul style="list-style-type: none"> - How old are you? - How many children do you have? If none, please type 0. - How would you describe your current employment status? - What is your current marital status? - What is your gender? - Which of the following best describes the area you live in?
 <p>Metadata and attention check</p>	Attention check	Help us get rid of bots: Please write the number 213 into the comment box.
	Survey measures	<ul style="list-style-type: none"> - Country code. - Response date. - Response duration. - Language. - Subject identifier number.

Fig. 5 International Collaboration on the Social and Moral Psychology of COVID-19: Investigated constructs, items and variables.

(56%), many of which were from low and middle-income countries⁶⁰. We codified the results of this survey into the cleaned data as the variable ‘sample_coding’ and present a summary in Table 10. National representativeness for the 28 quota-based samples relate to an approximation of the demographic characteristics of age and gender only for each country.

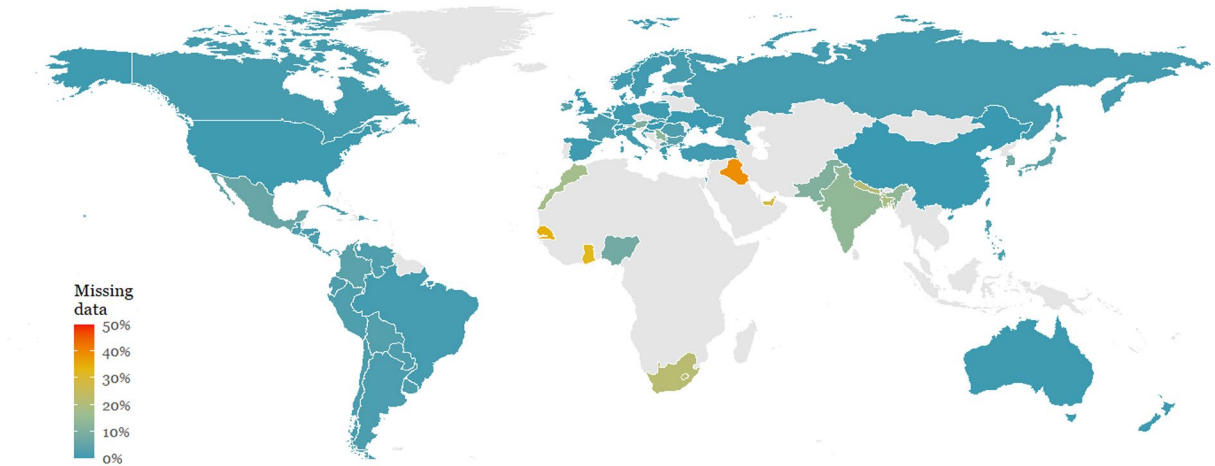
Regarding individual-level data quality, Fig. 6 shows a world map of the 69 countries from which data were collected, coloured according to overall percentages of missing data (overall mean = 6.0%). Overall, 95.6% of participants had less than 50% missing data, 92.8% participants had less than 10% missing data, and 24.7% of participants had 0% missing data. Another indicator of data quality is the rate of attention check fails per country. On the last screen of the survey, participants were given the following instructions: “Help us get rid of bots: Please write the number 213 into the comment box.” Participants who wrote “213” were coded as passing the attention check, participants who wrote anything else were coded as failing the attention check, and those who did not reach this screen of the survey were coded as missing data. Figure 6 also shows (bottom plot) a world map coloured according to the rate of attention-check fails across countries. Overall, 90.1% of participants passed the attention check (1.0% failed), and 8.0% did not reach the final screen with the attention check.

