scientific data



DATA DESCRIPTOR

OPEN Dataset on social and psychological effects of COVID-19 pandemic in **Turkey**

Emre Sari n¹™, Gamze Kağan², Buse Şencan Karakuş³ & Özgür Özdemir⁴

This data was gathered to investigate how individuals' levels of intolerance to distress and instant anxiety are related to some of the behaviors that people can change in response to the COVID-19 pandemic. We present a dataset based on a four-wave survey of the social and psychological effects of the COVID-19 pandemic in Turkey (N = 2.817). Turkey was heavily impacted by the first waves of infections in 2020, and citizens were forced to adapt to governmental measures. So, the dataset provides unique opportunities to investigate the COVID-19 pandemic's role in shaping people's intolerance to distress and instant anxiety. The survey considered personal cleaning behavior, bank/ credit card usage, online spending habits, individual security perception, and stockpile behavior. Furthermore, in this data, whether an individual or a household member was officially diagnosed with COVID-19 and socio-demographic indicators were determined. Hence, the resulting dataset can enable various analyses on social, psychological, perceived security, and self-rated health, influencing how individuals' levels of intolerance to distress and instant anxiety.

Background & Summary

The COVID-19 pandemic ravaged the world began in Wuhan, China, in December 2019 and reached Turkey on March 10, 2020¹. Medical research is still being conducted to determine the impact of this pandemic on humans in Turkey and around the world. This subject is receiving much attention in the social sciences (e.g., Aker and Mıdık¹; Ferreira et al.²; Garbe et al.³; Karaar and Canli⁴; Leslie et al.⁵), as well as medical research. Like Mondino et al.^{6,7} stated that understanding how people perceive multiple risks and how major crises shape individual behaviors is required for 'detecting windows of opportunity for policy change'8,9, 'improving risk management strategies^{7,10}, and 'supporting communication between decision-makers and the general public'¹¹. Researchers can use this dataset to investigate how the COVID-19 pandemic has affected people's emotions and behavior.

This paper presents a new dataset that provides unique opportunities to investigate the COVID-19 pandemic's role in shaping people's intolerance to distress and instant anxiety. We explore the public reflection of the epidemic in Turkey. A total of 2,817 people were surveyed online, and the results are compiled in this dataset. Data were collected from adults aged 18 to 65 and older, with an extensive demographic section covering location (province and rural-urban divide), income, employment status, occupation, occupational sector, family background, whether having a child, marital status, and gender identity. This data will allow researchers to investigate how the pandemic affects people differently depending on their age, economic impact, social status, and risk status. The survey remained online during those times. By timestamping, this data can be merged with other datasets: number of vaccinations, tests performed and positivity, hospital and ICU admissions, confirmed cases, confirmed deaths, policy responses, and other relevant variables. Furthermore, this data will be helpful for international comparative studies.

The epidemic has had a significant impact on the physical and mental well-being of many Turkish people. Despite the government's efforts to keep COVID-19 under control (for details, see Table 1), the social isolation caused by the outbreak has had a significant impact on people's lives. Due to the nature of the fight against COVID-19, these findings are not surprising in individuals who experience an increasing number of cases, new deaths, economic and other direct stress factors related to the pandemic¹². To put it in a medical context,

 1 UiT the Arctic University of Norway, School of Business and Economics, Tromsø, 9037, Norway. 2 Uskudar University, Department of Occupational Health and Safety, Istanbul, 34662, Turkey. ³Hacettepe University, Department of Psychology, Ankara, 06230, Turkey. ⁴Istanbul University, Faculty of Law, Istanbul, 34116, Turkey. ⊠e-mail: emre.sari@uit.no