The full dataset presents $N = 51,404$ cases across 69 countries (from 77 samples, 28 of which are quota-based nationally representative), with an average sample size of 745 ($SD = 549$) and a proportion of valid answers of 95%. The mean age of respondents was 42.93 ($SD = 16.04$) years, and 50.9% were women (44% males, 0.3%

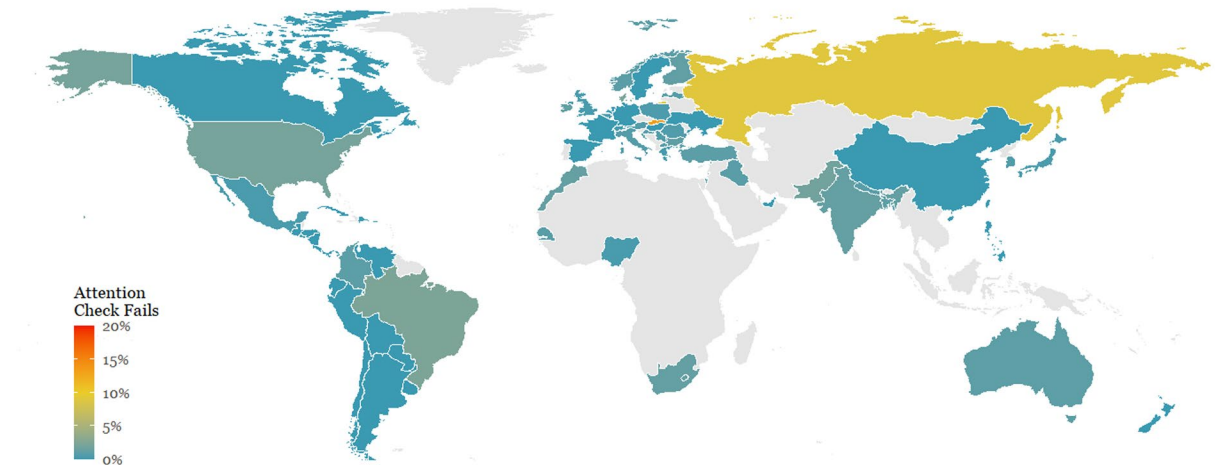
Sample Coding	Samples (Countries)	N Samples	N Respondents	% Countries	% Respondents
Continued on next page Quota-based nationally representative	AU, BR_1, CA_e, CA_f, CH, CN, DE, FR, HR, HU, IL, IT_1, JP, KR, LV, NG, NO, NZ, PH, PL, RO_1, RU, SG, SK, TR, TW, GB, US	28	26173	0.36	0.51
Post-hoc weights	AT, DK, ES, NL, SE, UA	6	6703	0.08	0.13
Convenience	AE, BD, BE, BG, BR_2, BR_3, CO_1, FI, GH, GR, IE, IN_1, IN_2, IT_2, IQ, CO_2, AR, CL, MX_2, PE, VE, CR, PY, BR_3, EC, GT, UY, BO, SV, PA, HN, CU, NI, DO, PR, MA, MK, MX_1, MX_2, NP, PK, RO_2, RS, SN, ZA	43	18528	0.56	0.36
Total		77	51404	1.00	1.00

Table 10. Overview of the samples.

Overall percentages of missing data by country



Rate of attention-check fails across countries



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Fig. 6 Data quality indicators for each surveyed country. **Note:** The percentage of missing data considered all the questions in the survey (i.e., all sociodemographics and psychological scales”). We calculated, for each country, the mean of the participants’ proportion of missing data across all survey questions, including sociodemographics (this information is also provided in our reproducible report of Fig. 6, where the R code is provided).