Date	Measures implemented and significant events
Jan 10	The Coronavirus Scientific Committee (KvBK) was established within the Ministry of Health (MoH).
Jan 14	KvBK has published the first guide ³⁶ on testing and monitoring for healthcare professionals.
Jan 16	The Central Bank implemented the first economic action, and 75 basis points reduced the policy rate to 11.25%0 ³⁷ .
Jan 24	Thermal cameras were installed in all airports, and passengers arriving from China were screened 38,39
Feb 7	The MoH has published a series of videos on social media to inform the public about COVID-19 ⁴⁰⁻⁴³
Feb 19	The Central Bank lowered the policy rate by 50 basis points to 10.75% 44.
Mar 11	The first case of COVID-19 was detected ⁴⁵ .
Mar 17	The first death from COVID-19 occurred ⁴⁶ .
Mar 17	The Central Bank lowered the policy rate by 100 basis points to 9.75% ⁴⁷ .
Mar 19	All sporting events across the country have been suspended, and public gathering places have also been temporarily closed. Restaurants were obliged to put Table 1 meter apart. Places of worship were closed; cultural, scientific, or artistic meetings were canceled ⁴⁸ .
Mar 21	A partial curfew has been imposed for citizens over the age of 65 and with chronic diseases, and they are only allowed to leave their homes and walk-in open areas such as parks and gardens ⁴⁹ .
Mar 22	Flexible working arrangements have been made for those working in public institutions and organizations ⁵⁰ .
Apr 3	The Ministry of Interior (MoI) declared that all land, air, and sea entries and exits from 30 metropolitan provinces and Zonguldak province borders would be temporarily closed. He declared that citizens under the age of 20 (with exceptions) were prohibited from going out on the streets for a while, including 81 provinces. Furthermore, the Province Pandemic Boards were announced as having the authority to take the necessary additional measures ⁵¹ .
Apr 10	Interior Minister Süleyman Soylu announced the curfew in 30 provinces with metropolitan status and Zonguldak ⁵² .
Apr 17	MoI has banned all citizens from going out on the weekends for 30 provinces with metropolitan status and Zonguldak ⁵³ .
Apr 21	With a circular issued by MoI, the curfews to be implemented on 23-24-25-26 April were announced ⁵⁴ .
Apr 21	The Central Bank lowered the policy rate by another 100 basis points to 8.75% ⁵⁵ .

Table 1. Precautions and significant events from the start of the COVID-19 pandemic until the end of April 2020 in Turkey. These events occurred before the active collection of data and are critical for understanding individual mental development.

according to Koca¹³, people can readily access healthcare services in this country and obtain modern medical treatment. He notes that every patient in need of medical attention is admitted to a hospital, where they get specialized treatment, including intensive care and mechanical ventilation, if necessary.

Methods

This dataset is collected for quantitative research. In this data, we used the survey technique, which is a common quantitative research method. According to McKay (2005), survey research is the most controlled and structured method between experimental statistical research and qualitative research because it can use both statistical and qualitative analysis. The questionnaire to be used as a data collection method was divided into three sections and contained 55 questions.

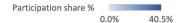
A total of 2,817 individuals participated in our study (65.3% women, mean age $= 28.55 \pm 10.4$ years, range = 18–65 years and above). Participation in the survey was possible from all provinces in Turkey, and the participation rate is displayed on the map in Fig. 1. The survey was conducted online between April 13, 2020, and November 25, 2020. The survey was designed to assess the psychological impact of the social and psychological effects of the COVID-19 on participants. The total of the data obtained covers the adult population of Turkey with a 2% margin of error, a 50% response distribution, and a 95% confidence level. When we consider the study waves separately, the first two waves have 3%, the third wave 4%, and the fourth wave with a 7% margin of error and a 50% response distribution with a 95% confidence level (see Table 2). Only those under the age of 18 were excluded.

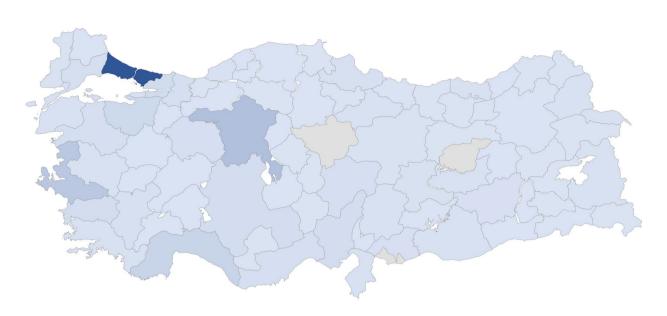
We asked 15-item demographic information section in the first section to determine the participants' personal information, and the second section begins with health and economic behavior-related questions (see Table 3 for the questionnaire). The majority of participants (86%) responded comprehensively to all the questions.

The second part of the questionnaire includes the State-Trait Anxiety Inventory, developed by Spielberger *et al.*¹⁴. This scale measures anxiety symptoms in two sub-dimensions, state, and trait. The scoring of this scale, which consists of 40 items, is done on a 4-point Likert-type scale. High scores from the scale indicate a high level of anxiety. Within the scope of this research, the state anxiety sub-dimension of the inventory was used to measure the current anxiety of individuals. We used the 20-item part of this sub-dimension in our survey.

The third part of the questionnaire includes the Measurement of Distress Intolerance. This scale was developed to evaluate the individual's perceived competence for resilience to various internal or external distresses and his behaviors towards coping¹⁵. This scale consists of 10 items and has a single factor structure. Items are scored on a 5-point Likert-type scale. High scores indicate higher intolerance to distress.

We conducted our survey online in four waves. We announced the first wave in the early period when the daily number of newly confirmed COVID-19 cases peaked (13–26 April 2020; N = 1,124); the second is the first period in which the number of COVID-19 cases decreased (6–23 May 2020; N = 958); the third is the end of the summer season when the number of cases is low (20 July – 8 August 2020; N = 513); the fourth is the period





Powered by Bing

© GeoNames, Microsoft, TomTom

Fig. 1 Spatial distribution of participants in Turkey. The number of people collected in each province is as follows: Istanbul, n = 1,155 (40.5%); Ankara, n = 281 (9.8%); Izmir, n = 219 (7.7%); Antalya, n = 122 (4.3%); other provinces, n = 1,076 (37,7%).

	Population	Sample size	Margin of error	Confidence level	
Total population of Turkey	80,810,525				
Above 15-year-old population	62,100,651				
Total survey participation		2,817	2%	95%	
Survey waves					
Wave 1: April 13-26		1,124	3%	95%	
Wave 2: May 6-23		975	3%	95%	
Wave 3: July 20 - August 8		515	4%	95%	
Wave 4: November 14-25		203	7%	95%	

Table 2. Population of Turkey and sample sizes of survey waves. The numbers for the population of Turkey are taken from TurkStat, and they are Address Based Population Registration System Results in 2017⁵⁶.

when the number of cases increased very rapidly (14–25 November 2020; N = 201) (see Fig. 2). The dataset also includes 36 people who completed the survey randomly from among the waves.

Recruitment methods. We recruited participants primarily through social media posts (Instagram, Twitter, Facebook, and LinkedIn). In addition, we sent emails and messages directly to people who were in close contact with the researchers, asking them to share the survey with their networks. At the outset of the survey, we disclosed in the participant information part that no monetary or material compensation would be provided or requested in exchange for their participation. The questionnaire was hosted on the Google survey platform, Google Forms, and the survey questions took about five minutes to complete.

Ethical approval. The research protocol for this study was approved by the Non-Invasive Research Ethics Committee of Uskudar University (nr: 61351342/2020-236), as well as the Ministry of Health of the Republic of Turkey. Each and every procedure used in the study was in accordance with the ethical standards established by the European Union (EU General Data Protection Regulation and FAIR Data Management). Additionally, we signed the World Medical Association's Declaration of Helsinki: Ethical Principles for Medical Research Involving Human Subjects, which outlines ethical principles for medical research involving human subjects. Participants were informed that participation was completely voluntary and that the results would be kept confidential. The research protocol excluded the collection of data that was sensitive to privacy or that contained personally

Category	Variables	N	Missing	Distinct
	Age	2817	0	49
	Marital status	2817	0	4
	Gender	2817	0	3
	Age range of your child(ren) (if any)	2817	0	25
	City where you live (provinces)	2817	0	78
	Urban-rural divide	2817	0	2
	Education level	2817	0	7
Demographic	Mother's education level	2773	44	8
	Employment status	2817	0	9
	Occupational sector	2817	0	7
	Occupation (ISCO-08)	2506	311	10
	Parent's occupation (ISCO-08)	2817	0	10
	Home office	2411	406	3
	Current income (in month)	2817	0	6
	Last year income (average)	2817	0	6
	Self-rated health	2817	0	5
Health	Personal hygiene behaviour	2817	0	5
Health	Having a chronic disease	2817	0	2
	Diagnosed COVID-19	2817	0	2
	Safety perception	2817	0	5
Security	Community safety perception	2817	0	5
	Feeling uneasy in crowded places	2817	0	2
	Usage of debit/credit card	2817	0	5
EconomicBehavior	Online Shopping	2817	0	5
	Stockpiling	2817	0	2
State-Trait Anxiety Inventory (20-item sub-dimension)			0	5
Measurement of Distress Intolerance			0	5