Cross-cultural differences in Social & Moral Psychology of COVID-19

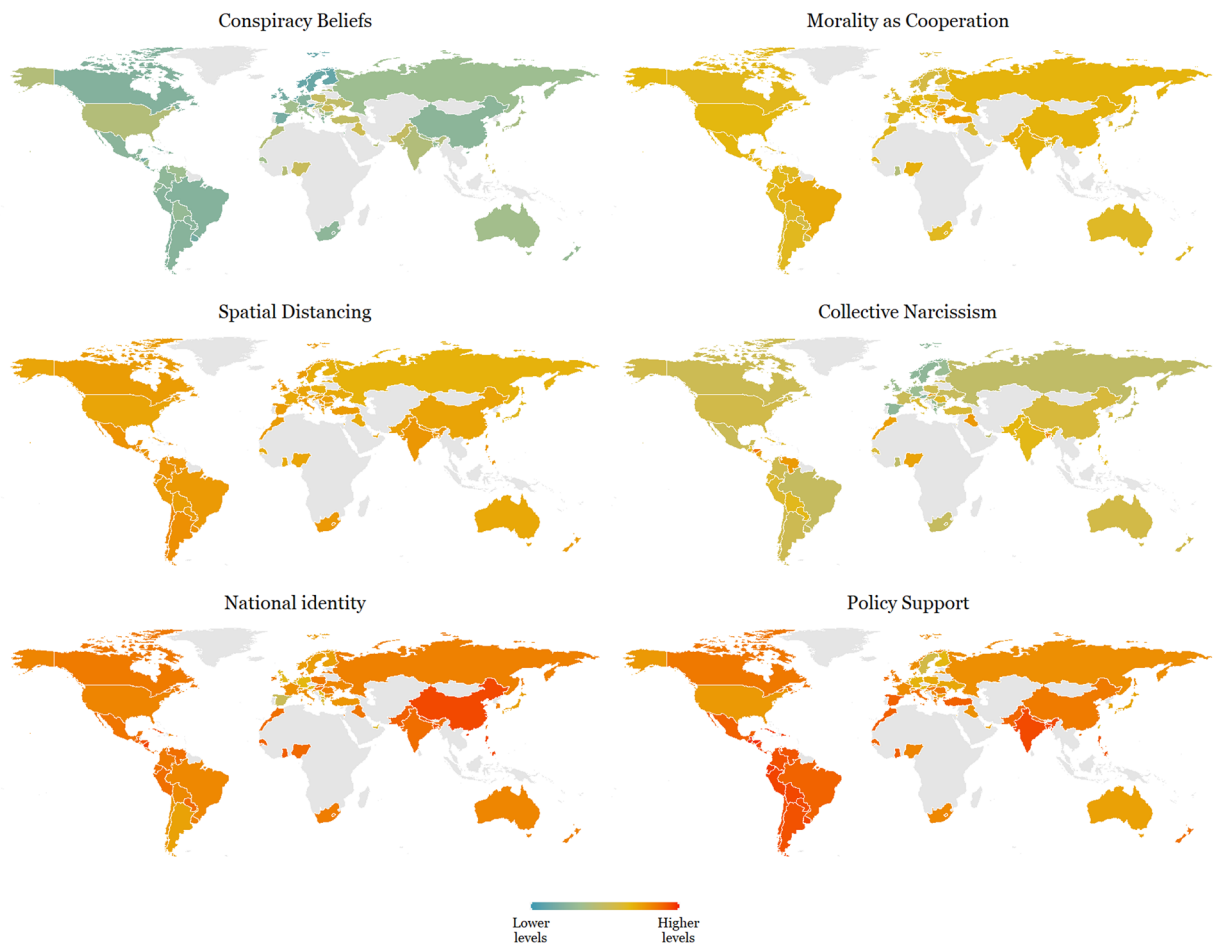


Fig. 7 Cross-cultural differences in Social & Moral Psychology of COVID-19 across 69 countries. **Note:** Each world heat map in the figure shows the means score, at the country level, for constructs in the survey. Conspiracy Beliefs - participant's beliefs in conspiracy theories regarding COVID-19; Morality as Cooperation - participant's moral concern based on the morality-as-cooperation theory; Spatial Distancing - participant's support for spatial distancing as a strategy against COVID-19; Collective Narcissism - participant's narcissism, i.e., an inflated view regarding their ingroup (in this research we focused on nationality); National Identity - participant's identity attached to belonging to a nation; Policy Support - participant's support to public policies (e.g., closing parks or schools) as a strategy against COVID-19.

others, and 4.8% unreported). The employment status breakdown shows 44.8% employed full-time, 10.6% part-time, 8.1% unemployed, 10% students, 10.1% retired, 11% other, and 5.3% unreported. The overall marital status shows 33% of respondents were single, 18.7% in a relationship, 42.7% married, and 5.5% unreported. The majority of our participants reported having no children (41.6%), with 16.7% having one child, 20.1%, 9.2%, and 3.9% with two, three and four children, respectively, and 1.7% had five or more children (6.9% unreported). We break down these aggregated results per country. Tables 1, 2 show the number of cases and valid answers, Table 3, 4 summarises the distribution of sex, Tables 5, 6 display employment status, and Tables 7–9 illustrate both marital statuses and the number of children.

We also examined cross-cultural differences in conspiracy beliefs, morality as cooperation, spatial distancing, national narcissism, national identification, and policy support for preventative measures across 69 countries in Fig. 7. Additionally, we showcase patterns of associations between these moral and psychological constructs across gender, ideology and age in Figs. 8, 9. For the association pattern analysis, we excluded samples with less than 490 respondents as recommended for stable correlations⁶¹, as well as for the subsequent consistency measure analysis.

To examine internal consistency for the main scales, we calculated Cronbach's Alpha, Omega, Guttman split-half reliability, and proportion of variance explained by a unidimensional factor. This table is available at osf.io/ed7yg and shows indices of internal consistency by country for measures of conspiracy beliefs, morality as cooperation, spatial distancing, national narcissism, national identification, and policy support for preventative



Fig. 8 Cross-cultural differences in associations of Social & Moral Psychology of COVID-19 across sex and ideology in 69 countries.

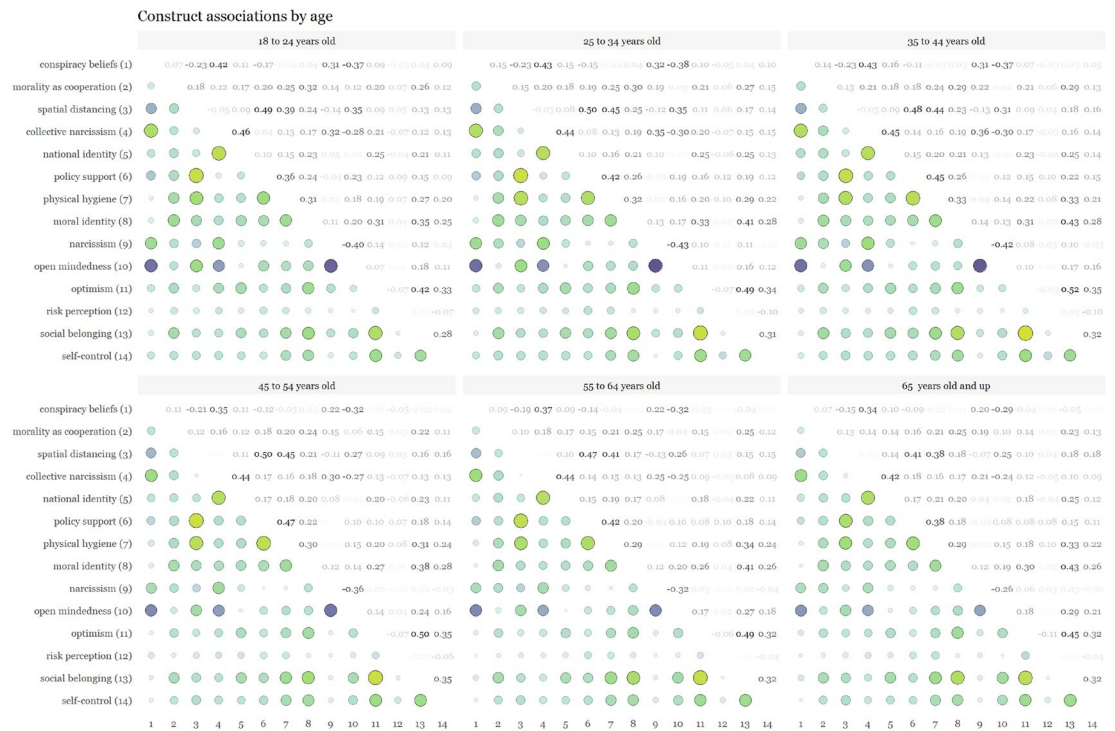


Fig. 9 Cross-cultural differences in associations of Social & Moral Psychology of COVID-19 across age in 69 countries.