Table 3. Items and observations about demographic, health, security, economic behavior, State-Trait Anxiety Inventory, and Measurement of Distress Intolerance.

identifiable information (PII). All the participants in the study gave their informed consent after being briefed on the study's objectives.

Data Records

On the Mendeley Data platform, you can download data records in CSV format and files containing the questionnaires in both Turkish and English translations¹⁶. There is also an abbreviation guide for variable names included in the XLSX file as well. All of these resources can be found at the link provided: https://doi.org/10.17632/sv95c7ydpy.

Technical Validation

Before asking participants to answer any questions, we presented an introductory page explaining the purpose of the study, the specifics of what participation would entail (including the identity and affiliations of the researchers, see *the online version* https://forms.gle/HFyqjhwhEcuPDZJW7), and confirmation that the research had received ethical approval from a legitimate review board and ethics committee ¹⁷. Furthermore, we stated that they are free to withdraw from the study at any time and that we will not compensate you in any way, nor will any financial or material contribution be requested from you in exchange for your participation in the study.

Our survey used three main questionnaires: demographic, the State-Trait Anxiety Inventory, and the Measurement of Distress Intolerance. Spielberger *et al.*¹⁴ developed the State-Trait Anxiety Inventory. Its Turkish adaptation was made by Öner and Le Compte¹⁸. They found the internal consistency of the scale to be between 0.94 and 0.96 for the trait anxiety dimension and between 0.83 and 0.87 for the state anxiety dimension. The Measurement of Distress Intolerance scale consists of 10 items which are scored on a 5-point Likert-type scale. Çakır¹⁹ conducted the Turkish validity-reliability study of the scale, and the internal consistency coefficient was found to be 0.92.

We have prior experience in survey design for stress and anxiety, as well as demography research $^{20-25}$. Additionally, we based the demographic, health and safety questions in the survey on previous research $^{8,26-33}$, so that the questions appear reasonable in terms of obtaining the necessary data and comparable with previous findings. In the same way as Mondino *et al.* 6,7 , we administered the preliminary survey to a total of 19 people with various educational backgrounds. Among other things, we inquired whether the questions were straightforward and how they interpreted them. This step ensured that the responses to the questions were consistent with what we expected. It is worth to mention that the potential for human error in data entry is limited since the online survey system automatically collects responses.

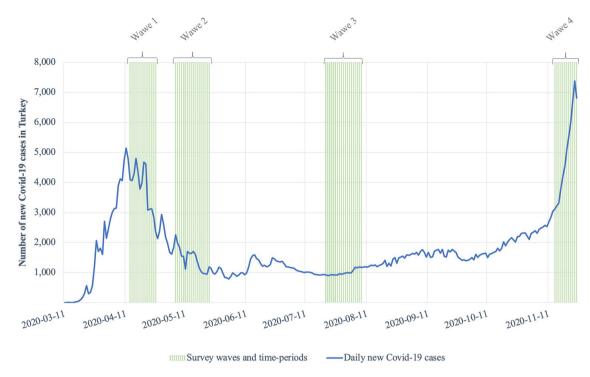


Fig. 2 Number of new COVID-19 cases in Turkey and the data collection periods. We began gathering data on April 13th, 2020, and finished on November 25th, 2020. We announced the survey through social media accounts on April 18th, May 9th, July 20th, and November 16th of 2020. Daily new COVID-19 cases data obtained from Dong *et al.*⁵⁷.

Usage Notes

This dataset provides excellent opportunities to investigate various aspects of psychology, economic behavior, and risk perceptions during natural hazards. It primarily provides detailed information from COVID-19 on individuals' levels of anxiety and distress intolerance. Additionally, it includes information on economic behaviors such as stockpiling, online shopping, and bank/credit card use. It also provides data on people's perceptions of personal safety and public trust in the national government. Finally, it aids researchers in observing changes in the process by addressing the nature of the various responses to the COVID-19 pandemic's different waves and the context of the pandemic's multiple stages.