Policy support

Heat map showing consistency measures for each country

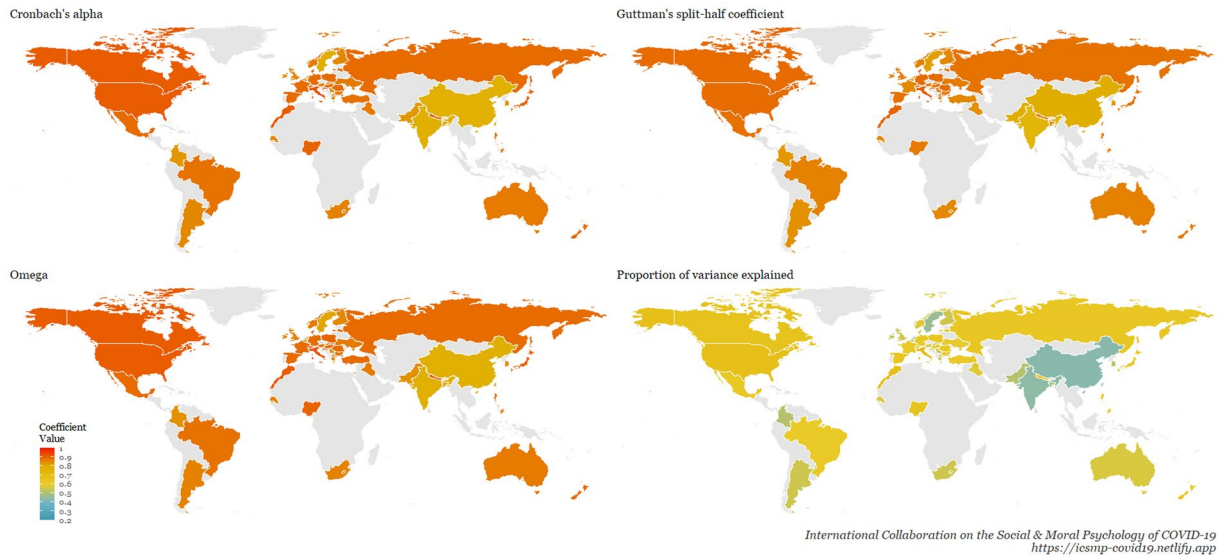


Fig. 10 Support for policies in 69 countries.

Collective narcissism

Heat map showing consistency measures for each country

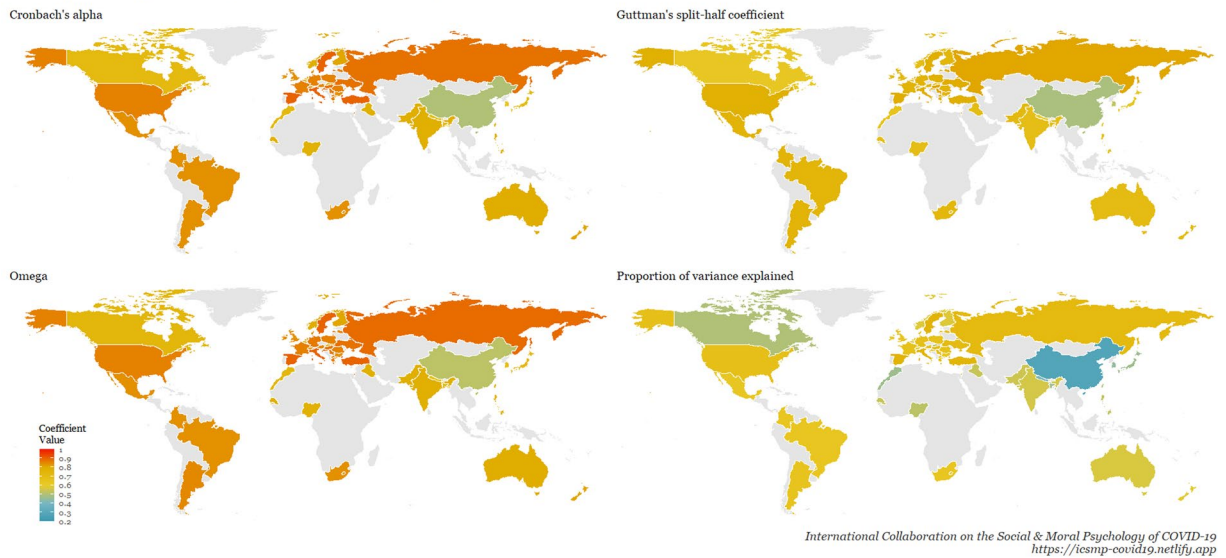


Fig. 11 Collective narcissism in 69 countries.