Indeed, this dataset can be enhanced significantly by adding other relevant and important datasets for international comparative studies, such as Yamada *et al*:3³⁴ COVIDiSTRESS Global Survey on the psychological and behavioral effects of the COVID-19 and Mondino *et al*:3⁶ COVID-19 public impressions in Italy and Sweden datasets (for more details, see *Supplementary Information*). As Mondino *et al*:3⁶ stated, we want to emphasize that such sensitive knowledge is scientifically valuable and can guide policymakers in developing and updating risk management policies during natural hazards.

The dataset is accompanied by survey questionaries files in Turkish and English in PDF format that includes variable descriptions, and R-codes for data processing are publicly available on the Mendeley Data platform¹⁶. There is no need to request access to download data for academic purposes. Semicolons separate columns in the CSV file.

Limitations. Researchers should consider the sample's skewness for respondents, such as being female, single, well-educated, and residing in Istanbul. Therefore, the dataset's samples are not representative of the Turkish population, particularly gender, education level, and marital status. As a result, researchers who must address this issue can weigh the data by referring to publicly available demographic data for Turkey and applying suitable weights to the variables (e.g., https://data.tuik.gov.tr/)³⁵. Users of this dataset should also be aware that these reports are based on self-report and subjective evaluations of participants. We have no attempt or chance to verify the accuracy of the participants' answers externally.

Code availability

Raw data, as well as R-code for cleaning, are freely available at: https://doi.org/10.17632/sv95c7ydpy16.

Received: 22 November 2021; Accepted: 15 July 2022;