measures, respectively. We found that the spatial distancing construct, on average, has the lowest Cronbach's alpha, followed by morality as cooperation. On average, conspiracy beliefs have the highest Cronbach's alpha, followed by policy support. These patterns hold for the Omega measures, but when considering Guttman's split-half reliability, collective narcissism and national identity yield the lowest values. Figures 9–15 show these patterns visually.

Usage Notes

The datasets are shared, cleaned, and ready for analysis. We recommend that interested researchers use the cleaned version of the data (available at <https://doi.org/10.17605/osf.io/tfsza>)⁵⁶. The use of the labelled data is also suggested for convenience as it has all variable levels encoded, thus eliminating the need to consult the codebook when using the.csv format.

Spatial distancing

Heat map showing consistency measures for each country

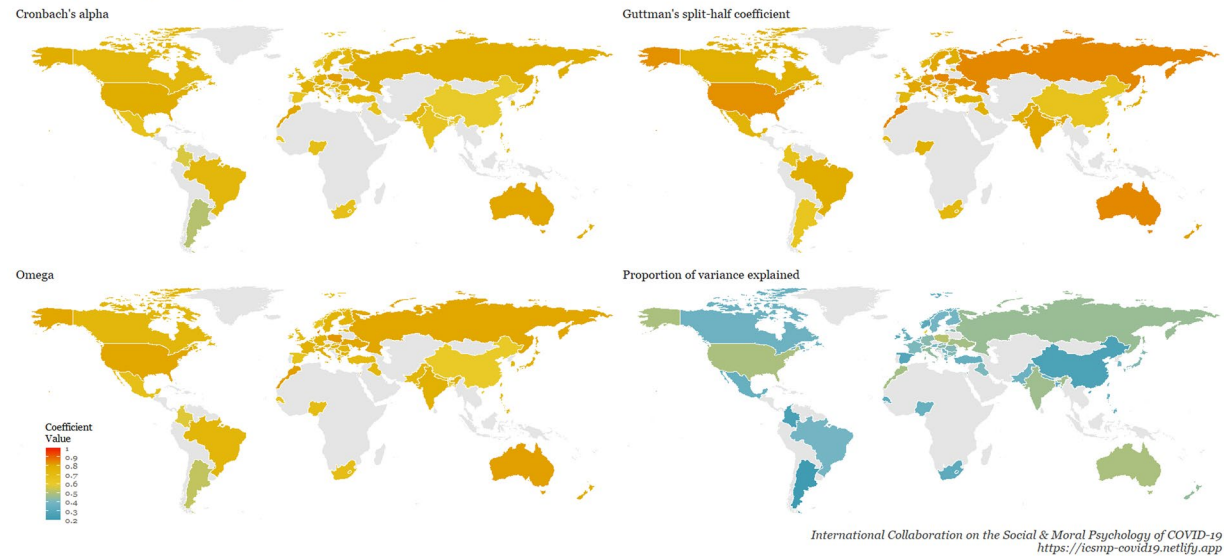


Fig. 12 Spatial distancing in 69 countries.