Published online: 23 July 2022

References

- 1. Aker, S. & Mıdık, Ö. The Views of Medical Faculty Students in Turkey Concerning the COVID-19 Pandemic. J. Community Health 45, 684-688 (2020).
- 2. Ferreira, C. M., Sá, M. J., Martins, J. G. & Serpa, S. The covid-19 contagion-pandemic dyad: A view from social sciences. Societies 10, 1-19 (2020).
- 3. Garbe, L., Rau, R. & Toppe, T. Influence of perceived threat of Covid-19 and HEXACO personality traits on toilet paper stockpiling. PLoS One 15, 1-12 (2020)
- 4. Karaar, B. & Canli, D. Psychological resilience and depression during the COVID-19 pandemic in Turkey. Psychiatr. Danub. 32, 273-279 (2020).
- 5. Leslie, M. et al. Integrating the social sciences into the COVID-19 response in Alberta, Canada. BMJ Glob. Heal. 5, 1-7 (2020).
- 6. Mondino, E., Di Baldassarre, G., Mård, J., Ridolfi, E. & Rusca, M. Public perceptions of multiple risks during the COVID-19 pandemic in Italy and Sweden. Sci. Data 7, 1-7 (2020).
- 7. Mondino, E. et al. Exploring changes in hydrogeological risk awareness and preparedness over time: a case study in northeastern Italy. Hydrol. Sci. J. 65, 1049-1059 (2020).
- 8. Wachinger, G., Renn, O., Begg, C. & Kuhlicke, C. The risk perception paradox-implications for governance and communication of natural hazards. Risk Anal. 33, 1049-1065 (2013).
- 9. Adger, W. N., Quinn, T., Lorenzoni, I., Murphy, C. & Sweeney, J. Changing social contracts in climate-change adaptation. Nat. Clim. Chang. 3, 330-333 (2013).
- 10. Roder, G., Hudson, P. & Tarolli, P. Flood risk perceptions and the willingness to pay for flood insurance in the Veneto region of Italy. Int. J. Disaster Risk Reduct. 37, 101172 (2019).
- 11. Tversky, A. & Kahneman, D. Judgment under uncertainty: heuristics and biases. Biases in judgments reveal some heuristics of thinking under uncertainty. Science (80-.). 185, 1124-1131 (1974).
- 12. Rosen, Z. et al. Anxiety and distress among the first community quarantined in the U.S due to COVID-19: Psychological implications for the unfolding crisis. PsyArXiv https://doi.org/10.31234/OSF.IO/7EQ8C (2020).
- 13. Koca, F. Promotion of scientific research on COVID-19 in Turkey. Lancet 396, e25-e26 (2020).
- 14. Spielberger, C., Gorsuch, R. & Lushene, R. STAI Manual for the State-Trait Anxiety Inventory. Palo Alto, California, Consult. Psychol. Press (1970).
- 15. McHugh, R. K. & Otto, M. W. Refining the Measurement of Distress Intolerance. Behav. Ther. 43, 641-651 (2012).
- 16. Sari, E., Şencan Karakus, B., Kağan, G. & Özdemir, Ö. Dataset for Social and Psychological Effects of the COVID-19 Pandemic in Turkey. Mendeley Data https://doi.org/10.17632/sv95c7ydpy (2021).
- 17. Ball, H. L. Conducting Online Surveys. J. Hum. Lact. 35, 413-417 (2019).
- 18. Öner, N. & L Compte, A. Süreksiz Durumluk/Sürekli Kaygı Envanteri el kitabı [Handbook of State-Trait Anxiety Inventory]. Boğaziçi Univ. Yayınları (1983).
- Çakır, Z. Kadın Üniversite Öğrencilerinde Yeme Tutumlarının Mükemmeliyetçilik, Sosyotropi-Otonomi, Üstbilişler, Duygulara İlişkin İnançlar, Duygusal Zorlanmaya Toleranssızlıkve Kaçınma İle İlişkisi: Yatkınlaştırıcı ve Sürdürücü Faktörlere Dayalı Bir Model Önerisi. Hacettepe Üniversitesi Sos. Bilim. Enstitüsü (2013).
- Sari, E., Moilanen, M. & Sommerseth, H. L. Transgenerational Health Effects of In Utero Exposure to Economic Hardship: Evidence from Preindustrial Southern Norway. Econ. Hum. Biol. 43, 101060 (2021).
- 21. Şencan, B. M. Depresif Bozuklukta Zihin Kuramı. Psikiyatr. Guncel Yaklasimlar Curr. Approaches. Psychiatry 11, 39-51 (2019).
- Şahbaz, İ., Taner, M. T., Kağan, G. & Erbaş, E. A Comprehensive Evaluation of Eye Surgery Performance by Sigma Quality Level for Eye Care Hospitals in Turkey. Am. J. Oper. Res. 05, 347-356 (2015).
- 23. Mete Yesil, A., Sencan, B., Omercioglu, E. & Ozmert, E. N. The Impact of the COVID-19 Pandemic on Children With Special Needs: A Descriptive Study. Clin. Pediatr. (Phila). https://doi.org/10.1177/00099228211050223 (2021).
- 24. Ertaş, A., Kağan, G., Akçi, Y. & Zelka, M. Türk Toplumunun Covid-19'a İlişkin Bilgi, Tutum ve Uygulamaları. EKEV Akad. Derg. 86 (2021).
- Sari, E., Moilanen, M., Bambra, C., Grimsgaard, S. & Njølstad, I. Association Between Neighborhood Health Behaviors and Body-Mass Index in Northern Norway: Evidence from The Tromsø Study. Scand. J. Public Health https://doi.org/10.1177/14034948211059972
- 26. Percoco, M. Health Shocks and Human Capital Accumulation: The Case of Spanish Flu in Italian Regions. Reg. Stud. 50, 1496–1508 (2015)
- Almond, D. Is the 1918 influenza pandemic over? Long-term effects of in utero influenza exposure in the post-1940 U.S. population. J. Polit. Econ. 114, 672-712 (2006).
- 28. Lin, M. J. & Liu, E. M. Does in utero exposure to illness matter? The 1918 influenza epidemic in taiwan as a natural experiment. I. Health Econ. 37, 152-163 (2014).
- 29. Nelson, R. E. Testing the fetal origins hypothesis in a developing country: Evidence from the 1918 influenza pandemic. Health Econ. **19**, 1181-1192 (2010).
- Acquah, J. K., Dahal, R. & Sloan, F. A. 1918 influenza pandemic: In utero exposure in the United States and long-term impact on hospitalizations. Am. J. Public Health 107, 1477-1483 (2017).
- 31. Wu, B. & Porell, F. Job characteristics and leisure physical activity. J. Aging Health 12, 538-559 (2000).
- 32. Stults-Kolehmainen, M. A. & Sinha, R. The effects of stress on physical activity and exercise. Sports Medicine 44 (2014).
- 33. Alsan, M. & Yang, C. Fear and the Safety Net: Evidence from Secure Communities. NBER Work. Pap. Ser. 24731 (2019).
- 34. Yamada, Y. et al. COVIDiSTRESS Global Survey dataset on psychological and behavioural consequences of the COVID-19 outbreak. Sci. Data 8, 1-23 (2021).
- 35. OECD. Sample Weights. In PISA Data Analysis Manual 47-56 (OECD, 2009).
- 36. SB, T. C. S. B. 2019-nCoV HASTALIĞI SAĞLIK ÇALIŞANLARI REHBERİ (Bilim Kurulu Çalışması). www.hsgm.saglik.gov.tr (2020).
- 37. TCMB. TCMB Faiz Oranlarına İlişkin Basın Duyurusu (2020-01). Turkiye Cumhuriyet Merkez Bankasi https://www.tcmb.gov.tr/ ps/wcm/connect/TR/TCMB+TR/Main+Menu/Duyurular/Basin/2020/DUY2020-01 (2020).
- 38. McIntosh, K. 2019 Novel Coronavirus (2019-nCoV) Update: Uncoating the Virus. Am. Soc. Microbiol. https://doi.org/10.1101/202 0.02.07.937862V1 (2020).
- 39. Daily Sabah. China virus sends shockwaves across travel sector, including in Turkey | Daily Sabah. Daily Sabah https://www. dailysabah.com/tourism/2020/01/28/china-virus-sends-shockwaves-across-travel-sector-including-in-turkey (2020).
- SB, T. C. S. B. T.C. Sağlık Bakanlığı Twitter'da: "? Yeni Koronavirüs enfeksiyonundan korunma yolları nelerdir?/Twitter. Twitter@ saglikbakanligi https://twitter.com/saglikbakanligi/status/1225755162737827841 (2020).
- 41. SB, T. C. S. B. T.C. Sağlık Bakanlığı Twitter'da: "? Çin'den kargo yoluyla gelen paketler aracılığıyla Yeni Koronavirüs enfeksiyonu bulaşma ihtimali var mıdır?/Twitter. Twitter@saglikbakanligi https://twitter.com/saglikbakanligi/status/1225759617629577218 (2020).
- SB, T. C. S. B. T.C. Sağlık Bakanlığı Twitter'da: "? Yeni Koronavirüs enfeksiyonunu üst solunum yollarını tutan diğer hastalıklardan ayıran özellikler nelerdir?/Twitter. Twitter@saglikbakanligi https://twitter.com/saglikbakanligi/status/1225737365160939520 (2020).
- 43. SB, T. C. S. B. T.C. Sağlık Bakanlığı Twitter'da: "? Yeni Koronavirüs (2019-nCoV) nedir?/Twitter. Twitter@saglikbakanlığı https:// twitter.com/saglikbakanligi/status/1225696129578258432 (2020).