Morality as cooperation

Heat map showing consistency measures for each country

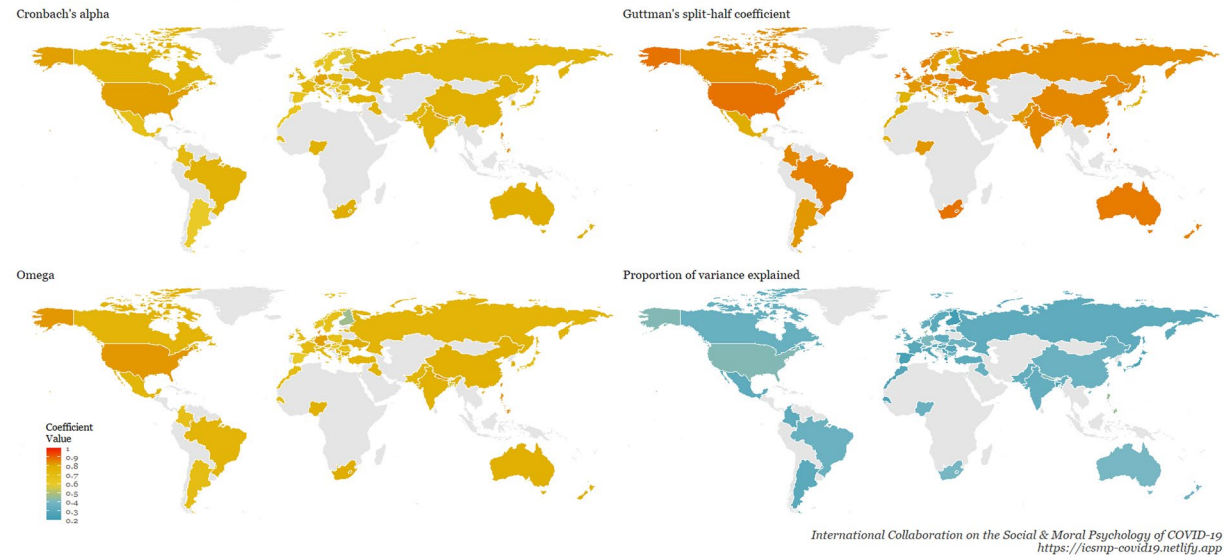


Fig. 13 Morality as cooperation in 69 countries.

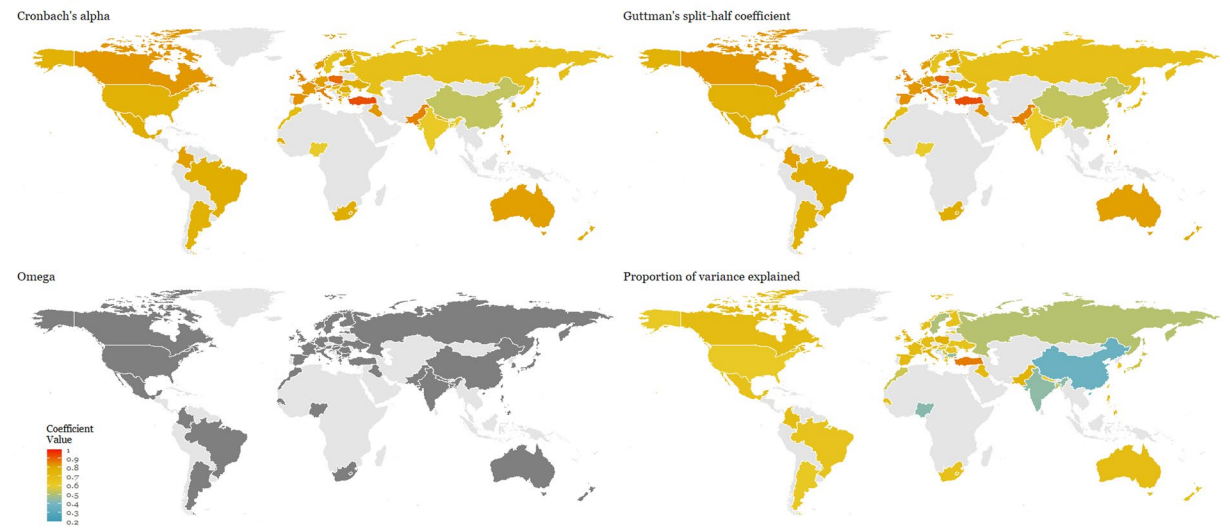
The Data were imported and cleaned using the R software for statistical analysis⁶² and packages *readr*⁶³, *haven*⁶⁴, *readxl*⁶⁵, *dplyr*⁶⁶, *psych*⁶⁷, *htmltools*⁶⁸, *mime*⁶⁹, *xfun*⁷⁰, *labelled*⁷¹, *sjlabelled*⁷², *codebook*⁷³, *lubridate*⁷⁴.