- 44. TCMB. TCMB Faiz Oranlarına İlişkin Basın Duyurusu (2020-08). *Turkiye Cumhuriyet Merkez Bankasi* https://www.tcmb.gov.tr/wps/wcm/connect/TR/TCMB+TR/Main+Menu/Duyurular/Basin/2020/DUY2020-08 (2020).
- 45. Euronews. Sağlık Bakanı Koca: Türkiye'de ilk koronavirüs (Covid-19) vakası tespit edildi. Euronews Turkce https://tr.euronews.com/2020/03/10/sagl-k-bakan-koca-koronavirus-covid-19-salg-n-ile-ilgili-ac-klama-yap-yor (2020).
- Daily News, H. Turkey backing intense R&D to find coronavirus vaccine. Daily News, Hurriyet https://www.hurriyetdailynews.com/turkey-backing-intense-r-d-to-find-coronavirus-vaccine-153068 (2020).
- TCMB. TCMB Faiz Oranlarına İlişkin Basın Duyurusu (2020-15). Turkiye Cumhuriyet Merkez Bankasi https://www.tcmb.gov.tr/ wps/wcm/connect/TR/TCMB+TR/Main+Menu/Duyurular/Basin/2020/DUY2020-15 (2020).
- 48. Daily Sabah. Protective measures ramp up as COVID-19 cases mount in Turkey. Daily Sabah https://www.dailysabah.com/turkey/protective-measures-ramp-up-as-covid-19-cases-mount-in-turkey/news (2020).
- Karadag, K. Coronavirus: Turkey restrains older citizens from leaving homes. Anadolu Ajansi https://www.aa.com.tr/en/turkey/coronavirus-turkey-restrains-older-citizens-from-leaving-homes/1774287 (2020).
- 50. Daily News, H. Turkey brings in more stringent virus measures as death toll rises to 30. *Hurriyet Daily News* https://www.hurriyetdailynews.com/turkey-brings-in-more-stringent-virus-measures-as-death-toll-rises-to-30-153201 (2020).
- IB, T. C. I. B. Şehir Giriş/Çıkış Tebirleri ve Yaş Sınırlaması. T.C. Icisleri Bakanligi https://www.icisleri.gov.tr/sehir-giriscikis-tebirleri-ve-yas-sinirlamasi (2020).
- 52. IB, T. C. I. B. 2 Gün Sokağa Çıkma Yasağı. T.C. Icisleri Bakanlığı https://www.icisleri.gov.tr/2-gun-sokaga-cikma-yasagi (2020).
- 53. IB, T. C. I. B. 17–19 Nisan Tarihleri Arasında 30 Büyükşehir ve Zonguldak İl Sınırları İçerisinde Sokağa Çıkma Yasağı. *IB, T.C. Icisleri Bakanligi* https://www.icisleri.gov.tr/17-19-nisan-tarihleri-arasında-30-buyuksehir-ve-zonguldak-il-sinirlari-icerisinde-sokaga-cikma-yasagi (2020).
- 54. IB, T. C. I. B. 30 Büyükşehir ve Zonguldak İlinde 23-24-25-26 Nisan Tarihlerinde Uygulanacak Sokağa Çıkma Kısıtlaması. *T.C. Icisleri Bakanlığı* https://www.icisleri.gov.tr/30-buyuksehir-ve-zonguldak-ilinde-23-24-25-26-nisan-tarihlerinde-uygulanacak-sokaga-cikma-kisitlamasi (2020).
- 55. TCMB. TCMB Faiz Oranlarına İlişkin Basın Duyurusu (2020-23). *Turkiye Cumhuriyet Merkez Bankasi* https://www.tcmb.gov.tr/wps/wcm/connect/TR/TCMB+TR/Main+Menu/Duyurular/Basin/2020/DUY2020-23 (2020).
- 56. Turkish Statistical Institute (TurkStat). Population and Demography Statistics of Turkey. Data. TUIK.gov.tr https://data.tuik.gov.tr/Kategori/GetKategori?p=nufus-ve-demografi-109&dil=2 (2022).
- 57. Dong, E., Du, H. & Gardner, L. An interactive web-based dashboard to track COVID-19 in real time. *Lancet Infect. Dis.* 20, 533–534 (2020).

Acknowledgements

We acknowledge Seda Arik, Gökçe Soydal, and Yiğit Yazgı for their contributions to the data design and collection process.

Author contributions

G.K. and E.S. received ethical approval to conduct the survey. All the authors took part in designing the survey. E.S. and B.K. created the online survey. The illustrations and exploratory analysis were carried out by E.S. All authors contributed to the first draft of the paper, which E.S. wrote. The final manuscript was revised by all authors.

Funding

Open access funding provided by UiT The Arctic University of Norway (incl University Hospital of North Norway).

Competing interests

The authors declare no competing interests.

Additional information

Supplementary information The online version contains supplementary material available at https://doi.org/10.1038/s41597-022-01563-4.

Correspondence and requests for materials should be addressed to E.S.

Reprints and permissions information is available at www.nature.com/reprints.

Publisher's note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this license, visit https://creativecommons.org/licenses/by/4.0/.

© The Author(s) 2022

SCIENTIFIC DATA