As previously noted⁵, those wishing to approximate national representativeness can apply the appropriate survey weights to demographic and countries of interest when random sampling is used (e.g., sex: <https://ourworldindata.org/gender-ratio>; age: <http://data.un.org/Data.aspx?d=POP&f=tableCode%3A22>; education: <https://ourworldindata.org/global-education>; marital status: <https://ourworldindata.org/marriages-and-divorces>).

To minimize misclassification of text-based responses to the cognitive reflection test (CRT) and the attention check, we used multiple steps of data cleaning using REGEX (regular expressions) as fully detailed in (ICSMP official data.Rmd; osf.io/dwpng) located in the folder named *Code*. First, we coded the predefined numerical and

National identity

Heat map showing consistency measures for each country



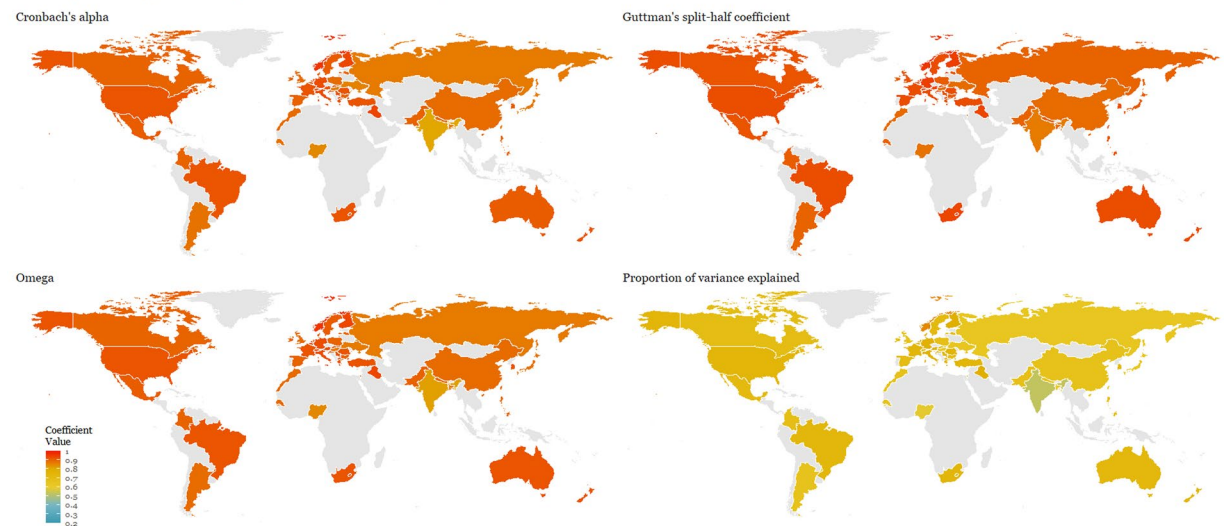
Note: National Identity refers to the participant's identity attached to belonging to a nation.

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Fig. 14 National identity in 69 countries.

Conspiracy beliefs

Heat map showing consistency measures for each country



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Fig. 15 Cross-cultural differences in Internal Consistency Coefficients (Cronbach's alpha, McDonald's Omega, Guttman Split-Half), and variance explained of Social & Moral Psychology Constructs in 69 countries.

Note: internal consistency typically refers to correlations between different items on the same test to evaluate the extent to which latent indicators comprising the scale measure the same construct.

text values as correct (in the case of CRT, also the values predefined as intuitive). Then, iteratively, we screened the remaining responses and, using REGEX, updated answers. Remaining responses were recoded as incorrect.

Code availability

All raw and cleaned data—as well as the R-code—used for standardising national-teams data, merging, and cleaning them are available at <https://doi.org/10.17605/osf.io/tfsza>⁵⁶.

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